



**Supplementary Figure 1 ALB, APL, CRP, D-dimer, Glu, HDL-C, MCH, MCHC, MCV, PLT, and TG did not reach statistical significance.** ALB, serum albumin; APL, serum alkaline phosphatase levels; CRP, C-reactive protein levels; Glu, glucose levels; HDL-C, high-density lipoprotein cholesterol; MCH, mean corpuscular hemoglobin; MCHC, Mean Corpuscular Hemoglobin Concentration; MCV, mean corpuscular volume; PLT, platelet count; TG, triglyceride.

**Table S1 Results of phenome-wide Mendelian randomization analysis of 990 traits linked to acute radiation-induced toxicities (RITs)**

| Exposure ID            | Trait name  | Outcome    | Trait Population                   | Trait Category  | SNPn | Method              | $\beta$ | Se     | P value | Lo_ci   | Up_ci   | OR     | OR_lci_95 | OR_uci_95 |
|------------------------|---|------------|------------------------------------|-----------------|------|---------------------|---------|--------|---------|---------|---------|--------|-----------|-----------|
| <b>ukb-e-23119_CSA</b> | Arm fat percentage (right)                                | acute RITs | South Asian                        | Anthropometrics | 21   | IVW                 | 0.0844  | 0.0379 | 0.0261  | 0.0100  | 0.2864  | 1.0880 | 1.0101    | 1.1720    |
| <b>ukb-e-23121_AFR</b> | Arm fat-free mass (right)                                 | acute RITs | African American or Afro-Caribbean | Anthropometrics | 32   | IVW (fixed effects) | -0.0492 | 0.0223 | 0.0272  | -0.0929 | -0.0055 | 0.9520 | 0.9113    | 0.9945    |
| <b>ukb-b-8909</b>      | Body fat percentage                                       | acute RITs | European                           | Anthropometrics | 644  | IVW                 | 0.0711  | 0.0339 | 0.0360  | 0.0046  | 0.2587  | 1.0737 | 1.0047    | 1.1476    |
| <b>ukb-e-23099_AFR</b> | Body fat percentage                                       | acute RITs | African American or Afro-Caribbean | Anthropometrics | 22   | IVW (fixed effects) | -0.0455 | 0.0229 | 0.0465  | -0.0903 | -0.0007 | 0.9555 | 0.9137    | 0.9993    |
| <b>ukb-e-23104_AFR</b> | Body mass index (BMI)                                     | acute RITs | African American or Afro-Caribbean | Anthropometrics | 25   | Weighted median     | -0.0477 | 0.0211 | 0.0236  | -0.0891 | -0.0064 | 0.9534 | 0.9148    | 0.9936    |
| <b>ukb-e-46_AFR</b>    | Hand grip strength (left)                                 | acute RITs | African American or Afro-Caribbean | Anthropometrics | 17   | IVW (fixed effects) | -0.0571 | 0.0280 | 0.0418  | -0.1121 | -0.0021 | 0.9445 | 0.8940    | 0.9979    |
| <b>ukb-b-8875</b>      | Heel bone mineral density (BMD)                           | acute RITs | European                           | Anthropometrics | 545  | Weighted median     | -0.0646 | 0.0292 | 0.0272  | -0.1219 | -0.0073 | 0.9375 | 0.8853    | 0.9927    |
| <b>ukb-a-500</b>       | Heel bone mineral density (BMD) T-score automated         | acute RITs | European                           | Anthropometrics | 400  | Weighted median     | -0.0703 | 0.0318 | 0.0273  | -0.1326 | -0.0079 | 0.9322 | 0.8758    | 0.9922    |
| <b>ukb-a-500</b>       | Heel bone mineral density (BMD) T-score automated         | acute RITs | European                           | Anthropometrics | 400  | Weighted mode       | -0.0835 | 0.0382 | 0.0294  | -0.1583 | -0.0086 | 0.9199 | 0.8536    | 0.9914    |
| <b>ukb-a-361</b>       | Heel bone mineral density (BMD) T-score automated (left)  | acute RITs | European                           | Anthropometrics | 257  | Weighted median     | -0.0699 | 0.0331 | 0.0347  | -0.1347 | -0.0050 | 0.9325 | 0.8739    | 0.9950    |
| <b>ukb-a-361</b>       | Heel bone mineral density (BMD) T-score automated (left)  | acute RITs | European                           | Anthropometrics | 257  | Weighted mode       | -0.0829 | 0.0362 | 0.0229  | -0.1539 | -0.0119 | 0.9204 | 0.8574    | 0.9881    |
| <b>ukb-a-362</b>       | Heel bone mineral density (BMD) T-score automated (right) | acute RITs | European                           | Anthropometrics | 267  | Weighted median     | -0.0778 | 0.0313 | 0.0128  | -0.1391 | -0.0165 | 0.9251 | 0.8702    | 0.9836    |
| <b>ukb-a-362</b>       | Heel bone mineral density (BMD) T-score automated (right) | acute RITs | European                           | Anthropometrics | 267  | Weighted mode       | -0.0789 | 0.0359 | 0.0290  | -0.1493 | -0.0085 | 0.9241 | 0.8613    | 0.9916    |
| <b>ukb-b-20124</b>     | Heel bone mineral density (BMD) T-score, automated        | acute RITs | European                           | Anthropometrics | 541  | Weighted median     | -0.0709 | 0.0312 | 0.0228  | -0.1320 | -0.0098 | 0.9315 | 0.8763    | 0.9902    |
| <b>ukb-b-11364</b>     | Heel bone mineral density (BMD), manual entry             | acute RITs | European                           | Anthropometrics | 118  | IVW                 | -0.0547 | 0.0182 | 0.0027  | -0.0904 | 0.0399  | 0.9468 | 0.9135    | 0.9812    |
| <b>ukb-b-17612</b>     | Heel bone ultrasound T-score, manual entry                | acute RITs | European                           | Anthropometrics | 83   | Weighted median     | -0.0720 | 0.0358 | 0.0444  | -0.1422 | -0.0018 | 0.9305 | 0.8674    | 0.9982    |
| <b>ukb-b-17612</b>     | Heel bone ultrasound T-score, manual entry                | acute RITs | European                           | Anthropometrics | 83   | Weighted mode       | -0.0971 | 0.0440 | 0.0300  | -0.1833 | -0.0109 | 0.9074 | 0.8325    | 0.9891    |
| <b>ukb-b-17952</b>     | Heel Broadband ultrasound attenuation (BUA), manual entry | acute RITs | European                           | Anthropometrics | 92   | Weighted median     | -0.0785 | 0.0360 | 0.0291  | -0.1491 | -0.0080 | 0.9245 | 0.8615    | 0.9920    |
| <b>ukb-b-17952</b>     | Heel Broadband ultrasound attenuation (BUA), manual entry | acute RITs | European                           | Anthropometrics | 92   | Weighted mode       | -0.0987 | 0.0471 | 0.0389  | -0.1911 | -0.0064 | 0.9060 | 0.8261    | 0.9936    |
| <b>ukb-b-5447</b>      | Heel broadband ultrasound attenuation (left)              | acute RITs | European                           | Anthropometrics | 304  | Weighted median     | -0.0900 | 0.0357 | 0.0117  | -0.1599 | -0.0200 | 0.9140 | 0.8522    | 0.9802    |
| <b>ukb-b-5447</b>      | Heel broadband ultrasound attenuation (left)              | acute RITs | European                           | Anthropometrics | 304  | Weighted mode       | -0.0980 | 0.0378 | 0.0099  | -0.1720 | -0.0239 | 0.9067 | 0.8420    | 0.9763    |
| <b>ukb-b-6027</b>      | Heel broadband ultrasound                                 | acute RITs | European                           | Anthropometrics | 311  | MR                  | -0.0785 | 0.0393 | 0.0466  | -0.1555 | -0.0015 | 0.9245 | 0.8560    | 0.9985    |

|                           |  |            |                                    |                 |     |                     |         |        |        |         |          |                 |          |                        |
|---------------------------|--|------------|------------------------------------|-----------------|-----|---------------------|---------|--------|--------|---------|----------|-----------------|----------|------------------------|
|                           | attenuation (right)                                    |            |                                    |                 |     | Egger               |         |        |        |         |          |                 |          |                        |
| <b>ukb-b-6027</b>         | Heel broadband ultrasound attenuation (right)          | acute RITs | European                           | Anthropometrics | 311 | Weighted median     | -0.0788 | 0.0343 | 0.0215 | -0.1459 | -0.0116  | 0.9242          | 0.8642   | 0.9885                 |
| <b>ukb-b-6027</b>         | Heel broadband ultrasound attenuation (right)          | acute RITs | European                           | Anthropometrics | 311 | Weighted mode       | -0.0880 | 0.0405 | 0.0307 | -0.1674 | -0.0085  | 0.9158          | 0.8459   | 0.9915                 |
| <b>ukb-b-15851</b>        | Heel Broadband ultrasound attenuation, direct entry    | acute RITs | European                           | Anthropometrics | 480 | Weighted median     | -0.0701 | 0.0333 | 0.0356 | -0.1354 | -0.0047  | 0.9323          | 0.8734   | 0.9953                 |
| <b>ukb-b-19234</b>        | Heel quantitative ultrasound index (QUI), direct entry | acute RITs | European                           | Anthropometrics | 541 | Weighted median     | -0.0712 | 0.0308 | 0.0209 | -0.1317 | -0.0108  | 0.9312          | 0.8766   | 0.9893                 |
| <b>ukb-b-19234</b>        | Heel quantitative ultrasound index (QUI), direct entry | acute RITs | European                           | Anthropometrics | 541 | Weighted mode       | -0.0740 | 0.0367 | 0.0440 | -0.1459 | -0.0021  | 0.9287          | 0.8643   | 0.9979                 |
| <b>ukb-b-17848</b>        | Heel quantitative ultrasound index (QUI), manual entry | acute RITs | European                           | Anthropometrics | 114 | IVW                 | -0.0583 | 0.0183 | 0.0014 | -0.0941 | 0.0528   | 0.9434          | 0.9102   | 0.9777                 |
| <b>ukb-e-49_AFR</b>       | Hip circumference                                      | acute RITs | African American or Afro-Caribbean | Anthropometrics | 16  | IVW                 | -0.0558 | 0.0283 | 0.0487 | -0.1113 | -0.0003  | 0.9457          | 0.8947   | 0.9997                 |
| <b>ukb-e-23110_AFR</b>    | Impedance of arm (left)                                | acute RITs | African American or Afro-Caribbean | Anthropometrics | 22  | IVW                 | -0.0512 | 0.0216 | 0.0178 | -0.0935 | 0.0070   | 0.9501          | 0.9107   | 0.9912                 |
| <b>ebi-a-GCST005349</b>   | Total body bone mineral density (age over 60)          | acute RITs | Mixed                              | Anthropometrics | 73  | IVW                 | -0.0384 | 0.0173 | 0.0266 | -0.0724 | 0.0328   | 0.9623          | 0.9301   | 0.9955                 |
| <b>ukb-e-23128_AFR</b>    | Trunk fat mass   | acute RITs | African American or Afro-Caribbean | Anthropometrics | 23  | IVW                 | -0.0525 | 0.0189 | 0.0056 | -0.0896 | 0.0901   | 0.9489          | 0.9143   | 0.9848                 |
| <b>ukb-e-23127_AFR</b>    | Trunk fat percentage                                   | acute RITs | African American or Afro-Caribbean | Anthropometrics | 33  | IVW                 | -0.0469 | 0.0164 | 0.0043 | -0.0791 | 0.0540   | 0.9542          | 0.9239   | 0.9854                 |
| <b>ebi-a-GCST90013422</b> | Ultradistal forearm bone mineral density               | acute RITs | European                           | Anthropometrics | 45  | IVW                 | -0.0673 | 0.0228 | 0.0031 | -0.1119 | 0.0715   | 0.9349          | 0.8941   | 0.9776                 |
| <b>ieu-a-61</b>           | Waist circumference                                    | acute RITs | European                           | Anthropometrics | 105 | IVW                 | 0.0969  | 0.0409 | 0.0179 | 0.0167  | 0.3838   | 1.1017          | 1.0168   | 1.1937                 |
| <b>ieu-a-72</b>           | Waist-to-hip ratio                                     | acute RITs | Mixed                              | Anthropometrics | 83  | IVW (fixed effects) | 0.1008  | 0.0497 | 0.0425 | 0.0034  | 0.1982   | 1.1061          | 1.0034   | 1.2192                 |
| <b>ebi-a-GCST90095035</b> | Waist-to-hip ratio adjusted for BMI                    | acute RITs | Hispanic or Latin American         | Anthropometrics | 31  | MR Egger            | 0.4584  | 0.2095 | 0.0369 | 0.0477  | 0.8691   | 1.5815          | 1.0488   | 2.3847                 |
| <b>ieu-b-4810</b>         | Breast cancer  | acute RITs | European                           | Disease         | 78  | IVW                 | 0.4160  | 0.1980 | 0.0357 | 0.0279  | 1.6259   | 1.5159          | 1.0282   | 2.2349                 |
| <b>ukb-a-57</b>           | Cancer code self-reported: prostate cancer             | acute RITs | European                           | Disease         | 42  | IVW (fixed effects) | -2.3201 | 1.1506 | 0.0437 | -4.5752 | -0.0650  | 0.0983          | 0.0103   | 0.9370                 |
| <b>ukb-b-13545</b>        | Cancer code, self-reported: uterine/endometrial cancer | acute RITs | European                           | Disease         | 5   | IVW                 | 21.5551 | 7.9916 | 0.0070 | 5.8915  | 259.8108 | 229741.46058295 | 361.9402 | 14582834247476100.0000 |
| <b>ebi-a-GCST90018817</b> | Cervical cancer  | acute RITs | European                           | Disease         | 21  | IVW                 | -0.0227 | 0.0104 | 0.0288 | -0.0431 | 0.1315   | 0.9775          | 0.9578   | 0.9977                 |
| <b>ebi-a-GCST012876</b>   | Colorectal cancer                                      | acute RITs | European                           | Disease         | 36  | IVW                 | -0.0535 | 0.0188 | 0.0044 | -0.0903 | 0.0635   | 0.9479          | 0.9136   | 0.9834                 |
| <b>ebi-a-GCST012877</b>   | Colorectal cancer                                      | acute RITs | European                           | Disease         | 38  | MR Egger            | -0.1147 | 0.0473 | 0.0206 | -0.2075 | -0.0219  | 0.8916          | 0.8126   | 0.9783                 |
| <b>ebi-a-GCST90018588</b> | Colorectal cancer                                      | acute RITs | East Asian                         | Disease         | 41  | IVW                 | 0.0355  | 0.0142 | 0.0126 | 0.0076  | 0.1315   | 1.0361          | 1.0076   | 1.0655                 |
| <b>ebi-a-GCST90018838</b> | Endometrial cancer                                     | acute RITs | European                           | Disease         | 15  | IVW                 | 0.0456  | 0.0203 | 0.0249 | 0.0058  | 0.1315   | 1.0467          | 1.0058   | 1.0893                 |
| <b>ieu-a-1163</b>         | ER- Breast cancer (Survival)                           | acute RITs | European                           | Disease         | 22  | MR Egger            | 0.0519  | 0.0234 | 0.0379 | 0.0061  | 0.0977   | 1.0533          | 1.0062   | 1.1027                 |
| <b>ebi-a-GCST90018875</b> | Lung cancer  | acute RITs | European                           | Disease         | 25  | IVW                 | 0.0498  | 0.0217 | 0.0215 | 0.0073  | 0.1315   | 1.0511          | 1.0074   | 1.0967                 |
| <b>ieu-a-985</b>          | Lung cancer  | acute RITs | European                           | Disease         | 41  | MR Egger            | 0.0857  | 0.0418 | 0.0472 | 0.0038  | 0.1676   | 1.0894          | 1.0038   | 1.1824                 |
| <b>ebi-a-GCST004747</b>   | Lung cancer in never smokers                           | acute RITs | European                           | Disease         | 23  | MR                  | 0.0676  | 0.0292 | 0.0311 | 0.0102  | 0.1249   | 1.0699          | 1.0103   | 1.1330                 |

|                                 |  |            |                                    |         |                          |              |        |        |              |              |              |        |             |
|---------------------------------|--|------------|------------------------------------|---------|--------------------------|--------------|--------|--------|--------------|--------------|--------------|--------|-------------|
| <b>ukb-b-14956</b>              | Type of cancer: ICD10: C54.1 Endometrium   | acute RITs | European                           | Disease | Egger<br>4IVW            | -16.596<br>1 | 7.9460 | 0.0367 | -32.170<br>3 | 190.04<br>31 | 0.0000       | 0.0000 | 0.3599      |
| <b>ukb-d-M13_ADHCA PSULITIS</b> | Adhesive capsulitis of shoulder  | acute RITs | European                           | Disease | 25IVW<br>(fixed effects) | 5.9587       | 2.8699 | 0.0379 | 0.3337       | 11.583<br>7  | 387.11<br>09 | 1.3961 | 107338.1333 |
| <b>ebi-a-GCST90086041</b>       | Allergic rhinitis  | acute RITs | European                           | Disease | 20IVW                    | 0.0180       | 0.0073 | 0.0136 | 0.0037       | 0.1315       | 1.0181       | 1.0037 | 1.0328      |
| <b>ebi-a-GCST005529</b>         | Ankylosing spondylitis   | acute RITs | European                           | Disease | 41IVW                    | -0.0962      | 0.0373 | 0.0099 | -0.1694      | -0.0400      | 0.9082       | 0.8442 | 0.9772      |
| <b>ieu-a-45</b>                 | Anorexia nervosa   | acute RITs | European                           | Disease | 9IVW                     | 0.0093       | 0.0044 | 0.0323 | 0.0008       | 0.0151       | 1.0094       | 1.0008 | 1.0180      |
| <b>ukb-d-KRA_PSY_ANYMENTAL</b>  | Any mental disorder  | acute RITs | European                           | Disease | 19IVW                    | 5.3061       | 2.3638 | 0.0248 | 0.6731       | 20.091<br>5  | 201.55<br>36 | 1.9603 | 20723.2291  |
| <b>ebi-a-GCST90000026</b>       | Appendicular lean mass   | acute RITs | European                           | Disease | 570IVW                   | -0.0422      | 0.0186 | 0.0233 | -0.0786      | 0.0635       | 0.9587       | 0.9244 | 0.9943      |
| <b>bbj-a-86</b>                 | Arrhythmia   | acute RITs | East Asian                         | Disease | 53IVW                    | 0.0263       | 0.0126 | 0.0363 | 0.0017       | 0.0840       | 1.0267       | 1.0017 | 1.0523      |
| <b>bbj-a-71</b>                 | Atrial Fibrillation  | acute RITs | East Asian                         | Disease | 67IVW                    | 0.0199       | 0.0084 | 0.0184 | 0.0033       | 0.0488       | 1.0201       | 1.0034 | 1.0370      |
| <b>ukb-b-8463</b>               | Back pain for 3+ months  | acute RITs | European                           | Disease | 25IVW                    | -0.5981      | 0.2715 | 0.0276 | -1.1302      | -0.0659      | 0.5499       | 0.3230 | 0.9362      |
| <b>ukb-e-41 CSA</b>             | Bacterial infection NOS  | acute RITs | South Asian                        | Disease | 12IVW                    | 0.0188       | 0.0082 | 0.0221 | 0.0027       | 0.0348       | 1.0189       | 1.0027 | 1.0355      |
| <b>ukb-a-444</b>                | Blood clot DVT bronchitis emphysema asthma rhinitis eczema allergy diagnosed by doctor: Emphysema/chronic bronchitis | acute RITs | European                           | Disease | 21IVW<br>(fixed effects) | -2.8848      | 1.2936 | 0.0257 | -5.4203      | -0.3494      | 0.0559       | 0.0044 | 0.7051      |
| <b>ukb-e-6152_p1_AFR</b>        | Blood clot, DVT, bronchitis, emphysema, asthma, rhinitis, eczema, allergy diagnosed by doctor                        | acute RITs | African American or Afro-Caribbean | Disease | 16IVW                    | 0.0176       | 0.0073 | 0.0159 | 0.0033       | 0.0341       | 1.0178       | 1.0033 | 1.0324      |
| <b>ebi-a-GCST90038652</b>       | Bone disorder  | acute RITs | NA                                 | Disease | 65MR<br>Egger            | 6.1253       | 3.0435 | 0.0484 | 0.1601       | 12.090<br>4  | 457.25<br>97 | 1.1736 | 178156.3734 |
| <b>ebi-a-GCST90018591</b>       | Cardiac valvular disease   | acute RITs | East Asian                         | Disease | 19IVW<br>(fixed effects) | -0.0070      | 0.0032 | 0.0274 | -0.0132      | -0.0008      | 0.9930       | 0.9868 | 0.9992      |
| <b>ebi-a-GCST90018812</b>       | Cardiomegaly   | acute RITs | European                           | Disease | 21IVW                    | -0.0462      | 0.0210 | 0.0277 | -0.0873      | 0.1315       | 0.9549       | 0.9164 | 0.9950      |
| <b>ukb-e-366 CSA</b>            | Cataract   | acute RITs | South Asian                        | Disease | 13IVW                    | -0.0202      | 0.0102 | 0.0471 | -0.0401      | 0.0119       | 0.9800       | 0.9607 | 0.9997      |
| <b>ieu-a-1058</b>               | Celiac disease   | acute RITs | European                           | Disease | 29MR<br>Egger            | -0.0240      | 0.0098 | 0.0217 | -0.0433      | -0.0047      | 0.9763       | 0.9576 | 0.9953      |
| <b>ebi-a-GCST90018818</b>       | Cholecystitis  | acute RITs | European                           | Disease | 48Weighted median        | -0.0460      | 0.0203 | 0.0237 | -0.0859      | -0.0061      | 0.9550       | 0.9177 | 0.9939      |
| <b>ieu-b-4971</b>               | Cholecystitits   | acute RITs | European                           | Disease | 21Weighted mode          | -0.0697      | 0.0319 | 0.0411 | -0.1323      | -0.0071      | 0.9327       | 0.8761 | 0.9929      |
| <b>ebi-a-GCST90013939</b>       | Cholelithiasis gall stones (SPA correction)  | acute RITs | European                           | Disease | 75Weighted median        | -0.0477      | 0.0192 | 0.0131 | -0.0854      | -0.0100      | 0.9534       | 0.9181 | 0.9900      |
| <b>ebi-a-GCST90013939</b>       | Cholelithiasis gall stones (SPA correction)  | acute RITs | European                           | Disease | 75Weighted mode          | -0.0414      | 0.0187 | 0.0299 | -0.0781      | -0.0047      | 0.9594       | 0.9249 | 0.9953      |
| <b>ebi-a-GCST008026</b>         | Chronic kidney disease   | acute RITs | Hispanic or Latin American         | Disease | 31IVW                    | 0.0347       | 0.0137 | 0.0113 | 0.0079       | 0.0472       | 1.0353       | 1.0079 | 1.0636      |
| <b>ebi-a-GCST90018809</b>       | Chronic suppurative otitis media   | acute RITs | European                           | Disease | 17IVW                    | -0.0371      | 0.0142 | 0.0090 | -0.0649      | 0.1315       | 0.9636       | 0.9372 | 0.9908      |
| <b>ukb-e-851_CSA</b>            | Complications of transplants and reattached limbs  | acute RITs | South Asian                        | Disease | 16MR<br>Egger            | 0.0345       | 0.0154 | 0.0422 | 0.0042       | 0.0647       | 1.0351       | 1.0043 | 1.0668      |
| <b>ukb-e-5264_AFR</b>           | Corneal hysteresis (left)  | acute RITs | African American or Afro-Caribbean | Disease | 30MR<br>Egger            | 0.0745       | 0.0350 | 0.0424 | 0.0058       | 0.1432       | 1.0773       | 1.0059 | 1.1539      |
| <b>ebi-a-GCST004132</b>         | Crohn's disease  | acute RITs | Mixed                              | Disease | 183IVW                   | -0.0122      | 0.0059 | 0.0371 | -0.0237      | 0.0083       | 0.9878       | 0.9765 | 0.9993      |
| <b>ieu-a-30</b>                 | Crohn's disease  | acute RITs | European                           | Disease | 115IVW                   | -0.0142      | 0.0057 | 0.0136 | -0.0254      | 0.0043       | 0.9859       | 0.9749 | 0.9971      |
| <b>ukb-e-D64 CSA</b>            | D64 Other anaemias   | acute RITs | South Asian                        | Disease | 12IVW                    | -0.0153      | 0.0074 | 0.0379 | -0.0297      | -0.0027      | 0.9848       | 0.9707 | 0.9991      |
| <b>ukb-b-3145</b>               | Diagnoses - main ICD10:  | acute RITs | European                           | Disease | 7IVW                     | -15.127      | 6.0226 | 0.0120 | -26.931      | -3.3228      | 0.0000       | 0.0000 | 0.0361      |

|                    |   |            |          |         |                      |          |         |        |          |           |              |         |                   |  |
|--------------------|---|------------|----------|---------|----------------------|----------|---------|--------|----------|-----------|--------------|---------|-------------------|--|
|                    | C44.5 Skin of trunk   |            |          |         |                      |          | 1       |        |          | 4         |              |         |                   |  |
| <b>ukb-d-C67</b>   | Diagnoses - main ICD10: C67 Malignant neoplasm of bladder   | acute RITs | European | Disease | 24IVW                | 5.6009   | 2.4147  | 0.0204 | 0.8680   | 24.6032   | 270.6649     | 2.3821  | 30754.1321        |  |
| <b>ukb-a-521</b>   | Diagnoses - main ICD10: D12 Benign neoplasm of colon rectum anus and anal canal   | acute RITs | European | Disease | 24IVW                | -3.7761  | 1.2442  | 0.0024 | -6.2148  | -3.6729   | 0.0229       | 0.0020  | 0.2625            |  |
| <b>ukb-d-D23</b>   | Diagnoses - main ICD10: D23 Other benign neoplasms of skin  | acute RITs | European | Disease | 17IVW                | 5.0976   | 2.3294  | 0.0286 | 0.5321   | 19.0869   | 163.6268     | 1.7024  | 15726.7962        |  |
| <b>ukb-d-H33</b>   | Diagnoses - main ICD10: H33 Retinal detachments and breaks  | acute RITs | European | Disease | 35Weighted median    | -4.6807  | 2.3671  | 0.0480 | -9.3203  | -0.0412   | 0.0093       | 0.0001  | 0.9597            |  |
| <b>ukb-b-11771</b> | Diagnoses - main ICD10: K08.3 Retained dental root  | acute RITs | European | Disease | 3IVW                 | -24.7170 | 11.2905 | 0.0286 | -46.8465 | 1137.3306 | 0.0000       | 0.0000  | 0.0752            |  |
| <b>ukb-b-19354</b> | Diagnoses - main ICD10: K20 Oesophagitis  | acute RITs | European | Disease | 9IVW                 | 10.2213  | 3.0951  | 0.0010 | 4.1550   | 16.2877   | 27483.6981   | 63.7536 | 11848011.6535     |  |
| <b>ukb-b-11369</b> | Diagnoses - main ICD10: K40.2 Bilateral inguinal hernia, without obstruction or gangrene  | acute RITs | European | Disease | 7IVW (fixed effects) | 13.3763  | 6.5441  | 0.0410 | 0.5498   | 26.2027   | 644516.7889  | 1.7329  | 239720000000.0000 |  |
| <b>ukb-b-19805</b> | Diagnoses - main ICD10: K62.1 Rectal polyp  | acute RITs | European | Disease | 10MR Egger           | -36.6931 | 15.5393 | 0.0459 | -67.1502 | -6.2360   | 0.0000       | 0.0000  | 0.0020            |  |
| <b>ukb-b-8988</b>  | Diagnoses - main ICD10: K80.1 Calculus of gallbladder with other cholecystitis  | acute RITs | European | Disease | 20Weighted median    | -4.8479  | 2.3563  | 0.0396 | -9.4664  | -0.2295   | 0.0078       | 0.0001  | 0.7949            |  |
| <b>ukb-b-8988</b>  | Diagnoses - main ICD10: K80.1 Calculus of gallbladder with other cholecystitis  | acute RITs | European | Disease | 20Weighted mode      | -5.0780  | 2.3343  | 0.0424 | -9.6533  | -0.5028   | 0.0062       | 0.0001  | 0.6049            |  |
| <b>ukb-d-K81</b>   | Diagnoses - main ICD10: K81 Cholecystitis   | acute RITs | European | Disease | 21IVW                | -7.3253  | 2.3565  | 0.0019 | -11.9441 | 1.3929    | 0.0007       | 0.0000  | 0.0668            |  |
| <b>ukb-d-K92</b>   | Diagnoses - main ICD10: K92 Other diseases of digestive system  | acute RITs | European | Disease | 15Weighted median    | -5.2542  | 2.5422  | 0.0387 | -10.2369 | -0.2716   | 0.0052       | 0.0000  | 0.7622            |  |
| <b>ukb-d-L57</b>   | Diagnoses - main ICD10: L57 Skin changes due to chronic exposure to nonionising radiation   | acute RITs | European | Disease | 34MR Egger           | 14.1263  | 6.4288  | 0.0354 | 1.5259   | 26.7267   | 1364441.6840 | 4.5991  | 404799000000.0000 |  |
| <b>ukb-b-15003</b> | Diagnoses - main ICD10: L72.0 Epidermal cyst  | acute RITs | European | Disease | 8IVW                 | 12.5713  | 5.0035  | 0.0120 | 2.7645   | 93.4266   | 288168.5502  | 15.8713 | 5232143634.7479   |  |
| <b>ukb-b-7700</b>  | Diagnoses - main ICD10: M17.1 Other primary gonarthrosis  | acute RITs | European | Disease | 18IVW                | 5.0592   | 2.4553  | 0.0394 | 0.2467   | 9.8717    | 157.4642     | 1.2798  | 19373.6011        |  |
| <b>ukb-b-9694</b>  | Diagnoses - main ICD10: M23.22 Derangement of meniscus due to old tear or injury (Posterior cruciate ligament or Posterior horn of medial meniscus) | acute RITs | European | Disease | 6IVW (fixed effects) | -13.8314 | 5.7574  | 0.0163 | -25.1160 | -2.5468   | 0.0000       | 0.0000  | 0.0783            |  |
| <b>ukb-d-M70</b>   | Diagnoses - main ICD10: M70 Soft tissue disorders related to use, overuse and pressure  | acute RITs | European | Disease | 15Weighted median    | -12.7987 | 5.9556  | 0.0316 | -24.4717 | -1.1256   | 0.0000       | 0.0000  | 0.3244            |  |
| <b>ukb-b-18372</b> | Diagnoses - main ICD10: N20.0 Calculus of kidney  | acute RITs | European | Disease | 16IVW                | 7.0409   | 2.9430  | 0.0167 | 1.2726   | 12.8092   | 1142.4020    | 3.5701  | 365562.8089       |  |
| <b>ukb-b-18629</b> | Diagnoses - main ICD10: N20.1 Calculus of ureter  | acute RITs | European | Disease | 13Weighted median    | 10.4286  | 5.1394  | 0.0424 | 0.3554   | 20.5018   | 33812.0328   | 1.4267  | 801310134.2000    |  |
| <b>ukb-d-O80</b>   | Diagnoses - main ICD10: O80 Single spontaneous delivery   | acute RITs | European | Disease | 17MR Egger           | 20.4788  | 9.2934  | 0.0436 | 2.2637   | 38.6938   | 783097870.80 | 9.6190  | 637529000000      |  |

|                             |   |            |             |         |                       |          |        |        |          |          |               |        |                    |
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|                             |   |            |             |         |                       |          |        |        |          |          |               | 00     | 00000.0            |
| <b>ukb-b-6608</b>           | Diagnoses - main ICD10: R10.1 Pain localised to upper abdomen                                       | acute RITs | European    | Disease | 9IVW                  | -6.0722  | 2.6604 | 0.0225 | -11.2866 | 3.5076   | 0.0023        | 0.0000 | 0.4241             |
| <b>ukb-b-17456</b>          | Diagnoses - main ICD10: R10.3 Pain localised to other parts of lower abdomen                        | acute RITs | European    | Disease | 12IVW (fixed effects) | -5.2755  | 2.5970 | 0.0422 | -10.3656 | -0.1855  | 0.0051        | 0.0000 | 0.8307             |
| <b>ukb-a-584</b>            | Diagnoses - main ICD10: R14 Flatulence and related conditions                                       | acute RITs | European    | Disease | 24IVW (fixed effects) | 15.6066  | 7.2203 | 0.0307 | 1.4548   | 29.7584  | 5995908.9760  | 4.2836 | 839269000000.0000  |
| <b>ukb-d-S61</b>            | Diagnoses - main ICD10: S61 Open wound of wrist and hand  | acute RITs | European    | Disease | 20IVW                 | -5.6664  | 2.7878 | 0.0421 | -11.1305 | 11.6002  | 0.0035        | 0.0000 | 0.8169             |
| <b>ukb-d-Z45</b>            | Diagnoses - main ICD10: Z45 Adjustment and management of implanted device                           | acute RITs | European    | Disease | 18IVW                 | 5.8853   | 2.6205 | 0.0247 | 0.7492   | 17.1844  | 359.7123      | 2.1153 | 61170.5388         |
| <b>ukb-b-16056</b>          | Diagnoses - secondary ICD10: F10.1 Harmful use  | acute RITs | European    | Disease | 7IVW                  | 11.6276  | 5.5943 | 0.0377 | 0.6628   | 204.6921 | 112148.9245   | 1.9402 | 6482632595.1518    |
| <b>ukb-b-19651</b>          | Diagnoses - secondary ICD10: F10.2 Dependence syndrome  | acute RITs | European    | Disease | 12IVW                 | -11.8680 | 4.9205 | 0.0159 | -21.5122 | -2.2239  | 0.0000        | 0.0000 | 0.1082             |
| <b>ukb-b-16751</b>          | Diagnoses - secondary ICD10: J44.9 Chronic obstructive pulmonary disease, unspecified               | acute RITs | European    | Disease | 28IVW (fixed effects) | -3.8095  | 1.9161 | 0.0468 | -7.5651  | -0.0540  | 0.0222        | 0.0005 | 0.9475             |
| <b>ukb-b-11675</b>          | Diagnoses - secondary ICD10: K66.0 Peritoneal adhesions   | acute RITs | European    | Disease | 5IVW                  | 14.9395  | 7.2846 | 0.0403 | 0.6617   | 846.5112 | 3076986.5844  | 1.9380 | 4885377374051.5700 |
| <b>ukb-b-20233</b>          | Diagnoses - secondary ICD10: M19.99 Arthrosis, unspecified (Site unspecified)                       | acute RITs | European    | Disease | 9Weighted median      | 13.0185  | 5.6472 | 0.0211 | 1.9501   | 24.0870  | 450683.0305   | 7.0292 | 28895882033.0000   |
| <b>ukb-b-6413</b>           | Diagnoses - secondary ICD10: N73.6 Female pelvic peritoneal adhesions                               | acute RITs | European    | Disease | 6Weighted median      | 16.5417  | 8.2476 | 0.0449 | 0.3764   | 32.7071  | 15275245.0200 | 1.4571 | 160139000000.00000 |
| <b>ukb-b-10490</b>          | Diagnoses - secondary ICD10: Z03.8 Observation for other suspected diseases and conditions          | acute RITs | European    | Disease | 11IVW                 | -8.0717  | 4.1055 | 0.0493 | -16.1185 | 237.2872 | 0.0003        | 0.0000 | 0.9754             |
| <b>ukb-b-2895</b>           | Diagnoses - secondary ICD10: Z60.2 Living alone   | acute RITs | European    | Disease | 4IVW                  | -10.9525 | 5.4614 | 0.0449 | -21.6569 | -0.2481  | 0.0000        | 0.0000 | 0.7803             |
| <b>ukb-b-10911</b>          | Diagnoses - secondary ICD10: Z92.2 Personal history of long-term (current) use of other medicaments | acute RITs | European    | Disease | 19IVW                 | -4.9026  | 1.6296 | 0.0026 | -8.0967  | -3.0799  | 0.0074        | 0.0003 | 0.1811             |
| <b>ukb-d-IX_CIRCULATORY</b> | Diseases of the circulatory system  | acute RITs | European    | Disease | 61IVW (fixed effects) | 0.5234   | 0.2648 | 0.0481 | 0.0043   | 1.0425   | 1.6877        | 1.0043 | 2.8362             |
| <b>ukb-a-254</b>            | Doctor diagnosed hayfever or allergic rhinitis  | acute RITs | European    | Disease | 67MR Egger            | -0.6609  | 0.3154 | 0.0400 | -1.2791  | -0.0427  | 0.5164        | 0.2783 | 0.9582             |
| <b>ukb-d-20429</b>          | Easily tired during worst period of anxiety   | acute RITs | European    | Disease | 19IVW                 | 0.3237   | 0.1333 | 0.0152 | 0.0623   | 0.7877   | 1.3822        | 1.0643 | 1.7951             |
| <b>ukb-e-F17_CSA</b>        | F17 Mental and behavioral disorders due to use of tobacco   | acute RITs | South Asian | Disease | 17IVW (fixed effects) | 0.0094   | 0.0045 | 0.0374 | 0.0005   | 0.0182   | 1.0094        | 1.0005 | 1.0183             |
| <b>ebi-a-GCST90018625</b>   | Food allergy  | acute RITs | East Asian  | Disease | 10IVW                 | -0.0738  | 0.0289 | 0.0107 | -0.1305  | 0.1315   | 0.9289        | 0.8777 | 0.9831             |
| <b>ebi-a-GCST90000514</b>   | Gastroesophageal reflux   | acute RITs | European    | Disease | 226Weighted median    | -0.0743  | 0.0325 | 0.0223 | -0.1380  | -0.0106  | 0.9284        | 0.8711 | 0.9895             |

|                             |  |            |                                    |         |                                      |          |        |        |          |          |               |          |                     |
|-----------------------------|--|------------|------------------------------------|---------|--------------------------------------|----------|--------|--------|----------|----------|---------------|----------|---------------------|
| <b>ebi-a-GCST90018635</b>   | disease<br>Hashimoto thyroiditis   | acute RITs | East Asian                         | Disease | d median<br>11IVW<br>(fixed effects) | 0.0100   | 0.0051 | 0.0479 | 0.0001   | 0.0199   | 1.0101        | 1.0001   | 1.0201              |
| <b>ukb-e-2247_p1_AFR</b>    | Hearing difficulty/problems  | acute RITs | African American or Afro-Caribbean | Disease | 14MR Egger                           | 0.0279   | 0.0115 | 0.0317 | 0.0054   | 0.0504   | 1.0283        | 1.0054   | 1.0516              |
| <b>ebi-a-GCST90038627</b>   | Hepatitis  | acute RITs | NA                                 | Disease | 23IVW                                | 6.7772   | 3.3551 | 0.0434 | 0.2011   | 0.1315   | 877.5658      | 1.2228   | 629821.7340         |
| <b>ukb-d-K11_HERNIA</b>     | Hernia   | acute RITs | European                           | Disease | 60IVW                                | 0.6948   | 0.3517 | 0.0482 | 0.0054   | 4.3434   | 2.0033        | 1.0054   | 3.9917              |
| <b>ieu-a-1169</b>           | Hip osteoarthritis   | acute RITs | European                           | Disease | 13IVW                                | -0.0470  | 0.0183 | 0.0101 | -0.0829  | -0.0112  | 0.9540        | 0.9205   | 0.9888              |
| <b>ebi-a-GCST90018860</b>   | Hyperthyroidism  | acute RITs | European                           | Disease | 51IVW                                | 0.0220   | 0.0105 | 0.0359 | 0.0014   | 0.1315   | 1.0222        | 1.0014   | 1.0435              |
| <b>ebi-a-GCST90018861</b>   | Hypertrophic cardiomyopathy  | acute RITs | European                           | Disease | 16IVW                                | -0.0176  | 0.0079 | 0.0266 | -0.0331  | 0.1315   | 0.9826        | 0.9674   | 0.9980              |
| <b>ukb-e-I25_AFR</b>        | I25 Chronic ischaemic heart disease  | acute RITs | African American or Afro-Caribbean | Disease | 18IVW                                | 0.0083   | 0.0037 | 0.0225 | 0.0012   | 0.0172   | 1.0084        | 1.0012   | 1.0156              |
| <b>ebi-a-GCST003043</b>     | Inflammatory bowel disease   | acute RITs | European                           | Disease | 199IVW                               | -0.0199  | 0.0080 | 0.0133 | -0.0356  | 0.0097   | 0.9803        | 0.9650   | 0.9959              |
| <b>ieu-a-292</b>            | Inflammatory bowel disease   | acute RITs | European                           | Disease | 176IVW                               | -0.0202  | 0.0078 | 0.0094 | -0.0355  | 0.0196   | 0.9800        | 0.9651   | 0.9951              |
| <b>ieu-a-294</b>            | Inflammatory bowel disease   | acute RITs | European                           | Disease | 200IVW                               | -0.0189  | 0.0080 | 0.0183 | -0.0346  | 0.0091   | 0.9813        | 0.9660   | 0.9968              |
| <b>ebi-a-GCST90038626</b>   | Irritable bowel syndrome   | acute RITs | NA                                 | Disease | 22IVW                                | 3.5530   | 1.3483 | 0.0084 | 0.9102   | 0.1315   | 34.9171       | 2.4849   | 490.6377            |
| <b>bbj-a-129</b>            | Ischemic stroke  | acute RITs | East Asian                         | Disease | 35IVW                                | 0.0621   | 0.0213 | 0.0035 | 0.0204   | 0.1563   | 1.0640        | 1.0206   | 1.1093              |
| <b>ukb-e-K21_CSA</b>        | K21 Gastro-oesophageal reflux disease  | acute RITs | South Asian                        | Disease | 10IVW                                | -0.0351  | 0.0109 | 0.0013 | -0.0565  | 0.0566   | 0.9656        | 0.9451   | 0.9865              |
| <b>ukb-e-M17_CSA</b>        | M17 Gonarthrosis [arthrosis of knee]   | acute RITs | South Asian                        | Disease | 15IVW                                | -0.0153  | 0.0072 | 0.0331 | -0.0293  | 0.0166   | 0.9848        | 0.9711   | 0.9988              |
| <b>ukb-b-6458</b>           | Mouth/teeth dental problems: Mouth ulcers  | acute RITs | European                           | Disease | 122IVW<br>(fixed effects)            | 0.3741   | 0.1908 | 0.0499 | 0.0002   | 0.7480   | 1.4537        | 1.0002   | 2.1128              |
| <b>ukb-a-429</b>            | Mouth/teeth dental problems: Painful gums  | acute RITs | European                           | Disease | 13IVW                                | -2.9103  | 1.4035 | 0.0381 | -5.6610  | 7.4257   | 0.0545        | 0.0035   | 0.8526              |
| <b>ieu-b-18</b>             | multiple sclerosis   | acute RITs | European                           | Disease | 136IVW                               | -0.0140  | 0.0061 | 0.0228 | -0.0260  | 0.0043   | 0.9861        | 0.9743   | 0.9981              |
| <b>ukb-e-N17_CSA</b>        | N17 Acute renal failure  | acute RITs | South Asian                        | Disease | 12IVW                                | -0.0101  | 0.0047 | 0.0320 | -0.0193  | 0.0055   | 0.9900        | 0.9809   | 0.9991              |
| <b>ukb-e-N18_AFR</b>        | N18 Chronic renal failure  | acute RITs | African American or Afro-Caribbean | Disease | 7IVW<br>(fixed effects)              | 0.0074   | 0.0036 | 0.0389 | 0.0004   | 0.0144   | 1.0074        | 1.0004   | 1.0145              |
| <b>ebi-a-GCST006940</b>     | Neuroticism  | acute RITs | European                           | Disease | 286IVW                               | 0.0929   | 0.0420 | 0.0268 | 0.0107   | 0.2398   | 1.0974        | 1.0108   | 1.1915              |
| <b>ukb-a-230</b>            | Neuroticism score  | acute RITs | European                           | Disease | 225IVW                               | 0.0254   | 0.0129 | 0.0493 | 0.0001   | 0.0506   | 1.0257        | 1.0001   | 1.0519              |
| <b>ukb-a-81</b>             | Non-cancer illness code self-reported: depression                                | acute RITs | European                           | Disease | 37IVW<br>(fixed effects)             | -1.1716  | 0.5653 | 0.0382 | -2.2795  | -0.0637  | 0.3099        | 0.1023   | 0.9383              |
| <b>ukb-a-94</b>             | Non-cancer illness code self-reported: hayfever/allergic rhinitis                | acute RITs | European                           | Disease | 72IVW                                | -0.7422  | 0.3294 | 0.0243 | -1.3878  | 2.4490   | 0.4761        | 0.2496   | 0.9080              |
| <b>ukb-a-86</b>             | Non-cancer illness code self-reported: joint disorder                            | acute RITs | European                           | Disease | 25IVW                                | -6.7112  | 2.4351 | 0.0059 | -11.4839 | 3.9309   | 0.0012        | 0.0000   | 0.1439              |
| <b>ukb-e-20002_p95_CS A</b> | Non-cancer illness code, self-reported   | acute RITs | South Asian                        | Disease | 15IVW                                | -0.0120  | 0.0053 | 0.0240 | -0.0224  | 0.0147   | 0.9881        | 0.9778   | 0.9984              |
| <b>ukb-b-14027</b>          | Non-cancer illness code, self-reported: chickenpox                               | acute RITs | European                           | Disease | 6IVW                                 | 18.4089  | 5.9791 | 0.0021 | 6.6898   | 283.0909 | 98831975.3985 | 804.1785 | 12146257123423.7000 |
| <b>ukb-b-3044</b>           | Non-cancer illness code, self-reported: colitis/not crohns or ulcerative colitis | acute RITs | European                           | Disease | 6IVW                                 | -19.3235 | 7.2338 | 0.0076 | -33.5017 | 104.2908 | 0.0000        | 0.0000   | 0.0058              |
| <b>ukb-b-14452</b>          | Non-cancer illness code,   | acute RITs | European                           | Disease | 7IVW                                 | 12.093   | 5.1892 | 0.0198 | 1.9224   | 105.51   | 178660        | 6.8373   | 466843              |

|                             |  |            |                                    |         |                       |          |        |        |          |           |                    |           |                          |       |  |         |
|-----------------------------|--|------------|------------------------------------|---------|-----------------------|----------|--------|--------|----------|-----------|--------------------|-----------|--------------------------|-------|--|---------|
|                             | self-reported: inguinal hernia   |            |                                    |         |                       |          |        |        |          | 2         |                    |           | 56                       | .9307 |  | 7942.78 |
| <b>ukb-b-2592</b>           | Non-cancer illness code, self-reported: irritable bowel syndrome         | acute RITs | European                           | Disease | 18IVW                 | 4.8102   | 1.6789 | 0.0042 | 1.5195   | 22.1987   | 122.7576           | 4.5699    | 3297.5570                |       |  | 30      |
| <b>ukb-b-17670</b>          | Non-cancer illness code, self-reported: multiple sclerosis               | acute RITs | European                           | Disease | 14IVW                 | -5.2205  | 2.6174 | 0.0461 | -10.3507 | 4.9046    | 0.0054             | 0.0000    | 0.9136                   |       |  |         |
| <b>ukb-b-6633</b>           | Non-cancer illness code, self-reported: other renal/kidney problem       | acute RITs | European                           | Disease | 9IVW                  | 9.1802   | 4.6217 | 0.0470 | 0.1217   | 18.2386   | 9702.6444          | 1.1294    | 83357352.7826            |       |  |         |
| <b>ukb-b-14210</b>          | Non-cancer illness code, self-reported: rectal or colon adenoma/polyps   | acute RITs | European                           | Disease | 3IVW                  | 28.2307  | 9.9247 | 0.0044 | 8.7782   | 1247.8982 | 1821535322220.1400 | 6491.3272 | 5111421507833030000.0000 |       |  | 0       |
| <b>ukb-b-15749</b>          | Non-cancer illness code, self-reported: transient ischaemic attack (tia) | acute RITs | European                           | Disease | 5IVW                  | -17.3775 | 7.1686 | 0.0153 | -31.4280 | 410.0071  | 0.0000             | 0.0000    | 0.0359                   |       |  |         |
| <b>ebi-a-GCST007091</b>     | Osteoarthritis (hip)   | acute RITs | European                           | Disease | 71IVW                 | 0.0338   | 0.0168 | 0.0442 | 0.0009   | 0.1296    | 1.0343             | 1.0009    | 1.0689                   |       |  |         |
| <b>ukb-d-I9_ARTOTH</b>      | Other diseases of arteries and capillaries                               | acute RITs | European                           | Disease | 20MR Egger            | 20.3201  | 9.6696 | 0.0499 | 1.3677   | 39.2725   | 668205162.4000     | 3.9262    | 114000000000.0000        |       |  |         |
| <b>ukb-e-596_CSA</b>        | Other disorders of bladder   | acute RITs | South Asian                        | Disease | 12IVW                 | 0.0136   | 0.0049 | 0.0060 | 0.0039   | 0.0344    | 1.0137             | 1.0039    | 1.0235                   |       |  |         |
| <b>ukb-e-569_AFR</b>        | Other disorders of intestine   | acute RITs | African American or Afro-Caribbean | Disease | 14IVW                 | 0.0093   | 0.0035 | 0.0078 | 0.0025   | 0.0250    | 1.0094             | 1.0025    | 1.0164                   |       |  |         |
| <b>ukb-e-306_CSA</b>        | Other mental disorder  | acute RITs | South Asian                        | Disease | 11Weighted median     | -0.0172  | 0.0074 | 0.0206 | -0.0317  | -0.0026   | 0.9830             | 0.9688    | 0.9974                   |       |  |         |
| <b>ukb-a-469</b>            | Pain type(s) experienced in last month: Headache                         | acute RITs | European                           | Disease | 11MR Egger            | 1.0297   | 0.4963 | 0.0404 | 0.0570   | 2.0024    | 2.8001             | 1.0586    | 7.4065                   |       |  |         |
| <b>ukb-b-18596</b>          | Pain type(s) experienced in last month: Neck or shoulder pain            | acute RITs | European                           | Disease | 90IVW                 | 0.5368   | 0.2377 | 0.0239 | 0.0709   | 1.0027    | 1.7106             | 1.0735    | 2.7257                   |       |  |         |
| <b>ukb-b-9130</b>           | Pain type(s) experienced in last month: None of the above                | acute RITs | European                           | Disease | 177IVW                | -0.2839  | 0.1301 | 0.0291 | -0.5388  | 0.0984    | 0.7528             | 0.5834    | 0.9715                   |       |  |         |
| <b>ukb-d-M13_DUPUTR YEN</b> | Palmar fascial fibromatosis [Dupuytren]                                  | acute RITs | European                           | Disease | 78Weighted median     | -1.8447  | 0.8925 | 0.0387 | -3.5940  | -0.0955   | 0.1581             | 0.0275    | 0.9089                   |       |  |         |
| <b>ebi-a-GCST90018897</b>   | Periodontal disease  | acute RITs | European                           | Disease | 16IVW                 | 0.0594   | 0.0254 | 0.0192 | 0.0097   | 0.1315    | 1.0612             | 1.0097    | 1.1153                   |       |  |         |
| <b>ebi-a-GCST90018679</b>   | Pleurisy   | acute RITs | East Asian                         | Disease | 11IVW                 | 0.0051   | 0.0026 | 0.0475 | 0.0001   | 0.1315    | 1.0051             | 1.0001    | 1.0103                   |       |  |         |
| <b>ebi-a-GCST90018683</b>   | Pollinosis   | acute RITs | East Asian                         | Disease | 25IVW                 | 0.0907   | 0.0372 | 0.0149 | 0.0177   | 0.1315    | 1.0949             | 1.0178    | 1.1778                   |       |  |         |
| <b>ebi-a-GCST005581</b>     | Primary biliary cirrhosis  | acute RITs | European                           | Disease | 43IVW                 | -0.0144  | 0.0067 | 0.0322 | -0.0275  | -0.0120   | 0.9857             | 0.9729    | 0.9988                   |       |  |         |
| <b>ebi-a-GCST90013954</b>   | Retinitis pigmentosa (SPA correction)                                    | acute RITs | European                           | Disease | 15IVW (fixed effects) | -0.0396  | 0.0198 | 0.0459 | -0.0784  | -0.0007   | 0.9612             | 0.9246    | 0.9993                   |       |  |         |
| <b>ebi-a-GCST005538</b>     | Sarcoidosis  | acute RITs | European                           | Disease | 13IVW (fixed effects) | -0.0198  | 0.0100 | 0.0469 | -0.0393  | -0.0003   | 0.9804             | 0.9615    | 0.9997                   |       |  |         |
| <b>ukb-a-246</b>            | Seen doctor (GP) for nerves anxiety tension or depression                | acute RITs | European                           | Disease | 131IVW                | 0.3240   | 0.1376 | 0.0185 | 0.0544   | 0.5936    | 1.3826             | 1.0559    | 1.8105                   |       |  |         |
| <b>ebi-a-GCST90000255</b>   | Severe COVID-19 infection with respiratory failure (analysis I)          | acute RITs | European                           | Disease | 15IVW                 | -0.0207  | 0.0092 | 0.0247 | -0.0388  | 0.0635    | 0.9795             | 0.9619    | 0.9974                   |       |  |         |
| <b>ebi-a-GCST90026414</b>   | Severe insulin-resistant type 2 diabetes                                 | acute RITs | European                           | Disease | 12IVW                 | -0.0214  | 0.0099 | 0.0305 | -0.0407  | 0.1315    | 0.9789             | 0.9601    | 0.9980                   |       |  |         |
| <b>ukb-d-L12_NONION</b>     | Skin changes due to chronic  | acute RITs | European                           | Disease | 34MR                  | 14.126   | 6.4288 | 0.0354 | 1.5259   | 26.726    | 136444             | 4.5991    | 405000                   |       |  |         |

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|---------------------------|--|------------|------------|----------------|-----------------------|---------|--------|--------|---------|---------|--------|--------|--------|-------------|
| <b>RADISKIN</b>           | exposure to nonionizing radiation  |            |            |                | Egger                 | 3       |        |        |         |         | 7      | 1.6840 |        | 000000.0000 |
| <b>ebi-a-GCST003156</b>   | Systemic lupus erythematosus   | acute RITs | European   | Disease        | 86IVW (fixed effects) | -0.0091 | 0.0046 | 0.0485 | -0.0181 | -0.0001 | 0.9910 | 0.9821 | 0.9999 |             |
| <b>ebi-a-GCST90011866</b> | Systemic lupus erythematosus   | acute RITs | East Asian | Disease        | 78IVW                 | -0.0155 | 0.0055 | 0.0044 | -0.0262 | -0.0093 | 0.9846 | 0.9741 | 0.9952 |             |
| <b>ieu-a-815</b>          | Systemic lupus erythematosus   | acute RITs | European   | Disease        | 10IVW                 | -0.0223 | 0.0112 | 0.0471 | -0.0443 | 0.0753  | 0.9779 | 0.9566 | 0.9997 |             |
| <b>bbj-a-153</b>          | Type 2 diabetes  | acute RITs | East Asian | Disease        | 203IVW                | -0.0285 | 0.0104 | 0.0061 | -0.0490 | 0.0049  | 0.9719 | 0.9522 | 0.9919 |             |
| <b>ebi-a-GCST90018706</b> | Type 2 diabetes  | acute RITs | East Asian | Disease        | 174IVW                | -0.0246 | 0.0098 | 0.0119 | -0.0437 | 0.1315  | 0.9757 | 0.9572 | 0.9946 |             |
| <b>ebi-a-GCST003045</b>   | Ulcerative colitis   | acute RITs | European   | Disease        | 143IVW                | -0.0198 | 0.0083 | 0.0172 | -0.0360 | -0.0044 | 0.9804 | 0.9646 | 0.9965 |             |
| <b>ieu-a-968</b>          | Ulcerative colitis   | acute RITs | European   | Disease        | 118IVW                | -0.0180 | 0.0087 | 0.0399 | -0.0351 | 0.0138  | 0.9822 | 0.9655 | 0.9992 |             |
| <b>ieu-a-970</b>          | Ulcerative colitis   | acute RITs | European   | Disease        | 145IVW                | -0.0221 | 0.0082 | 0.0067 | -0.0381 | -0.0045 | 0.9781 | 0.9626 | 0.9939 |             |
| <b>ieu-b-5063</b>         | URTI   | acute RITs | European   | Disease        | 15IVW (fixed effects) | -0.0369 | 0.0182 | 0.0423 | -0.0725 | -0.0013 | 0.9638 | 0.9300 | 0.9987 |             |
| <b>ebi-a-GCST90018718</b> | Uveitis  | acute RITs | East Asian | Disease        | 5IVW (fixed effects)  | 0.0021  | 0.0009 | 0.0168 | 0.0004  | 0.0039  | 1.0021 | 1.0004 | 1.0039 |             |
| <b>ebi-a-GCST90011301</b> | C_Actinobacteria abundance   | acute RITs | European   | Gut microbiota | 17IVW                 | -0.0604 | 0.0266 | 0.0230 | -0.1124 | 0.0657  | 0.9414 | 0.8937 | 0.9917 |             |
| <b>ebi-a-GCST90011305</b> | C_Clostridia abundance   | acute RITs | European   | Gut microbiota | 22Weighted median     | -0.0757 | 0.0367 | 0.0389 | -0.1476 | -0.0039 | 0.9271 | 0.8628 | 0.9962 |             |
| <b>ebi-a-GCST90011316</b> | F_Rikenellaceae abundance  | acute RITs | European   | Gut microbiota | 14IVW                 | 0.0840  | 0.0323 | 0.0092 | 0.0208  | 0.3167  | 1.0877 | 1.0210 | 1.1587 |             |
| <b>ebi-a-GCST90011330</b> | G_Faecalibacterium abundance   | acute RITs | European   | Gut microbiota | 12IVW                 | 0.0540  | 0.0260 | 0.0376 | 0.0031  | 0.1549  | 1.0555 | 1.0031 | 1.1106 |             |
| <b>ebi-a-GCST90011333</b> | G_Lachnospiraceae abundance  | acute RITs | European   | Gut microbiota | 12IVW                 | 0.0724  | 0.0341 | 0.0337 | 0.0056  | 0.3014  | 1.0751 | 1.0056 | 1.1493 |             |
| <b>ebi-a-GCST90027467</b> | Gut bacterial pathway abundance (FUC.RHAMCAT.PWY..super pathway.of.fucose.and.rhamnose.degradation)        | acute RITs | European   | Gut microbiota | 7MR Egger             | -0.3162 | 0.1166 | 0.0421 | -0.5447 | -0.0878 | 0.7289 | 0.5800 | 0.9160 |             |
| <b>ebi-a-GCST90027487</b> | Gut bacterial pathway abundance (KETOGLUCONMET.PWY..ketogluconate.metabolism)                              | acute RITs | European   | Gut microbiota | 11IVW                 | -0.0508 | 0.0205 | 0.0132 | -0.0910 | 0.1315  | 0.9505 | 0.9130 | 0.9894 |             |
| <b>ebi-a-GCST90027501</b> | Gut bacterial pathway abundance (P42.PWY..incomplete.reductive.TCA.cycle)                                  | acute RITs | European   | Gut microbiota | 14MR Egger            | 0.3388  | 0.1451 | 0.0377 | 0.0545  | 0.6232  | 1.4033 | 1.0560 | 1.8649 |             |
| <b>ebi-a-GCST90027548</b> | Gut bacterial pathway abundance (PWY.5345..superpathway.of.L.methionine.biosynthesis..by.sulfhydrylation.) | acute RITs | European   | Gut microbiota | 10IVW                 | -0.0753 | 0.0350 | 0.0316 | -0.1440 | 0.1315  | 0.9274 | 0.8659 | 0.9934 |             |
| <b>ebi-a-GCST90027577</b> | Gut bacterial pathway abundance (PWY.6285..superpathway.of.fatty.acids.biosynthesis..E.coli.)              | acute RITs | European   | Gut microbiota | 12IVW (fixed effects) | -0.0370 | 0.0171 | 0.0302 | -0.0704 | -0.0035 | 0.9637 | 0.9320 | 0.9965 |             |
| <b>ebi-a-GCST90027623</b> | Gut bacterial pathway abundance (PWY.7371..1.4.dihydroxy.6.naphthoate.biosynthesis.II)                     | acute RITs | European   | Gut microbiota | 9MR Egger             | 0.3686  | 0.1533 | 0.0471 | 0.0683  | 0.6690  | 1.4458 | 1.0706 | 1.9524 |             |
| <b>ebi-a-GCST90027627</b> | Gut bacterial pathway abundance (PWY.7456..mannan.degradation)   | acute RITs | European   | Gut microbiota | 5IVW                  | -0.0999 | 0.0501 | 0.0464 | -0.1981 | 0.1315  | 0.9050 | 0.8203 | 0.9984 |             |
| <b>ebi-a-GCST90027635</b> | Gut bacterial pathway  | acute RITs | European   | Gut microbiota | 11IVW                 | -0.0500 | 0.0252 | 0.0476 | -0.0995 | -0.0005 | 0.9512 | 0.9053 | 0.9995 |             |

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|                           | abundance (PWY_REDCITCYC..TCA.cycle.VIII..helicobacter.)   |            |          |                | (fixed effects)   |         |        |        |         |         |        |        |        |  |
| <b>ebi-a-GCST90027520</b> | Gut bacterial pathway abundance (PWY0.1338..polymyxin.resistance)  | acute RITs | European | Gut microbiota | 10Weighted median | 0.0609  | 0.0275 | 0.0265 | 0.0071  | 0.1148  | 1.0628 | 1.0071 | 1.1216 |  |
| <b>ebi-a-GCST90027524</b> | Gut bacterial pathway abundance (PWY0.1586..peptidoglycan.maturatation..meso.diaminopimelate.containing.)                              | acute RITs | European | Gut microbiota | 9IVW              | -0.0883 | 0.0396 | 0.0257 | -0.1659 | 0.1315  | 0.9155 | 0.8471 | 0.9893 |  |
| <b>ebi-a-GCST90027640</b> | Gut bacterial pathway abundance (RHAMCAT.PWY..L.rhamnose.degradation.I)  | acute RITs | European | Gut microbiota | 12IVW             | 0.0805  | 0.0394 | 0.0412 | 0.0032  | 0.1315  | 1.0838 | 1.0032 | 1.1708 |  |
| <b>ebi-a-GCST90016910</b> | Gut microbiota abundance (class Bacilli id.1673)   | acute RITs | European | Gut microbiota | 18IVW             | 0.0987  | 0.0466 | 0.0340 | 0.0075  | 0.1315  | 1.1038 | 1.0075 | 1.2093 |  |
| <b>ebi-a-GCST90016927</b> | Gut microbiota abundance (family Bacteroidaceae id.917)  | acute RITs | European | Gut microbiota | 9IVW              | -0.1155 | 0.0575 | 0.0446 | -0.2281 | 0.1315  | 0.8910 | 0.7960 | 0.9972 |  |
| <b>ebi-a-GCST90016928</b> | Gut microbiota abundance (family Bacteroidales S247group id.11173)   | acute RITs | European | Gut microbiota | 9IVW              | -0.0765 | 0.0387 | 0.0481 | -0.1524 | 0.1315  | 0.9263 | 0.8586 | 0.9994 |  |
| <b>ebi-a-GCST90016952</b> | Gut microbiota abundance (family Streptococcaceae id.1850)   | acute RITs | European | Gut microbiota | 14IVW             | 0.1190  | 0.0442 | 0.0071 | 0.0323  | 0.1315  | 1.1264 | 1.0329 | 1.2284 |  |
| <b>ebi-a-GCST90016968</b> | Gut microbiota abundance (genus Bacteroides id.918)  | acute RITs | European | Gut microbiota | 9IVW              | -0.1155 | 0.0575 | 0.0446 | -0.2281 | 0.1315  | 0.8910 | 0.7960 | 0.9972 |  |
| <b>ebi-a-GCST90017008</b> | Gut microbiota abundance (genus Family XIII AD3011 group id.11293)   | acute RITs | European | Gut microbiota | 13Weighted median | 0.1214  | 0.0612 | 0.0472 | 0.0015  | 0.2412  | 1.1290 | 1.0015 | 1.2728 |  |
| <b>ebi-a-GCST90017009</b> | Gut microbiota abundance (genus Family XIII UCG001 id.11294)   | acute RITs | European | Gut microbiota | 8IVW              | -0.1112 | 0.0502 | 0.0266 | -0.2096 | 0.1315  | 0.8947 | 0.8109 | 0.9872 |  |
| <b>ebi-a-GCST90017028</b> | Gut microbiota abundance (genus Lachnospiraceae UCG010 id.11330)   | acute RITs | European | Gut microbiota | 10Weighted median | -0.1319 | 0.0591 | 0.0255 | -0.2476 | -0.0162 | 0.8764 | 0.7806 | 0.9840 |  |
| <b>ebi-a-GCST90017040</b> | Gut microbiota abundance (genus Paraprevotella id.962)   | acute RITs | European | Gut microbiota | 13IVW             | -0.0802 | 0.0337 | 0.0174 | -0.1463 | 0.1315  | 0.9229 | 0.8639 | 0.9860 |  |
| <b>ebi-a-GCST90017046</b> | Gut microbiota abundance (genus Rikenellaceae RC9 gut group id.11191)  | acute RITs | European | Gut microbiota | 11IVW             | -0.0478 | 0.0239 | 0.0453 | -0.0946 | 0.1315  | 0.9533 | 0.9098 | 0.9990 |  |
| <b>ebi-a-GCST90027748</b> | Gut microbiota abundance (k_Bacteria.p_Actinobacteria)   | acute RITs | European | Gut microbiota | 10IVW             | -0.0761 | 0.0351 | 0.0301 | -0.1448 | 0.1315  | 0.9267 | 0.8652 | 0.9927 |  |
| <b>ebi-a-GCST90027651</b> | Gut microbiota abundance (k_Bacteria.p_Actinobacteria.c_Actinobacteria)  | acute RITs | European | Gut microbiota | 10IVW             | -0.0761 | 0.0351 | 0.0301 | -0.1448 | 0.1315  | 0.9267 | 0.8652 | 0.9927 |  |
| <b>ebi-a-GCST90027824</b> | Gut microbiota abundance (k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g_Bacteroides.s_Bacteroides_dorei) | acute RITs | European | Gut microbiota | 15IVW             | -0.1066 | 0.0309 | 0.0006 | -0.1671 | 0.1315  | 0.8989 | 0.8461 | 0.9550 |  |
| <b>ebi-a-GCST90027765</b> | Gut microbiota abundance (k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Porphyrimonadaceae.g_Odorib                       | acute RITs | European | Gut microbiota | 14IVW             | -0.0723 | 0.0277 | 0.0090 | -0.1266 | 0.1315  | 0.9302 | 0.8811 | 0.9821 |  |

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|                           | acter.s_Odoribacter_splanchnicus)   |            |          |                |                      |         |        |        |         |         |        |        |        |
| <b>ebi-a-GCST90027803</b> | Gut microbiota abundance (k_Bacteria.p_Firmicutes.c_Erysipelotrichia.o_Erysipelotrichales.f_Erysipelotrichaceae.g_Erysipelotrichaceae_noname.s_Eubacterium_biforme) | acute RITs | European | Gut microbiota | 8IVW                 | -0.0547 | 0.0229 | 0.0167 | -0.0996 | 0.1315  | 0.9467 | 0.9052 | 0.9901 |
| <b>ebi-a-GCST90027805</b> | Gut microbiota abundance (k_Bacteria.p_Firmicutes.c_Erysipelotrichia.o_Erysipelotrichales.f_Erysipelotrichaceae.g_Holdemania.s_Holdemania_unclassified)             | acute RITs | European | Gut microbiota | 9IVW (fixed effects) | 0.0484  | 0.0237 | 0.0412 | 0.0019  | 0.0949  | 1.0496 | 1.0019 | 1.0995 |
| <b>ebi-a-GCST90017101</b> | Gut microbiota abundance (order Lactobacillales id.1800)  | acute RITs | European | Gut microbiota | 15IVW                | 0.1347  | 0.0439 | 0.0022 | 0.0486  | 0.1315  | 1.1442 | 1.0498 | 1.2470 |
| <b>ebi-a-GCST90017112</b> | Gut microbiota abundance (phylum Cyanobacteria id.1500)   | acute RITs | European | Gut microbiota | 8IVW                 | 0.1106  | 0.0455 | 0.0149 | 0.0215  | 0.1315  | 1.1170 | 1.0218 | 1.2211 |
| <b>ebi-a-GCST90017079</b> | Gut microbiota abundance (unknown genus id.1000005479)  | acute RITs | European | Gut microbiota | 9IVW                 | -0.0765 | 0.0387 | 0.0481 | -0.1524 | 0.1315  | 0.9263 | 0.8586 | 0.9994 |
| <b>ebi-a-GCST90017082</b> | Gut microbiota abundance (unknown genus id.2001)  | acute RITs | European | Gut microbiota | 10IVW                | 0.1053  | 0.0418 | 0.0117 | 0.0234  | 0.1315  | 1.1111 | 1.0237 | 1.2059 |
| <b>ebi-a-GCST90032456</b> | Lactobacillus B abundance in stool  | acute RITs | European | Gut microbiota | 16MR Egger           | 0.1822  | 0.0814 | 0.0419 | 0.0227  | 0.3416  | 1.1998 | 1.0230 | 1.4073 |
| <b>ebi-a-GCST90032488</b> | Negativibacillus massiliensis abundance in stool  | acute RITs | European | Gut microbiota | 15IVW                | -0.1690 | 0.0638 | 0.0081 | -0.2941 | 0.1315  | 0.8445 | 0.7452 | 0.9571 |
| <b>ebi-a-GCST90011556</b> | OTU97_100 (Ruminococcaceae) prevalence  | acute RITs | European | Gut microbiota | 8IVW                 | -0.0417 | 0.0166 | 0.0120 | -0.0743 | 0.2470  | 0.9591 | 0.9284 | 0.9909 |
| <b>ebi-a-GCST90011359</b> | OTU97_106 (Ruminococcaceae) abundance   | acute RITs | European | Gut microbiota | 8IVW                 | -0.0471 | 0.0237 | 0.0467 | -0.0936 | 0.3014  | 0.9540 | 0.9107 | 0.9993 |
| <b>ebi-a-GCST90011570</b> | OTU97_130 (Butyrivibrio) prevalence   | acute RITs | European | Gut microbiota | 7IVW                 | 0.0315  | 0.0124 | 0.0110 | 0.0072  | 0.2470  | 1.0320 | 1.0073 | 1.0574 |
| <b>ebi-a-GCST90011572</b> | OTU97_138 (Oscillibacter) prevalence  | acute RITs | European | Gut microbiota | 12IVW                | -0.0364 | 0.0147 | 0.0133 | -0.0652 | 0.2470  | 0.9643 | 0.9369 | 0.9925 |
| <b>ebi-a-GCST90011372</b> | OTU97_140 (Bacteroides) abundance   | acute RITs | European | Gut microbiota | 15IVW                | -0.0216 | 0.0108 | 0.0461 | -0.0427 | -0.0048 | 0.9787 | 0.9582 | 0.9996 |
| <b>ebi-a-GCST90011385</b> | OTU97_24 (Prevotella) abundance   | acute RITs | European | Gut microbiota | 10IVW                | 0.0299  | 0.0133 | 0.0251 | 0.0037  | 0.2577  | 1.0303 | 1.0037 | 1.0576 |
| <b>ebi-a-GCST90011604</b> | OTU97_53 (Bacteroides) prevalence   | acute RITs | European | Gut microbiota | 15IVW                | 0.0307  | 0.0140 | 0.0287 | 0.0032  | 0.2470  | 1.0312 | 1.0032 | 1.0599 |
| <b>ebi-a-GCST90011605</b> | OTU97_56 (Ruminococcaceae) prevalence   | acute RITs | European | Gut microbiota | 10IVW                | -0.0371 | 0.0163 | 0.0232 | -0.0691 | 0.2470  | 0.9636 | 0.9332 | 0.9949 |
| <b>ebi-a-GCST90011636</b> | OTU99_155 (Butyrivibrio) prevalence   | acute RITs | European | Gut microbiota | 8IVW                 | 0.0307  | 0.0117 | 0.0088 | 0.0077  | 0.2470  | 1.0312 | 1.0078 | 1.0551 |
| <b>ebi-a-GCST90011440</b> | OTU99_171 (Bacteroides) abundance   | acute RITs | European | Gut microbiota | 15MR Egger           | -0.0627 | 0.0257 | 0.0299 | -0.1132 | -0.0123 | 0.9392 | 0.8930 | 0.9878 |
| <b>ebi-a-GCST90011655</b> | OTU99_34 (Holdemania) prevalence  | acute RITs | European | Gut microbiota | 14IVW                | 0.0282  | 0.0129 | 0.0290 | 0.0029  | 0.2470  | 1.0286 | 1.0029 | 1.0549 |
| <b>ebi-a-GCST90011465</b> | OTU99_558 (Bacteroidales) abundance   | acute RITs | European | Gut microbiota | 19IVW                | -0.0104 | 0.0052 | 0.0451 | -0.0205 | 0.0325  | 0.9897 | 0.9797 | 0.9998 |
| <b>ebi-a-GCST90011675</b> | OTU99_8 (Ruminococcaceae) prevalence  | acute RITs | European | Gut microbiota | 9IVW                 | -0.0425 | 0.0180 | 0.0181 | -0.0778 | 0.2470  | 0.9584 | 0.9251 | 0.9928 |
| <b>ebi-a-GCST90011481</b> | P_Actinobacteria abundance  | acute RITs | European | Gut microbiota | 17IVW                | -0.0604 | 0.0266 | 0.0230 | -0.1124 | 0.0524  | 0.9414 | 0.8937 | 0.9917 |

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|---------------------------|--|------------|----------------------------|-------------------------------|-----------------------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>ebi-a-GCST90011482</b> | P Bacteroidetes abundance  | acute RITs | European                   | Gut microbiota                | 10IVW                 | 0.0869  | 0.0369 | 0.0186 | 0.0145  | 0.2470  | 1.0908 | 1.0146 | 1.1727 |
| <b>ebi-a-GCST90032500</b> | Parabacteroides sp000436495 abundance in stool   | acute RITs | European                   | Gut microbiota                | 12IVW (fixed effects) | 0.0586  | 0.0268 | 0.0288 | 0.0061  | 0.1110  | 1.0603 | 1.0061 | 1.1174 |
| <b>ebi-a-GCST90032502</b> | Parachlamydiales abundance in stool  | acute RITs | European                   | Gut microbiota                | 10IVW                 | 0.3480  | 0.1506 | 0.0209 | 0.0527  | 0.1315  | 1.4162 | 1.0541 | 1.9026 |
| <b>ebi-a-GCST90032540</b> | Roseibacillus abundance in stool   | acute RITs | European                   | Gut microbiota                | 5IVW (fixed effects)  | 0.2951  | 0.1458 | 0.0429 | 0.0094  | 0.5808  | 1.3433 | 1.0095 | 1.7875 |
| <b>ebi-a-GCST90032569</b> | Succiniclasticum abundance in stool  | acute RITs | European                   | Gut microbiota                | 30IVW                 | -0.1233 | 0.0504 | 0.0145 | -0.2221 | 0.1315  | 0.8840 | 0.8008 | 0.9759 |
| <b>ebi-a-GCST90032578</b> | Terrisporobacter abundance in stool  | acute RITs | European                   | Gut microbiota                | 15IVW (fixed effects) | 0.0769  | 0.0475 | 0.1054 | -0.0162 | 0.1699  | 1.0799 | 0.9840 | 1.1852 |
| <b>ebi-a-GCST90011687</b> | TestASV_14 (Lachnospiraceae) prevalence  | acute RITs | European                   | Gut microbiota                | 7IVW (fixed effects)  | -0.0405 | 0.0202 | 0.0456 | -0.0802 | -0.0008 | 0.9603 | 0.9230 | 0.9992 |
| <b>ebi-a-GCST90032590</b> | UBA1033 sp001695555 abundance in stool   | acute RITs | European                   | Gut microbiota                | 12IVW (fixed effects) | 0.2164  | 0.0980 | 0.0272 | 0.0244  | 0.4084  | 1.2416 | 1.0247 | 1.5045 |
| <b>ebi-a-GCST90032601</b> | UBA1409 abundance in stool   | acute RITs | European                   | Gut microbiota                | 12IVW                 | 0.1042  | 0.0517 | 0.0440 | 0.0028  | 0.1315  | 1.1098 | 1.0028 | 1.2282 |
| <b>ebi-a-GCST90032608</b> | UBA1777 sp900316255 abundance in stool   | acute RITs | European                   | Gut microbiota                | 14IVW (fixed effects) | 0.1844  | 0.0915 | 0.0438 | 0.0051  | 0.3637  | 1.2025 | 1.0051 | 1.4386 |
| <b>ebi-a-GCST90032616</b> | UBA3855 sp900316885 abundance in stool   | acute RITs | European                   | Gut microbiota                | 15IVW                 | -0.2145 | 0.0839 | 0.0106 | -0.3789 | 0.1315  | 0.8069 | 0.6846 | 0.9511 |
| <b>ebi-a-GCST90032618</b> | UBA6382 abundance in stool   | acute RITs | European                   | Gut microbiota                | 13IVW                 | 0.1427  | 0.0648 | 0.0275 | 0.0158  | 0.1315  | 1.1534 | 1.0160 | 1.3095 |
| <b>ebi-a-GCST90032628</b> | UBA737 sp002451855 abundance in stool  | acute RITs | European                   | Gut microbiota                | 17IVW                 | 0.1357  | 0.0671 | 0.0431 | 0.0042  | 0.1315  | 1.1454 | 1.0042 | 1.3064 |
| <b>ebi-a-GCST90092504</b> | Carotid Intima-media thickness (mean of the maximum cIMT)                                  | acute RITs | Sub-Saharan African        | Health and hematologic traits | 22MR Egger            | 1.1514  | 0.5340 | 0.0434 | 0.1048  | 2.1980  | 3.1626 | 1.1105 | 9.0067 |
| <b>ebi-a-GCST008029</b>   | Diastolic blood pressure   | acute RITs | Hispanic or Latin American | Health and hematologic traits | 53IVW                 | 0.0064  | 0.0028 | 0.0198 | 0.0010  | 0.0301  | 1.0064 | 1.0010 | 1.0119 |
| <b>ieu-b-106</b>          | FEV1/FVC < 0.7   | acute RITs | European                   | Health and hematologic traits | 245IVW                | 0.2098  | 0.1028 | 0.0413 | 0.0083  | 0.7268  | 1.2335 | 1.0084 | 1.5088 |
| <b>ieu-b-4853</b>         | Forced expiratory volume in 1-second   | acute RITs | European                   | Health and hematologic traits | 8MR Egger             | -0.6589 | 0.2684 | 0.0495 | -1.1849 | -0.1328 | 0.5174 | 0.3058 | 0.8756 |
| <b>ebi-a-GCST90020194</b> | Inferior Posterior lobe of cerebellar volume (including Crus II to IX hemispheric lobules) | acute RITs | European                   | Health and hematologic traits | 73IVW                 | -0.1103 | 0.0435 | 0.0112 | -0.1955 | 0.1315  | 0.8955 | 0.8224 | 0.9752 |
| <b>ukb-b-19277</b>        | Intra-ocular pressure, corneal-compensated (right)   | acute RITs | European                   | Health and hematologic traits | 143IVW                | -0.0602 | 0.0301 | 0.0454 | -0.1192 | -0.0012 | 0.9416 | 0.8876 | 0.9988 |
| <b>bbj-a-37</b>           | Mean arterial pressure   | acute RITs | East Asian                 | Health and hematologic traits | 83IVW                 | 0.0915  | 0.0454 | 0.0438 | 0.0025  | 0.3606  | 1.0959 | 1.0025 | 1.1978 |
| <b>ebi-a-GCST90018743</b> | Mean arterial pressure   | acute RITs | East Asian                 | Health and hematologic traits | 99IVW                 | 0.1049  | 0.0481 | 0.0293 | 0.0106  | 0.1315  | 1.1106 | 1.0106 | 1.2204 |
| <b>ukb-e-MAP_p2_AFR</b>   | Mean arterial pressure,  | acute RITs | African                    | Health and                    | 24Weighte             | -0.0531 | 0.0261 | 0.0419 | -0.1043 | -0.0019 | 0.9483 | 0.9009 | 0.9981 |

|                           |   |            |                                    |                               |     |                 |         |        |        |         |         |        |        |        |
|---------------------------|---|------------|------------------------------------|-------------------------------|-----|-----------------|---------|--------|--------|---------|---------|--------|--------|--------|
|                           | automated reading, adjusted by medication   |            | American or Afro-Caribbean         | hematologic traits            |     | d median        |         |        |        |         |         |        |        |        |
| <b>ukb-e-MAP_p4_AFR</b>   | Mean arterial pressure, combined automated + manual reading, adjusted by medication | acute RITs | African American or Afro-Caribbean | Health and hematologic traits | 25  | Weighted median | -0.0546 | 0.0243 | 0.0248 | -0.1022 | -0.0069 | 0.9469 | 0.9028 | 0.9931 |
| <b>ukb-d-30050_irnt</b>   | Mean corpuscular haemoglobin  | acute RITs | European                           | Health and hematologic traits | 457 | MR Egger        | 0.0722  | 0.0288 | 0.0126 | 0.0157  | 0.1288  | 1.0749 | 1.0158 | 1.1374 |
| <b>ebi-a-GCST004630</b>   | Mean corpuscular hemoglobin   | acute RITs | European                           | Health and hematologic traits | 296 | IVW             | 0.0441  | 0.0149 | 0.0030 | 0.0150  | 0.0995  | 1.0451 | 1.0151 | 1.0759 |
| <b>ebi-a-GCST90002390</b> | Mean corpuscular hemoglobin   | acute RITs | European                           | Health and hematologic traits | 547 | IVW             | 0.0326  | 0.0154 | 0.0341 | 0.0024  | 0.1247  | 1.0332 | 1.0025 | 1.0648 |
| <b>ebi-a-GCST90002391</b> | Mean corpuscular hemoglobin concentration   | acute RITs | European                           | Health and hematologic traits | 326 | Weighted median | 0.1090  | 0.0434 | 0.0121 | 0.0239  | 0.1940  | 1.1151 | 1.0242 | 1.2142 |
| <b>ebi-a-GCST90002391</b> | Mean corpuscular hemoglobin concentration   | acute RITs | European                           | Health and hematologic traits | 326 | Weighted mode   | 0.0859  | 0.0418 | 0.0407 | 0.0040  | 0.1678  | 1.0897 | 1.0040 | 1.1827 |
| <b>ebi-a-GCST90025962</b> | Mean corpuscular hemoglobin concentration   | acute RITs | European                           | Health and hematologic traits | 498 | IVW             | 0.0429  | 0.0165 | 0.0092 | 0.0106  | 0.1315  | 1.0439 | 1.0107 | 1.0781 |
| <b>ebi-a-GCST004602</b>   | Mean corpuscular volume   | acute RITs | European                           | Health and hematologic traits | 314 | IVW             | 0.0366  | 0.0145 | 0.0117 | 0.0081  | 0.0873  | 1.0373 | 1.0082 | 1.0673 |
| <b>ebi-a-GCST90002392</b> | Mean corpuscular volume   | acute RITs | European                           | Health and hematologic traits | 612 | IVW             | 0.0318  | 0.0150 | 0.0336 | 0.0025  | 0.0808  | 1.0323 | 1.0025 | 1.0630 |
| <b>ebi-a-GCST90025963</b> | Mean corpuscular volume   | acute RITs | European                           | Health and hematologic traits | 530 | Weighted median | 0.0656  | 0.0296 | 0.0267 | 0.0076  | 0.1236  | 1.0678 | 1.0076 | 1.1315 |
| <b>ukb-d-30040_irnt</b>   | Mean corpuscular volume   | acute RITs | European                           | Health and hematologic traits | 477 | IVW             | 0.0445  | 0.0157 | 0.0047 | 0.0137  | 0.1025  | 1.0455 | 1.0138 | 1.0782 |
| <b>ebi-a-GCST90013979</b> | Mean corpuscular volume (UKB data field 30040)                                      | acute RITs | European                           | Health and hematologic traits | 491 | MR Egger        | 0.0662  | 0.0299 | 0.0274 | 0.0076  | 0.1248  | 1.0684 | 1.0076 | 1.1329 |
| <b>ukb-a-251</b>          | Overall health rating   | acute RITs | European                           | Health and hematologic traits | 262 | IVW             | 0.1497  | 0.0621 | 0.0159 | 0.0280  | 0.2715  | 1.1615 | 1.0284 | 1.3119 |
| <b>ieu-a-274</b>          | Packed cell volume  | acute RITs | Mixed                              | Health and hematologic traits | 46  | IVW             | -0.0265 | 0.0126 | 0.0358 | -0.0513 | 0.0482  | 0.9738 | 0.9500 | 0.9982 |
| <b>ebi-a-GCST90000065</b> | Pulse pressure  | acute RITs | European                           | Health and hematologic traits | 286 | IVW             | 0.0887  | 0.0450 | 0.0486 | 0.0006  | 0.0635  | 1.0928 | 1.0006 | 1.1935 |
| <b>ukb-e-PP_p1_CSA</b>    | Pulse pressure, automated reading   | acute RITs | South Asian                        | Health and hematologic traits | 17  | IVW             | -0.0769 | 0.0343 | 0.0247 | -0.1441 | 0.1331  | 0.9260 | 0.8658 | 0.9903 |
| <b>ukb-e-R19_CSA</b>      | R19 Other symptoms and signs involving the digestive system and abdomen             | acute RITs | South Asian                        | Health and hematologic traits | 12  | Weighted median | 0.0249  | 0.0105 | 0.0171 | 0.0044  | 0.0454  | 1.0252 | 1.0044 | 1.0465 |
| <b>ebi-a-GCST90020192</b> | Superior Posterior lobe of cerebellar volume (including VI to Crus I hemispheric    | acute RITs | European                           | Health and hematologic traits | 85  | MR Egger        | 0.4087  | 0.1960 | 0.0401 | 0.0245  | 0.7929  | 1.5049 | 1.0248 | 2.2098 |

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|                           | lobules)  |            |                                    |                               |                       |         |        |        |         |         |        |        |        |
| <b>ebi-a-GCST90020190</b> | Total cerebellar volume (excluding Crus I vermis)                                       | acute RITs | European                           | Health and hematologic traits | 60IVW                 | -0.1038 | 0.0521 | 0.0462 | -0.2058 | 0.1315  | 0.9014 | 0.8140 | 0.9982 |
| <b>ebi-a-GCST90002228</b> | Two-hour glucose  | acute RITs | Hispanic or Latin American         | Health and hematologic traits | 16IVW                 | 0.0568  | 0.0232 | 0.0143 | 0.0114  | 0.2007  | 1.0585 | 1.0114 | 1.1077 |
| <b>ukb-d-5610_3</b>       | Which eye(s) affected by presbyopia: Both eyes  | acute RITs | European                           | Health and hematologic traits | 17IVW                 | 0.3845  | 0.1961 | 0.0499 | 0.0002  | 1.3641  | 1.4689 | 1.0002 | 2.1572 |
| <b>ukb-e-Z09_CSA</b>      | Z09 Follow-up examination after treatment for conditions other than malignant neoplasms | acute RITs | South Asian                        | Health and hematologic traits | 10IVW                 | 0.0156  | 0.0046 | 0.0007 | 0.0066  | 0.0346  | 1.0158 | 1.0066 | 1.0250 |
| <b>ukb-e-Z12_CSA</b>      | Z12 Special screening examination for neoplasms   | acute RITs | South Asian                        | Health and hematologic traits | 12IVW (fixed effects) | -0.0090 | 0.0044 | 0.0423 | -0.0176 | -0.0003 | 0.9911 | 0.9825 | 0.9997 |
| <b>ieu-b-117</b>          | HOMA-B  | acute RITs | European                           | Health and hematologic traits | 15IVW (fixed effects) | -0.2387 | 0.1138 | 0.0360 | -0.4618 | -0.0155 | 0.7877 | 0.6302 | 0.9846 |
| <b>ieu-a-1046</b>         | Pallidum volume   | acute RITs | European                           | Health and hematologic traits | 12MR Egger            | 0.0023  | 0.0010 | 0.0473 | 0.0003  | 0.0044  | 1.0023 | 1.0003 | 1.0044 |
| <b>ukb-e-2010_AFR</b>     | Suffer from 'nerves'  | acute RITs | African American or Afro-Caribbean | Health and hematologic traits | 16IVW                 | 0.0222  | 0.0094 | 0.0183 | 0.0037  | 0.0940  | 1.0224 | 1.0038 | 1.0414 |
| <b>ebi-a-GCST90025968</b> | Systolic blood pressure   | acute RITs | European                           | Health and hematologic traits | 498IVW                | 0.0763  | 0.0273 | 0.0052 | 0.0228  | 0.1315  | 1.0793 | 1.0230 | 1.1387 |
| <b>ieu-b-38</b>           | systolic blood pressure   | acute RITs | European                           | Health and hematologic traits | 642Weighted median    | 0.0051  | 0.0024 | 0.0379 | 0.0003  | 0.0098  | 1.0051 | 1.0003 | 1.0099 |
| <b>ebi-a-GCST90014018</b> | Systolic blood pressure automated reading (UKB data field 4080)                         | acute RITs | European                           | Health and hematologic traits | 400IVW                | 0.0679  | 0.0342 | 0.0473 | 0.0008  | 0.1315  | 1.0702 | 1.0008 | 1.1445 |
| <b>ukb-e-SBP_p1_AFR</b>   | Systolic blood pressure, automated reading, adjusted by medication                      | acute RITs | African American or Afro-Caribbean | Health and hematologic traits | 29IVW                 | -0.0373 | 0.0174 | 0.0315 | -0.0714 | 0.0126  | 0.9634 | 0.9311 | 0.9967 |
| <b>ukb-e-SBP_p2_AFR</b>   | Systolic blood pressure, combined automated + manual reading                            | acute RITs | African American or Afro-Caribbean | Health and hematologic traits | 19IVW                 | -0.0450 | 0.0217 | 0.0383 | -0.0877 | 0.0754  | 0.9560 | 0.9161 | 0.9976 |
| <b>ukb-e-SBP_p3_AFR</b>   | Systolic blood pressure, combined automated + manual reading, adjusted by medication    | acute RITs | African American or Afro-Caribbean | Health and hematologic traits | 21IVW (fixed effects) | -0.0384 | 0.0196 | 0.0497 | -0.0768 | 0.0000  | 0.9623 | 0.9261 | 1.0000 |
| <b>ukb-d-20541</b>        | Difficulty stopping worrying during worst period of anxiety                             | acute RITs | European                           | Health and hematologic traits | 17MR Egger            | -1.7954 | 0.7582 | 0.0317 | -3.2814 | -0.3094 | 0.1661 | 0.0376 | 0.7339 |
| <b>ukb-d-20425</b>        | Ever worried more than most people would in similar situation                           | acute RITs | European                           | Health and hematologic traits | 35IVW                 | 0.4002  | 0.1866 | 0.0320 | 0.0344  | 1.4147  | 1.4921 | 1.0350 | 2.1510 |
| <b>ebi-a-GCST006944</b>   | Experiencing mood swings  | acute RITs | European                           | Health and hematologic traits | 156IVW                | 0.1296  | 0.0585 | 0.0267 | 0.0150  | 0.2398  | 1.1384 | 1.0151 | 1.2767 |
| <b>ukb-a-47</b>           | Irritability  | acute RITs | European                           | Health and hematologic traits | 132IVW                | 0.3030  | 0.1434 | 0.0346 | 0.0219  | 1.9255  | 1.3540 | 1.0222 | 1.7934 |
| <b>ebi-a-GCST90013875</b> | Irritability (UKB data field  | acute RITs | European                           | Health and                    | 148IVW                | 0.0634  | 0.0280 | 0.0237 | 0.0085  | 0.2958  | 1.0654 | 1.0085 | 1.1255 |

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|                           | 1940) (Firth correction)                                     |            |                                    | hematologic traits            |                       |         |        |        |         |        |        |        |        |
| <b>ebi-a-GCST90013925</b> | Irritability (UKB data field 1940) (SPA correction)          | acute RITs | European                           | Health and hematologic traits | 148IVW                | 0.0634  | 0.0280 | 0.0235 | 0.0085  | 0.2973 | 1.0655 | 1.0086 | 1.1256 |
| <b>ebi-a-GCST90013873</b> | Mood swings (UKB data field 1920) (Firth correction)         | acute RITs | European                           | Health and hematologic traits | 162IVW                | 0.0587  | 0.0297 | 0.0484 | 0.0004  | 0.3815 | 1.0604 | 1.0004 | 1.1240 |
| <b>ebi-a-GCST90013923</b> | Mood swings (UKB data field 1920) (SPA correction)           | acute RITs | European                           | Health and hematologic traits | 162IVW                | 0.0587  | 0.0297 | 0.0484 | 0.0004  | 0.3863 | 1.0604 | 1.0004 | 1.1240 |
| <b>ebi-a-GCST90001501</b> | Activated & secreting CD4 regulatory T cell Absolute Count   | acute RITs | European                           | Health and hematologic traits | 15IVW (fixed effects) | 0.0255  | 0.0091 | 0.0049 | 0.0077  | 0.0433 | 1.0258 | 1.0078 | 1.0442 |
| <b>ebi-a-GCST90001694</b> | CD28- CD4-CD8- T cell %T cell                                | acute RITs | European                           | Health and hematologic traits | 20IVW                 | -0.0290 | 0.0129 | 0.0243 | -0.0543 | 0.0635 | 0.9714 | 0.9472 | 0.9962 |
| <b>ebi-a-GCST90001654</b> | CD28- CD4-CD8- T cell Absolute Count                         | acute RITs | European                           | Health and hematologic traits | 21IVW                 | -0.0308 | 0.0130 | 0.0180 | -0.0564 | 0.0635 | 0.9696 | 0.9452 | 0.9947 |
| <b>ebi-a-GCST90001641</b> | CD3- lymphocyte %leukocyte                                   | acute RITs | European                           | Health and hematologic traits | 16IVW                 | -0.0437 | 0.0170 | 0.0102 | -0.0771 | 0.0635 | 0.9572 | 0.9258 | 0.9897 |
| <b>ebi-a-GCST90001491</b> | CD39+ activated CD4 regulatory T cell %CD4 regulatory T cell | acute RITs | European                           | Health and hematologic traits | 20IVW                 | -0.0234 | 0.0071 | 0.0010 | -0.0374 | 0.0635 | 0.9769 | 0.9633 | 0.9906 |
| <b>ebi-a-GCST90001489</b> | CD39+ activated CD4 regulatory T cell Absolute Count         | acute RITs | European                           | Health and hematologic traits | 25IVW                 | -0.0191 | 0.0075 | 0.0113 | -0.0339 | 0.0635 | 0.9811 | 0.9667 | 0.9957 |
| <b>ebi-a-GCST90001495</b> | CD39+ secreting CD4 regulatory T cell Absolute Count         | acute RITs | European                           | Health and hematologic traits | 21IVW                 | -0.0179 | 0.0069 | 0.0098 | -0.0314 | 0.0635 | 0.9823 | 0.9690 | 0.9957 |
| <b>ebi-a-GCST90001548</b> | Central Memory CD8+ T cell Absolute Count                    | acute RITs | European                           | Health and hematologic traits | 21IVW                 | -0.0351 | 0.0176 | 0.0460 | -0.0695 | 0.0635 | 0.9655 | 0.9328 | 0.9994 |
| <b>ebi-a-GCST90001556</b> | Effector Memory CD8+ T cell %T cell                          | acute RITs | European                           | Health and hematologic traits | 12IVW (fixed effects) | 0.0224  | 0.0108 | 0.0376 | 0.0013  | 0.0435 | 1.0227 | 1.0013 | 1.0445 |
| <b>ebi-a-GCST90001554</b> | Effector Memory CD8+ T cell Absolute Count                   | acute RITs | European                           | Health and hematologic traits | 22IVW                 | 0.0287  | 0.0139 | 0.0391 | 0.0014  | 0.0635 | 1.0291 | 1.0014 | 1.0576 |
| <b>ukb-e-30210_CSA</b>    | Eosinophill percentage                                       | acute RITs | South Asian                        | Health and hematologic traits | 26IVW                 | 0.0403  | 0.0203 | 0.0476 | 0.0004  | 0.0659 | 1.0411 | 1.0004 | 1.0835 |
| <b>ukb-e-30300_AFR</b>    | High light scatter reticulocyte count                        | acute RITs | African American or Afro-Caribbean | Health and hematologic traits | 28MR Egger            | 0.1193  | 0.0536 | 0.0348 | 0.0143  | 0.2242 | 1.1267 | 1.0144 | 1.2513 |
| <b>ebi-a-GCST90001441</b> | IgD+ CD24- B cell %lymphocyte                                | acute RITs | European                           | Health and hematologic traits | 17IVW                 | 0.0398  | 0.0188 | 0.0339 | 0.0030  | 0.0635 | 1.0406 | 1.0030 | 1.0796 |
| <b>ebi-a-GCST90001431</b> | IgD+ CD38- B cell %lymphocyte                                | acute RITs | European                           | Health and hematologic traits | 11IVW                 | -0.0607 | 0.0228 | 0.0076 | -0.1053 | 0.0635 | 0.9411 | 0.9000 | 0.9840 |
| <b>ebi-a-GCST90001396</b> | IgD+ CD38- B cell Absolute Count                             | acute RITs | European                           | Health and hematologic traits | 12IVW                 | -0.0493 | 0.0195 | 0.0114 | -0.0874 | 0.0635 | 0.9519 | 0.9163 | 0.9890 |

|                           |   |            |                                    |                               |     |                 |         |        |        |         |         |        |        |        |
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| <b>ebi-a-GCST90018962</b> | Lymphocyte count                                | acute RITs | European                           | Health and hematologic traits | 499 | Weighted mode   | 0.1222  | 0.0609 | 0.0452 | 0.0029  | 0.2415  | 1.1300 | 1.0029 | 1.2731 |
| <b>ukb-d-30120_irnt</b>   | Lymphocyte count                                | acute RITs | European                           | Health and hematologic traits | 484 | Weighted mode   | 0.1198  | 0.0546 | 0.0288 | 0.0127  | 0.2269  | 1.1273 | 1.0128 | 1.2547 |
| <b>ebi-a-GCST004627</b>   | Lymphocyte counts                               | acute RITs | European                           | Health and hematologic traits | 285 | IVW             | 0.0452  | 0.0207 | 0.0293 | 0.0046  | 0.1525  | 1.0463 | 1.0046 | 1.0897 |
| <b>bbj-a-44</b>           | Neutrophil count                                | acute RITs | East Asian                         | Health and hematologic traits | 72  | Weighted median | 0.0916  | 0.0450 | 0.0420 | 0.0033  | 0.1798  | 1.0959 | 1.0033 | 1.1970 |
| <b>ebi-a-GCST90002356</b> | Platelet count                                  | acute RITs | Mixed                              | Health and hematologic traits | 48  | IVW             | 0.0534  | 0.0172 | 0.0019 | 0.0197  | 0.1247  | 1.0549 | 1.0199 | 1.0911 |
| <b>ieu-a-1008</b>         | Platelet count                                  | acute RITs | European                           | Health and hematologic traits | 72  | MR Egger        | 0.0018  | 0.0009 | 0.0492 | 0.0000  | 0.0036  | 1.0018 | 1.0000 | 1.0036 |
| <b>ebi-a-GCST004601</b>   | Red blood cell count                            | acute RITs | European                           | Health and hematologic traits | 313 | IVW             | -0.0497 | 0.0205 | 0.0153 | -0.0898 | -0.0166 | 0.9516 | 0.9141 | 0.9905 |
| <b>ebi-a-GCST90025964</b> | Red blood cell count                            | acute RITs | European                           | Health and hematologic traits | 568 | IVW             | -0.0474 | 0.0203 | 0.0198 | -0.0872 | 0.1315  | 0.9537 | 0.9165 | 0.9925 |
| <b>ebi-a-GCST90001578</b> | Transitional B cell %lymphocyte                 | acute RITs | European                           | Health and hematologic traits | 22  | IVW             | 0.0335  | 0.0171 | 0.0497 | 0.0000  | 0.0635  | 1.0341 | 1.0000 | 1.0693 |
| <b>ebi-a-GCST90001577</b> | Transitional B cell Absolute Count              | acute RITs | European                           | Health and hematologic traits | 22  | IVW             | 0.0423  | 0.0181 | 0.0191 | 0.0069  | 0.0635  | 1.0433 | 1.0070 | 1.0808 |
| <b>ukb-d-30000_irnt</b>   | White blood cell (leukocyte) count              | acute RITs | European                           | Health and hematologic traits | 483 | Weighted median | 0.0800  | 0.0405 | 0.0482 | 0.0006  | 0.1593  | 1.0832 | 1.0006 | 1.1727 |
| <b>ebi-a-GCST90002407</b> | White blood cell count                          | acute RITs | European                           | Health and hematologic traits | 583 | MR Egger        | 0.0858  | 0.0428 | 0.0454 | 0.0020  | 0.1696  | 1.0896 | 1.0020 | 1.1849 |
| <b>ebi-a-GCST90018978</b> | White blood cell count                          | acute RITs | European                           | Health and hematologic traits | 520 | MR Egger        | 0.1058  | 0.0499 | 0.0346 | 0.0079  | 0.2037  | 1.1116 | 1.0080 | 1.2260 |
| <b>ebi-a-GCST90025985</b> | White blood cell count                          | acute RITs | European                           | Health and hematologic traits | 500 | MR Egger        | 0.1065  | 0.0485 | 0.0286 | 0.0114  | 0.2016  | 1.1124 | 1.0115 | 1.2234 |
| <b>ebi-a-GCST90001449</b> | CD11c+ monocyte %monocyte                       | acute RITs | European                           | Health and hematologic traits | 15  | MR Egger        | -0.0719 | 0.0328 | 0.0470 | -0.1362 | -0.0077 | 0.9306 | 0.8727 | 0.9923 |
| <b>ukb-e-4570_AFR</b>     | Friendships satisfaction                        | acute RITs | African American or Afro-Caribbean | Health and hematologic traits | 22  | IVW             | -0.0382 | 0.0154 | 0.0133 | -0.0683 | 0.1014  | 0.9626 | 0.9339 | 0.9921 |
| <b>ebi-a-GCST010779</b>   | COVID-19 (hospitalized vs population) RELEASE 4 | acute RITs | European                           | Infection and immunity        | 42  | IVW             | -0.0276 | 0.0118 | 0.0189 | -0.0507 | 0.0635  | 0.9727 | 0.9505 | 0.9955 |
| <b>ebi-a-GCST011082</b>   | COVID-19 (hospitalized vs population) RELEASE 5 | acute RITs | European                           | Infection and immunity        | 42  | IVW             | -0.0322 | 0.0137 | 0.0191 | -0.0591 | 0.0635  | 0.9683 | 0.9426 | 0.9948 |
| <b>ebi-a-GCST011084</b>   | COVID-19 (hospitalized vs population) RELEASE 5 | acute RITs | European                           | Infection and immunity        | 45  | IVW             | -0.0356 | 0.0152 | 0.0193 | -0.0655 | 0.0635  | 0.9650 | 0.9366 | 0.9942 |
| <b>ebi-a-GCST90006919</b> | Anti-herpes simplex virus 2 IgG seropositivity  | acute RITs | European                           | Infection and immunity        | 18  | IVW             | 0.1767  | 0.0863 | 0.0407 | 0.0075  | 0.0657  | 1.1933 | 1.0075 | 1.4133 |

|                           |  |            |          |                        |                       |         |        |        |         |         |        |        |        |
|---------------------------|--|------------|----------|------------------------|-----------------------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>ebi-a-GCST90006921</b> | Anti-polyomavirus 2 IgG seropositivity                                 | acute RITs | European | Infection and immunity | 18Weighted median     | 0.1497  | 0.0722 | 0.0380 | 0.0083  | 0.2911  | 1.1615 | 1.0083 | 1.3379 |
| <b>prot-a-180</b>         | Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 2 | acute RITs | European | Infection and immunity | 22IVW                 | 0.0357  | 0.0131 | 0.0065 | 0.0100  | 0.0947  | 1.0364 | 1.0100 | 1.0634 |
| <b>prot-a-204</b>         | Aurora kinase A  | acute RITs | European | Infection and immunity | 18IVW                 | 0.0394  | 0.0188 | 0.0363 | 0.0025  | 0.1354  | 1.0402 | 1.0025 | 1.0792 |
| <b>ebi-a-GCST90001829</b> | BAFF-R on B cell   | acute RITs | European | Infection and immunity | 14IVW                 | -0.0220 | 0.0085 | 0.0100 | -0.0387 | 0.0284  | 0.9783 | 0.9620 | 0.9948 |
| <b>ebi-a-GCST90001830</b> | BAFF-R on CD20- B cell   | acute RITs | European | Infection and immunity | 6Weighted mode        | -0.1015 | 0.0352 | 0.0346 | -0.1706 | -0.0324 | 0.9035 | 0.8432 | 0.9681 |
| <b>ebi-a-GCST90001702</b> | BAFF-R on CD24+ CD27+ B cell   | acute RITs | European | Infection and immunity | 13IVW                 | -0.0210 | 0.0088 | 0.0170 | -0.0383 | 0.0635  | 0.9792 | 0.9624 | 0.9963 |
| <b>ebi-a-GCST90001710</b> | BAFF-R on IgD- CD24- B cell  | acute RITs | European | Infection and immunity | 14IVW                 | -0.0233 | 0.0100 | 0.0204 | -0.0430 | 0.0635  | 0.9770 | 0.9579 | 0.9964 |
| <b>ebi-a-GCST90001711</b> | BAFF-R on IgD- CD27- B cell  | acute RITs | European | Infection and immunity | 12IVW                 | -0.0191 | 0.0097 | 0.0483 | -0.0381 | 0.0635  | 0.9811 | 0.9626 | 0.9999 |
| <b>ebi-a-GCST90001712</b> | BAFF-R on IgD- CD38- B cell  | acute RITs | European | Infection and immunity | 13IVW                 | -0.0180 | 0.0087 | 0.0382 | -0.0351 | 0.0635  | 0.9821 | 0.9655 | 0.9990 |
| <b>ebi-a-GCST90001713</b> | BAFF-R on IgD- CD38+ B cell  | acute RITs | European | Infection and immunity | 13IVW                 | -0.0459 | 0.0176 | 0.0092 | -0.0804 | 0.0635  | 0.9551 | 0.9227 | 0.9887 |
| <b>ebi-a-GCST90001719</b> | BAFF-R on IgD+ B cell  | acute RITs | European | Infection and immunity | 17IVW                 | -0.0241 | 0.0084 | 0.0040 | -0.0405 | 0.0635  | 0.9762 | 0.9603 | 0.9924 |
| <b>ebi-a-GCST90001704</b> | BAFF-R on IgD+ CD24- B cell  | acute RITs | European | Infection and immunity | 15IVW                 | -0.0241 | 0.0085 | 0.0045 | -0.0406 | 0.0635  | 0.9762 | 0.9602 | 0.9925 |
| <b>ebi-a-GCST90001703</b> | BAFF-R on IgD+ CD24+ B cell  | acute RITs | European | Infection and immunity | 13IVW                 | -0.0249 | 0.0087 | 0.0044 | -0.0420 | 0.0635  | 0.9754 | 0.9589 | 0.9923 |
| <b>ebi-a-GCST90001705</b> | BAFF-R on IgD+ CD38- B cell  | acute RITs | European | Infection and immunity | 16IVW                 | -0.0260 | 0.0085 | 0.0024 | -0.0427 | 0.0635  | 0.9744 | 0.9582 | 0.9908 |
| <b>ebi-a-GCST90001708</b> | BAFF-R on IgD+ CD38+ B cell  | acute RITs | European | Infection and immunity | 18IVW                 | -0.0243 | 0.0081 | 0.0027 | -0.0401 | 0.0635  | 0.9760 | 0.9607 | 0.9916 |
| <b>ebi-a-GCST90001709</b> | BAFF-R on IgD+ CD38dim B cell  | acute RITs | European | Infection and immunity | 15IVW                 | -0.0198 | 0.0094 | 0.0351 | -0.0382 | 0.0635  | 0.9804 | 0.9625 | 0.9986 |
| <b>ebi-a-GCST90001715</b> | BAFF-R on memory B cell  | acute RITs | European | Infection and immunity | 10IVW                 | -0.0247 | 0.0094 | 0.0083 | -0.0430 | 0.0635  | 0.9756 | 0.9579 | 0.9937 |
| <b>ebi-a-GCST90001716</b> | BAFF-R on naive-mature B cell  | acute RITs | European | Infection and immunity | 16IVW                 | -0.0210 | 0.0084 | 0.0120 | -0.0374 | 0.0635  | 0.9792 | 0.9632 | 0.9954 |
| <b>ebi-a-GCST90001718</b> | BAFF-R on switched memory B cell                                       | acute RITs | European | Infection and immunity | 12IVW                 | -0.0197 | 0.0090 | 0.0281 | -0.0374 | 0.0635  | 0.9805 | 0.9633 | 0.9979 |
| <b>ebi-a-GCST90001720</b> | BAFF-R on transitional B cell  | acute RITs | European | Infection and immunity | 18IVW                 | -0.0231 | 0.0101 | 0.0226 | -0.0429 | 0.0635  | 0.9772 | 0.9580 | 0.9968 |
| <b>ebi-a-GCST90001717</b> | BAFF-R on unswitched memory B cell                                     | acute RITs | European | Infection and immunity | 16IVW                 | -0.0201 | 0.0087 | 0.0205 | -0.0371 | 0.0635  | 0.9801 | 0.9635 | 0.9969 |
| <b>prot-a-231</b>         | Basal Cell Adhesion Molecule   | acute RITs | European | Infection and immunity | 25Weighted median     | -0.0432 | 0.0207 | 0.0373 | -0.0839 | -0.0025 | 0.9577 | 0.9196 | 0.9975 |
| <b>prot-a-218</b>         | Beta-1,4-galactosyltransferase 3                                       | acute RITs | European | Infection and immunity | 10IVW (fixed effects) | -0.0558 | 0.0243 | 0.0218 | -0.1036 | -0.0081 | 0.9457 | 0.9016 | 0.9919 |
| <b>prot-a-800</b>         | Beta-defensin 128  | acute RITs | European | Infection and immunity | 22IVW                 | 0.0393  | 0.0181 | 0.0300 | 0.0038  | 0.1558  | 1.0401 | 1.0038 | 1.0776 |
| <b>prot-a-801</b>         | Beta-defensin 134  | acute RITs | European | Infection and immunity | 21MR Egger            | 0.1138  | 0.0524 | 0.0428 | 0.0111  | 0.2166  | 1.1206 | 1.0111 | 1.2418 |
| <b>prot-a-1396</b>        | Bone sialoprotein 2  | acute RITs | European | Infection and immunity | 18IVW                 | -0.0401 | 0.0192 | 0.0370 | -0.0777 | 0.0360  | 0.9607 | 0.9253 | 0.9976 |
| <b>prot-a-2391</b>        | Brain-specific serine protease 4                                       | acute RITs | European | Infection and          | 16IVW                 | -0.0633 | 0.0173 | 0.0003 | -0.0972 | 0.0739  | 0.9386 | 0.9074 | 0.9710 |

|                           |  |            |            |                                    |                          |         |        |        |         |         |        |        |        |
|---------------------------|--|------------|------------|------------------------------------|--------------------------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>prot-a-232</b>         | Brevican core protein  | acute RITs | European   | immunity<br>Infection and immunity | 17IVW                    | -0.0489 | 0.0220 | 0.0266 | -0.0921 | 0.1619  | 0.9523 | 0.9120 | 0.9943 |
| <b>prot-a-2947</b>        | Calcineurin B homologous protein 3                                   | acute RITs | European   | Infection and immunity             | 15IVW<br>(fixed effects) | 0.0439  | 0.0201 | 0.0291 | 0.0045  | 0.0833  | 1.0448 | 1.0045 | 1.0868 |
| <b>prot-a-2509</b>        | Calcipressin-1   | acute RITs | European   | Infection and immunity             | 19IVW                    | 0.0433  | 0.0219 | 0.0477 | 0.0004  | 0.1960  | 1.0443 | 1.0004 | 1.0901 |
| <b>prot-a-347</b>         | Calcium/calmodulin-dependent protein kinase type 1D                  | acute RITs | European   | Infection and immunity             | 21IVW                    | 0.0526  | 0.0149 | 0.0004 | 0.0233  | 0.1888  | 1.0540 | 1.0236 | 1.0853 |
| <b>prot-a-697</b>         | Casein kinase II 2-alpha:2-beta heterotetramer                       | acute RITs | European   | Infection and immunity             | 19IVW                    | 0.0435  | 0.0182 | 0.0168 | 0.0079  | 0.1557  | 1.0444 | 1.0079 | 1.0823 |
| <b>prot-a-721</b>         | Cathepsin F  | acute RITs | European   | Infection and immunity             | 18IVW                    | 0.0394  | 0.0191 | 0.0393 | 0.0019  | 0.1744  | 1.0402 | 1.0019 | 1.0800 |
| <b>prot-a-723</b>         | Cathepsin G  | acute RITs | European   | Infection and immunity             | 19IVW                    | 0.0426  | 0.0210 | 0.0425 | 0.0014  | 0.2021  | 1.0435 | 1.0014 | 1.0873 |
| <b>prot-a-724</b>         | Cathepsin H  | acute RITs | European   | Infection and immunity             | 28IVW                    | -0.0327 | 0.0152 | 0.0310 | -0.0624 | 0.0733  | 0.9678 | 0.9395 | 0.9970 |
| <b>prot-a-728</b>         | Cathepsin L2   | acute RITs | European   | Infection and immunity             | 19IVW<br>(fixed effects) | -0.0377 | 0.0188 | 0.0448 | -0.0745 | -0.0009 | 0.9630 | 0.9282 | 0.9991 |
| <b>prot-a-368</b>         | Caveolin-2   | acute RITs | European   | Infection and immunity             | 16IVW<br>(fixed effects) | 0.0436  | 0.0200 | 0.0293 | 0.0044  | 0.0829  | 1.0446 | 1.0044 | 1.0864 |
| <b>prot-a-398</b>         | C-C motif chemokine 22   | acute RITs | European   | Infection and immunity             | 22IVW                    | -0.0396 | 0.0166 | 0.0169 | -0.0720 | -0.0188 | 0.9612 | 0.9305 | 0.9929 |
| <b>prot-a-409</b>         | C-C motif chemokine 5  | acute RITs | European   | Infection and immunity             | 26IVW                    | -0.0390 | 0.0148 | 0.0085 | -0.0680 | 0.0545  | 0.9618 | 0.9343 | 0.9901 |
| <b>ebi-a-GCST90001748</b> | CD20 on IgD+ CD38- B cell  | acute RITs | European   | Infection and immunity             | 21MR<br>Egger            | -0.1009 | 0.0454 | 0.0387 | -0.1900 | -0.0119 | 0.9040 | 0.8270 | 0.9882 |
| <b>ebi-a-GCST90001751</b> | CD20 on IgD+ CD38+ B cell  | acute RITs | European   | Infection and immunity             | 21IVW                    | -0.0254 | 0.0121 | 0.0351 | -0.0491 | 0.0060  | 0.9749 | 0.9521 | 0.9982 |
| <b>ebi-a-GCST90001760</b> | CD20 on unswitched memory B cell                                     | acute RITs | European   | Infection and immunity             | 16Weighted median        | -0.0514 | 0.0241 | 0.0329 | -0.0987 | -0.0042 | 0.9499 | 0.9060 | 0.9958 |
| <b>ebi-a-GCST90001760</b> | CD20 on unswitched memory B cell                                     | acute RITs | European   | Infection and immunity             | 16Weighted mode          | -0.0638 | 0.0282 | 0.0387 | -0.1190 | -0.0086 | 0.9382 | 0.8878 | 0.9914 |
| <b>ebi-a-GCST90001910</b> | CD45 on B cell   | acute RITs | European   | Infection and immunity             | 16MR<br>Egger            | 0.0392  | 0.0174 | 0.0413 | 0.0050  | 0.0733  | 1.0399 | 1.0050 | 1.0761 |
| <b>prot-a-3080</b>        | Cellular tumor antigen p53   | acute RITs | European   | Infection and immunity             | 19IVW                    | 0.0524  | 0.0228 | 0.0216 | 0.0077  | 0.0970  | 1.0538 | 1.0077 | 1.1019 |
| <b>prot-a-432</b>         | CMRF35-like molecule 8   | acute RITs | European   | Infection and immunity             | 25IVW                    | 0.0268  | 0.0129 | 0.0377 | 0.0015  | 0.0773  | 1.0272 | 1.0015 | 1.0535 |
| <b>prot-a-303</b>         | Complement C1q tumor necrosis factor-related protein 1               | acute RITs | European   | Infection and immunity             | 20Weighted median        | -0.0296 | 0.0150 | 0.0479 | -0.0589 | -0.0003 | 0.9708 | 0.9428 | 0.9997 |
| <b>prot-a-303</b>         | Complement C1q tumor necrosis factor-related protein 1               | acute RITs | European   | Infection and immunity             | 20Weighted mode          | -0.0341 | 0.0149 | 0.0343 | -0.0634 | -0.0048 | 0.9665 | 0.9386 | 0.9952 |
| <b>prot-a-300</b>         | Complement component 1 Q subcomponent-binding protein, mitochondrial | acute RITs | European   | Infection and immunity             | 28MR<br>Egger            | -0.1271 | 0.0613 | 0.0482 | -0.2473 | -0.0069 | 0.8806 | 0.7809 | 0.9931 |
| <b>ebi-a-GCST90019439</b> | Complement factor B measurement                                      | acute RITs | European   | Infection and immunity             | 28IVW                    | 0.0332  | 0.0152 | 0.0287 | 0.0035  | 0.1315  | 1.0337 | 1.0035 | 1.0649 |
| <b>bbj-a-14</b>           | C-reactive protein   | acute RITs | East Asian | Infection and immunity             | 46IVW                    | 0.0837  | 0.0288 | 0.0036 | 0.0273  | 0.1747  | 1.0873 | 1.0277 | 1.1505 |
| <b>ieu-a-1015</b>         | C-reactive protein   | acute RITs | East Asian | Infection and immunity             | 12IVW<br>(fixed          | 0.0601  | 0.0300 | 0.0448 | 0.0014  | 0.1188  | 1.0620 | 1.0014 | 1.1262 |

|                           |   |            |          |                        |                       |         |        |        |         |         |        |        |        |
|---------------------------|---|------------|----------|------------------------|-----------------------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>prot-a-670</b>         | C-reactive protein                        | acute RITs | European | Infection and immunity | 21IVW                 | 0.0353  | 0.0157 | 0.0240 | 0.0047  | 0.1921  | 1.0360 | 1.0047 | 1.0683 |
| <b>ieu-b-35</b>           | C-Reactive protein level                  | acute RITs | European | Infection and immunity | 130IVW                | 0.0527  | 0.0216 | 0.0148 | 0.0103  | 0.1300  | 1.0542 | 1.0104 | 1.0998 |
| <b>ebi-a-GCST90025959</b> | C-reactive protein levels                 | acute RITs | European | Infection and immunity | 353IVW                | 0.0684  | 0.0258 | 0.0081 | 0.0178  | 0.1315  | 1.0708 | 1.0179 | 1.1263 |
| <b>prot-a-579</b>         | C-type lectin domain family 5 member A    | acute RITs | European | Infection and immunity | 20IVW                 | 0.0352  | 0.0156 | 0.0240 | 0.0046  | 0.0658  | 1.0358 | 1.0046 | 1.0680 |
| <b>ebi-a-GCST90002012</b> | CX3CR1 on CD14- CD16+ monocyte            | acute RITs | European | Infection and immunity | 19IVW                 | 0.0272  | 0.0137 | 0.0466 | 0.0004  | 0.0155  | 1.0275 | 1.0004 | 1.0554 |
| <b>ebi-a-GCST90001997</b> | CX3CR1 on CD14+ CD16- monocyte            | acute RITs | European | Infection and immunity | 20IVW                 | 0.0219  | 0.0110 | 0.0467 | 0.0003  | 0.0155  | 1.0221 | 1.0003 | 1.0444 |
| <b>ebi-a-GCST90001995</b> | CX3CR1 on monocyte                        | acute RITs | European | Infection and immunity | 20IVW                 | 0.0326  | 0.0143 | 0.0230 | 0.0045  | 0.0155  | 1.0331 | 1.0045 | 1.0626 |
| <b>prot-a-3175</b>        | Cytochrome b-c1 complex subunit 7         | acute RITs | European | Infection and immunity | 18IVW (fixed effects) | 0.0370  | 0.0179 | 0.0392 | 0.0018  | 0.0721  | 1.0377 | 1.0018 | 1.0748 |
| <b>prot-a-813</b>         | Desert hedgehog protein N-product         | acute RITs | European | Infection and immunity | 14IVW                 | 0.0450  | 0.0208 | 0.0301 | 0.0043  | 0.0857  | 1.0460 | 1.0043 | 1.0895 |
| <b>prot-a-824</b>         | Dickkopf-like protein 1                   | acute RITs | European | Infection and immunity | 16IVW                 | -0.0401 | 0.0203 | 0.0484 | -0.0798 | 0.1115  | 0.9607 | 0.9233 | 0.9997 |
| <b>prot-a-586</b>         | Dual specificity protein kinase CLK2      | acute RITs | European | Infection and immunity | 19IVW (fixed effects) | 0.0297  | 0.0135 | 0.0273 | 0.0033  | 0.0561  | 1.0302 | 1.0033 | 1.0577 |
| <b>prot-a-2179</b>        | E3 ubiquitin-protein ligase parkin        | acute RITs | European | Infection and immunity | 20IVW (fixed effects) | 0.0408  | 0.0179 | 0.0230 | 0.0056  | 0.0759  | 1.0416 | 1.0056 | 1.0788 |
| <b>prot-a-2528</b>        | E3 ubiquitin-protein ligase rififylin     | acute RITs | European | Infection and immunity | 13IVW                 | 0.0663  | 0.0325 | 0.0417 | 0.0025  | 0.1446  | 1.0685 | 1.0025 | 1.1389 |
| <b>prot-a-3278</b>        | E3 ubiquitin-protein ligase ZNRF3         | acute RITs | European | Infection and immunity | 12IVW (fixed effects) | -0.0490 | 0.0225 | 0.0294 | -0.0932 | -0.0049 | 0.9521 | 0.9110 | 0.9951 |
| <b>prot-a-984</b>         | Endoplasmic reticulum resident protein 29 | acute RITs | European | Infection and immunity | 15IVW                 | 0.0493  | 0.0201 | 0.0144 | 0.0098  | 0.2449  | 1.0505 | 1.0099 | 1.0928 |
| <b>prot-a-902</b>         | Ephrin-B1                                 | acute RITs | European | Infection and immunity | 15IVW                 | -0.0435 | 0.0217 | 0.0445 | -0.0860 | 0.0988  | 0.9574 | 0.9176 | 0.9989 |
| <b>prot-a-907</b>         | Ephrin-B3                                 | acute RITs | European | Infection and immunity | 13IVW (fixed effects) | 0.0428  | 0.0180 | 0.0175 | 0.0075  | 0.0781  | 1.0437 | 1.0075 | 1.0813 |
| <b>prot-a-2071</b>        | Epididymal secretory protein E1           | acute RITs | European | Infection and immunity | 26IVW                 | -0.0229 | 0.0106 | 0.0302 | -0.0436 | 0.0027  | 0.9773 | 0.9573 | 0.9978 |
| <b>prot-a-1835</b>        | Epididymis-specific alpha-mannosidase     | acute RITs | European | Infection and immunity | 17IVW                 | 0.0427  | 0.0164 | 0.0091 | 0.0106  | 0.1311  | 1.0436 | 1.0107 | 1.0777 |
| <b>prot-a-977</b>         | Epiregulin                                | acute RITs | European | Infection and immunity | 20MR Egger            | 0.1414  | 0.0640 | 0.0405 | 0.0159  | 0.2669  | 1.1519 | 1.0160 | 1.3059 |
| <b>prot-a-308</b>         | ES1 protein homolog, mitochondrial        | acute RITs | European | Infection and immunity | 24Weighted median     | 0.0645  | 0.0248 | 0.0092 | 0.0159  | 0.1130  | 1.0666 | 1.0161 | 1.1196 |
| <b>prot-a-2892</b>        | Estrogen sulfotransferase                 | acute RITs | European | Infection and immunity | 21IVW                 | 0.0470  | 0.0155 | 0.0025 | 0.0166  | 0.0714  | 1.0482 | 1.0167 | 1.0806 |
| <b>prot-a-1001</b>        | Exosome complex component CSL4            | acute RITs | European | Infection and immunity | 23Weighted median     | -0.0545 | 0.0244 | 0.0255 | -0.1023 | -0.0067 | 0.9470 | 0.9028 | 0.9933 |
| <b>prot-a-1003</b>        | Exostosin-like 2                          | acute RITs | European | Infection and immunity | 17IVW                 | 0.0498  | 0.0179 | 0.0054 | 0.0147  | 0.1988  | 1.0510 | 1.0148 | 1.0885 |
| <b>prot-a-1019</b>        | Fas apoptotic inhibitory                  | acute RITs | European | Infection and          | 28IVW                 | 0.0404  | 0.0146 | 0.0056 | 0.0118  | 0.1692  | 1.0412 | 1.0119 | 1.0714 |

|                           |   |            |                     |                                    |                          |         |        |        |         |         |        |        |        |
|---------------------------|---|------------|---------------------|------------------------------------|--------------------------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>prot-a-1102</b>        | molecule 3<br>Fibroblast growth factor receptor 2             | acute RITs | European            | immunity<br>Infection and immunity | 25IVW                    | -0.0463 | 0.0169 | 0.0062 | -0.0794 | 0.0560  | 0.9548 | 0.9237 | 0.9869 |
| <b>prot-a-1117</b>        | Filamin-A   | acute RITs | European            | Immunity<br>Infection and immunity | 16IVW                    | 0.0433  | 0.0213 | 0.0421 | 0.0015  | 0.1940  | 1.0443 | 1.0015 | 1.0889 |
| <b>prot-a-567</b>         | Galectin-10   | acute RITs | European            | Immunity<br>Infection and immunity | 23MR<br>Egger            | -0.1100 | 0.0499 | 0.0389 | -0.2079 | -0.0122 | 0.8958 | 0.8123 | 0.9879 |
| <b>prot-a-1295</b>        | Glucoside xylosyltransferase 1                                | acute RITs | European            | Immunity<br>Infection and immunity | 23IVW                    | 0.0253  | 0.0126 | 0.0451 | 0.0006  | 0.0965  | 1.0256 | 1.0006 | 1.0513 |
| <b>prot-a-1285</b>        | Glutathione S-transferase A4                                  | acute RITs | European            | Immunity<br>Infection and immunity | 26IVW                    | 0.0453  | 0.0187 | 0.0155 | 0.0086  | 0.2271  | 1.0464 | 1.0086 | 1.0855 |
| <b>ebi-a-GCST90002248</b> | Glycated hemoglobin levels                                    | acute RITs | Sub-Saharan African | Immunity<br>Infection and immunity | 24IVW<br>(fixed effects) | 0.0427  | 0.0201 | 0.0336 | 0.0033  | 0.0820  | 1.0436 | 1.0033 | 1.0855 |
| <b>prot-a-1046</b>        | Glycosaminoglycan xylosylkinase                               | acute RITs | European            | Immunity<br>Infection and immunity | 26IVW                    | 0.0361  | 0.0149 | 0.0155 | 0.0069  | 0.1375  | 1.0367 | 1.0069 | 1.0674 |
| <b>prot-a-1277</b>        | Granulins   | acute RITs | European            | Immunity<br>Infection and immunity | 26Weighted median        | -0.0241 | 0.0123 | 0.0497 | -0.0482 | 0.0000  | 0.9762 | 0.9529 | 1.0000 |
| <b>prot-a-1268</b>        | GRB2-related adapter protein                                  | acute RITs | European            | Immunity<br>Infection and immunity | 11IVW                    | -0.0551 | 0.0249 | 0.0272 | -0.1039 | 0.0472  | 0.9464 | 0.9013 | 0.9938 |
| <b>prot-a-747</b>         | Gro-beta/gamma  | acute RITs | European            | Immunity<br>Infection and immunity | 16MR<br>Egger            | 0.1848  | 0.0730 | 0.0240 | 0.0416  | 0.3279  | 1.2030 | 1.0425 | 1.3881 |
| <b>prot-b-55</b>          | growth differentiation factor 15                              | acute RITs | European            | Immunity<br>Infection and immunity | 15IVW                    | -0.0428 | 0.0140 | 0.0022 | -0.0702 | -0.0214 | 0.9581 | 0.9322 | 0.9847 |
| <b>prot-a-1272</b>        | Growth factor receptor-bound protein 7                        | acute RITs | European            | Immunity<br>Infection and immunity | 21IVW                    | 0.0412  | 0.0167 | 0.0136 | 0.0085  | 0.2203  | 1.0420 | 1.0085 | 1.0766 |
| <b>prot-a-1196</b>        | Growth/differentiation factor 5                               | acute RITs | European            | Immunity<br>Infection and immunity | 20IVW                    | 0.0304  | 0.0103 | 0.0032 | 0.0102  | 0.0652  | 1.0309 | 1.0102 | 1.0520 |
| <b>prot-a-1197</b>        | Growth/differentiation factor 9                               | acute RITs | European            | Immunity<br>Infection and immunity | 19IVW                    | 0.0371  | 0.0187 | 0.0469 | 0.0005  | 0.0738  | 1.0378 | 1.0005 | 1.0765 |
| <b>prot-a-1199</b>        | GTP-binding protein GEM                                       | acute RITs | European            | Immunity<br>Infection and immunity | 20IVW                    | 0.0252  | 0.0091 | 0.0054 | 0.0075  | 0.0429  | 1.0255 | 1.0075 | 1.0439 |
| <b>prot-a-1178</b>        | Guanylate-binding protein 6                                   | acute RITs | European            | Immunity<br>Infection and immunity | 19IVW                    | 0.0424  | 0.0207 | 0.0406 | 0.0018  | 0.2230  | 1.0434 | 1.0018 | 1.0866 |
| <b>prot-a-1387</b>        | Heat shock 70 kDa protein 1-like                              | acute RITs | European            | Immunity<br>Infection and immunity | 12IVW                    | 0.0422  | 0.0164 | 0.0103 | 0.0100  | 0.1768  | 1.0431 | 1.0100 | 1.0773 |
| <b>prot-a-1310</b>        | Hepatitis A virus cellular receptor 1                         | acute RITs | European            | Immunity<br>Infection and immunity | 15IVW                    | -0.0333 | 0.0151 | 0.0276 | -0.0629 | 0.0191  | 0.9673 | 0.9390 | 0.9963 |
| <b>prot-a-1366</b>        | Heterogeneous nuclear ribonucleoprotein K                     | acute RITs | European            | Immunity<br>Infection and immunity | 23IVW<br>(fixed effects) | 0.0345  | 0.0168 | 0.0404 | 0.0015  | 0.0675  | 1.0351 | 1.0015 | 1.0698 |
| <b>prot-a-2224</b>        | High affinity cGMP-specific 3',5'-cyclic phosphodiesterase 9A | acute RITs | European            | Immunity<br>Infection and immunity | 23IVW                    | 0.0374  | 0.0166 | 0.0249 | 0.0047  | 0.1053  | 1.0381 | 1.0047 | 1.0725 |
| <b>prot-a-2121</b>        | High affinity nerve growth factor receptor                    | acute RITs | European            | Immunity<br>Infection and immunity | 12IVW                    | 0.0597  | 0.0252 | 0.0178 | 0.0103  | 0.3066  | 1.0615 | 1.0104 | 1.1153 |
| <b>prot-a-1338</b>        | Histidine triad nucleotide-binding protein 1                  | acute RITs | European            | Immunity<br>Infection and immunity | 16IVW                    | -0.0449 | 0.0181 | 0.0133 | -0.0804 | 0.1054  | 0.9561 | 0.9228 | 0.9907 |
| <b>prot-a-1607</b>        | Histone acetyltransferase KAT6A                               | acute RITs | European            | Immunity<br>Infection and immunity | 13IVW                    | 0.0408  | 0.0208 | 0.0497 | 0.0000  | 0.2188  | 1.0416 | 1.0000 | 1.0849 |
| <b>prot-a-1304</b>        | Histone H2A.z   | acute RITs | European            | Immunity<br>Infection and immunity | 15MR<br>Egger            | -0.2024 | 0.0899 | 0.0423 | -0.3786 | -0.0262 | 0.8168 | 0.6848 | 0.9742 |
| <b>ebi-a-GCST90002116</b> | HLA DR on B cell  | acute RITs | European            | Immunity<br>Infection and immunity | 14IVW<br>(fixed effects) | 0.0216  | 0.0105 | 0.0402 | 0.0010  | 0.0423  | 1.0219 | 1.0010 | 1.0432 |

|                           |   |            |          |                        |                       |         |        |        |         |         |        |        |        |
|---------------------------|---|------------|----------|------------------------|-----------------------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>prot-a-1393</b>        | Hyaluronidase-1   | acute RITs | European | Infection and immunity | 22IVW (fixed effects) | -0.0346 | 0.0168 | 0.0401 | -0.0675 | -0.0016 | 0.9660 | 0.9347 | 0.9984 |
| <b>prot-a-1071</b>        | Immunoglobulin alpha Fc receptor                                    | acute RITs | European | Infection and immunity | 8IVW (fixed effects)  | 0.0715  | 0.0301 | 0.0176 | 0.0125  | 0.1304  | 1.0741 | 1.0125 | 1.1393 |
| <b>prot-a-1576</b>        | Immunoglobulin superfamily containing leucine-rich repeat protein 2 | acute RITs | European | Infection and immunity | 17Weighted median     | -0.0516 | 0.0218 | 0.0180 | -0.0943 | -0.0088 | 0.9497 | 0.9100 | 0.9912 |
| <b>prot-a-2141</b>        | Inositol polyphosphate 5-phosphatase OCRL-1                         | acute RITs | European | Infection and immunity | 16IVW                 | 0.0508  | 0.0166 | 0.0022 | 0.0183  | 0.1359  | 1.0521 | 1.0184 | 1.0869 |
| <b>prot-a-1593</b>        | Inositol-trisphosphate 3-kinase A                                   | acute RITs | European | Infection and immunity | 11IVW                 | 0.0886  | 0.0240 | 0.0002 | 0.0416  | 0.3061  | 1.0927 | 1.0425 | 1.1453 |
| <b>prot-a-1435</b>        | Interferon lambda-1   | acute RITs | European | Infection and immunity | 14Weighted median     | 0.0616  | 0.0311 | 0.0475 | 0.0007  | 0.1225  | 1.0635 | 1.0007 | 1.1303 |
| <b>prot-a-1547</b>        | Interleukin enhancer-binding factor 3                               | acute RITs | European | Infection and immunity | 14MR Egger            | -0.1593 | 0.0654 | 0.0314 | -0.2874 | -0.0311 | 0.8528 | 0.7502 | 0.9694 |
| <b>ebi-a-GCST004444</b>   | Interleukin-10 levels   | acute RITs | European | Infection and immunity | 15IVW                 | 0.0596  | 0.0212 | 0.0049 | 0.0181  | 0.1767  | 1.0614 | 1.0182 | 1.1064 |
| <b>prot-a-1479</b>        | Interleukin-16  | acute RITs | European | Infection and immunity | 18IVW                 | -0.0330 | 0.0140 | 0.0184 | -0.0604 | 0.0363  | 0.9675 | 0.9414 | 0.9944 |
| <b>ebi-a-GCST004448</b>   | Interleukin-1-beta levels   | acute RITs | European | Infection and immunity | 5IVW                  | -0.0966 | 0.0425 | 0.0230 | -0.1799 | 0.1158  | 0.9079 | 0.8354 | 0.9868 |
| <b>prot-a-1517</b>        | Interleukin-27 receptor subunit alpha                               | acute RITs | European | Infection and immunity | 14IVW                 | -0.0413 | 0.0192 | 0.0317 | -0.0790 | 0.0244  | 0.9595 | 0.9240 | 0.9964 |
| <b>prot-a-1524</b>        | Interleukin-34  | acute RITs | European | Infection and immunity | 24IVW (fixed effects) | -0.0336 | 0.0155 | 0.0303 | -0.0639 | -0.0032 | 0.9670 | 0.9381 | 0.9968 |
| <b>prot-a-1528</b>        | Interleukin-36 gamma  | acute RITs | European | Infection and immunity | 20IVW                 | 0.0411  | 0.0186 | 0.0273 | 0.0046  | 0.1221  | 1.0419 | 1.0046 | 1.0807 |
| <b>prot-a-1533</b>        | Interleukin-4 receptor subunit alpha                                | acute RITs | European | Infection and immunity | 19IVW                 | 0.0530  | 0.0183 | 0.0038 | 0.0171  | 0.1245  | 1.0545 | 1.0172 | 1.0931 |
| <b>prot-a-1535</b>        | Interleukin-5   | acute RITs | European | Infection and immunity | 16IVW                 | -0.0453 | 0.0189 | 0.0166 | -0.0823 | 0.0284  | 0.9557 | 0.9210 | 0.9918 |
| <b>prot-a-1544</b>        | Interleukin-7 receptor subunit alpha                                | acute RITs | European | Infection and immunity | 26Weighted median     | -0.0476 | 0.0211 | 0.0244 | -0.0890 | -0.0061 | 0.9535 | 0.9148 | 0.9939 |
| <b>prot-a-1595</b>        | Intersectin-1   | acute RITs | European | Infection and immunity | 21IVW                 | 0.0394  | 0.0182 | 0.0306 | 0.0037  | 0.2757  | 1.0402 | 1.0037 | 1.0781 |
| <b>prot-a-81</b>          | Intestinal-type alkaline phosphatase                                | acute RITs | European | Infection and immunity | 16IVW                 | 0.0388  | 0.0184 | 0.0351 | 0.0027  | 0.1057  | 1.0395 | 1.0027 | 1.0777 |
| <b>ebi-a-GCST90012012</b> | kallikrein-11 levels  | acute RITs | European | Infection and immunity | 26Weighted median     | 0.0475  | 0.0223 | 0.0333 | 0.0038  | 0.0912  | 1.0486 | 1.0038 | 1.0955 |
| <b>prot-a-1664</b>        | Kallikrein-5  | acute RITs | European | Infection and immunity | 12IVW                 | -0.0498 | 0.0232 | 0.0317 | -0.0952 | 0.1129  | 0.9515 | 0.9092 | 0.9956 |
| <b>prot-a-1640</b>        | Killer cell immunoglobulin-like receptor 2DL2                       | acute RITs | European | Infection and immunity | 17IVW                 | 0.0332  | 0.0158 | 0.0357 | 0.0022  | 0.1440  | 1.0337 | 1.0022 | 1.0663 |
| <b>prot-a-1635</b>        | Kinesin-like protein KIF16B   | acute RITs | European | Infection and immunity | 25IVW (fixed effects) | 0.0323  | 0.0156 | 0.0391 | 0.0016  | 0.0629  | 1.0328 | 1.0016 | 1.0649 |
| <b>prot-b-20</b>          | KIT ligand  | acute RITs | European | Infection and immunity | 12IVW                 | 0.0104  | 0.0048 | 0.0308 | 0.0010  | 0.0223  | 1.0104 | 1.0010 | 1.0200 |
| <b>prot-a-2825</b>        | Kunitz-type protease inhibitor 3                                    | acute RITs | European | Infection and immunity | 25Weighted median     | 0.0304  | 0.0149 | 0.0416 | 0.0012  | 0.0597  | 1.0309 | 1.0012 | 1.0616 |
| <b>prot-a-2825</b>        | Kunitz-type protease inhibitor 3                                    | acute RITs | European | Infection and immunity | 25Weighted mode       | 0.0330  | 0.0148 | 0.0361 | 0.0039  | 0.0620  | 1.0335 | 1.0039 | 1.0640 |

|                           |   |            |          |                        |                       |         |        |        |         |         |        |        |        |
|---------------------------|---|------------|----------|------------------------|-----------------------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>prot-a-1714</b>        | Lactase-like protein  | acute RITs | European | Infection and immunity | 13Weighted median     | -0.0709 | 0.0327 | 0.0303 | -0.1351 | -0.0067 | 0.9315 | 0.8736 | 0.9933 |
| <b>prot-a-1797</b>        | Leucine-rich repeat transmembrane neuronal protein 4          | acute RITs | European | Infection and immunity | 19MR Egger            | -0.1349 | 0.0589 | 0.0349 | -0.2503 | -0.0196 | 0.8738 | 0.7786 | 0.9806 |
| <b>prot-a-1076</b>        | Low affinity immunoglobulin gamma Fc region receptor III-B    | acute RITs | European | Infection and immunity | 24IVW                 | 0.0466  | 0.0130 | 0.0003 | 0.0211  | 0.0918  | 1.0477 | 1.0213 | 1.0747 |
| <b>prot-a-2666</b>        | L-Selectin  | acute RITs | European | Infection and immunity | 22Weighted median     | -0.0412 | 0.0170 | 0.0154 | -0.0745 | -0.0079 | 0.9596 | 0.9282 | 0.9922 |
| <b>prot-a-2666</b>        | L-Selectin  | acute RITs | European | Infection and immunity | 22Weighted mode       | -0.0401 | 0.0181 | 0.0375 | -0.0755 | -0.0047 | 0.9607 | 0.9273 | 0.9953 |
| <b>prot-a-1735</b>        | Lutropin subunit beta   | acute RITs | European | Infection and immunity | 20IVW                 | 0.0385  | 0.0183 | 0.0349 | 0.0027  | 0.1098  | 1.0393 | 1.0027 | 1.0771 |
| <b>prot-a-454</b>         | Lymphocyte function-associated antigen 3                      | acute RITs | European | Infection and immunity | 11IVW                 | 0.0614  | 0.0248 | 0.0132 | 0.0128  | 0.2657  | 1.0633 | 1.0129 | 1.1162 |
| <b>prot-a-3236</b>        | Lymphotactin  | acute RITs | European | Infection and immunity | 15Weighted median     | -0.0460 | 0.0221 | 0.0374 | -0.0892 | -0.0027 | 0.9551 | 0.9146 | 0.9973 |
| <b>prot-a-1912</b>        | Macrophage metalloelastase                                    | acute RITs | European | Infection and immunity | 16IVW (fixed effects) | -0.0279 | 0.0136 | 0.0400 | -0.0546 | -0.0013 | 0.9724 | 0.9468 | 0.9987 |
| <b>prot-a-1931</b>        | MAGUK p55 subfamily member 6                                  | acute RITs | European | Infection and immunity | 17IVW                 | 0.0655  | 0.0159 | 0.0000 | 0.0343  | 0.1891  | 1.0677 | 1.0349 | 1.1015 |
| <b>prot-a-1854</b>        | MAP kinase-activated protein kinase 5                         | acute RITs | European | Infection and immunity | 23IVW                 | 0.0173  | 0.0088 | 0.0494 | 0.0000  | 0.0518  | 1.0174 | 1.0000 | 1.0351 |
| <b>prot-a-1916</b>        | Matrix metalloproteinase-16                                   | acute RITs | European | Infection and immunity | 17IVW                 | -0.0448 | 0.0194 | 0.0209 | -0.0829 | 0.1221  | 0.9562 | 0.9205 | 0.9932 |
| <b>prot-a-1896</b>        | Melanoma-derived growth regulatory protein                    | acute RITs | European | Infection and immunity | 17IVW                 | 0.0218  | 0.0097 | 0.0250 | 0.0027  | 0.0413  | 1.0221 | 1.0027 | 1.0418 |
| <b>prot-a-1908</b>        | Membrane metallo-endopeptidase-like 1                         | acute RITs | European | Infection and immunity | 28IVW                 | 0.0448  | 0.0157 | 0.0043 | 0.0140  | 0.0781  | 1.0458 | 1.0141 | 1.0785 |
| <b>ebi-a-GCST90006924</b> | Merkel cell polyomavirus VP1 antibody levels                  | acute RITs | European | Infection and immunity | 15IVW                 | -0.0467 | 0.0234 | 0.0456 | -0.0926 | 0.0657  | 0.9543 | 0.9116 | 0.9991 |
| <b>prot-a-1052</b>        | MIP18 family protein FAM96A                                   | acute RITs | European | Infection and immunity | 14IVW                 | -0.0522 | 0.0219 | 0.0169 | -0.0950 | 0.1207  | 0.9491 | 0.9093 | 0.9907 |
| <b>prot-a-5</b>           | Monoacylglycerol lipase ABHD12                                | acute RITs | European | Infection and immunity | 18IVW                 | -0.0413 | 0.0211 | 0.0497 | -0.0826 | -0.0001 | 0.9595 | 0.9207 | 0.9999 |
| <b>prot-b-75</b>          | mucin 16, cell surface associated                             | acute RITs | European | Infection and immunity | 12Weighted median     | -0.0428 | 0.0184 | 0.0202 | -0.0790 | -0.0067 | 0.9581 | 0.9241 | 0.9934 |
| <b>prot-b-75</b>          | mucin 16, cell surface associated                             | acute RITs | European | Infection and immunity | 12Weighted mode       | -0.0459 | 0.0202 | 0.0445 | -0.0855 | -0.0062 | 0.9552 | 0.9181 | 0.9938 |
| <b>prot-a-1967</b>        | Mucin-1   | acute RITs | European | Infection and immunity | 22IVW                 | 0.0511  | 0.0132 | 0.0001 | 0.0251  | 0.1209  | 1.0524 | 1.0255 | 1.0800 |
| <b>prot-a-1995</b>        | N-acetyl-D-glucosamine kinase                                 | acute RITs | European | Infection and immunity | 17IVW                 | -0.0309 | 0.0136 | 0.0229 | -0.0575 | 0.0231  | 0.9696 | 0.9442 | 0.9957 |
| <b>prot-a-2057</b>        | NACHT, LRR and PYD domains-containing protein 4               | acute RITs | European | Infection and immunity | 18Weighted median     | -0.0741 | 0.0281 | 0.0084 | -0.1292 | -0.0190 | 0.9286 | 0.8788 | 0.9812 |
| <b>prot-a-2026</b>        | NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial | acute RITs | European | Infection and immunity | 12IVW                 | 0.0504  | 0.0233 | 0.0304 | 0.0048  | 0.2542  | 1.0516 | 1.0048 | 1.1007 |
| <b>prot-a-2081</b>        | Neuronal pentraxin-2  | acute RITs | European | Infection and immunity | 17MR Egger            | 0.1499  | 0.0689 | 0.0461 | 0.0148  | 0.2850  | 1.1617 | 1.0149 | 1.3297 |
| <b>prot-a-345</b>         | Neuron-specific vesicular protein calcyon                     | acute RITs | European | Infection and immunity | 18IVW                 | 0.0454  | 0.0196 | 0.0205 | 0.0070  | 0.1685  | 1.0465 | 1.0070 | 1.0874 |
| <b>prot-a-2099</b>        | Neuropilin-1  | acute RITs | European | Infection and immunity | 25MR Egger            | -0.1040 | 0.0466 | 0.0356 | -0.1952 | -0.0127 | 0.9013 | 0.8227 | 0.9874 |

|                    |  |            |          |                        |                       |         |        |        |         |         |        |        |        |
|--------------------|--|------------|----------|------------------------|-----------------------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>prot-a-2050</b> | Nidogen-2  | acute RITs | European | Infection and immunity | 14IVW                 | -0.0351 | 0.0157 | 0.0252 | -0.0659 | 0.0315  | 0.9655 | 0.9362 | 0.9956 |
| <b>prot-a-1674</b> | NKG2-D type II integral membrane protein   | acute RITs | European | Infection and immunity | 20IVW                 | 0.0361  | 0.0176 | 0.0401 | 0.0016  | 0.1321  | 1.0367 | 1.0016 | 1.0731 |
| <b>prot-a-1872</b> | Nuclear protein MDM1   | acute RITs | European | Infection and immunity | 17IVW                 | -0.0496 | 0.0235 | 0.0350 | -0.0956 | 0.1428  | 0.9517 | 0.9088 | 0.9965 |
| <b>prot-a-2086</b> | Nuclear receptor subfamily 1 group D member 2  | acute RITs | European | Infection and immunity | 21MR Egger            | -0.1250 | 0.0556 | 0.0365 | -0.2340 | -0.0161 | 0.8825 | 0.7914 | 0.9840 |
| <b>prot-a-2093</b> | Nuclear receptor-binding protein   | acute RITs | European | Infection and immunity | 19IVW                 | 0.0415  | 0.0194 | 0.0326 | 0.0034  | 0.1515  | 1.0423 | 1.0034 | 1.0827 |
| <b>prot-a-2150</b> | Oligophrenin-1   | acute RITs | European | Infection and immunity | 20IVW                 | 0.0523  | 0.0185 | 0.0047 | 0.0160  | 0.2282  | 1.0536 | 1.0162 | 1.0925 |
| <b>prot-a-2155</b> | Oncostatin-M   | acute RITs | European | Infection and immunity | 22MR Egger            | 0.1234  | 0.0524 | 0.0289 | 0.0207  | 0.2262  | 1.1314 | 1.0209 | 1.2538 |
| <b>prot-a-2272</b> | Paired immunoglobulin-like type 2 receptor alpha   | acute RITs | European | Infection and immunity | 21IVW                 | 0.0364  | 0.0175 | 0.0378 | 0.0021  | 0.1489  | 1.0371 | 1.0021 | 1.0733 |
| <b>prot-a-2344</b> | Peptidyl-prolyl cis-trans isomerase-like 2   | acute RITs | European | Infection and immunity | 21IVW (fixed effects) | 0.0345  | 0.0170 | 0.0421 | 0.0012  | 0.0677  | 1.0351 | 1.0012 | 1.0701 |
| <b>prot-a-2425</b> | Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN | acute RITs | European | Infection and immunity | 22IVW                 | -0.0393 | 0.0168 | 0.0196 | -0.0722 | 0.0552  | 0.9615 | 0.9303 | 0.9937 |
| <b>prot-a-2294</b> | Phospholipase B-like 1   | acute RITs | European | Infection and immunity | 16IVW                 | -0.0419 | 0.0202 | 0.0379 | -0.0815 | 0.0839  | 0.9589 | 0.9217 | 0.9977 |
| <b>prot-a-2698</b> | Pigment epithelium-derived factor  | acute RITs | European | Infection and immunity | 19IVW                 | 0.0297  | 0.0145 | 0.0401 | 0.0013  | 0.0885  | 1.0301 | 1.0013 | 1.0597 |
| <b>prot-a-2299</b> | Pleckstrin homology domain-containing family A member 1  | acute RITs | European | Infection and immunity | 22IVW                 | 0.0623  | 0.0195 | 0.0014 | 0.0241  | 0.1945  | 1.0642 | 1.0244 | 1.1056 |
| <b>prot-a-1171</b> | Polypeptide N-acetylgalactosaminyltransferase 2  | acute RITs | European | Infection and immunity | 20IVW                 | -0.0416 | 0.0200 | 0.0375 | -0.0807 | 0.1106  | 0.9593 | 0.9225 | 0.9976 |
| <b>prot-a-1613</b> | Potassium voltage-gated channel subfamily E regulatory beta subunit 5                                | acute RITs | European | Infection and immunity | 16IVW                 | -0.0414 | 0.0194 | 0.0329 | -0.0794 | 0.0700  | 0.9594 | 0.9236 | 0.9966 |
| <b>prot-a-1615</b> | Potassium voltage-gated channel subfamily G member 4   | acute RITs | European | Infection and immunity | 21IVW                 | 0.0589  | 0.0204 | 0.0039 | 0.0189  | 0.2358  | 1.0607 | 1.0191 | 1.1039 |
| <b>prot-a-2209</b> | Procollagen C-endopeptidase enhancer 1   | acute RITs | European | Infection and immunity | 20MR Egger            | -0.1115 | 0.0486 | 0.0340 | -0.2067 | -0.0163 | 0.8945 | 0.8132 | 0.9839 |
| <b>prot-a-2409</b> | Proteasome subunit alpha type-1  | acute RITs | European | Infection and immunity | 17IVW (fixed effects) | -0.0419 | 0.0204 | 0.0399 | -0.0819 | -0.0019 | 0.9589 | 0.9214 | 0.9981 |
| <b>prot-a-827</b>  | Protein delta homolog 1  | acute RITs | European | Infection and immunity | 19IVW                 | 0.0298  | 0.0140 | 0.0335 | 0.0023  | 0.0458  | 1.0303 | 1.0023 | 1.0590 |
| <b>prot-a-810</b>  | Protein DGCR6  | acute RITs | European | Infection and immunity | 21MR Egger            | 0.1425  | 0.0658 | 0.0431 | 0.0136  | 0.2714  | 1.1532 | 1.0137 | 1.3118 |
| <b>prot-a-2232</b> | Protein disulfide-isomerase A3   | acute RITs | European | Infection and immunity | 23IVW                 | 0.0380  | 0.0172 | 0.0275 | 0.0042  | 0.1262  | 1.0387 | 1.0042 | 1.0743 |
| <b>prot-a-2233</b> | Protein disulfide-isomerase A5   | acute RITs | European | Infection and immunity | 26IVW (fixed effects) | 0.0245  | 0.0120 | 0.0415 | 0.0009  | 0.0481  | 1.0249 | 1.0009 | 1.0493 |
| <b>prot-a-1027</b> | Protein FAM163A  | acute RITs | European | Infection and immunity | 23IVW (fixed effects) | -0.0285 | 0.0127 | 0.0253 | -0.0535 | -0.0035 | 0.9719 | 0.9479 | 0.9965 |

|                    |   |            |          |                        |                       |         |        |        |         |         |        |        |        |
|--------------------|---|------------|----------|------------------------|-----------------------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>prot-a-1049</b> | Protein FAM3B                                     | acute RITs | European | Infection and immunity | 12IVW                 | 0.0416  | 0.0195 | 0.0325 | 0.0035  | 0.0885  | 1.0425 | 1.0035 | 1.0830 |
| <b>prot-a-2619</b> | Protein S100-A5                                   | acute RITs | European | Infection and immunity | 24IVW                 | 0.0245  | 0.0122 | 0.0453 | 0.0005  | 0.0863  | 1.0248 | 1.0005 | 1.0496 |
| <b>prot-a-3093</b> | Protein-tyrosine sulfotransferase 2               | acute RITs | European | Infection and immunity | 26Weighted median     | 0.0426  | 0.0200 | 0.0330 | 0.0034  | 0.0817  | 1.0435 | 1.0034 | 1.0851 |
| <b>prot-a-3093</b> | Protein-tyrosine sulfotransferase 2               | acute RITs | European | Infection and immunity | 26Weighted mode       | 0.0614  | 0.0254 | 0.0233 | 0.0116  | 0.1112  | 1.0633 | 1.0117 | 1.1176 |
| <b>prot-a-2203</b> | Protocadherin beta-1                              | acute RITs | European | Infection and immunity | 18MR Egger            | 0.1147  | 0.0523 | 0.0435 | 0.0121  | 0.2172  | 1.1215 | 1.0122 | 1.2426 |
| <b>prot-a-2207</b> | Protocadherin gamma-C5                            | acute RITs | European | Infection and immunity | 21MR Egger            | -0.1281 | 0.0581 | 0.0400 | -0.2419 | -0.0142 | 0.8798 | 0.7851 | 0.9859 |
| <b>prot-a-2191</b> | Pterin-4-alpha-carbinolamine dehydratase          | acute RITs | European | Infection and immunity | 17IVW                 | -0.0439 | 0.0191 | 0.0212 | -0.0813 | 0.0514  | 0.9570 | 0.9219 | 0.9934 |
| <b>prot-a-2711</b> | Pulmonary surfactant-associated protein C         | acute RITs | European | Infection and immunity | 25IVW                 | -0.0425 | 0.0128 | 0.0009 | -0.0675 | 0.0408  | 0.9584 | 0.9347 | 0.9827 |
| <b>prot-a-2477</b> | Ras-related protein Rab-39B                       | acute RITs | European | Infection and immunity | 20IVW (fixed effects) | 0.0409  | 0.0178 | 0.0218 | 0.0059  | 0.0758  | 1.0417 | 1.0060 | 1.0788 |
| <b>prot-a-2444</b> | Receptor-type tyrosine-protein phosphatase H      | acute RITs | European | Infection and immunity | 18IVW                 | -0.0621 | 0.0166 | 0.0002 | -0.0947 | -0.0475 | 0.9398 | 0.9097 | 0.9710 |
| <b>prot-a-2524</b> | Resistin  | acute RITs | European | Infection and immunity | 21IVW (fixed effects) | 0.0354  | 0.0163 | 0.0294 | 0.0035  | 0.0673  | 1.0361 | 1.0035 | 1.0696 |
| <b>prot-a-2497</b> | Retinoblastoma-binding protein 5                  | acute RITs | European | Infection and immunity | 14IVW                 | -0.0424 | 0.0200 | 0.0343 | -0.0817 | 0.2032  | 0.9585 | 0.9216 | 0.9969 |
| <b>prot-a-2602</b> | Ribonucleoside-diphosphate reductase subunit M2 B | acute RITs | European | Infection and immunity | 15IVW (fixed effects) | 0.0428  | 0.0192 | 0.0258 | 0.0052  | 0.0805  | 1.0437 | 1.0052 | 1.0838 |
| <b>prot-a-1945</b> | Ribosome-recycling factor, mitochondrial          | acute RITs | European | Infection and immunity | 21IVW                 | 0.0429  | 0.0179 | 0.0162 | 0.0079  | 0.0912  | 1.0439 | 1.0080 | 1.0811 |
| <b>prot-a-2584</b> | Ribulose-phosphate 3-epimerase                    | acute RITs | European | Infection and immunity | 12IVW (fixed effects) | -0.0394 | 0.0201 | 0.0497 | -0.0788 | -0.0001 | 0.9613 | 0.9242 | 0.9999 |
| <b>prot-a-2569</b> | RING finger protein 215                           | acute RITs | European | Infection and immunity | 19MR Egger            | 0.1080  | 0.0454 | 0.0292 | 0.0191  | 0.1969  | 1.1141 | 1.0193 | 1.2176 |
| <b>prot-a-2575</b> | rRNA methyltransferase 3, mitochondrial           | acute RITs | European | Infection and immunity | 20IVW                 | 0.0361  | 0.0106 | 0.0007 | 0.0153  | 0.0908  | 1.0367 | 1.0154 | 1.0585 |
| <b>prot-a-2641</b> | Scavenger receptor class F member 2               | acute RITs | European | Infection and immunity | 21IVW                 | 0.0403  | 0.0191 | 0.0348 | 0.0029  | 0.1063  | 1.0411 | 1.0029 | 1.0809 |
| <b>prot-a-2642</b> | Scavenger receptor class F member 2               | acute RITs | European | Infection and immunity | 19IVW                 | -0.0513 | 0.0175 | 0.0033 | -0.0856 | 0.0491  | 0.9500 | 0.9179 | 0.9831 |
| <b>prot-a-2709</b> | Secreted frizzled-related protein 1               | acute RITs | European | Infection and immunity | 21IVW                 | 0.0518  | 0.0176 | 0.0032 | 0.0173  | 0.1357  | 1.0531 | 1.0175 | 1.0900 |
| <b>prot-a-2669</b> | Semaphorin-3A                                     | acute RITs | European | Infection and immunity | 25IVW                 | 0.0461  | 0.0138 | 0.0008 | 0.0191  | 0.1559  | 1.0472 | 1.0193 | 1.0760 |
| <b>prot-a-2671</b> | Semaphorin-3C                                     | acute RITs | European | Infection and immunity | 12IVW                 | -0.0553 | 0.0228 | 0.0153 | -0.1000 | 0.0205  | 0.9462 | 0.9048 | 0.9894 |
| <b>prot-a-2838</b> | Serine/arginine-rich splicing factor 6            | acute RITs | European | Infection and immunity | 12IVW (fixed effects) | 0.0507  | 0.0247 | 0.0403 | 0.0023  | 0.0992  | 1.0520 | 1.0023 | 1.1043 |
| <b>prot-a-2170</b> | Serine/threonine-protein kinase PAK 4             | acute RITs | European | Infection and immunity | 13IVW                 | -0.0426 | 0.0207 | 0.0396 | -0.0832 | 0.0570  | 0.9583 | 0.9202 | 0.9980 |
| <b>prot-a-2690</b> | Serpin A12  | acute RITs | European | Infection and          | 26IVW                 | -0.0383 | 0.0184 | 0.0373 | -0.0744 | 0.0925  | 0.9624 | 0.9283 | 0.9978 |

|                           |  |            |          |                                    |                          |         |        |        |         |         |        |        |        |
|---------------------------|--|------------|----------|------------------------------------|--------------------------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>prot-a-2730</b>        | Sialic acid-binding Ig-like lectin 8                                   | acute RITs | European | immunity<br>Infection and immunity | 23IVW                    | 0.0333  | 0.0146 | 0.0229 | 0.0046  | 0.1020  | 1.0338 | 1.0046 | 1.0639 |
| <b>prot-a-2655</b>        | Signal peptide, CUB and EGF-like domain-containing protein 1           | acute RITs | European | Infection and immunity             | 15IVW<br>(fixed effects) | -0.0442 | 0.0205 | 0.0311 | -0.0843 | -0.0040 | 0.9568 | 0.9191 | 0.9960 |
| <b>prot-a-2775</b>        | Single-pass membrane and coiled-coil domain-containing protein 2       | acute RITs | European | Infection and immunity             | 16IVW                    | 0.0564  | 0.0220 | 0.0105 | 0.0132  | 0.1755  | 1.0580 | 1.0133 | 1.1047 |
| <b>prot-a-2714</b>        | Small glutamine-rich tetratricopeptide repeat-containing protein alpha | acute RITs | European | Infection and immunity             | 20IVW                    | -0.0445 | 0.0182 | 0.0145 | -0.0802 | 0.0198  | 0.9565 | 0.9229 | 0.9912 |
| <b>prot-a-2763</b>        | Sodium- and chloride-dependent glycine transporter 1                   | acute RITs | European | Infection and immunity             | 13IVW<br>(fixed effects) | 0.0483  | 0.0224 | 0.0311 | 0.0044  | 0.0923  | 1.0495 | 1.0044 | 1.0967 |
| <b>prot-a-200</b>         | Sodium/potassium-transporting ATPase subunit beta-2                    | acute RITs | European | Infection and immunity             | 19IVW                    | -0.0341 | 0.0161 | 0.0338 | -0.0656 | 0.0290  | 0.9665 | 0.9365 | 0.9974 |
| <b>prot-a-352</b>         | Soluble calcium-activated nucleotidase 1                               | acute RITs | European | Infection and immunity             | 17IVW<br>(fixed effects) | 0.0401  | 0.0204 | 0.0498 | 0.0000  | 0.0802  | 1.0409 | 1.0000 | 1.0835 |
| <b>prot-a-2795</b>        | Sorting nexin-7  | acute RITs | European | Infection and immunity             | 24IVW                    | 0.0413  | 0.0168 | 0.0139 | 0.0084  | 0.1712  | 1.0422 | 1.0084 | 1.0771 |
| <b>prot-a-2804</b>        | Sperm acrosome membrane-associated protein 3                           | acute RITs | European | Infection and immunity             | 19IVW                    | -0.0325 | 0.0159 | 0.0413 | -0.0637 | -0.0156 | 0.9680 | 0.9382 | 0.9987 |
| <b>prot-b-68</b>          | spondin 1  | acute RITs | European | Infection and immunity             | 4IVW                     | 0.0202  | 0.0101 | 0.0443 | 0.0005  | 0.0401  | 1.0204 | 1.0005 | 1.0407 |
| <b>ebi-a-GCST90002074</b> | SSC-A on CD14+ monocyte  | acute RITs | European | Infection and immunity             | 19IVW                    | -0.0224 | 0.0114 | 0.0498 | -0.0449 | 0.0155  | 0.9778 | 0.9561 | 1.0000 |
| <b>ebi-a-GCST90002081</b> | SSC-A on CD4+ T cell   | acute RITs | European | Infection and immunity             | 20Weighted median        | -0.0480 | 0.0242 | 0.0468 | -0.0953 | -0.0007 | 0.9531 | 0.9091 | 0.9993 |
| <b>ebi-a-GCST90002079</b> | SSC-A on lymphocyte  | acute RITs | European | Infection and immunity             | 17Weighted median        | -0.0553 | 0.0275 | 0.0446 | -0.1092 | -0.0013 | 0.9462 | 0.8965 | 0.9987 |
| <b>ebi-a-GCST90019393</b> | Stromal cell-derived factor 2 measurement                              | acute RITs | European | Infection and immunity             | 15IVW<br>(fixed effects) | 0.0542  | 0.0219 | 0.0134 | 0.0112  | 0.0972  | 1.0557 | 1.0113 | 1.1021 |
| <b>prot-a-2468</b>        | Sulfhydryl oxidase 1   | acute RITs | European | Infection and immunity             | 16IVW                    | 0.0457  | 0.0194 | 0.0186 | 0.0076  | 0.1828  | 1.0468 | 1.0077 | 1.0874 |
| <b>prot-a-2894</b>        | Sulfotransferase 4A1   | acute RITs | European | Infection and immunity             | 20IVW                    | 0.0447  | 0.0197 | 0.0235 | 0.0060  | 0.1386  | 1.0457 | 1.0060 | 1.0869 |
| <b>prot-a-2901</b>        | Sushi domain-containing protein 1                                      | acute RITs | European | Infection and immunity             | 22IVW                    | 0.0360  | 0.0170 | 0.0349 | 0.0025  | 0.0880  | 1.0366 | 1.0025 | 1.0718 |
| <b>prot-a-2885</b>        | Syntaxin-1A  | acute RITs | European | Infection and immunity             | 21IVW<br>(fixed effects) | -0.0290 | 0.0147 | 0.0479 | -0.0577 | -0.0003 | 0.9714 | 0.9439 | 0.9997 |
| <b>prot-a-2933</b>        | TATA-box-binding protein   | acute RITs | European | Infection and immunity             | 19IVW<br>(fixed effects) | 0.0412  | 0.0181 | 0.0227 | 0.0058  | 0.0767  | 1.0421 | 1.0058 | 1.0797 |
| <b>prot-a-3068</b>        | Tenascin-R   | acute RITs | European | Infection and immunity             | 22IVW                    | 0.0481  | 0.0158 | 0.0024 | 0.0171  | 0.1250  | 1.0492 | 1.0172 | 1.0823 |
| <b>prot-a-3084</b>        | Thiamin pyrophosphokinase 1  | acute RITs | European | Infection and immunity             | 17IVW                    | -0.0537 | 0.0211 | 0.0111 | -0.0951 | -0.0122 | 0.9477 | 0.9093 | 0.9878 |
| <b>prot-a-3102</b>        | Thyrotropin-releasing hormone  | acute RITs | European | Infection and immunity             | 23IVW<br>(fixed effects) | -0.0355 | 0.0172 | 0.0388 | -0.0691 | -0.0018 | 0.9652 | 0.9332 | 0.9982 |
| <b>prot-a-3076</b>        | Torsin-1A-interacting protein 1  | acute RITs | European | Infection and immunity             | 19IVW                    | 0.0280  | 0.0142 | 0.0483 | 0.0002  | 0.1247  | 1.0284 | 1.0002 | 1.0574 |

|                           |  |            |          |                        |                       |         |        |        |         |         |        |        |        |  |
|---------------------------|--|------------|----------|------------------------|-----------------------|---------|--------|--------|---------|---------|--------|--------|--------|--|
|                           |  |            |          | immunity               |                       |         |        |        |         |         |        |        |        |  |
| <b>prot-a-3115</b>        | TPA-induced transmembrane protein                              | acute RITs | European | Infection and immunity | 12IVW                 | -0.0486 | 0.0247 | 0.0488 | -0.0970 | 0.1896  | 0.9525 | 0.9075 | 0.9997 |  |
| <b>prot-a-2963</b>        | Transforming growth factor beta-1-induced transcript 1 protein | acute RITs | European | Infection and immunity | 20IVW (fixed effects) | 0.0390  | 0.0177 | 0.0278 | 0.0043  | 0.0737  | 1.0398 | 1.0043 | 1.0765 |  |
| <b>prot-a-918</b>         | Translation initiation factor eIF-2B subunit alpha             | acute RITs | European | Infection and immunity | 13IVW (fixed effects) | -0.0405 | 0.0193 | 0.0361 | -0.0784 | -0.0026 | 0.9603 | 0.9246 | 0.9974 |  |
| <b>prot-a-2844</b>        | Translocon-associated protein subunit alpha                    | acute RITs | European | Infection and immunity | 14MR Egger            | 0.1558  | 0.0688 | 0.0428 | 0.0210  | 0.2906  | 1.1686 | 1.0212 | 1.3373 |  |
| <b>prot-a-2992</b>        | Transmembrane and coiled-coil domain-containing protein 5A     | acute RITs | European | Infection and immunity | 29IVW                 | 0.0307  | 0.0150 | 0.0414 | 0.0012  | 0.2822  | 1.0312 | 1.0012 | 1.0620 |  |
| <b>prot-a-2993</b>        | Transmembrane emp24 domain-containing protein 10               | acute RITs | European | Infection and immunity | 16IVW                 | -0.0299 | 0.0137 | 0.0295 | -0.0568 | -0.0183 | 0.9706 | 0.9448 | 0.9970 |  |
| <b>prot-a-285</b>         | Transmembrane protein C16orf54                                 | acute RITs | European | Infection and immunity | 17IVW                 | 0.0456  | 0.0209 | 0.0291 | 0.0046  | 0.1749  | 1.0467 | 1.0046 | 1.0905 |  |
| <b>prot-a-1883</b>        | tRNA (guanine-N(7)-)-methyltransferase                         | acute RITs | European | Infection and immunity | 17IVW (fixed effects) | 0.0330  | 0.0166 | 0.0470 | 0.0004  | 0.0656  | 1.0336 | 1.0004 | 1.0678 |  |
| <b>prot-a-3029</b>        | Tumor necrosis factor  | acute RITs | European | Infection and immunity | 16MR Egger            | -0.1416 | 0.0654 | 0.0483 | -0.2698 | -0.0133 | 0.8680 | 0.7635 | 0.9868 |  |
| <b>prot-a-3059</b>        | Tumor necrosis factor ligand superfamily member 15             | acute RITs | European | Infection and immunity | 22IVW                 | 0.0392  | 0.0177 | 0.0262 | 0.0046  | 0.1348  | 1.0400 | 1.0047 | 1.0766 |  |
| <b>prot-a-3128</b>        | TYMS opposite strand protein                                   | acute RITs | European | Infection and immunity | 19IVW (fixed effects) | 0.0392  | 0.0191 | 0.0396 | 0.0019  | 0.0766  | 1.0400 | 1.0019 | 1.0796 |  |
| <b>prot-a-3129</b>        | Tyrosine-protein kinase receptor TYRO3                         | acute RITs | European | Infection and immunity | 21MR Egger            | -0.1250 | 0.0584 | 0.0455 | -0.2395 | -0.0106 | 0.8825 | 0.7870 | 0.9895 |  |
| <b>prot-a-2582</b>        | Tyrosine-protein kinase transmembrane receptor ROR2            | acute RITs | European | Infection and immunity | 26IVW                 | -0.0312 | 0.0152 | 0.0408 | -0.0610 | -0.0209 | 0.9693 | 0.9408 | 0.9987 |  |
| <b>prot-a-598</b>         | UMP-CMP kinase   | acute RITs | European | Infection and immunity | 18IVW (fixed effects) | -0.0455 | 0.0188 | 0.0155 | -0.0824 | -0.0087 | 0.9555 | 0.9209 | 0.9914 |  |
| <b>prot-a-295</b>         | Uncharacterized protein C1orf115                               | acute RITs | European | Infection and immunity | 25IVW                 | 0.0334  | 0.0162 | 0.0390 | 0.0017  | 0.1656  | 1.0340 | 1.0017 | 1.0673 |  |
| <b>prot-a-311</b>         | Uncharacterized protein C2orf66                                | acute RITs | European | Infection and immunity | 18IVW (fixed effects) | -0.0336 | 0.0155 | 0.0299 | -0.0640 | -0.0033 | 0.9669 | 0.9380 | 0.9967 |  |
| <b>prot-a-3155</b>        | UTP--glucose-1-phosphate uridylyltransferase                   | acute RITs | European | Infection and immunity | 13IVW                 | 0.0522  | 0.0225 | 0.0207 | 0.0080  | 0.2432  | 1.0535 | 1.0080 | 1.1011 |  |
| <b>prot-a-3197</b>        | Vascular endothelial growth factor A, isoform 121              | acute RITs | European | Infection and immunity | 19Weighted median     | 0.0271  | 0.0117 | 0.0202 | 0.0042  | 0.0500  | 1.0275 | 1.0042 | 1.0513 |  |
| <b>prot-a-3197</b>        | Vascular endothelial growth factor A, isoform 121              | acute RITs | European | Infection and immunity | 19Weighted mode       | 0.0266  | 0.0126 | 0.0491 | 0.0019  | 0.0513  | 1.0270 | 1.0019 | 1.0527 |  |
| <b>ebi-a-GCST004422</b>   | Vascular endothelial growth factor levels                      | acute RITs | European | Infection and immunity | 16Weighted median     | 0.0368  | 0.0173 | 0.0340 | 0.0028  | 0.0708  | 1.0375 | 1.0028 | 1.0733 |  |
| <b>ebi-a-GCST90011995</b> | Vascular endothelial growth factor levels                      | acute RITs | European | Infection and immunity | 17MR Egger            | 0.0551  | 0.0242 | 0.0375 | 0.0078  | 0.1024  | 1.0567 | 1.0078 | 1.1079 |  |
| <b>ebi-a-GCST90011995</b> | Vascular endothelial growth factor levels                      | acute RITs | European | Infection and immunity | 17Weighted median     | 0.0442  | 0.0188 | 0.0190 | 0.0073  | 0.0811  | 1.0452 | 1.0073 | 1.0844 |  |
| <b>ebi-a-GCST90011995</b> | Vascular endothelial growth factor levels                      | acute RITs | European | Infection and immunity | 17Weighted mode       | 0.0426  | 0.0189 | 0.0387 | 0.0055  | 0.0796  | 1.0435 | 1.0055 | 1.0829 |  |
| <b>prot-a-3212</b>        | Vesicle transport through interaction with t-SNAREs            | acute RITs | European | Infection and immunity | 20IVW                 | -0.0416 | 0.0180 | 0.0207 | -0.0768 | 0.0827  | 0.9593 | 0.9260 | 0.9937 |  |

|                           |  |            |          |   |                          |         |        |        |         |         |              |        |                |
|---------------------------|--|------------|----------|---|--------------------------|---------|--------|--------|---------|---------|--------------|--------|----------------|
| <b>prot-a-1179</b>        | homolog 1A<br>Vitamin D-binding protein          | acute RITs | European | Infection and immunity                      | 17IVW<br>(fixed effects) | 0.0416  | 0.0204 | 0.0415 | 0.0016  | 0.0815  | 1.0424       | 1.0016 | 1.0850         |
| <b>prot-a-3230</b>        | Wnt inhibitory factor 1                          | acute RITs | European | Infection and immunity                      | 17IVW                    | -0.0489 | 0.0214 | 0.0221 | -0.0909 | 0.0058  | 0.9522       | 0.9132 | 0.9930         |
| <b>prot-a-3231</b>        | WNT1-inducible-signaling pathway protein 1       | acute RITs | European | Infection and immunity                      | 17IVW                    | -0.0244 | 0.0118 | 0.0382 | -0.0475 | 0.0484  | 0.9759       | 0.9536 | 0.9987         |
| <b>prot-a-3276</b>        | Zinc finger protein 774                          | acute RITs | European | Infection and immunity                      | 27IVW                    | 0.0334  | 0.0160 | 0.0372 | 0.0020  | 0.0642  | 1.0339       | 1.0020 | 1.0669         |
| <b>prot-a-208</b>         | Zinc-alpha-2-glycoprotein                        | acute RITs | European | Infection and immunity                      | 16MR<br>Egger            | 0.1106  | 0.0486 | 0.0391 | 0.0153  | 0.2059  | 1.1170       | 1.0155 | 1.2286         |
| <b>ebi-a-GCST90014002</b> | C reactive protein levels (UKB data field 30710) | acute RITs | European | Infection and immunity                      | 392IVW                   | 0.0626  | 0.0246 | 0.0110 | 0.0143  | 0.1315  | 1.0646       | 1.0144 | 1.1172         |
| <b>ukb-a-28</b>           | Average weekly beer plus cider intake            | acute RITs | European | Lifestyle, occupation and family background | 89MR<br>Egger            | 0.8231  | 0.3534 | 0.0222 | 0.1303  | 1.5158  | 2.2775       | 1.1392 | 4.5532         |
| <b>ukb-b-1707</b>         | Average weekly spirits intake                    | acute RITs | European | Lifestyle, occupation and family background | 54IVW                    | -0.2919 | 0.1250 | 0.0195 | -0.5369 | 0.9849  | 0.7468       | 0.5845 | 0.9542         |
| <b>ukb-b-10054</b>        | Cheese consumers                                 | acute RITs | European | Lifestyle, occupation and family background | 21IVW                    | 0.4135  | 0.1732 | 0.0170 | 0.0740  | 0.7902  | 1.5122       | 1.0768 | 2.1235         |
| <b>ukb-b-1814</b>         | Cheesecake intake                                | acute RITs | European | Lifestyle, occupation and family background | 23IVW<br>(fixed effects) | -0.5563 | 0.2696 | 0.0391 | -1.0847 | -0.0279 | 0.5733       | 0.3380 | 0.9725         |
| <b>ukb-b-1160</b>         | Chocolate-covered raisin intake                  | acute RITs | European | Lifestyle, occupation and family background | 27MR<br>Egger            | 1.4227  | 0.5772 | 0.0209 | 0.2914  | 2.5540  | 4.1484       | 1.3384 | 12.8582        |
| <b>ukb-b-8089</b>         | Cooked vegetable intake                          | acute RITs | European | Lifestyle, occupation and family background | 120IVW                   | -0.2135 | 0.1036 | 0.0394 | -0.4165 | 0.9234  | 0.8078       | 0.6593 | 0.9896         |
| <b>ukb-b-5382</b>         | Eggs in sandwiches intake                        | acute RITs | European | Lifestyle, occupation and family background | 13IVW                    | -0.8319 | 0.3794 | 0.0283 | -1.5755 | -0.0883 | 0.4352       | 0.2069 | 0.9154         |
| <b>ukb-b-14351</b>        | Grapefruit juice intake                          | acute RITs | European | Lifestyle, occupation and family background | 22IVW<br>(fixed effects) | -0.5174 | 0.2487 | 0.0375 | -1.0049 | -0.0298 | 0.5961       | 0.3661 | 0.9706         |
| <b>ukb-b-18079</b>        | Low fat hard cheese intake                       | acute RITs | European | Lifestyle, occupation and family background | 11MR<br>Egger            | 1.7742  | 0.7628 | 0.0451 | 0.2791  | 3.2693  | 5.8954       | 1.3219 | 26.2921        |
| <b>ukb-d-1418_1</b>       | Milk type used: Full cream                       | acute RITs | European | Lifestyle, occupation and family background | 38MR<br>Egger            | 5.0999  | 2.3503 | 0.0367 | 0.4933  | 9.7066  | 164.01<br>12 | 1.6377 | 16425.0<br>411 |
| <b>ukb-d-1418_5</b>       | Milk type used: Other type of milk               | acute RITs | European | Lifestyle, occupation and                   | 15IVW<br>(fixed          | 4.9530  | 2.1399 | 0.0206 | 0.7589  | 9.1471  | 141.60<br>37 | 2.1360 | 9387.56<br>27  |

|                          |  |            |                                    |   |                      |         |        |        |         |         |        |        |         |  |
|--------------------------|--|------------|------------------------------------|---|----------------------|---------|--------|--------|---------|---------|--------|--------|---------|--|
|                          |  |            |                                    | family background                           | effects)             |         |        |        |         |         |        |        |         |  |
| <b>ukb-e-6179_p3_CSA</b> | Mineral and other dietary supplements  | acute RITs | South Asian                        | Lifestyle, occupation and family background | 12IVW                | 0.0416  | 0.0109 | 0.0001 | 0.0202  | 0.1107  | 1.0424 | 1.0204 | 1.0649  |  |
| <b>ukb-e-1389_AFR</b>    | Pork intake  | acute RITs | African American or Afro-Caribbean | Lifestyle, occupation and family background | 23IVW                | -0.0480 | 0.0177 | 0.0066 | -0.0826 | -0.0272 | 0.9531 | 0.9207 | 0.9867  |  |
| <b>ukb-b-8006</b>        | Poultry intake   | acute RITs | European                           | Lifestyle, occupation and family background | 93MR Egger           | 0.9378  | 0.4339 | 0.0333 | 0.0874  | 1.7882  | 2.5544 | 1.0913 | 5.9790  |  |
| <b>ukb-b-337</b>         | Pure fruit/vegetable juice intake  | acute RITs | European                           | Lifestyle, occupation and family background | 17IVW                | -0.2804 | 0.1281 | 0.0287 | -0.5316 | 0.8621  | 0.7555 | 0.5877 | 0.9712  |  |
| <b>ukb-e-1478_AFR</b>    | Salt added to food   | acute RITs | African American or Afro-Caribbean | Lifestyle, occupation and family background | 20IVW                | -0.0423 | 0.0200 | 0.0347 | -0.0816 | 0.0590  | 0.9586 | 0.9216 | 0.9970  |  |
| <b>ukb-b-5847</b>        | Sausage intake   | acute RITs | European                           | Lifestyle, occupation and family background | 13IVW                | -0.3442 | 0.1456 | 0.0181 | -0.6296 | -0.0588 | 0.7088 | 0.5328 | 0.9429  |  |
| <b>ukb-b-998</b>         | Soya dessert intake  | acute RITs | European                           | Lifestyle, occupation and family background | 23IVW                | 1.7758  | 0.5492 | 0.0012 | 0.6993  | 3.5987  | 5.9051 | 2.0123 | 17.3283 |  |
| <b>ukb-b-12067</b>       | Sponge pudding intake  | acute RITs | European                           | Lifestyle, occupation and family background | 17IVW                | 1.0635  | 0.3825 | 0.0054 | 0.3138  | 2.4618  | 2.8964 | 1.3686 | 6.1299  |  |
| <b>ukb-b-15984</b>       | Thickness of butter/margarine spread on sliced bread: thin                                     | acute RITs | European                           | Lifestyle, occupation and family background | 16IVW                | 0.5162  | 0.2368 | 0.0293 | 0.0520  | 3.5807  | 1.6757 | 1.0534 | 2.6657  |  |
| <b>ukb-b-16523</b>       | Type of meals eaten: Bought sandwiches   | acute RITs | European                           | Lifestyle, occupation and family background | 5IVW (fixed effects) | -1.1404 | 0.5372 | 0.0338 | -2.1934 | -0.0874 | 0.3197 | 0.1115 | 0.9163  |  |
| <b>ukb-b-6448</b>        | Type of sliced bread eaten: mixed  | acute RITs | European                           | Lifestyle, occupation and family background | 18IVW                | -0.4512 | 0.2233 | 0.0433 | -0.8889 | -0.0136 | 0.6368 | 0.4111 | 0.9865  |  |
| <b>ukb-b-3828</b>        | Types of spread used on bread/crackers: Normal fat polyunsaturated margarine on bread/crackers | acute RITs | European                           | Lifestyle, occupation and family background | 5IVW                 | -1.9353 | 0.8543 | 0.0235 | -3.6098 | -0.2607 | 0.1444 | 0.0271 | 0.7705  |  |
| <b>ukb-b-11725</b>       | Types of spreads/sauces consumed: Tomato-based sauce   | acute RITs | European                           | Lifestyle, occupation and family background | 4IVW                 | 1.7359  | 0.8742 | 0.0471 | 0.0225  | 11.8375 | 5.6741 | 1.0227 | 31.4803 |  |
| <b>ukb-b-3383</b>        | Vegetarian sausages/burgers intake   | acute RITs | European                           | Lifestyle, occupation and                   | 22IVW                | -0.6777 | 0.2948 | 0.0215 | -1.2554 | -0.2232 | 0.5078 | 0.2850 | 0.9049  |  |

|                            |  |            |             |   |                       |         |        |        |         |         |         |        |         |  |
|----------------------------|--|------------|-------------|---|-----------------------|---------|--------|--------|---------|---------|---------|--------|---------|--|
|                            |  |            |             | family background                           |                       |         |        |        |         |         |         |        |         |  |
| <b>ukb-b-5427</b>          | White fish intake                                  | acute RITs | European    | Lifestyle, occupation and family background | 7IVW                  | -0.7400 | 0.3263 | 0.0233 | -1.3794 | -0.1005 | 0.4771  | 0.2517 | 0.9044  |  |
| <b>ukb-b-2375</b>          | Whole-wheat cereal intake                          | acute RITs | European    | Lifestyle, occupation and family background | 17IVW                 | 0.2940  | 0.1267 | 0.0203 | 0.0457  | 0.5423  | 1.3418  | 1.0468 | 1.7200  |  |
| <b>ukb-b-7753</b>          | Yogurt intake                                      | acute RITs | European    | Lifestyle, occupation and family background | 11IVW (fixed effects) | -0.2525 | 0.1155 | 0.0288 | -0.4788 | -0.0261 | 0.7769  | 0.6195 | 0.9742  |  |
| <b>ukb-e-6164_p6_CSA</b>   | Types of physical activity in last 4 weeks         | acute RITs | South Asian | Lifestyle, occupation and family background | 7IVW                  | 0.0314  | 0.0144 | 0.0288 | 0.0033  | 0.1165  | 1.0319  | 1.0033 | 1.0614  |  |
| <b>ukb-d-22612_2</b>       | Worked with materials containing asbestos: Often   | acute RITs | European    | Lifestyle, occupation and family background | 16IVW                 | 2.5025  | 0.8295 | 0.0026 | 0.8766  | 4.9645  | 12.2125 | 2.4028 | 62.0713 |  |
| <b>ukb-d-22609_0</b>       | Workplace very dusty: Rarely/never                 | acute RITs | European    | Lifestyle, occupation and family background | 19IVW                 | -0.8816 | 0.3183 | 0.0056 | -1.5055 | 0.1516  | 0.4141  | 0.2219 | 0.7728  |  |
| <b>ukb-e-20107_p11_CSA</b> | Illnesses of father                                | acute RITs | South Asian | Lifestyle, occupation and family background | 18IVW (fixed effects) | -0.0112 | 0.0056 | 0.0468 | -0.0221 | -0.0002 | 0.9889  | 0.9781 | 0.9998  |  |
| <b>ukb-a-201</b>           | Illnesses of father: Heart disease                 | acute RITs | European    | Lifestyle, occupation and family background | 67IVW                 | 0.3256  | 0.1641 | 0.0472 | 0.0040  | 0.6972  | 1.3849  | 1.0040 | 1.9102  |  |
| <b>ukb-a-202</b>           | Illnesses of father: None of the above (group 1)   | acute RITs | European    | Lifestyle, occupation and family background | 33IVW                 | -0.4900 | 0.2444 | 0.0450 | -0.9690 | -0.0109 | 0.6126  | 0.3794 | 0.9892  |  |
| <b>ukb-b-15169</b>         | Illnesses of father: None of the above (group 1)   | acute RITs | European    | Lifestyle, occupation and family background | 45IVW                 | -0.5935 | 0.2913 | 0.0416 | -1.1645 | 1.8084  | 0.5524  | 0.3121 | 0.9778  |  |
| <b>ukb-b-10415</b>         | Illnesses of father: None of the above (group 2)   | acute RITs | European    | Lifestyle, occupation and family background | 36IVW                 | 0.6426  | 0.3079 | 0.0368 | 0.0392  | 2.0214  | 1.9015  | 1.0400 | 3.4766  |  |
| <b>ukb-b-4024</b>          | Illnesses of mother: Stroke                        | acute RITs | European    | Lifestyle, occupation and family background | 19IVW                 | 1.6110  | 0.6089 | 0.0082 | 0.4175  | 2.8045  | 5.0079  | 1.5182 | 16.5196 |  |
| <b>ukb-b-18042</b>         | Illnesses of siblings: Diabetes                    | acute RITs | European    | Lifestyle, occupation and family background | 80IVW                 | 0.5700  | 0.2856 | 0.0460 | 0.0102  | 2.2971  | 1.7682  | 1.0102 | 3.0948  |  |
| <b>ukb-b-10783</b>         | Illnesses of siblings: None of the above (group 2) | acute RITs | European    | Lifestyle, occupation and                   | 35IVW                 | -0.7403 | 0.3594 | 0.0394 | -1.4447 | 1.2650  | 0.4770  | 0.2358 | 0.9647  |  |

|                             |  |            |                                    |   |       |         |        |        |         |         |         |        |         |  |
|-----------------------------|--|------------|------------------------------------|---|-------|---------|--------|--------|---------|---------|---------|--------|---------|--|
|                             |  |            |                                    | family background                           |       |         |        |        |         |         |         |        |         |  |
| <b>ukb-a-304</b>            | Number of children fathered  | acute RITs | European                           | Lifestyle, occupation and family background | 33IVW | -0.2582 | 0.1136 | 0.0231 | -0.4809 | 0.3153  | 0.7724  | 0.6182 | 0.9652  |  |
| <b>ebi-a-GCST006702</b>     | Parental longevity (combined parental age at death)  | acute RITs | European                           | Lifestyle, occupation and family background | 60IVW | -0.1838 | 0.0716 | 0.0102 | -0.3241 | 0.2398  | 0.8321  | 0.7232 | 0.9574  |  |
| <b>ebi-a-GCST006699</b>     | Parental longevity (mother's age at death)   | acute RITs | European                           | Lifestyle, occupation and family background | 36IVW | 0.2275  | 0.1106 | 0.0397 | 0.0108  | 1.1203  | 1.2555  | 1.0108 | 1.5593  |  |
| <b>ebi-a-GCST006696</b>     | Parental longevity (mother's attained age)   | acute RITs | European                           | Lifestyle, occupation and family background | 55IVW | -0.1951 | 0.0974 | 0.0452 | -0.3859 | -0.1457 | 0.8228  | 0.6798 | 0.9958  |  |
| <b>ukb-a-406</b>            | Current employment status: Looking after home and/or family  | acute RITs | European                           | Lifestyle, occupation and family background | 17IVW | 1.8398  | 0.9381 | 0.0499 | 0.0011  | 4.4174  | 6.2956  | 1.0011 | 39.5910 |  |
| <b>ukb-d-22601_41123205</b> | Job coding: civil service administrative officer or assistant or clerk, tax collector, prison service clerk, law courts clerk  | acute RITs | European                           | Lifestyle, occupation and family background | 26IVW | -0.8542 | 0.4024 | 0.0338 | -1.6429 | 2.9368  | 0.4256  | 0.1934 | 0.9366  |  |
| <b>ukb-d-22601_35393271</b> | Job coding: management information officer, conference/events co-ordinator/organiser, exhibition officer, work study engineer/officer/analyst, contract adviser/agent, election agent, business system analyst | acute RITs | European                           | Lifestyle, occupation and family background | 22IVW | 1.4220  | 0.6368 | 0.0255 | 0.1739  | 5.2473  | 4.1454  | 1.1899 | 14.4419 |  |
| <b>ukb-d-22601_23193405</b> | Job coding: other teaching professional including private tutor, tefl (teaching english as a foreign language) teacher; tutor at adult education centre, etc.  | acute RITs | European                           | Lifestyle, occupation and family background | 20IVW | 2.8991  | 0.8189 | 0.0004 | 1.2940  | 6.6754  | 18.1570 | 3.6473 | 90.3888 |  |
| <b>ukb-d-22601_23213026</b> | Job coding: scientific researcher, scientific officer, medical research associate, experimental officer  | acute RITs | European                           | Lifestyle, occupation and family background | 23IVW | -1.6119 | 0.8022 | 0.0445 | -3.1843 | 5.8148  | 0.1995  | 0.0414 | 0.9612  |  |
| <b>ukb-d-22601_23163403</b> | Job coding: special needs teaching professional (including head teacher)   | acute RITs | European                           | Lifestyle, occupation and family background | 19IVW | -2.4505 | 1.0982 | 0.0257 | -4.6030 | 5.4522  | 0.0862  | 0.0100 | 0.7423  |  |
| <b>ukb-e-826_AFR</b>        | Job involves shift work  | acute RITs | African American or Afro-Caribbean | Lifestyle, occupation and family background | 15IVW | -0.0277 | 0.0125 | 0.0269 | -0.0522 | 0.0252  | 0.9727  | 0.9491 | 0.9968  |  |
| <b>ukb-d-22617_1151</b>     | Job SOC coding: Financial institution managers   | acute RITs | European                           | Lifestyle, occupation and family background | 21IVW | -2.5693 | 0.9299 | 0.0057 | -4.3920 | 5.9452  | 0.0766  | 0.0124 | 0.4740  |  |

|                         |   |            |                            |   |                       |         |        |        |         |         |        |        |         |
|-------------------------|---|------------|----------------------------|---|-----------------------|---------|--------|--------|---------|---------|--------|--------|---------|
| <b>ukb-d-22617_2321</b> | Job SOC coding: Scientific researchers  | acute RITs | European                   | Lifestyle, occupation and family background | 26IVW                 | -1.7650 | 0.8652 | 0.0413 | -3.4608 | 5.4610  | 0.1712 | 0.0314 | 0.9331  |
| <b>ukb-d-22617_3231</b> | Job SOC coding: Youth and community workers   | acute RITs | European                   | Lifestyle, occupation and family background | 24IVW (fixed effects) | 1.7189  | 0.8373 | 0.0401 | 0.0778  | 3.3599  | 5.5781 | 1.0809 | 28.7875 |
| <b>ukb-b-18099</b>      | Qualifications: O levels/GCSEs or equivalent  | acute RITs | European                   | Lifestyle, occupation and family background | 134IVW                | 0.4338  | 0.1597 | 0.0066 | 0.1208  | 1.9383  | 1.5431 | 1.1284 | 2.1102  |
| <b>ukb-a-368</b>        | Work/job satisfaction   | acute RITs | European                   | Lifestyle, occupation and family background | 24IVW                 | 0.2203  | 0.0902 | 0.0146 | 0.0436  | 0.3851  | 1.2465 | 1.0445 | 1.4875  |
| <b>ukb-b-5779</b>       | Alcohol intake frequency.   | acute RITs | European                   | Lifestyle, occupation and family background | 295Weighted mode      | -0.1909 | 0.0854 | 0.0262 | -0.3583 | -0.0235 | 0.8262 | 0.6988 | 0.9768  |
| <b>ukb-a-32</b>         | Alcohol intake versus 10 years previously   | acute RITs | European                   | Lifestyle, occupation and family background | 68MR Egger            | -1.0401 | 0.4681 | 0.0297 | -1.9576 | -0.1227 | 0.3534 | 0.1412 | 0.8845  |
| <b>ukb-e-1628_CSA</b>   | Alcohol intake versus 10 years previously   | acute RITs | South Asian                | Lifestyle, occupation and family background | 21IVW                 | -0.0612 | 0.0278 | 0.0274 | -0.1156 | 0.0427  | 0.9406 | 0.8908 | 0.9932  |
| <b>ieu-b-4825</b>       | Cigarettes smoked per day   | acute RITs | European                   | Lifestyle, occupation and family background | 16Weighted median     | 0.0121  | 0.0056 | 0.0314 | 0.0011  | 0.0232  | 1.0122 | 1.0011 | 1.0235  |
| <b>ukb-b-1572</b>       | Difficulty not smoking for 1 day  | acute RITs | European                   | Lifestyle, occupation and family background | 22IVW                 | 0.1332  | 0.0523 | 0.0109 | 0.0307  | 0.5096  | 1.1425 | 1.0312 | 1.2658  |
| <b>ukb-a-342</b>        | Number of cigarettes currently smoked daily (current cigarette smokers)             | acute RITs | European                   | Lifestyle, occupation and family background | 24IVW                 | 0.1197  | 0.0531 | 0.0241 | 0.0157  | 0.4898  | 1.1271 | 1.0158 | 1.2507  |
| <b>ukb-a-238</b>        | Pack years adult smoking as proportion of life span exposed to smoking PREVIEW ONLY | acute RITs | European                   | Lifestyle, occupation and family background | 63MR Egger            | 0.2548  | 0.1227 | 0.0421 | 0.0143  | 0.4953  | 1.2902 | 1.0144 | 1.6409  |
| <b>ukb-a-237</b>        | Pack years of smoking PREVIEW ONLY  | acute RITs | European                   | Lifestyle, occupation and family background | 62IVW                 | 0.0985  | 0.0476 | 0.0383 | 0.0053  | 0.1918  | 1.1036 | 1.0053 | 1.2114  |
| <b>ebi-a-GCST008027</b> | Smoking behavior (cigarettes smoked per day)  | acute RITs | Hispanic or Latin American | Lifestyle, occupation and family background | 30IVW                 | 0.0874  | 0.0432 | 0.0429 | 0.0028  | 0.0472  | 1.0914 | 1.0028 | 1.1878  |
| <b>ieu-a-1010</b>       | Years of schooling  | acute RITs | European                   | Lifestyle, occupation and family background | 96IVW                 | -0.1079 | 0.0523 | 0.0391 | -0.2105 | 0.5593  | 0.8977 | 0.8102 | 0.9946  |

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|---------------------------|--|------------|------------------------------------|---|-----------------------|---------|--------|--------|---------|---------|--------|--------|---------|
| <b>ukb-e-Z88_AFR</b>      | Z88 Personal history of allergy to drugs, medicaments and biological substances  | acute RITs | African American or Afro-Caribbean | Lifestyle, occupation and family background | 19IVW                 | 0.0111  | 0.0056 | 0.0463 | 0.0002  | 0.0557  | 1.0111 | 1.0002 | 1.0222  |
| <b>ukb-e-1677_CSA</b>     | Breastfed as a baby  | acute RITs | South Asian                        | Lifestyle, occupation and family background | 8IVW                  | 0.0111  | 0.0054 | 0.0412 | 0.0004  | 0.0250  | 1.0112 | 1.0004 | 1.0220  |
| <b>ukb-e-1468_p1_CSA</b>  | Cereal type  | acute RITs | South Asian                        | Lifestyle, occupation and family background | 23IVW                 | 0.0239  | 0.0072 | 0.0009 | 0.0098  | 0.0422  | 1.0242 | 1.0098 | 1.0388  |
| <b>ukb-e-24014_AFR</b>    | Close to major road  | acute RITs | African American or Afro-Caribbean | Lifestyle, occupation and family background | 16IVW                 | -0.0175 | 0.0081 | 0.0312 | -0.0334 | 0.0134  | 0.9827 | 0.9672 | 0.9984  |
| <b>ukb-e-894_AFR</b>      | Duration of moderate activity  | acute RITs | African American or Afro-Caribbean | Lifestyle, occupation and family background | 18IVW (fixed effects) | -0.0400 | 0.0202 | 0.0474 | -0.0796 | -0.0005 | 0.9608 | 0.9235 | 0.9995  |
| <b>ukb-e-874_p1_AFR</b>   | Duration of walks  | acute RITs | African American or Afro-Caribbean | Lifestyle, occupation and family background | 24IVW                 | -0.0286 | 0.0124 | 0.0207 | -0.0529 | 0.0116  | 0.9718 | 0.9485 | 0.9956  |
| <b>ukb-e-404_CSA</b>      | Duration to first press of snap-button in each round   | acute RITs | South Asian                        | Lifestyle, occupation and family background | 20IVW                 | 0.0478  | 0.0236 | 0.0425 | 0.0016  | 0.1360  | 1.0490 | 1.0016 | 1.0986  |
| <b>ukb-d-20411_0</b>      | Ever been injured or injured someone else through drinking alcohol: No   | acute RITs | European                           | Lifestyle, occupation and family background | 18IVW                 | -1.5032 | 0.5759 | 0.0090 | -2.6319 | 0.8239  | 0.2224 | 0.0719 | 0.6876  |
| <b>ieu-b-4860</b>         | Physical activity  | acute RITs | European                           | Lifestyle, occupation and family background | 20IVW (fixed effects) | 0.3953  | 0.1916 | 0.0391 | 0.0198  | 0.7708  | 1.4848 | 1.0200 | 2.1615  |
| <b>ebi-a-GCST90061410</b> | Physical activity (Total log acceleration 2am-4am)   | acute RITs | European                           | Lifestyle, occupation and family background | 27IVW                 | 0.1756  | 0.0802 | 0.0287 | 0.0183  | 0.1315  | 1.1919 | 1.0185 | 1.3949  |
| <b>ukb-a-421</b>          | Reason for glasses/contact lenses: For just reading/near work as you are getting older (called 'presbyopia')   | acute RITs | European                           | Lifestyle, occupation and family background | 43IVW                 | 1.1337  | 0.4626 | 0.0142 | 0.2271  | 4.1067  | 3.1072 | 1.2550 | 7.6932  |
| <b>ukb-a-420</b>          | Reason for glasses/contact lenses: For long-sightedness i.e. for distance and near but particularly for near tasks like reading (called 'hypermetropia') | acute RITs | European                           | Lifestyle, occupation and family background | 39IVW                 | 1.4000  | 0.6316 | 0.0266 | 0.1621  | 9.6602  | 4.0552 | 1.1760 | 13.9843 |
| <b>ukb-d-2664_5</b>       | Reason for reducing amount of alcohol drunk: Other reason  | acute RITs | European                           | Lifestyle, occupation and family background | 28IVW                 | -0.3661 | 0.1855 | 0.0484 | -0.7297 | -0.1109 | 0.6934 | 0.4821 | 0.9975  |
| <b>ukb-a-343</b>          | Time from waking to first cigarette  | acute RITs | European                           | Lifestyle, occupation and family background | 28Weighted median     | -0.1320 | 0.0477 | 0.0057 | -0.2255 | -0.0384 | 0.8764 | 0.7981 | 0.9624  |

|                             |   |            |                                    |  |     |                     |          |        |        |          |         |           |        |              |
|-----------------------------|---|------------|------------------------------------|--|-----|---------------------|----------|--------|--------|----------|---------|-----------|--------|--------------|
| <b>ukb-b-2732</b>           | Time from waking to first cigarette   | acute RITs | European                           | background Lifestyle, occupation and family background | 24  | Weighted median     | -0.1407  | 0.0589 | 0.0170 | -0.2563  | -0.0252 | 0.8687    | 0.7739 | 0.9751       |
| <b>ukb-a-7</b>              | Time spent driving  | acute RITs | European                           | background Lifestyle, occupation and family background | 47  | MR Egger            | -0.9471  | 0.4635 | 0.0469 | -1.8556  | -0.0385 | 0.3879    | 0.1564 | 0.9622       |
| <b>ukb-b-3709</b>           | Wants to stop smoking   | acute RITs | European                           | background Lifestyle, occupation and family background | 19  | IVW                 | -0.2099  | 0.0729 | 0.0040 | -0.3528  | 0.7417  | 0.8107    | 0.7027 | 0.9353       |
| <b>ebi-a-GCST90013919</b>   | Cholesterol lowering medication use (UKB data field 6177_1) (Firth correction)          | acute RITs | European                           | background Medication use and treatment                | 122 | IVW                 | 0.0393   | 0.0158 | 0.0131 | 0.0082   | 0.3863  | 1.0401    | 1.0083 | 1.0728       |
| <b>ebi-a-GCST90013969</b>   | Cholesterol lowering medication use (UKB data field 6177_1) (SPA correction)            | acute RITs | European                           | background Medication use and treatment                | 121 | IVW                 | 0.0402   | 0.0158 | 0.0110 | 0.0092   | 0.1424  | 1.0410    | 1.0092 | 1.0737       |
| <b>ukb-a-488</b>            | Medication for cholesterol blood pressure or diabetes: Cholesterol lowering medication  | acute RITs | European                           | background Medication use and treatment                | 94  | IVW (fixed effects) | 0.1837   | 0.0931 | 0.0485 | 0.0012   | 0.3662  | 1.2016    | 1.0012 | 1.4422       |
| <b>ukb-b-11740</b>          | Medication for cholesterol, blood pressure or diabetes: Cholesterol lowering medication | acute RITs | European                           | background Medication use and treatment                | 129 | IVW                 | 0.2404   | 0.0962 | 0.0124 | 0.0519   | 0.6031  | 1.2717    | 1.0532 | 1.5356       |
| <b>ukb-e-6153_p2_AFR</b>    | Medication for cholesterol, blood pressure, diabetes, or take exogenous hormones        | acute RITs | African American or Afro-Caribbean | background Medication use and treatment                | 21  | IVW (fixed effects) | 0.0127   | 0.0063 | 0.0442 | 0.0003   | 0.0250  | 1.0127    | 1.0003 | 1.0253       |
| <b>ebi-a-GCST90018984</b>   | Medication use (antihypertensives)  | acute RITs | European                           | background Medication use and treatment                | 53  | IVW                 | 0.0389   | 0.0190 | 0.0413 | 0.0015   | 0.1315  | 1.0396    | 1.0015 | 1.0792       |
| <b>ebi-a-GCST90018767</b>   | Medication use (calcium channel blockers)   | acute RITs | East Asian                         | background Medication use and treatment                | 68  | IVW (fixed effects) | 0.0505   | 0.0229 | 0.0277 | 0.0056   | 0.0954  | 1.0518    | 1.0056 | 1.1001       |
| <b>ebi-a-GCST90018985</b>   | Medication use (diuretics)  | acute RITs | European                           | background Medication use and treatment                | 207 | IVW                 | 0.0304   | 0.0150 | 0.0425 | 0.0010   | 0.1315  | 1.0309    | 1.0010 | 1.0617       |
| <b>ebi-a-GCST90018993</b>   | Medication use (drugs affecting bone structure and mineralization)                      | acute RITs | European                           | background Medication use and treatment                | 59  | IVW                 | 0.0346   | 0.0173 | 0.0454 | 0.0007   | 0.1315  | 1.0352    | 1.0007 | 1.0709       |
| <b>ukb-b-12753</b>          | Recent medication for hayfever or allergic rhinitis                                     | acute RITs | European                           | background Medication use and treatment                | 17  | IVW                 | -0.2684  | 0.1237 | 0.0300 | -0.5107  | 0.5313  | 0.7646    | 0.6001 | 0.9743       |
| <b>ukb-b-15918</b>          | Treatment speciality of consultant (recoded): Dermatology                               | acute RITs | European                           | background Medication use and treatment                | 30  | Weighted median     | -3.6432  | 1.7622 | 0.0387 | -7.0971  | -0.1892 | 0.0262    | 0.0008 | 0.8276       |
| <b>ukb-b-3255</b>           | Treatment speciality of consultant (recoded): Upper gastrointestinal surgery            | acute RITs | European                           | background Medication use and treatment                | 7   | IVW                 | -16.5261 | 6.1088 | 0.0068 | -28.4993 | -4.5529 | 0.0000    | 0.0000 | 0.0105       |
| <b>ukb-e-20003_p118_AFR</b> | Treatment/medication code   | acute RITs | African American or Afro-Caribbean | background Medication use and treatment                | 20  | IVW (fixed effects) | -0.0154  | 0.0074 | 0.0372 | -0.0298  | -0.0009 | 0.9847    | 0.9706 | 0.9991       |
| <b>ukb-b-9207</b>           | Treatment/medication code: amlodipine   | acute RITs | European                           | background Medication use and treatment                | 89  | IVW                 | 0.8756   | 0.4229 | 0.0384 | 0.0467   | 1.7044  | 2.4002    | 1.0478 | 5.4983       |
| <b>ukb-b-11862</b>          | Treatment/medication code: beconase 50micrograms nasal spray                            | acute RITs | European                           | background Medication use and treatment                | 10  | IVW                 | 8.3394   | 3.5026 | 0.0173 | 1.4742   | 56.4303 | 4185.4250 | 4.3675 | 4010986.2957 |

|                          |   |            |                                    |                              |                       |          |        |        |          |         |                |          |                  |
|--------------------------|---|------------|------------------------------------|------------------------------|-----------------------|----------|--------|--------|----------|---------|----------------|----------|------------------|
| <b>ukb-b-7385</b>        | Treatment/medication code: codeine                              | acute RITs | European                           | Medication use and treatment | 6IVW (fixed effects)  | 10.7788  | 5.4105 | 0.0464 | 0.1741   | 21.3834 | 47991.3786     | 1.1902   | 1935116309.0000  |
| <b>ukb-b-8668</b>        | Treatment/medication code: doxazosin                            | acute RITs | European                           | Medication use and treatment | 36IVW                 | 2.9459   | 1.4017 | 0.0356 | 0.1986   | 25.9528 | 19.0276        | 1.2197   | 296.8410         |
| <b>ukb-a-162</b>         | Treatment/medication code: perindopril                          | acute RITs | European                           | Medication use and treatment | 23Weighted median     | 4.6098   | 2.0604 | 0.0253 | 0.5714   | 8.6482  | 100.4627       | 1.7707   | 5699.8738        |
| <b>ukb-a-141</b>         | Treatment/medication code: prednisolone                         | acute RITs | European                           | Medication use and treatment | 15MR Egger            | 19.2935  | 8.3631 | 0.0382 | 2.9018   | 35.6852 | 239362625.6000 | 18.2066  | 3150000000.0000  |
| <b>ukb-b-11895</b>       | Treatment/medication code: ramipril                             | acute RITs | European                           | Medication use and treatment | 65IVW                 | 1.0952   | 0.4980 | 0.0279 | 0.1190   | 4.8634  | 2.9897         | 1.1264   | 7.9351           |
| <b>ukb-a-130</b>         | Treatment/medication code: senna                                | acute RITs | European                           | Medication use and treatment | 27IVW                 | -8.1696  | 3.6370 | 0.0247 | -15.2981 | 14.0181 | 0.0003         | 0.0000   | 0.3531           |
| <b>ukb-b-16956</b>       | Treatment/medication code: thyroxine sodium                     | acute RITs | European                           | Medication use and treatment | 11IVW                 | 13.8864  | 4.6817 | 0.0030 | 4.7102   | 62.8267 | 1073421.5753   | 111.0693 | 10374006079.1460 |
| <b>ukb-a-120</b>         | Treatment/medication code: tranexamic acid                      | acute RITs | European                           | Medication use and treatment | 23Weighted median     | -14.1893 | 7.1441 | 0.0470 | -28.1917 | -0.1869 | 0.0000         | 0.0000   | 0.8295           |
| <b>ukb-b-17616</b>       | Treatment/medication code: xalatan 0.005% eye drops             | acute RITs | European                           | Medication use and treatment | 11IVW                 | -10.4543 | 4.5727 | 0.0222 | -19.4169 | 63.7345 | 0.0000         | 0.0000   | 0.2250           |
| <b>ukb-e-6155_p5_AFR</b> | Vitamin and mineral supplements                                 | acute RITs | African American or Afro-Caribbean | Medication use and treatment | 12Weighted median     | -0.0192  | 0.0096 | 0.0466 | -0.0380  | -0.0003 | 0.9810         | 0.9627   | 0.9997           |
| <b>ukb-e-6155_p8_AFR</b> | Vitamin and mineral supplements                                 | acute RITs | African American or Afro-Caribbean | Medication use and treatment | 16Weighted median     | -0.0303  | 0.0138 | 0.0281 | -0.0574  | -0.0033 | 0.9701         | 0.9442   | 0.9967           |
| <b>ukb-a-464</b>         | Vitamin and mineral supplements: Multivitamins +/- minerals     | acute RITs | European                           | Medication use and treatment | 47IVW                 | 0.6782   | 0.2904 | 0.0195 | 0.1089   | 2.9932  | 1.9703         | 1.1151   | 3.4813           |
| <b>ukb-b-19550</b>       | Vitamin and/or mineral supplement use: Calcium                  | acute RITs | European                           | Medication use and treatment | 6IVW                  | 1.3549   | 0.6146 | 0.0275 | 0.1503   | 2.5595  | 3.8764         | 1.1622   | 12.9297          |
| <b>ukb-b-18593</b>       | Vitamin D   | acute RITs | European                           | Medication use and treatment | 22Weighted median     | 0.2210   | 0.1065 | 0.0380 | 0.0123   | 0.4297  | 1.2473         | 1.0123   | 1.5368           |
| <b>ukb-e-Z51_AFR</b>     | Z51 Other medical care  | acute RITs | African American or Afro-Caribbean | Medication use and treatment | 15IVW                 | 0.0126   | 0.0063 | 0.0446 | 0.0003   | 0.0416  | 1.0126         | 1.0003   | 1.0251           |
| <b>ukb-b-17102</b>       | External causes: Y83.6 Removal of other organ (partial) (total) | acute RITs | European                           | Medication use and treatment | 9IVW                  | -9.0358  | 3.9885 | 0.0235 | -16.8533 | 33.0263 | 0.0001         | 0.0000   | 0.2957           |
| <b>ukb-b-11247</b>       | Main speciality of consultant (recoded): Cardiothoracic surgery | acute RITs | European                           | Medication use and treatment | 22IVW (fixed effects) | 3.3575   | 1.7124 | 0.0499 | 0.0012   | 6.7137  | 28.7161        | 1.0012   | 823.6148         |
| <b>ukb-b-17277</b>       | Operation code: anal surgery                                    | acute RITs | European                           | Medication use and treatment | 10IVW                 | 9.3425   | 4.2876 | 0.0293 | 0.9388   | 70.1816 | 11413.2680     | 2.5570   | 50943504.0211    |
| <b>ukb-b-6863</b>        | Operation code: caesarean section / caesarian section           | acute RITs | European                           | Medication use and treatment | 44IVW                 | -1.2227  | 0.6194 | 0.0484 | -2.4367  | 0.0062  | 0.2944         | 0.0874   | 0.9913           |
| <b>ukb-b-6235</b>        | Operation code: cholecystectomy/gall bladder removal            | acute RITs | European                           | Medication use and treatment | 99Weighted median     | -1.0905  | 0.4225 | 0.0098 | -1.9185  | -0.2625 | 0.3360         | 0.1468   | 0.7691           |
| <b>ukb-b-6235</b>        | Operation code: cholecystectomy/gall bladder removal            | acute RITs | European                           | Medication use and treatment | 99Weighted mode       | -0.8731  | 0.4242 | 0.0422 | -1.7045  | -0.0417 | 0.4177         | 0.1819   | 0.9592           |
| <b>ukb-b-9263</b>        | Operation code:   | acute RITs | European                           | Medication use               | 75IVW                 | 1.2443   | 0.4918 | 0.0114 | 0.2804   | 3.3527  | 3.4706         | 1.3237   | 9.0995           |

|                              |   |            |                                    |                              |                      |          |         |        |          |           |                  |           |                            |  |
|------------------------------|---|------------|------------------------------------|------------------------------|----------------------|----------|---------|--------|----------|-----------|------------------|-----------|----------------------------|--|
|                              | inguinal/femoral hernia repair  |            |                                    | and treatment                |                      |          |         |        |          |           |                  |           |                            |  |
| <b>ukb-b-847</b>             | Operation code: reduction or fixation of bone fracture  | acute RITs | European                           | Medication use and treatment | 31IVW                | -1.9114  | 0.8764  | 0.0292 | -3.6291  | 3.0605    | 0.1479           | 0.0265    | 0.8240                     |  |
| <b>ukb-b-13003</b>           | Operation code: sinus surgery   | acute RITs | European                           | Medication use and treatment | 6IVW                 | -19.2229 | 7.4735  | 0.0101 | -33.8710 | 290.6570  | 0.0000           | 0.0000    | 0.0103                     |  |
| <b>ukb-b-15592</b>           | Operation code: varicose vein surgery   | acute RITs | European                           | Medication use and treatment | 206MR Egger          | -1.3607  | 0.6402  | 0.0347 | -2.6154  | -0.1060   | 0.2565           | 0.0731    | 0.8994                     |  |
| <b>ukb-b-7609</b>            | Operative procedures - main OPCS: B28.2 Partial excision of breast NEC  | acute RITs | European                           | Medication use and treatment | 24IVW                | 4.8776   | 1.7279  | 0.0048 | 1.4910   | 11.7569   | 131.3207         | 4.4416    | 3882.6157                  |  |
| <b>ukb-b-4944</b>            | Operative procedures - main OPCS: W85.2 Endoscopic irrigation of knee joint   | acute RITs | European                           | Medication use and treatment | 4IVW                 | -17.4403 | 8.5926  | 0.0424 | -34.2818 | -0.5988   | 0.0000           | 0.0000    | 0.5495                     |  |
| <b>ukb-e-41200_p138_A FR</b> | Operative procedures - main OPCS4   | acute RITs | African American or Afro-Caribbean | Medication use and treatment | 25IVW                | 0.0100   | 0.0039  | 0.0104 | 0.0024   | 0.0467    | 1.0101           | 1.0024    | 1.0178                     |  |
| <b>ukb-e-41200_p26_CS A</b>  | Operative procedures - main OPCS4   | acute RITs | South Asian                        | Medication use and treatment | 19IVW                | -0.0069  | 0.0035  | 0.0473 | -0.0138  | 0.0187    | 0.9931           | 0.9863    | 0.9999                     |  |
| <b>ukb-e-41200_p356_A FR</b> | Operative procedures - main OPCS4   | acute RITs | African American or Afro-Caribbean | Medication use and treatment | 12IVW                | 0.0116   | 0.0047  | 0.0128 | 0.0025   | 0.0321    | 1.0116           | 1.0025    | 1.0209                     |  |
| <b>ukb-e-41200_p834_A FR</b> | Operative procedures - main OPCS4   | acute RITs | African American or Afro-Caribbean | Medication use and treatment | 15IVW                | -0.0095  | 0.0047  | 0.0461 | -0.0188  | 0.0175    | 0.9906           | 0.9814    | 0.9998                     |  |
| <b>ukb-e-41200_p991_C SA</b> | Operative procedures - main OPCS4   | acute RITs | South Asian                        | Medication use and treatment | 9Weighted median     | -0.0172  | 0.0083  | 0.0375 | -0.0334  | -0.0010   | 0.9829           | 0.9671    | 0.9990                     |  |
| <b>ukb-b-4820</b>            | Operative procedures - secondary OPCS: E13.6 Puncture of maxillary antrum   | acute RITs | European                           | Medication use and treatment | 5IVW                 | 23.9016  | 8.5527  | 0.0052 | 7.1383   | 349.2162  | 24007019831.6372 | 1259.3000 | 457664588623786000.0000    |  |
| <b>ukb-b-4373</b>            | Operative procedures - secondary OPCS: T85.2 Block dissection of axillary lymph nodes   | acute RITs | European                           | Medication use and treatment | 17IVW                | 6.3867   | 2.3066  | 0.0056 | 1.8657   | 10.9076   | 593.8685         | 6.4607    | 54588.7024                 |  |
| <b>ukb-b-7815</b>            | Operative procedures - secondary OPCS: U05.1 Computed tomography of head  | acute RITs | European                           | Medication use and treatment | 6IVW                 | 12.7099  | 6.4642  | 0.0493 | 0.0401   | 25.3796   | 331001.5553      | 1.0409    | 105254400904.5330          |  |
| <b>ukb-b-13551</b>           | Operative procedures - secondary OPCS: X72.1 Delivery of complex chemotherapy for neoplasm including prolonged infusional treatment at first attendance | acute RITs | European                           | Medication use and treatment | 6IVW (fixed effects) | 11.8655  | 6.0520  | 0.0499 | 0.0035   | 23.7274   | 142265.8249      | 1.0035    | 20169020745.0000           |  |
| <b>ukb-b-13683</b>           | Operative procedures - secondary OPCS: Y58.8 Other specified harvest of skin for graft  | acute RITs | European                           | Medication use and treatment | 3IVW                 | 24.6172  | 11.6528 | 0.0346 | 1.7777   | 1470.0069 | 49105378845.9730 | 5.9165    | 407561435025151000000.0000 |  |
| <b>ukb-b-9816</b>            | Operative procedures - secondary OPCS: Y80.4 Intravenous anaesthetic NEC  | acute RITs | European                           | Medication use and treatment | 9IVW                 | 11.2117  | 4.9396  | 0.0232 | 1.5301   | 175.3342  | 73992.1128       | 4.6186    | 1185390592.3667            |  |
| <b>ukb-b-13121</b>           | Operative procedures - secondary OPCS: Z27.1 Oesophagus   | acute RITs | European                           | Medication use and treatment | 10IVW                | -6.1811  | 2.7861  | 0.0265 | -11.6419 | 56.9258   | 0.0021           | 0.0000    | 0.4866                     |  |
| <b>ukb-b-5222</b>            | Operative procedures - secondary OPCS: Z94.1  | acute RITs | European                           | Medication use and treatment | 18MR Egger           | 7.9016   | 3.6592  | 0.0463 | 0.7296   | 15.0736   | 2701.6368        | 2.0742    | 3518827.8190               |  |

|                           |  |            |             |                              |                          |         |        |        |         |         |        |        |        |
|---------------------------|--|------------|-------------|------------------------------|--------------------------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>ukb-e-Y83_CSA</b>      | Bilateral operation<br>Y83 Surgical operation and other surgical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure | acute RITs | South Asian | Medication use and treatment | 16IVW<br>(fixed effects) | -0.2525 | 0.1155 | 0.0288 | -0.4788 | -0.0261 | 0.7769 | 0.6195 | 0.9742 |
| <b>prot-a-2235</b>        | [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 1, mitochondrial   | acute RITs | European    | Metabolism                   | 12IVW                    | 0.0422  | 0.0167 | 0.0116 | 0.0094  | 0.1350  | 1.0431 | 1.0095 | 1.0779 |
| <b>prot-a-3251</b>        | 14-3-3 protein zeta/delta  | acute RITs | European    | Metabolism                   | 20IVW                    | 0.0411  | 0.0196 | 0.0361 | 0.0027  | 0.1149  | 1.0420 | 1.0027 | 1.0829 |
| <b>prot-a-1370</b>        | 15-hydroxyprostaglandin dehydrogenase [NAD(+)]   | acute RITs | European    | Metabolism                   | 23IVW                    | 0.0386  | 0.0161 | 0.0164 | 0.0071  | 0.0738  | 1.0394 | 1.0071 | 1.0727 |
| <b>prot-a-11</b>          | Acetyl-CoA carboxylase 2   | acute RITs | European    | Metabolism                   | 19IVW                    | 0.0389  | 0.0182 | 0.0322 | 0.0033  | 0.0745  | 1.0397 | 1.0033 | 1.0773 |
| <b>prot-a-105</b>         | Acidic leucine-rich nuclear phosphoprotein 32 family member B  | acute RITs | European    | Metabolism                   | 24IVW                    | 0.0333  | 0.0161 | 0.0385 | 0.0018  | 0.0649  | 1.0339 | 1.0018 | 1.0670 |
| <b>prot-a-43</b>          | Adhesion G-protein coupled receptor F1   | acute RITs | European    | Metabolism                   | 19IVW                    | 0.0304  | 0.0154 | 0.0487 | 0.0002  | 0.0606  | 1.0309 | 1.0002 | 1.0625 |
| <b>prot-a-47</b>          | Alcohol dehydrogenase 4  | acute RITs | European    | Metabolism                   | 22IVW                    | -0.0460 | 0.0172 | 0.0076 | -0.0797 | 0.0761  | 0.9551 | 0.9234 | 0.9879 |
| <b>prot-a-1155</b>        | Alpha-(1,3)-fucosyltransferase 9   | acute RITs | European    | Metabolism                   | 16IVW                    | -0.0407 | 0.0119 | 0.0006 | -0.0640 | -0.0297 | 0.9601 | 0.9380 | 0.9827 |
| <b>prot-a-2290</b>        | Calcium-dependent phospholipase A2   | acute RITs | European    | Metabolism                   | 23IVW<br>(fixed effects) | 0.0337  | 0.0165 | 0.0411 | 0.0014  | 0.0661  | 1.0343 | 1.0014 | 1.0683 |
| <b>prot-a-557</b>         | Carbohydrate sulfotransferase 5  | acute RITs | European    | Metabolism                   | 16IVW                    | -0.0427 | 0.0214 | 0.0459 | -0.0847 | -0.0008 | 0.9582 | 0.9188 | 0.9992 |
| <b>prot-a-332</b>         | Carbonic anhydrase 5A, mitochondrial   | acute RITs | European    | Metabolism                   | 14IVW                    | -0.0521 | 0.0216 | 0.0160 | -0.0945 | 0.1574  | 0.9492 | 0.9099 | 0.9903 |
| <b>prot-a-327</b>         | Carbonic anhydrase-related protein 10  | acute RITs | European    | Metabolism                   | 22MR<br>Egger            | 0.1267  | 0.0572 | 0.0384 | 0.0147  | 0.2388  | 1.1351 | 1.0148 | 1.2697 |
| <b>prot-a-649</b>         | Carboxypeptidase Z   | acute RITs | European    | Metabolism                   | 21IVW                    | 0.0469  | 0.0225 | 0.0371 | 0.0028  | 0.1550  | 1.0480 | 1.0028 | 1.0953 |
| <b>prot-a-1086</b>        | D-dimer  | acute RITs | European    | Metabolism                   | 16IVW                    | 0.0637  | 0.0226 | 0.0048 | 0.0194  | 0.2087  | 1.0658 | 1.0196 | 1.1141 |
| <b>met-c-846</b>          | 3-hydroxybutyrate  | acute RITs | European    | Metabolism                   | 17IVW                    | -0.0955 | 0.0463 | 0.0392 | -0.1862 | 0.1102  | 0.9090 | 0.8301 | 0.9953 |
| <b>met-d-bOHbutyrate</b>  | 3-Hydroxybutyrate  | acute RITs | European    | Metabolism                   | 44IVW                    | -0.1187 | 0.0593 | 0.0452 | -0.2348 | 0.1123  | 0.8881 | 0.7907 | 0.9974 |
| <b>met-a-311</b>          | 3-hydroxybutyrate (BHBA)   | acute RITs | European    | Metabolism                   | 9IVW                     | 0.1307  | 0.0588 | 0.0262 | 0.0155  | 0.3469  | 1.1397 | 1.0156 | 1.2789 |
| <b>met-a-365</b>          | 3-methoxytyrosine  | acute RITs | European    | Metabolism                   | 16IVW                    | 0.4006  | 0.1834 | 0.0290 | 0.0411  | 0.6012  | 1.4927 | 1.0419 | 2.1384 |
| <b>ieu-a-1</b>            | Adiponectin  | acute RITs | Mixed       | Metabolism                   | 32IVW                    | 0.0879  | 0.0404 | 0.0293 | 0.0089  | 0.1670  | 1.0919 | 1.0089 | 1.1818 |
| <b>met-a-537</b>          | Adrenate (22:4n6)  | acute RITs | European    | Metabolism                   | 11IVW<br>(fixed effects) | 0.2715  | 0.1317 | 0.0393 | 0.0134  | 0.5296  | 1.3119 | 1.0134 | 1.6982 |
| <b>bbj-a-9</b>            | Albumin  | acute RITs | East Asian  | Metabolism                   | 48Weighted median        | 0.1586  | 0.0690 | 0.0215 | 0.0234  | 0.2938  | 1.1718 | 1.0236 | 1.3415 |
| <b>met-a-616</b>          | Alpha-hydroxyisovalerate   | acute RITs | European    | Metabolism                   | 14IVW                    | 0.2090  | 0.1026 | 0.0417 | 0.0078  | 0.4951  | 1.2324 | 1.0079 | 1.5070 |
| <b>met-d-ApoA1</b>        | Apolipoprotein A1  | acute RITs | European    | Metabolism                   | 141IVW                   | 0.0548  | 0.0243 | 0.0242 | 0.0071  | 0.1416  | 1.0564 | 1.0072 | 1.1080 |
| <b>ieu-b-107</b>          | apolipoprotein A-I   | acute RITs | European    | Metabolism                   | 469IVW                   | 0.0442  | 0.0217 | 0.0418 | 0.0016  | 0.1650  | 1.0452 | 1.0016 | 1.0906 |
| <b>met-c-842</b>          | Apolipoprotein A-I   | acute RITs | European    | Metabolism                   | 30IVW                    | 0.0534  | 0.0246 | 0.0302 | 0.0051  | 0.1250  | 1.0549 | 1.0051 | 1.1071 |
| <b>ieu-b-108</b>          | apolipoprotein B   | acute RITs | European    | Metabolism                   | 302MR<br>Egger           | 0.0808  | 0.0370 | 0.0299 | 0.0082  | 0.1534  | 1.0841 | 1.0082 | 1.1657 |
| <b>ieu-b-108</b>          | apolipoprotein B   | acute RITs | European    | Metabolism                   | 302Weighted mode         | 0.0812  | 0.0382 | 0.0342 | 0.0064  | 0.1559  | 1.0846 | 1.0064 | 1.1688 |
| <b>met-d-ApoB</b>         | Apolipoprotein B   | acute RITs | European    | Metabolism                   | 108IVW                   | 0.0581  | 0.0248 | 0.0190 | 0.0095  | 0.0870  | 1.0598 | 1.0096 | 1.1126 |
| <b>ebi-a-GCST90092809</b> | Apolipoprotein B levels  | acute RITs | European    | Metabolism                   | 109IVW                   | 0.0612  | 0.0249 | 0.0141 | 0.0124  | 0.1315  | 1.0631 | 1.0124 | 1.1163 |
| <b>prot-a-134</b>         | Apolipoprotein L1  | acute RITs | European    | Metabolism                   | 21MR<br>Egger            | -0.0543 | 0.0233 | 0.0307 | -0.1000 | -0.0087 | 0.9471 | 0.9049 | 0.9913 |

|                           |  |            |             |            |                          |         |        |        |         |         |        |        |        |
|---------------------------|--|------------|-------------|------------|--------------------------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>met-a-638</b>          | Asparagine   | acute RITs | European    | Metabolism | 39MR                     | -0.5814 | 0.2803 | 0.0451 | -1.1308 | -0.0319 | 0.5591 | 0.3228 | 0.9686 |
| <b>ieu-b-4869</b>         | Bioavailable Testosterone                              | acute RITs | European    | Metabolism | 231Egger Weighted median | -0.1012 | 0.0430 | 0.0187 | -0.1856 | -0.0169 | 0.9037 | 0.8306 | 0.9833 |
| <b>ebi-a-GCST90012102</b> | Bioavailable testosterone levels                       | acute RITs | European    | Metabolism | 266Egger Weighted median | -0.1419 | 0.0542 | 0.0089 | -0.2482 | -0.0356 | 0.8677 | 0.7802 | 0.9651 |
| <b>ebi-a-GCST90012104</b> | Bioavailable testosterone levels                       | acute RITs | European    | Metabolism | 224Egger Weighted median | -0.1813 | 0.0757 | 0.0165 | -0.3296 | -0.0330 | 0.8342 | 0.7192 | 0.9675 |
| <b>ebi-a-GCST90012104</b> | Bioavailable testosterone levels                       | acute RITs | European    | Metabolism | 224Egger Weighted mode   | -0.2387 | 0.1198 | 0.0476 | -0.4735 | -0.0038 | 0.7877 | 0.6228 | 0.9962 |
| <b>bbj-a-10</b>           | Blood sugar  | acute RITs | East Asian  | Metabolism | 44Egger Weighted median  | -0.1606 | 0.0719 | 0.0256 | -0.3015 | -0.0196 | 0.8517 | 0.7397 | 0.9806 |
| <b>ebi-a-GCST90018948</b> | Blood urea nitrogen levels                             | acute RITs | European    | Metabolism | 357MR Egger              | 0.1385  | 0.0701 | 0.0491 | 0.0010  | 0.2760  | 1.1486 | 1.0010 | 1.3179 |
| <b>met-a-481</b>          | Caprylate (8:0)  | acute RITs | European    | Metabolism | 42IVW                    | 0.3180  | 0.1438 | 0.0270 | 0.0362  | 1.1848  | 1.3744 | 1.0368 | 1.8219 |
| <b>met-c-887</b>          | Cholesterol esters in large VLDL                       | acute RITs | European    | Metabolism | 31Egger Weighted median  | -0.0767 | 0.0369 | 0.0376 | -0.1490 | -0.0044 | 0.9262 | 0.8616 | 0.9956 |
| <b>met-c-899</b>          | Cholesterol esters in medium HDL                       | acute RITs | European    | Metabolism | 21Egger Weighted median  | 0.0891  | 0.0449 | 0.0475 | 0.0010  | 0.1771  | 1.0932 | 1.0010 | 1.1938 |
| <b>met-c-899</b>          | Cholesterol esters in medium HDL                       | acute RITs | European    | Metabolism | 21Egger Weighted mode    | 0.0985  | 0.0492 | 0.0589 | 0.0021  | 0.1950  | 1.1036 | 1.0021 | 1.2153 |
| <b>met-d-M_HDL_C</b>      | Cholesterol in medium HDL                              | acute RITs | European    | Metabolism | 152IVW                   | 0.0619  | 0.0247 | 0.0121 | 0.0136  | 0.1537  | 1.0639 | 1.0137 | 1.1166 |
| <b>met-d-M_VLDL_C</b>     | Cholesterol in medium VLDL                             | acute RITs | European    | Metabolism | 114IVW (fixed effects)   | 0.0496  | 0.0248 | 0.0455 | 0.0010  | 0.0981  | 1.0508 | 1.0010 | 1.1031 |
| <b>met-d-S_LDL_C</b>      | Cholesterol in small LDL                               | acute RITs | European    | Metabolism | 101IVW                   | 0.0543  | 0.0263 | 0.0394 | 0.0026  | 0.1315  | 1.0558 | 1.0027 | 1.1118 |
| <b>ebi-a-GCST90014000</b> | Cholesterol levels (UKB data field 30690)              | acute RITs | European    | Metabolism | 279IVW                   | 0.0594  | 0.0271 | 0.0284 | 0.0063  | 0.1315  | 1.0613 | 1.0063 | 1.1192 |
| <b>ebi-a-GCST90092956</b> | Cholesterol levels in small LDL                        | acute RITs | European    | Metabolism | 97IVW                    | 0.0533  | 0.0238 | 0.0249 | 0.0067  | 0.1315  | 1.0548 | 1.0068 | 1.1051 |
| <b>met-d-M_HDL_C_pct</b>  | Cholesterol to total lipids ratio in medium HDL        | acute RITs | European    | Metabolism | 168IVW                   | 0.0450  | 0.0213 | 0.0347 | 0.0032  | 0.1481  | 1.0460 | 1.0032 | 1.0906 |
| <b>ebi-a-GCST90092918</b> | Cholesteryl ester levels in medium VLDL                | acute RITs | European    | Metabolism | 96IVW                    | 0.0585  | 0.0264 | 0.0269 | 0.0067  | 0.1315  | 1.0602 | 1.0067 | 1.1166 |
| <b>ebi-a-GCST90060634</b> | Cholesteryl ester(18:3) [M+NH4]1+ levels               | acute RITs | South Asian | Metabolism | 20IVW                    | 0.1248  | 0.0470 | 0.0079 | 0.0327  | 0.1315  | 1.1329 | 1.0332 | 1.2422 |
| <b>met-d-HDL_CE</b>       | Cholesteryl esters in HDL                              | acute RITs | European    | Metabolism | 182IVW                   | 0.0429  | 0.0217 | 0.0477 | 0.0004  | 0.0854  | 1.0438 | 1.0004 | 1.0891 |
| <b>met-d-L_LDL_CE</b>     | Cholesteryl esters in large LDL                        | acute RITs | European    | Metabolism | 102IVW                   | 0.0541  | 0.0241 | 0.0247 | 0.0069  | 0.1185  | 1.0556 | 1.0069 | 1.1067 |
| <b>met-d-LDL_CE</b>       | Cholesteryl esters in LDL                              | acute RITs | European    | Metabolism | 98IVW                    | 0.0572  | 0.0266 | 0.0314 | 0.0051  | 0.1093  | 1.0589 | 1.0051 | 1.1155 |
| <b>met-d-M_HDL_CE</b>     | Cholesteryl esters in medium HDL                       | acute RITs | European    | Metabolism | 154IVW                   | 0.0605  | 0.0247 | 0.0144 | 0.0120  | 0.1090  | 1.0624 | 1.0121 | 1.1151 |
| <b>met-d-M_VLDL_CE</b>    | Cholesteryl esters in medium VLDL                      | acute RITs | European    | Metabolism | 101IVW                   | 0.0552  | 0.0264 | 0.0368 | 0.0034  | 0.1070  | 1.0567 | 1.0034 | 1.1129 |
| <b>met-d-S_HDL_CE</b>     | Cholesteryl esters in small HDL                        | acute RITs | European    | Metabolism | 104IVW                   | 0.0510  | 0.0257 | 0.0469 | 0.0007  | 0.1014  | 1.0524 | 1.0007 | 1.1067 |
| <b>met-d-IDL_CE_pct</b>   | Cholesteryl esters to total lipids ratio in IDL        | acute RITs | European    | Metabolism | 130MR Egger              | 0.0606  | 0.0287 | 0.0367 | 0.0043  | 0.1169  | 1.0625 | 1.0043 | 1.1241 |
| <b>met-d-L_HDL_CE_pct</b> | Cholesteryl esters to total lipids ratio in large HDL  | acute RITs | European    | Metabolism | 176Egger Weighted median | 0.0753  | 0.0371 | 0.0423 | 0.0026  | 0.1480  | 1.0782 | 1.0026 | 1.1595 |
| <b>met-d-L_HDL_CE_pct</b> | Cholesteryl esters to total lipids ratio in large HDL  | acute RITs | European    | Metabolism | 176Egger Weighted mode   | 0.0712  | 0.0331 | 0.0326 | 0.0064  | 0.1360  | 1.0738 | 1.0064 | 1.1457 |
| <b>met-d-M_HDL_CE_pct</b> | Cholesteryl esters to total lipids ratio in medium HDL | acute RITs | European    | Metabolism | 163IVW                   | 0.0475  | 0.0213 | 0.0256 | 0.0058  | 0.0892  | 1.0486 | 1.0058 | 1.0933 |
| <b>ebi-a-GCST90007307</b> | circulating leptin levels                              | acute RITs | Mixed       | Metabolism | 15IVW                    | -0.1557 | 0.0589 | 0.0082 | -0.2712 | 0.0657  | 0.8558 | 0.7625 | 0.9606 |
| <b>ebi-a-GCST90007309</b> | circulating leptin levels                              | acute RITs | Mixed       | Metabolism | 7IVW                     | -0.1793 | 0.0701 | 0.0105 | -0.3166 | 0.0657  | 0.8359 | 0.7286 | 0.9589 |
| <b>ebi-a-GCST90007310</b> | circulating leptin levels                              | acute RITs | European    | Metabolism | 9IVW                     | -0.1662 | 0.0715 | 0.0201 | -0.3063 | 0.0657  | 0.8469 | 0.7362 | 0.9743 |

|                             |   |            |             |            |                        |         |        |        |         |         |        |        |        |
|-----------------------------|---|------------|-------------|------------|------------------------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>ebi-a-GCST90007312</b>   | circulating leptin levels   | acute RITs | European    | Metabolism | 7IVW                   | -0.1617 | 0.0664 | 0.0149 | -0.2919 | 0.0657  | 0.8507 | 0.7468 | 0.9689 |
| <b>ebi-a-GCST90007313</b>   | circulating leptin levels   | acute RITs | Mixed       | Metabolism | 6IVW                   | -0.1408 | 0.0559 | 0.0118 | -0.2504 | 0.0657  | 0.8687 | 0.7785 | 0.9693 |
| <b>ebi-a-GCST90007316</b>   | circulating leptin levels   | acute RITs | European    | Metabolism | 6IVW                   | -0.1387 | 0.0570 | 0.0149 | -0.2504 | 0.0657  | 0.8705 | 0.7785 | 0.9733 |
| <b>ebi-a-GCST90007319</b>   | circulating leptin levels adjusted for BMI                              | acute RITs | Mixed       | Metabolism | 10IVW                  | -0.1734 | 0.0651 | 0.0077 | -0.3010 | 0.0657  | 0.8408 | 0.7401 | 0.9552 |
| <b>ebi-a-GCST90007320</b>   | circulating leptin levels adjusted for BMI                              | acute RITs | Mixed       | Metabolism | 6IVW                   | -0.1564 | 0.0736 | 0.0336 | -0.3006 | 0.0657  | 0.8552 | 0.7403 | 0.9880 |
| <b>ebi-a-GCST90007321</b>   | circulating leptin levels adjusted for BMI                              | acute RITs | Mixed       | Metabolism | 9Weighted median       | -0.1596 | 0.0735 | 0.0299 | -0.3036 | -0.0155 | 0.8525 | 0.7381 | 0.9846 |
| <b>ebi-a-GCST90007322</b>   | circulating leptin levels adjusted for BMI                              | acute RITs | European    | Metabolism | 8IVW                   | -0.1798 | 0.0687 | 0.0088 | -0.3145 | 0.0657  | 0.8354 | 0.7302 | 0.9558 |
| <b>ebi-a-GCST90007324</b>   | circulating leptin levels adjusted for BMI                              | acute RITs | European    | Metabolism | 8IVW                   | -0.1180 | 0.0546 | 0.0306 | -0.2250 | 0.0657  | 0.8887 | 0.7985 | 0.9890 |
| <b>ebi-a-GCST90007327</b>   | circulating leptin levels adjusted for BMI                              | acute RITs | Mixed       | Metabolism | 6IVW                   | -0.0976 | 0.0439 | 0.0262 | -0.1836 | 0.0657  | 0.9070 | 0.8322 | 0.9885 |
| <b>met-d-Clinical_LDL_C</b> | Clinical LDL cholesterol  | acute RITs | European    | Metabolism | 100IVW (fixed effects) | 0.0471  | 0.0236 | 0.0463 | 0.0008  | 0.0934  | 1.0482 | 1.0008 | 1.0979 |
| <b>met-d-HDL_P</b>          | Concentration of HDL particles  | acute RITs | European    | Metabolism | 142IVW                 | 0.0660  | 0.0252 | 0.0087 | 0.0167  | 0.1488  | 1.0682 | 1.0169 | 1.1222 |
| <b>ebi-a-GCST90092887</b>   | Concentration of LDL particles  | acute RITs | European    | Metabolism | 104IVW                 | 0.0665  | 0.0251 | 0.0080 | 0.0174  | 0.1315  | 1.0688 | 1.0175 | 1.1226 |
| <b>met-d-LDL_P</b>          | Concentration of LDL particles  | acute RITs | European    | Metabolism | 110IVW                 | 0.0607  | 0.0248 | 0.0144 | 0.0121  | 0.1094  | 1.0626 | 1.0121 | 1.1156 |
| <b>met-d-M_HDL_P</b>        | Concentration of medium HDL particles                                   | acute RITs | European    | Metabolism | 142IVW                 | 0.0546  | 0.0245 | 0.0259 | 0.0066  | 0.1373  | 1.0562 | 1.0066 | 1.1082 |
| <b>ebi-a-GCST90092963</b>   | Concentration of small LDL particles                                    | acute RITs | European    | Metabolism | 113IVW                 | 0.0550  | 0.0243 | 0.0234 | 0.0075  | 0.1315  | 1.0566 | 1.0075 | 1.1080 |
| <b>met-d-S_LDL_P</b>        | Concentration of small LDL particles                                    | acute RITs | European    | Metabolism | 114IVW                 | 0.0535  | 0.0242 | 0.0272 | 0.0060  | 0.0814  | 1.0549 | 1.0060 | 1.1062 |
| <b>met-d-XL_VLDL_P</b>      | Concentration of very large VLDL particles                              | acute RITs | European    | Metabolism | 146Weighted median     | -0.0766 | 0.0377 | 0.0419 | -0.1504 | -0.0028 | 0.9262 | 0.8603 | 0.9972 |
| <b>met-a-744</b>            | Cyclo(leu-pro)  | acute RITs | European    | Metabolism | 14IVW (fixed effects)  | 0.1681  | 0.0797 | 0.0348 | 0.0120  | 0.3242  | 1.1830 | 1.0120 | 1.3830 |
| <b>ebi-a-GCST90060606</b>   | Diacylglycerol(34:2)_[M+H-H2O]1+ levels                                 | acute RITs | South Asian | Metabolism | 17MR Egger             | -0.4009 | 0.1541 | 0.0200 | -0.7029 | -0.0988 | 0.6697 | 0.4951 | 0.9059 |
| <b>ebi-a-GCST90060606</b>   | Diacylglycerol(34:2)_[M+H-H2O]1+ levels                                 | acute RITs | South Asian | Metabolism | 17Weighted median      | -0.2051 | 0.0895 | 0.0220 | -0.3805 | -0.0296 | 0.8146 | 0.6835 | 0.9708 |
| <b>ebi-a-GCST90060625</b>   | Diacylglycerol(36:2)_[M+NH4]1+ levels                                   | acute RITs | South Asian | Metabolism | 18IVW                  | -0.1341 | 0.0467 | 0.0041 | -0.2256 | 0.1315  | 0.8745 | 0.7980 | 0.9583 |
| <b>ebi-a-GCST90025954</b>   | Direct low density lipoprotein cholesterol levels                       | acute RITs | European    | Metabolism | 271IVW                 | 0.0522  | 0.0258 | 0.0426 | 0.0017  | 0.1315  | 1.0536 | 1.0017 | 1.1082 |
| <b>met-a-586</b>            | Eicosenoate (20:1n9 or 11)  | acute RITs | European    | Metabolism | 12IVW (fixed effects)  | -0.2753 | 0.1285 | 0.0322 | -0.5273 | -0.0234 | 0.7593 | 0.5902 | 0.9769 |
| <b>ebi-a-GCST90019407</b>   | Electron transfer flavoprotein subunit alpha, mitochondrial measurement | acute RITs | European    | Metabolism | 24IVW                  | 0.0418  | 0.0177 | 0.0179 | 0.0072  | 0.1315  | 1.0427 | 1.0072 | 1.0795 |
| <b>ebi-a-GCST90012105</b>   | Estradiol levels  | acute RITs | European    | Metabolism | 42IVW (fixed effects)  | 0.5830  | 0.2667 | 0.0288 | 0.0602  | 1.1058  | 1.7914 | 1.0621 | 3.0216 |
| <b>ebi-a-GCST000571</b>     | Fasting blood insulin   | acute RITs | European    | Metabolism | 12IVW                  | 0.2592  | 0.1247 | 0.0377 | 0.0148  | 1.6523  | 1.2959 | 1.0149 | 1.6548 |
| <b>ebi-a-GCST90060570</b>   | Fatty acid(15:0)_[M-H]1-levels  | acute RITs | South Asian | Metabolism | 12Weighted median      | -0.2378 | 0.1038 | 0.0220 | -0.4413 | -0.0344 | 0.7883 | 0.6432 | 0.9662 |
| <b>ebi-a-GCST90060571</b>   | Fatty acid(16:1)_[M-H]1-levels  | acute RITs | South Asian | Metabolism | 12IVW                  | -0.1035 | 0.0347 | 0.0028 | -0.1715 | 0.1315  | 0.9017 | 0.8424 | 0.9651 |
| <b>met-d-HDL_FC</b>         | Free cholesterol in HDL   | acute RITs | European    | Metabolism | 169IVW                 | 0.0520  | 0.0216 | 0.0163 | 0.0096  | 0.1261  | 1.0533 | 1.0096 | 1.0989 |

|  |  |            |  |            |                          |         |        |        |         |         |        |        |         |
|--|--|------------|--|------------|--------------------------|---------|--------|--------|---------|---------|--------|--------|---------|
| <b>met-d-IDL_FC</b><br><b>met-c-900</b>              | Free cholesterol in IDL  | acute RITs | European                                 | Metabolism | 112IVW                   | 0.0488  | 0.0231 | 0.0344 | 0.0036  | 0.1245  | 1.0500 | 1.0036 | 1.0985  |
|  | Free cholesterol in medium HDL                                     | acute RITs | European                                 | Metabolism | 24MR<br>Egger            | 0.1781  | 0.0740 | 0.0250 | 0.0330  | 0.3232  | 1.1950 | 1.0335 | 1.3816  |
| <b>met-d-M_HDL_FC</b>                                | Free cholesterol in medium HDL                                     | acute RITs | European                                 | Metabolism | 152IVW                   | 0.0597  | 0.0257 | 0.0203 | 0.0093  | 0.1512  | 1.0615 | 1.0093 | 1.1164  |
| <b>met-d-M_LDL_FC</b>                                | Free cholesterol in medium LDL                                     | acute RITs | European                                 | Metabolism | 97IVW                    | 0.0491  | 0.0245 | 0.0451 | 0.0011  | 0.1027  | 1.0503 | 1.0011 | 1.1020  |
| <b>met-d-M_HDL_FC_pct</b>                            | Free cholesterol to total lipids ratio in medium HDL               | acute RITs | European                                 | Metabolism | 175MR<br>Egger           | 0.0632  | 0.0313 | 0.0451 | 0.0018  | 0.1245  | 1.0652 | 1.0018 | 1.1326  |
| <b>met-d-S_HDL_FC_pct</b>                            | Free cholesterol to total lipids ratio in small HDL                | acute RITs | European                                 | Metabolism | 125IVW                   | 0.0438  | 0.0213 | 0.0398 | 0.0020  | 0.1089  | 1.0448 | 1.0021 | 1.0893  |
| <b>ebi-a-GCST90025966</b>                            | Gamma glutamyl transferase levels                                  | acute RITs | European                                 | Metabolism | 486Weighted median       | 0.0707  | 0.0353 | 0.0449 | 0.0016  | 0.1398  | 1.0733 | 1.0016 | 1.1501  |
| <b>met-a-564</b><br><b>ebi-a-GCST90018735</b>        | Gamma-glutamylthreonine*   | acute RITs | European                                 | Metabolism | 9IVW                     | -0.4710 | 0.1699 | 0.0056 | -0.8039 | 0.6493  | 0.6244 | 0.4476 | 0.8711  |
| <b>ebi-a-GCST005058</b>                              | Glucose levels   | acute RITs | East Asian                               | Metabolism | 47IVW                    | -0.1215 | 0.0554 | 0.0284 | -0.2302 | 0.1315  | 0.8856 | 0.7944 | 0.9872  |
|  | HDL cholesterol  | acute RITs | European                                 | Metabolism | 21Weighted median        | 0.0694  | 0.0316 | 0.0282 | 0.0074  | 0.1313  | 1.0718 | 1.0074 | 1.1403  |
| <b>ebi-a-GCST90018736</b>                            | HDL cholesterol  | acute RITs | East Asian                               | Metabolism | 104Weighted median       | 0.0811  | 0.0340 | 0.0172 | 0.0144  | 0.1479  | 1.0845 | 1.0145 | 1.1594  |
| <b>ebi-a-GCST90018956</b>                            | HDL cholesterol  | acute RITs | European                                 | Metabolism | 466MR<br>Egger           | 0.0680  | 0.0323 | 0.0360 | 0.0046  | 0.1314  | 1.0704 | 1.0046 | 1.1404  |
| <b>ieu-b-109</b>                                     | HDL cholesterol  | acute RITs | European                                 | Metabolism | 526MR<br>Egger           | 0.0712  | 0.0316 | 0.0247 | 0.0092  | 0.1331  | 1.0738 | 1.0093 | 1.1424  |
| <b>ieu-b-4843</b>                                    | HDL cholesterol  | acute RITs | European                                 | Metabolism | 67IVW                    | 0.0396  | 0.0195 | 0.0422 | 0.0014  | 0.1220  | 1.0404 | 1.0014 | 1.0809  |
| <b>ieu-b-4844</b>                                    | HDL cholesterol  | acute RITs | European                                 | Metabolism | 153IVW                   | 0.0516  | 0.0198 | 0.0090 | 0.0129  | 0.1405  | 1.0529 | 1.0129 | 1.0945  |
| <b>met-d-HDL_C</b>                                   | HDL cholesterol  | acute RITs | European                                 | Metabolism | 178IVW                   | 0.0511  | 0.0218 | 0.0192 | 0.0083  | 0.1558  | 1.0524 | 1.0084 | 1.0984  |
| <b>ukb-e-30760_AFR</b>                               | HDL cholesterol  | acute RITs | African<br>American or<br>Afro-Caribbean | Metabolism | 27MR<br>Egger            | 0.1038  | 0.0459 | 0.0328 | 0.0138  | 0.1937  | 1.1093 | 1.0139 | 1.2138  |
| <b>ebi-a-GCST90025956</b>                            | HDL cholesterol levels   | acute RITs | European                                 | Metabolism | 452MR<br>Egger           | 0.0544  | 0.0266 | 0.0413 | 0.0023  | 0.1064  | 1.0559 | 1.0023 | 1.1123  |
| <b>ebi-a-GCST90002309</b><br><b>ebi-a-GCST008035</b> | Hemoglobin concentration   | acute RITs | Mixed                                    | Metabolism | 40IVW                    | 0.0413  | 0.0190 | 0.0302 | 0.0040  | 0.2007  | 1.0422 | 1.0040 | 1.0818  |
|  | High density lipoprotein cholesterol levels                        | acute RITs | Hispanic or Latin<br>American            | Metabolism | 73Weighted median        | 0.0044  | 0.0021 | 0.0408 | 0.0002  | 0.0086  | 1.0044 | 1.0002 | 1.0086  |
| <b>ebi-a-GCST90014007</b>                            | High density lipoprotein cholesterol levels (UKB data field 30760) | acute RITs | European                                 | Metabolism | 458IVW                   | 0.0551  | 0.0221 | 0.0126 | 0.0118  | 0.1315  | 1.0567 | 1.0119 | 1.1034  |
| <b>bbj-a-24</b>                                      | High-density-lipoprotein cholesterol                               | acute RITs | East Asian                               | Metabolism | 85IVW                    | 0.0395  | 0.0193 | 0.0405 | 0.0017  | 0.1117  | 1.0403 | 1.0017 | 1.0803  |
| <b>ebi-a-GCST90014008</b><br><b>ukb-e-30770_CSA</b>  | IGF 1 (UKB data field 30770)                                       | acute RITs | European                                 | Metabolism | 532IVW                   | -0.0629 | 0.0215 | 0.0034 | -0.1050 | 0.1315  | 0.9391 | 0.9003 | 0.9795  |
|  | IGF-1  | acute RITs | South Asian                              | Metabolism | 30IVW<br>(fixed effects) | -0.0425 | 0.0203 | 0.0364 | -0.0822 | -0.0027 | 0.9584 | 0.9211 | 0.9973  |
| <b>ukb-e-recode1_CSA</b><br><b>met-a-323</b>         | Indirect bilirubin   | acute RITs | South Asian                              | Metabolism | 19IVW                    | 0.0547  | 0.0189 | 0.0038 | 0.0176  | 0.1312  | 1.0562 | 1.0178 | 1.0961  |
|  | Isoleucine   | acute RITs | European                                 | Metabolism | 18MR<br>Egger            | 1.8856  | 0.7447 | 0.0222 | 0.4259  | 3.3453  | 6.5902 | 1.5310 | 28.3683 |
| <b>met-a-652</b>                                     | Isovalerylcarnitine  | acute RITs | European                                 | Metabolism | 19IVW                    | -0.2331 | 0.0993 | 0.0189 | -0.4276 | -0.1661 | 0.7921 | 0.6520 | 0.9622  |
| <b>ieu-b-110</b>                                     | LDL cholesterol  | acute RITs | European                                 | Metabolism | 281IVW                   | 0.0656  | 0.0238 | 0.0059 | 0.0189  | 0.1162  | 1.0678 | 1.0191 | 1.1189  |
| <b>ieu-b-5089</b>                                    | LDL cholesterol  | acute RITs | European                                 | Metabolism | 152IVW                   | 0.0612  | 0.0259 | 0.0179 | 0.0105  | 0.1415  | 1.0631 | 1.0106 | 1.1184  |
| <b>met-d-LDL_C</b>                                   | LDL cholesterol  | acute RITs | European                                 | Metabolism | 95IVW                    | 0.0478  | 0.0242 | 0.0483 | 0.0004  | 0.0953  | 1.0490 | 1.0004 | 1.1000  |
| <b>ebi-a-GCST90025993</b>                            | Lipoprotein (a) levels   | acute RITs | European                                 | Metabolism | 70IVW<br>(fixed effects) | 0.0814  | 0.0410 | 0.0473 | 0.0010  | 0.1618  | 1.0848 | 1.0010 | 1.1756  |
| <b>ebi-a-GCST90002412</b>                            | Low density lipoprotein cholesterol levels                         | acute RITs | European                                 | Metabolism | 481IVW                   | 0.0567  | 0.0196 | 0.0039 | 0.0182  | 0.0657  | 1.0583 | 1.0183 | 1.0998  |

|                            |   |            |             |            |                    |         |        |        |         |         |        |        |        |
|----------------------------|---|------------|-------------|------------|--------------------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>ebi-a-GCST90019485</b>  | MAP/microtubule affinity-regulating kinase 3 measurement                            | acute RITs | European    | Metabolism | 25IVW              | 0.0622  | 0.0297 | 0.0360 | 0.0041  | 0.1315  | 1.0642 | 1.0041 | 1.1279 |
| <b>ebi-a-GCST90019404</b>  | Medium-chain specific acyl-CoA dehydrogenase, mitochondrial measurement             | acute RITs | European    | Metabolism | 21IVW              | -0.0422 | 0.0168 | 0.0121 | -0.0752 | 0.1315  | 0.9586 | 0.9275 | 0.9908 |
| <b>ebi-a-GCST90012047</b>  | Myoglobin levels  | acute RITs | European    | Metabolism | 38IVW              | -0.0637 | 0.0305 | 0.0368 | -0.1236 | 0.0922  | 0.9383 | 0.8838 | 0.9961 |
| <b>met-a-477</b>           | Myristoleate (14:1n5)   | acute RITs | European    | Metabolism | 13IVW              | -0.2354 | 0.1181 | 0.0463 | -0.4670 | 0.5183  | 0.7903 | 0.6269 | 0.9962 |
| <b>met-a-576</b>           | Palmitoleate (16:1n7)   | acute RITs | European    | Metabolism | 8Weighted median   | -0.4191 | 0.1978 | 0.0342 | -0.8068 | -0.0313 | 0.6577 | 0.4463 | 0.9692 |
| <b>met-c-919</b>           | Phenylalanine   | acute RITs | European    | Metabolism | 22IVW              | -0.0758 | 0.0375 | 0.0429 | -0.1492 | 0.1553  | 0.9270 | 0.8614 | 0.9976 |
| <b>met-a-430</b>           | Phenyllactate (PLA)   | acute RITs | European    | Metabolism | 18IVW              | -0.2876 | 0.1393 | 0.0389 | -0.5606 | 0.0528  | 0.7500 | 0.5708 | 0.9855 |
| <b>ebi-a-GCST90014010</b>  | Phosphate levels (UKB data field 30810)   | acute RITs | European    | Metabolism | 286Weighted median | -0.1116 | 0.0528 | 0.0345 | -0.2151 | -0.0081 | 0.8944 | 0.8064 | 0.9919 |
| <b>ebi-a-GCST90060687</b>  | Phosphatidate(34:0)_[M+OAc]1- levels  | acute RITs | South Asian | Metabolism | 10IVW              | 0.1037  | 0.0425 | 0.0147 | 0.0204  | 0.1315  | 1.1093 | 1.0206 | 1.2056 |
| <b>ebi-a-GCST90060914</b>  | Phosphatidylcholine(38:7)_[M+OAc]1-/Phosphatidylserine(42:6)_[M-H]1- levels         | acute RITs | South Asian | Metabolism | 16MR Egger         | 0.2687  | 0.1241 | 0.0480 | 0.0256  | 0.5119  | 1.3083 | 1.0259 | 1.6685 |
| <b>ebi-a-GCST90060671</b>  | Phosphatidylcholine-O(32:0)_[M+H]1+/Phosphatidylethanolamine-O(35:0)_[M+H]1+ levels | acute RITs | South Asian | Metabolism | 18IVW              | 0.1410  | 0.0588 | 0.0166 | 0.0256  | 0.1315  | 1.1514 | 1.0260 | 1.2921 |
| <b>ebi-a-GCST90060801</b>  | Phosphatidylcholine-O(38:4)_[M+H]1+/Phosphatidylcholine-P(38:3)_[M+H]1+ levels      | acute RITs | South Asian | Metabolism | 17MR Egger         | 0.1260  | 0.0549 | 0.0364 | 0.0185  | 0.2336  | 1.1343 | 1.0187 | 1.2631 |
| <b>ebi-a-GCST90060961</b>  | Phosphatidylserine(40:5)_[M+OAc]1- levels   | acute RITs | South Asian | Metabolism | 26Weighted median  | 0.0776  | 0.0387 | 0.0453 | 0.0016  | 0.1535  | 1.0806 | 1.0016 | 1.1659 |
| <b>met-d-XL_VLDL_PL</b>    | Phospholipids in very large VLDL  | acute RITs | European    | Metabolism | 140Weighted median | -0.0786 | 0.0376 | 0.0365 | -0.1522 | -0.0049 | 0.9245 | 0.8588 | 0.9951 |
| <b>met-d-L_VLDL_PL_pct</b> | Phospholipids to total lipids ratio in large VLDL                                   | acute RITs | European    | Metabolism | 145MR Egger        | -0.0770 | 0.0336 | 0.0232 | -0.1428 | -0.0112 | 0.9259 | 0.8670 | 0.9888 |
| <b>met-d-M_HDL_PL_pct</b>  | Phospholipids to total lipids ratio in medium HDL                                   | acute RITs | European    | Metabolism | 182IVW             | -0.0626 | 0.0229 | 0.0063 | -0.1075 | -0.0177 | 0.9393 | 0.8980 | 0.9825 |
| <b>ebi-a-GCST90092977</b>  | Phospholipids to total lipids ratio in small VLDL                                   | acute RITs | European    | Metabolism | 137IVW             | 0.0460  | 0.0224 | 0.0404 | 0.0020  | 0.1315  | 1.0471 | 1.0020 | 1.0942 |
| <b>ieu-a-1012</b>          | Plasma cortisol   | acute RITs | European    | Metabolism | 8IVW               | -0.0596 | 0.0296 | 0.0441 | -0.1176 | 0.0660  | 0.9422 | 0.8890 | 0.9984 |
| <b>met-a-678</b>           | Pro-hydroxy-pro   | acute RITs | European    | Metabolism | 18Weighted median  | 0.4603  | 0.2244 | 0.0403 | 0.0204  | 0.9002  | 1.5845 | 1.0206 | 2.4601 |
| <b>met-a-574</b>           | Pseudouridine   | acute RITs | European    | Metabolism | 26IVW              | -0.7032 | 0.2571 | 0.0062 | -1.2070 | 1.3996  | 0.4950 | 0.2991 | 0.8193 |
| <b>met-a-501</b>           | Pyroglutamine*  | acute RITs | European    | Metabolism | 18IVW              | -0.2137 | 0.0961 | 0.0262 | -0.4020 | 0.6600  | 0.8076 | 0.6690 | 0.9750 |
| <b>met-d-SFA_pct</b>       | Ratio of saturated fatty acids to total fatty acids                                 | acute RITs | European    | Metabolism | 77MR Egger         | 0.2233  | 0.1006 | 0.0295 | 0.0261  | 0.4206  | 1.2502 | 1.0264 | 1.5229 |
| <b>met-d-TG_by_PG</b>      | Ratio of triglycerides to phosphoglycerides   | acute RITs | European    | Metabolism | 173Weighted median | -0.0743 | 0.0356 | 0.0369 | -0.1441 | -0.0045 | 0.9284 | 0.8658 | 0.9955 |
| <b>met-d-Remnant_C</b>     | Remnant cholesterol (non-HDL, non-LDL-cholesterol)                                  | acute RITs | European    | Metabolism | 114IVW             | 0.0548  | 0.0250 | 0.0286 | 0.0057  | 0.1067  | 1.0564 | 1.0058 | 1.1095 |
| <b>ebi-a-GCST005059</b>    | Serum albumin level   | acute RITs | European    | Metabolism | 18IVW              | 0.0248  | 0.0120 | 0.0387 | 0.0013  | 0.0713  | 1.0251 | 1.0013 | 1.0495 |
| <b>ebi-a-GCST90018722</b>  | Serum alkaline phosphatase levels   | acute RITs | East Asian  | Metabolism | 104IVW             | 0.0530  | 0.0235 | 0.0242 | 0.0069  | 0.1315  | 1.0544 | 1.0069 | 1.1041 |
| <b>ebi-a-GCST90025991</b>  | Serum urea levels   | acute RITs | European    | Metabolism | 321IVW             | 0.0762  | 0.0317 | 0.0161 | 0.0141  | 0.1315  | 1.0792 | 1.0142 | 1.1483 |
| <b>ebi-a-GCST90019384</b>  | SPARC-related modular calcium-binding protein 1 measurement                         | acute RITs | European    | Metabolism | 30MR Egger         | 0.0838  | 0.0382 | 0.0367 | 0.0089  | 0.1586  | 1.0874 | 1.0090 | 1.1719 |
| <b>ebi-a-GCST90060683</b>  | Sphingomyelin(32:1)_[M+OAc]   | acute RITs | South Asian | Metabolism | 20IVW              | -0.1063 | 0.0531 | 0.0452 | -0.2103 | -0.0023 | 0.8992 | 0.8104 | 0.9977 |

|                           |   |            |             |            |                    |         |        |        |         |         |        |        |        |  |
|---------------------------|---|------------|-------------|------------|--------------------|---------|--------|--------|---------|---------|--------|--------|--------|--|
|                           | ]1- levels  |            |             |            | (fixed effects)    |         |        |        |         |         |        |        |        |  |
| <b>ebi-a-GCST90060633</b> | Sphingomyelin(32:1)_[M-CH3]1- levels                    | acute RITs | South Asian | Metabolism | 16IVW              | -0.1403 | 0.0706 | 0.0470 | -0.2787 | -0.0018 | 0.8691 | 0.7568 | 0.9982 |  |
| <b>ebi-a-GCST90060643</b> | Sphingomyelin(34:2)_[M-CH3]1- levels                    | acute RITs | South Asian | Metabolism | 11IVW              | 0.3068  | 0.1209 | 0.0112 | 0.0699  | 0.1315  | 1.3591 | 1.0723 | 1.7225 |  |
| <b>ebi-a-GCST90060776</b> | Sphingomyelin(40:1)_[M+H]1+ levels                      | acute RITs | South Asian | Metabolism | 17MR Egger         | 0.1344  | 0.0607 | 0.0426 | 0.0155  | 0.2533  | 1.1439 | 1.0156 | 1.2883 |  |
| <b>ebi-a-GCST90060742</b> | Sphingomyelin(40:2)_[M-CH3]1- levels                    | acute RITs | South Asian | Metabolism | 18IVW              | 0.1836  | 0.0590 | 0.0018 | 0.0681  | 0.1315  | 1.2015 | 1.0704 | 1.3487 |  |
| <b>ebi-a-GCST90060814</b> | Sphingomyelin(41:0)_[M+H]1- levels                      | acute RITs | South Asian | Metabolism | 10MR Egger         | -0.3815 | 0.1422 | 0.0278 | -0.6603 | -0.1028 | 0.6828 | 0.5167 | 0.9023 |  |
| <b>ebi-a-GCST90060835</b> | Sphingomyelin(42:2)_[M+H]1+ levels                      | acute RITs | South Asian | Metabolism | 15Weighted median  | 0.1876  | 0.0937 | 0.0453 | 0.0040  | 0.3712  | 1.2064 | 1.0040 | 1.4495 |  |
| <b>ebi-a-GCST90060812</b> | Sphingomyelin(42:8)_[M+H]1+ levels                      | acute RITs | South Asian | Metabolism | 10IVW              | 0.0226  | 0.0108 | 0.0356 | 0.0015  | 0.1315  | 1.0229 | 1.0015 | 1.0447 |  |
| <b>met-d-Total_C</b>      | Total cholesterol                                       | acute RITs | European    | Metabolism | 113IVW             | 0.0612  | 0.0259 | 0.0179 | 0.0105  | 0.1576  | 1.0631 | 1.0106 | 1.1184 |  |
| <b>met-c-898</b>          | Total cholesterol in medium HDL                         | acute RITs | European    | Metabolism | 27IVW              | 0.0658  | 0.0298 | 0.0271 | 0.0075  | 0.2297  | 1.0680 | 1.0075 | 1.1321 |  |
| <b>ebi-a-GCST90018974</b> | Total cholesterol levels                                | acute RITs | European    | Metabolism | 294IVW             | 0.0515  | 0.0245 | 0.0356 | 0.0035  | 0.1315  | 1.0528 | 1.0035 | 1.1046 |  |
| <b>ebi-a-GCST90025953</b> | Total cholesterol levels                                | acute RITs | European    | Metabolism | 281IVW             | 0.0551  | 0.0232 | 0.0178 | 0.0095  | 0.1315  | 1.0566 | 1.0096 | 1.1058 |  |
| <b>met-d-non HDL_C</b>    | Total cholesterol minus HDL-C                           | acute RITs | European    | Metabolism | 101IVW             | 0.0561  | 0.0266 | 0.0353 | 0.0039  | 0.1100  | 1.0577 | 1.0039 | 1.1143 |  |
| <b>met-d-Total_P</b>      | Total concentration of lipoprotein particles            | acute RITs | European    | Metabolism | 126IVW             | 0.0573  | 0.0273 | 0.0360 | 0.0038  | 0.1694  | 1.0590 | 1.0038 | 1.1172 |  |
| <b>met-d-Total_CE</b>     | Total esterified cholesterol                            | acute RITs | European    | Metabolism | 113IVW             | 0.0631  | 0.0260 | 0.0153 | 0.0121  | 0.1142  | 1.0652 | 1.0122 | 1.1209 |  |
| <b>met-d-Total_FC</b>     | Total free cholesterol                                  | acute RITs | European    | Metabolism | 113IVW             | 0.0532  | 0.0256 | 0.0378 | 0.0030  | 0.1399  | 1.0546 | 1.0030 | 1.1088 |  |
| <b>met-c-957</b>          | Total lipids in chylomicrons and largest VLDL particles | acute RITs | European    | Metabolism | 25IVW              | -0.0636 | 0.0286 | 0.0262 | -0.1197 | 0.0118  | 0.9384 | 0.8872 | 0.9925 |  |
| <b>met-d-HDL_L</b>        | Total lipids in HDL                                     | acute RITs | European    | Metabolism | 164IVW             | 0.0496  | 0.0242 | 0.0407 | 0.0021  | 0.1409  | 1.0508 | 1.0021 | 1.1019 |  |
| <b>met-d-L_LDL_L</b>      | Total lipids in large LDL                               | acute RITs | European    | Metabolism | 104IVW             | 0.0499  | 0.0238 | 0.0356 | 0.0034  | 0.1038  | 1.0512 | 1.0034 | 1.1013 |  |
| <b>met-d-M_HDL_L</b>      | Total lipids in medium HDL                              | acute RITs | European    | Metabolism | 139IVW             | 0.0563  | 0.0252 | 0.0255 | 0.0069  | 0.1305  | 1.0579 | 1.0069 | 1.1114 |  |
| <b>met-d-S_LDL_L</b>      | Total lipids in small LDL                               | acute RITs | European    | Metabolism | 116IVW             | 0.0517  | 0.0227 | 0.0226 | 0.0072  | 0.0911  | 1.0530 | 1.0073 | 1.1008 |  |
| <b>met-d-XL_VLDL_L</b>    | Total lipids in very large VLDL                         | acute RITs | European    | Metabolism | 145Weighted median | -0.0798 | 0.0381 | 0.0364 | -0.1546 | -0.0051 | 0.9233 | 0.8568 | 0.9950 |  |
| <b>ukb-e-30860_CSA</b>    | Total protein   | acute RITs | South Asian | Metabolism | 23MR Egger         | -0.1607 | 0.0759 | 0.0464 | -0.3096 | -0.0119 | 0.8515 | 0.7338 | 0.9882 |  |
| <b>ebi-a-GCST90060736</b> | Triacylglycerol(44:1)_[M+NH4]1+ levels                  | acute RITs | South Asian | Metabolism | 19IVW              | -0.0198 | 0.0100 | 0.0487 | -0.0395 | 0.1315  | 0.9804 | 0.9613 | 0.9999 |  |
| <b>ebi-a-GCST90060999</b> | Triacylglycerol(56:3)_[M+NH4]1+ levels                  | acute RITs | South Asian | Metabolism | 11IVW              | -0.1254 | 0.0393 | 0.0014 | -0.2023 | 0.1315  | 0.8822 | 0.8168 | 0.9528 |  |
| <b>ukb-e-30870_CSA</b>    | Triglycerides   | acute RITs | South Asian | Metabolism | 28IVW              | 0.0364  | 0.0178 | 0.0410 | 0.0015  | 0.1290  | 1.0370 | 1.0015 | 1.0739 |  |
| <b>met-d-L_HDL_TG_pct</b> | Triglycerides to total lipids ratio in large HDL        | acute RITs | European    | Metabolism | 157Weighted median | -0.0727 | 0.0330 | 0.0277 | -0.1374 | -0.0080 | 0.9299 | 0.8716 | 0.9921 |  |
| <b>met-d-L_HDL_TG_pct</b> | Triglycerides to total lipids ratio in large HDL        | acute RITs | European    | Metabolism | 157Weighted mode   | -0.0618 | 0.0294 | 0.0370 | -0.1194 | -0.0042 | 0.9401 | 0.8874 | 0.9958 |  |
| <b>met-d-M_HDL_TG_pct</b> | Triglycerides to total lipids ratio in medium HDL       | acute RITs | European    | Metabolism | 156Weighted median | -0.0731 | 0.0334 | 0.0286 | -0.1386 | -0.0076 | 0.9295 | 0.8706 | 0.9924 |  |
| <b>met-d-M_HDL_TG_pct</b> | Triglycerides to total lipids ratio in medium HDL       | acute RITs | European    | Metabolism | 156Weighted mode   | -0.0687 | 0.0275 | 0.0134 | -0.1226 | -0.0149 | 0.9336 | 0.8846 | 0.9852 |  |
| <b>met-d-M_LDL_TG_pct</b> | Triglycerides to total lipids ratio in medium LDL       | acute RITs | European    | Metabolism | 120MR Egger        | -0.0649 | 0.0278 | 0.0211 | -0.1193 | -0.0105 | 0.9371 | 0.8875 | 0.9896 |  |
| <b>met-d-M_LDL_TG_pct</b> | Triglycerides to total lipids ratio in medium LDL       | acute RITs | European    | Metabolism | 120Weighted mode   | -0.0556 | 0.0260 | 0.0346 | -0.1066 | -0.0046 | 0.9459 | 0.8989 | 0.9954 |  |
| <b>met-d-S_HDL_TG_pct</b> | Triglycerides to total lipids                           | acute RITs | European    | Metabolism | 172Weighted mode   | -0.0717 | 0.0330 | 0.0300 | -0.1365 | -0.0069 | 0.9308 | 0.8724 | 0.9931 |  |

|                           |  |            |                                    |            |                       |          |         |        |          |          |                   |         |                         |  |
|---------------------------|--|------------|------------------------------------|------------|-----------------------|----------|---------|--------|----------|----------|-------------------|---------|-------------------------|--|
| <b>t</b>                  | ratio in small HDL   |            |                                    |            | d median              |          |         |        |          |          |                   |         |                         |  |
| <b>met-d-S_HDL_TG_pct</b> | Triglycerides to total lipids ratio in small HDL                       | acute RITs | European                           | Metabolism | 172Weighted mode      | -0.0709  | 0.0306  | 0.0217 | -0.1309  | -0.0109  | 0.9315            | 0.8773  | 0.9891                  |  |
| <b>ieu-a-786</b>          | Urate  | acute RITs | European                           | Metabolism | 51VW                  | 0.6573   | 0.3199  | 0.0399 | 0.0303   | 2.5204   | 1.9297            | 1.0308  | 3.6123                  |  |
| <b>met-c-940</b>          | Valine   | acute RITs | European                           | Metabolism | 261VW                 | 0.0712   | 0.0325  | 0.0281 | 0.0076   | 0.2519   | 1.0738            | 1.0077  | 1.1444                  |  |
| <b>ebi-a-GCST90019468</b> | von Willebrand factor A domain-containing protein 2 measurement        | acute RITs | European                           | Metabolism | 181VW                 | -0.0577  | 0.0201  | 0.0041 | -0.0971  | 0.1315   | 0.9439            | 0.9074  | 0.9819                  |  |
| <b>met-a-499</b>          | X-11334  | acute RITs | European                           | Metabolism | 251VW                 | 0.2904   | 0.1284  | 0.0237 | 0.0387   | 1.3335   | 1.3369            | 1.0395  | 1.7195                  |  |
| <b>met-a-520</b>          | X-11470  | acute RITs | European                           | Metabolism | 101VW (fixed effects) | 0.3268   | 0.1428  | 0.0221 | 0.0469   | 0.6067   | 1.3865            | 1.0481  | 1.8343                  |  |
| <b>met-a-548</b>          | X-11820  | acute RITs | European                           | Metabolism | 12MR Egger            | 0.4976   | 0.1960  | 0.0294 | 0.1135   | 0.8817   | 1.6447            | 1.1202  | 2.4149                  |  |
| <b>met-a-610</b>          | X-12442--5,8-tetradecadienoate   | acute RITs | European                           | Metabolism | 121VW                 | 0.2138   | 0.1001  | 0.0327 | 0.0176   | 0.5942   | 1.2383            | 1.0178  | 1.5067                  |  |
| <b>met-a-701</b>          | X-13671  | acute RITs | European                           | Metabolism | 13MR Egger            | -2.0201  | 0.9153  | 0.0495 | -3.8141  | -0.2262  | 0.1326            | 0.0221  | 0.7975                  |  |
| <b>met-a-715</b>          | X-14056  | acute RITs | European                           | Metabolism | 91VW                  | 0.4372   | 0.1607  | 0.0065 | 0.1223   | 1.0522   | 1.5483            | 1.1301  | 2.1214                  |  |
| <b>ukb-b-13350</b>        | PCT responsible for patient data: NOTTINGHAM CITY PCT                  | acute RITs | European                           | Other      | 161VW                 | 6.5186   | 3.2047  | 0.0419 | 0.2374   | 94.5872  | 677.6336          | 1.2680  | 362137.8920             |  |
| <b>ukb-b-6873</b>         | PCT responsible for patient data: WESTERN CHESHIRE PCT                 | acute RITs | European                           | Other      | 61VW                  | -20.3480 | 9.7145  | 0.0362 | -39.3885 | 717.0602 | 0.0000            | 0.0000  | 0.2705                  |  |
| <b>ukb-b-1539</b>         | PCT where patients GP was registered: BROXTOWE AND HUCKNALL PCT        | acute RITs | European                           | Other      | 191VW                 | 8.3038   | 3.1284  | 0.0079 | 2.1721   | 104.3861 | 4039.1087         | 8.7768  | 1858809.7596            |  |
| <b>ukb-b-6547</b>         | PCT where patients GP was registered: BURY PCT                         | acute RITs | European                           | Other      | 351VW                 | -5.3846  | 1.7986  | 0.0028 | -8.9099  | 21.0125  | 0.0046            | 0.0001  | 0.1558                  |  |
| <b>ukb-b-8205</b>         | PCT where patients GP was registered: CAMDEN PCT                       | acute RITs | European                           | Other      | 131VW                 | 10.5995  | 5.2334  | 0.0428 | 0.3420   | 443.5913 | 40115.8217        | 1.4078  | 1143105409.4280         |  |
| <b>ukb-b-2838</b>         | PCT where patients GP was registered: DURHAM AND CHESTER-LE-STREET PCT | acute RITs | European                           | Other      | 191VW                 | -7.0895  | 3.5821  | 0.0478 | -14.1103 | 102.0995 | 0.0008            | 0.0000  | 0.9337                  |  |
| <b>ukb-b-19050</b>        | PCT where patients GP was registered: EAST LANCASHIRE TEACHING PCT     | acute RITs | European                           | Other      | 51VW                  | 25.7584  | 11.7340 | 0.0281 | 2.7598   | 48.7570  | 153720437216.9070 | 15.7969 | 149585914285701000.0000 |  |
| <b>ukb-b-14654</b>        | PCT where patients GP was registered: ROCHDALE PCT                     | acute RITs | European                           | Other      | 101VW                 | 11.5378  | 5.6762  | 0.0421 | 0.4125   | 247.5472 | 102520.4772       | 1.5106  | 6957575704.7156         |  |
| <b>ukb-b-8842</b>         | PCT where patients GP was registered: SOLIHULL PCT                     | acute RITs | European                           | Other      | 61VW                  | -12.9698 | 6.5599  | 0.0480 | -25.8272 | -0.1125  | 0.0000            | 0.0000  | 0.8936                  |  |
| <b>ukb-b-7288</b>         | 3mm asymmetry angle (left)   | acute RITs | European                           | Other      | 45Weighted median     | 0.2344   | 0.0878  | 0.0076 | 0.0623   | 0.4065   | 1.2641            | 1.0642  | 1.5016                  |  |
| <b>ukb-e-5108_CSA</b>     | 3mm asymmetry angle (right)  | acute RITs | South Asian                        | Other      | 141VW                 | 0.0419   | 0.0180  | 0.0202 | 0.0065   | 0.1073   | 1.0428            | 1.0066  | 1.0803                  |  |
| <b>ukb-e-5156_AFR</b>     | 3mm asymmetry index (left)   | acute RITs | African American or Afro-Caribbean | Other      | 251VW                 | 0.0229   | 0.0109  | 0.0353 | 0.0016   | 0.0694   | 1.0232            | 1.0016  | 1.0453                  |  |
| <b>ukb-e-5107_AFR</b>     | 3mm strong meridian angle (right)                                      | acute RITs | African American or Afro-Caribbean | Other      | 131VW (fixed effects) | 0.0321   | 0.0160  | 0.0448 | 0.0007   | 0.0635   | 1.0327            | 1.0007  | 1.0656                  |  |
| <b>ukb-b-4874</b>         | 6mm asymmetry angle (right)  | acute RITs | European                           | Other      | 311VW                 | 0.1212   | 0.0602  | 0.0440 | 0.0032   | 0.6538   | 1.1289            | 1.0032  | 1.2702                  |  |

|                           |  |            |                                    |       |                       |         |        |        |         |         |         |        |         |
|---------------------------|--|------------|------------------------------------|-------|-----------------------|---------|--------|--------|---------|---------|---------|--------|---------|
| <b>ukb-e-5306_CSA</b>     | 6mm index of best keratometry results (left)                                     | acute RITs | South Asian                        | Other | 22IVW                 | 0.0605  | 0.0197 | 0.0021 | 0.0219  | 0.1481  | 1.0624  | 1.0221 | 1.1042  |
| <b>ieu-a-1095</b>         | Age at menarche  | acute RITs | European                           | Other | 154IVW                | 0.0469  | 0.0207 | 0.0234 | 0.0063  | 0.1367  | 1.0480  | 1.0064 | 1.0913  |
| <b>ukb-d-4700_irnt</b>    | Age cataract diagnosed   | acute RITs | European                           | Other | 18IVW                 | 0.0775  | 0.0328 | 0.0183 | 0.0131  | 0.4136  | 1.0805  | 1.0132 | 1.1524  |
| <b>ukb-b-1061</b>         | Age high blood pressure diagnosed  | acute RITs | European                           | Other | 62IVW                 | -0.1132 | 0.0566 | 0.0454 | -0.2241 | 0.1773  | 0.8930  | 0.7993 | 0.9977  |
| <b>ukb-e-2217_AFR</b>     | Age started wearing glasses or contact lenses                                    | acute RITs | African American or Afro-Caribbean | Other | 22Weighted mode       | 0.0606  | 0.0283 | 0.0442 | 0.0051  | 0.1161  | 1.0625  | 1.0051 | 1.1231  |
| <b>ukb-b-5090</b>         | Astigmatism angle (left)   | acute RITs | European                           | Other | 26IVW                 | -0.1748 | 0.0839 | 0.0373 | -0.3393 | 0.5408  | 0.8396  | 0.7123 | 0.9898  |
| <b>ukb-e-B96_CSA</b>      | B96 Other bacterial agents as the cause of diseases classified to other chapters | acute RITs | South Asian                        | Other | 16IVW (fixed effects) | -0.0119 | 0.0053 | 0.0240 | -0.0222 | -0.0016 | 0.9882  | 0.9780 | 0.9984  |
| <b>ukb-e-5086_AFR</b>     | Cylindrical power (left)   | acute RITs | African American or Afro-Caribbean | Other | 15IVW (fixed effects) | 0.0241  | 0.0121 | 0.0468 | 0.0003  | 0.0478  | 1.0243  | 1.0003 | 1.0489  |
| <b>ukb-b-7196</b>         | Delivery methods: Elective caesarean section                                     | acute RITs | European                           | Other | 4IVW                  | -0.4206 | 0.2144 | 0.0498 | -0.8407 | -0.0004 | 0.6567  | 0.4314 | 0.9996  |
| <b>ukb-e-2296_CSA</b>     | Falls in the last year   | acute RITs | South Asian                        | Other | 19IVW                 | -0.1090 | 0.0485 | 0.0245 | -0.2040 | 0.1602  | 0.8967  | 0.8154 | 0.9861  |
| <b>ukb-e-4935_CSA</b>     | FI1 : numeric addition test  | acute RITs | South Asian                        | Other | 16IVW                 | -0.0132 | 0.0064 | 0.0391 | -0.0258 | 0.0132  | 0.9869  | 0.9745 | 0.9993  |
| <b>ukb-d-4979</b>         | FI5 : family relationship calculation  | acute RITs | European                           | Other | 27IVW                 | -0.4732 | 0.1864 | 0.0111 | -0.8386 | 0.7872  | 0.6230  | 0.4323 | 0.8978  |
| <b>ukb-b-17738</b>        | Fractured bone site(s): Other bones  | acute RITs | European                           | Other | 30IVW                 | 1.4558  | 0.7190 | 0.0429 | 0.0467  | 7.0283  | 4.2881  | 1.0478 | 17.5497 |
| <b>ukb-a-439</b>          | Fractured bone site(s): Wrist  | acute RITs | European                           | Other | 23IVW                 | 2.3540  | 1.0368 | 0.0232 | 0.3220  | 11.7940 | 10.5281 | 1.3798 | 80.3288 |
| <b>ukb-b-9571</b>         | Fractured bone site(s): Wrist  | acute RITs | European                           | Other | 26IVW                 | 2.4754  | 1.0790 | 0.0218 | 0.3606  | 11.2980 | 11.8869 | 1.4342 | 98.5207 |
| <b>ebi-a-GCST90013913</b> | Fractured bones in last 5 years (UKB data field 2463) (Firth correction)         | acute RITs | European                           | Other | 67MR Egger            | 0.1965  | 0.0968 | 0.0464 | 0.0068  | 0.3863  | 1.2172  | 1.0068 | 1.4715  |
| <b>ukb-a-2</b>            | Frequency of light DIY in last 4 weeks   | acute RITs | European                           | Other | 25Weighted median     | 0.2842  | 0.1257 | 0.0238 | 0.0378  | 0.5307  | 1.3288  | 1.0386 | 1.7001  |
| <b>ebi-a-GCST90019399</b> | Gelsolin measurement   | acute RITs | European                           | Other | 20IVW                 | -0.0730 | 0.0323 | 0.0237 | -0.1363 | 0.1315  | 0.9296  | 0.8726 | 0.9903  |
| <b>ukb-a-340</b>          | Hearing aid user   | acute RITs | European                           | Other | 27IVW                 | 1.1511  | 0.5195 | 0.0267 | 0.1329  | 1.2526  | 3.1617  | 1.1421 | 8.7529  |
| <b>ukb-b-19060</b>        | Hearing aid user   | acute RITs | European                           | Other | 40IVW                 | 1.2710  | 0.4827 | 0.0085 | 0.3250  | 2.2171  | 3.5645  | 1.3840 | 9.1806  |
| <b>ukb-e-4849_p2_AFR</b>  | Hearing test done  | acute RITs | African American or Afro-Caribbean | Other | 25MR Egger            | -0.0062 | 0.0029 | 0.0423 | -0.0118 | -0.0005 | 0.9938  | 0.9883 | 0.9995  |
| <b>ukb-e-6141_p2_AFR</b>  | How are people in household related to participant                               | acute RITs | African American or Afro-Caribbean | Other | 20IVW                 | -0.0194 | 0.0078 | 0.0134 | -0.0347 | 0.0138  | 0.9808  | 0.9659 | 0.9960  |
| <b>ukb-e-6145_p2_AFR</b>  | Illness, injury, bereavement, stress in last 2 years                             | acute RITs | African American or Afro-Caribbean | Other | 31IVW                 | 0.0127  | 0.0063 | 0.0448 | 0.0003  | 0.0387  | 1.0128  | 1.0003 | 1.0254  |
| <b>ukb-e-6145_p4_CSA</b>  | Illness, injury, bereavement, stress in last 2 years                             | acute RITs | South Asian                        | Other | 13IVW                 | -0.0306 | 0.0145 | 0.0345 | -0.0589 | 0.0729  | 0.9699  | 0.9428 | 0.9978  |
| <b>ukb-b-14449</b>        | Index of best refractometry result (left)  | acute RITs | European                           | Other | 16IVW                 | 0.2687  | 0.1340 | 0.0449 | 0.0061  | 0.7105  | 1.3083  | 1.0062 | 1.7012  |
| <b>ukb-e-41244_p2_CSA</b> | Intended management of patient (recoded)   | acute RITs | South Asian                        | Other | 20Weighted median     | -0.0310 | 0.0155 | 0.0450 | -0.0613 | -0.0007 | 0.9695  | 0.9406 | 0.9993  |
| <b>ukb-b-16311</b>        | Interval between previous point and current one in alphanumeric path (trail #2)  | acute RITs | European                           | Other | 73IVW                 | 0.1028  | 0.0489 | 0.0353 | 0.0071  | 0.5844  | 1.1083  | 1.0071 | 1.2197  |
| <b>ebi-a-GCST90013453</b> | Lack of behavioral control   | acute RITs | European                           | Other | 7IVW                  | -0.0698 | 0.0302 | 0.0208 | -0.1289 | 0.0715  | 0.9326  | 0.8790 | 0.9895  |

|                             |  |            |                                    |       |                       |         |        |        |         |         |        |        |         |
|-----------------------------|--|------------|------------------------------------|-------|-----------------------|---------|--------|--------|---------|---------|--------|--------|---------|
| <b>ukb-e-4728_CSA</b>       | Leg pain on walking  | acute RITs | South Asian                        | Other | 23IVW                 | -0.0262 | 0.0088 | 0.0030 | -0.0434 | 0.0231  | 0.9742 | 0.9575 | 0.9911  |
| <b>ukb-e-6160_p5_AFR</b>    | Leisure/social activities  | acute RITs | African American or Afro-Caribbean | Other | 16IVW                 | -0.0136 | 0.0061 | 0.0264 | -0.0257 | 0.0149  | 0.9865 | 0.9747 | 0.9984  |
| <b>ukb-e-41245_p20_CS A</b> | Main speciality of consultant (recoded)                                      | acute RITs | South Asian                        | Other | 11Weighted median     | -0.0522 | 0.0225 | 0.0203 | -0.0964 | -0.0081 | 0.9491 | 0.9081 | 0.9919  |
| <b>ukb-e-41245_p6_AFR</b>   | Main speciality of consultant (recoded)                                      | acute RITs | African American or Afro-Caribbean | Other | 18IVW                 | 0.0125  | 0.0050 | 0.0131 | 0.0026  | 0.0272  | 1.0126 | 1.0026 | 1.0226  |
| <b>ukb-a-392</b>            | Maximum workload during fitness test   | acute RITs | European                           | Other | 17IVW                 | -0.2268 | 0.0910 | 0.0127 | -0.4051 | 0.2119  | 0.7971 | 0.6669 | 0.9527  |
| <b>ebi-a-GCST90002397</b>   | Mean spheric corpuscular volume  | acute RITs | European                           | Other | 637IVW                | 0.0320  | 0.0146 | 0.0288 | 0.0033  | 0.0657  | 1.0325 | 1.0033 | 1.0625  |
| <b>ukb-e-41249_p4_AFR</b>   | Methods of admission to hospital (recoded)                                   | acute RITs | African American or Afro-Caribbean | Other | 22IVW                 | -0.0139 | 0.0068 | 0.0400 | -0.0272 | 0.0040  | 0.9862 | 0.9731 | 0.9994  |
| <b>ukb-b-5477</b>           | Methods of admission to hospital (recoded): Elective admission               | acute RITs | European                           | Other | 237IVW                | -0.7048 | 0.3307 | 0.0331 | -1.3530 | -0.0566 | 0.4942 | 0.2585 | 0.9449  |
| <b>ukb-b-10655</b>          | Methods of admission to hospital (recoded): Emergency admission              | acute RITs | European                           | Other | 61Weighted median     | 1.5397  | 0.7268 | 0.0341 | 0.1151  | 2.9642  | 4.6630 | 1.1220 | 19.3795 |
| <b>ukb-b-4540</b>           | Methods of admission to hospital (recoded): Emergency admission: Non-injury  | acute RITs | European                           | Other | 134Weighted median    | -1.7754 | 0.8289 | 0.0322 | -3.4000 | -0.1509 | 0.1694 | 0.0334 | 0.8600  |
| <b>ukb-b-19790</b>          | Methods of admission to hospital (recoded): Maternity admission: Post-partum | acute RITs | European                           | Other | 18IVW                 | -2.6868 | 1.3409 | 0.0451 | -5.3150 | -0.0585 | 0.0681 | 0.0049 | 0.9432  |
| <b>ukb-e-41250_p1_AFR</b>   | Methods of discharge from hospital (recoded)                                 | acute RITs | African American or Afro-Caribbean | Other | 22MR Egger            | 0.0215  | 0.0101 | 0.0462 | 0.0017  | 0.0413  | 1.0217 | 1.0017 | 1.0422  |
| <b>ukb-e-52_p9_CSA</b>      | Month of birth   | acute RITs | South Asian                        | Other | 5IVW (fixed effects)  | 0.0286  | 0.0141 | 0.0430 | 0.0009  | 0.0563  | 1.0290 | 1.0009 | 1.0579  |
| <b>ukb-a-12</b>             | Nap during day   | acute RITs | European                           | Other | 192IVW                | 0.1846  | 0.0821 | 0.0246 | 0.0236  | 0.3456  | 1.2027 | 1.0239 | 1.4128  |
| <b>ukb-d-2654_8</b>         | Non-butter spread type details: Other low or reduced fat spread              | acute RITs | European                           | Other | 18Weighted median     | -1.3004 | 0.6333 | 0.0400 | -2.5416 | -0.0591 | 0.2724 | 0.0787 | 0.9426  |
| <b>ukb-d-2654_9</b>         | Non-butter spread type details: Other type of spread/margarine               | acute RITs | European                           | Other | 9IVW                  | -2.1637 | 1.0670 | 0.0426 | -4.2550 | 15.0764 | 0.1149 | 0.0142 | 0.9302  |
| <b>ukb-d-2654_4</b>         | Non-butter spread type details: Soft (tub) margarine                         | acute RITs | European                           | Other | 34IVW                 | -0.7823 | 0.3189 | 0.0142 | -1.4073 | 1.1200  | 0.4573 | 0.2448 | 0.8544  |
| <b>ukb-e-4291_CSA</b>       | Number of attempts   | acute RITs | South Asian                        | Other | 10IVW (fixed effects) | -0.0259 | 0.0129 | 0.0453 | -0.0512 | -0.0005 | 0.9745 | 0.9501 | 0.9995  |
| <b>ieu-b-4827</b>           | Number of children ever born measurement                                     | acute RITs | European                           | Other | 15IVW                 | 0.1082  | 0.0430 | 0.0120 | 0.0238  | 0.3911  | 1.1142 | 1.0241 | 1.2123  |
| <b>ukb-b-2988</b>           | Number of fluid intelligence questions attempted within time limit           | acute RITs | European                           | Other | 106IVW                | -0.0510 | 0.0233 | 0.0285 | -0.0966 | 0.2286  | 0.9503 | 0.9079 | 0.9947  |
| <b>ukb-e-399_CSA</b>        | Number of incorrect matches in round   | acute RITs | South Asian                        | Other | 11MR Egger            | 0.1304  | 0.0559 | 0.0446 | 0.0208  | 0.2400  | 1.1393 | 1.0210 | 1.2712  |
| <b>ukb-b-1209</b>           | Number of live births  | acute RITs | European                           | Other | 78IVW (fixed effects) | 0.1223  | 0.0612 | 0.0456 | 0.0024  | 0.2423  | 1.1301 | 1.0024 | 1.2742  |
| <b>ukb-b-6891</b>           | Number of triplets attempted   | acute RITs | European                           | Other | 15IVW                 | -0.1806 | 0.0652 | 0.0056 | -0.3084 | -0.0529 | 0.8348 | 0.7347 | 0.9485  |

|                           |   |            |                                    |       |                    |         |        |        |         |         |        |        |        |
|---------------------------|---|------------|------------------------------------|-------|--------------------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>ukb-b-4909</b>         | (left)<br>Number of triplets attempted (right)                                    | acute RITs | European                           | Other | 25IVW              | 0.1380  | 0.0559 | 0.0135 | 0.0285  | 0.1971  | 1.1480 | 1.0289 | 1.2809 |
| <b>ukb-e-4276_AFR</b>     | Number of triplets attempted (right)  | acute RITs | African American or Afro-Caribbean | Other | 5IVW               | -0.0732 | 0.0335 | 0.0291 | -0.1389 | 0.2040  | 0.9294 | 0.8703 | 0.9926 |
| <b>ebi-a-GCST90012790</b> | Percentage of invited food questionnaires completed                               | acute RITs | European                           | Other | 118Weighted median | -0.0056 | 0.0027 | 0.0386 | -0.0109 | -0.0003 | 0.9944 | 0.9891 | 0.9997 |
| <b>ukb-e-20018_AFR</b>    | Prospective memory result   | acute RITs | African American or Afro-Caribbean | Other | 11IVW              | -0.0885 | 0.0356 | 0.0128 | -0.1582 | 0.0768  | 0.9153 | 0.8536 | 0.9814 |
| <b>ukb-e-20019_AFR</b>    | Speech-reception-threshold (SRT) estimate (left)                                  | acute RITs | African American or Afro-Caribbean | Other | 16IVW              | -0.0324 | 0.0150 | 0.0311 | -0.0619 | 0.0025  | 0.9681 | 0.9400 | 0.9971 |
| <b>ukb-d-20531</b>        | Victim of sexual assault  | acute RITs | European                           | Other | 25IVW              | 0.7709  | 0.3546 | 0.0297 | 0.0759  | 2.5118  | 2.1616 | 1.0789 | 4.3310 |
| <b>ukb-e-3659_CSA</b>     | Year immigrated to UK (United Kingdom)  | acute RITs | South Asian                        | Other | 21IVW              | 0.0963  | 0.0459 | 0.0359 | 0.0063  | 0.2799  | 1.1011 | 1.0063 | 1.2048 |
| <b>ukb-e-Z53_AFR</b>      | Z53 Persons encountering health services for specific procedures, not carried out | acute RITs | African American or Afro-Caribbean | Other | 15MR Egger         | -0.0286 | 0.0118 | 0.0307 | -0.0517 | -0.0055 | 0.9718 | 0.9496 | 0.9945 |

**Table S2 Results of phenome-wide Mendelian randomization analysis of 181 traits in the Robust category for acute radiation-induced toxicities (RITs)**

| Exposure ID               | Outcome    | Trait name  | Population                         | Category        | SNPn method | $\beta$ | Se     | P value | Lo_ci   | Up_ci    | OR               | OR_lci <sub>95</sub> | OR_uci <sub>95</sub>   |
|---------------------------|------------|---|------------------------------------|-----------------|-------------|---------|--------|---------|---------|----------|------------------|----------------------|------------------------|
| <b>ieu-a-61</b>           | acute RITs | Waist circumference                                       | European                           | Anthropometrics | 105IVW      | 0.0969  | 0.0409 | 0.0179  | 0.0167  | 0.3838   | 1.1017           | 1.0168               | 1.1937                 |
| <b>ebi-a-GCST90013422</b> | acute RITs | Ultradistal forearm bone mineral density                  | European                           | Anthropometrics | 45IVW       | -0.0673 | 0.0228 | 0.0031  | -0.1119 | 0.0715   | 0.9349           | 0.8941               | 0.9776                 |
| <b>ukb-e-23127_AFR</b>    | acute RITs | Trunk fat percentage                                      | African American or Afro-Caribbean | Anthropometrics | 33IVW       | -0.0469 | 0.0164 | 0.0043  | -0.0791 | 0.0540   | 0.9542           | 0.9239               | 0.9854                 |
| <b>ukb-b-17848</b>        | acute RITs | Heel quantitative ultrasound index (QUI), manual entry    | European                           | Anthropometrics | 114IVW      | -0.0583 | 0.0183 | 0.0014  | -0.0941 | 0.0528   | 0.9434           | 0.9102               | 0.9777                 |
| <b>ukb-b-11364</b>        | acute RITs | Heel bone mineral density (BMD), manual entry             | European                           | Anthropometrics | 118IVW      | -0.0547 | 0.0182 | 0.0027  | -0.0904 | 0.0399   | 0.9468           | 0.9135               | 0.9812                 |
| <b>ukb-b-8909</b>         | acute RITs | Body fat percentage                                       | European                           | Anthropometrics | 644IVW      | 0.0711  | 0.0339 | 0.0360  | 0.0046  | 0.2587   | 1.0737           | 1.0047               | 1.1476                 |
| <b>ebi-a-GCST90018875</b> | acute RITs | Lung cancer   | European                           | Disease         | 25IVW       | 0.0498  | 0.0217 | 0.0215  | 0.0073  | 0.1315   | 1.0511           | 1.0074               | 1.0967                 |
| <b>ebi-a-GCST012876</b>   | acute RITs | Colorectal cancer   | European                           | Disease         | 36IVW       | -0.0535 | 0.0188 | 0.0044  | -0.0903 | 0.0635   | 0.9479           | 0.9136               | 0.9834                 |
| <b>ukb-b-13545</b>        | acute RITs | Cancer code, self-reported: uterine/endometrial cancer    | European                           | Disease         | 5IVW        | 21.5551 | 7.9916 | 0.0070  | 5.8915  | 259.8108 | 229741.4605.8295 | 361.9402             | 14582834247476100.0000 |
| <b>ukb-a-246</b>          | acute RITs | Seen doctor (GP) for nerves anxiety tension or depression | European                           | Disease         | 131IVW      | 0.3240  | 0.1376 | 0.0185  | 0.0544  | 0.5936   | 1.3826           | 1.0559               | 1.8105                 |
| <b>ukb-b-14027</b>        | acute RITs | Non-cancer illness code, self-reported: chickenpox        | European                           | Disease         | 6IVW        | 18.4089 | 5.9791 | 0.0021  | 6.6898  | 283.0909 | 98831975.3985    | 804.1785             | 12146257123423.7000    |
| <b>ukb-b-19354</b>        | acute RITs | Diagnoses - main ICD10:                                   | European                           | Disease         | 9IVW        | 10.2213 | 3.0951 | 0.0010  | 4.1550  | 16.287   | 27483.           | 63.753               | 118480                 |

|                           |            |   |                                    |         |        |         |        |        |         |         |          |        |           |         |
|---------------------------|------------|---|------------------------------------|---------|--------|---------|--------|--------|---------|---------|----------|--------|-----------|---------|
|                           |            | K20 Oesophagitis  |                                    |         |        |         |        |        |         |         | 7        | 6981   | 6         | 11.6535 |
| <b>ukb-b-2592</b>         | acute RITs | Non-cancer illness code, self-reported: irritable bowel syndrome                                    | European                           | Disease | 18IVW  | 4.8102  | 1.6789 | 0.0042 | 1.5195  | 22.1987 | 122.7576 | 4.5699 | 3297.5570 |         |
| <b>ebi-a-GCST90038626</b> | acute RITs | Irritable bowel syndrome  | NA                                 | Disease | 22IVW  | 3.5530  | 1.3483 | 0.0084 | 0.9102  | 0.1315  | 34.9171  | 2.4849 | 490.6377  |         |
| <b>ukb-b-18596</b>        | acute RITs | Pain type(s) experienced in last month: Neck or shoulder pain                                       | European                           | Disease | 90IVW  | 0.5368  | 0.2377 | 0.0239 | 0.0709  | 1.0027  | 1.7106   | 1.0735 | 2.7257    |         |
| <b>ebi-a-GCST006940</b>   | acute RITs | Neurociticism   | European                           | Disease | 286IVW | 0.0929  | 0.0420 | 0.0268 | 0.0107  | 0.2398  | 1.0974   | 1.0108 | 1.1915    |         |
| <b>ebi-a-GCST90018683</b> | acute RITs | Pollinosis  | East Asian                         | Disease | 25IVW  | 0.0907  | 0.0372 | 0.0149 | 0.0177  | 0.1315  | 1.0949   | 1.0178 | 1.1778    |         |
| <b>bbj-a-129</b>          | acute RITs | Ischemic stroke   | East Asian                         | Disease | 35IVW  | 0.0621  | 0.0213 | 0.0035 | 0.0204  | 0.1563  | 1.0640   | 1.0206 | 1.1093    |         |
| <b>ebi-a-GCST90018897</b> | acute RITs | Periodontal disease   | European                           | Disease | 16IVW  | 0.0594  | 0.0254 | 0.0192 | 0.0097  | 0.1315  | 1.0612   | 1.0097 | 1.1153    |         |
| <b>ebi-a-GCST008026</b>   | acute RITs | Chronic kidney disease  | Hispanic or Latin American         | Disease | 31IVW  | 0.0347  | 0.0137 | 0.0113 | 0.0079  | 0.0472  | 1.0353   | 1.0079 | 1.0636    |         |
| <b>bbj-a-71</b>           | acute RITs | Atrial Fibrillation   | East Asian                         | Disease | 67IVW  | 0.0199  | 0.0084 | 0.0184 | 0.0033  | 0.0488  | 1.0201   | 1.0034 | 1.0370    |         |
| <b>ukb-e-6152_p1_AFR</b>  | acute RITs | Blood clot, DVT, bronchitis, emphysema, asthma, rhinitis, eczema, allergy diagnosed by doctor       | African American or Afro-Caribbean | Disease | 16IVW  | 0.0176  | 0.0073 | 0.0159 | 0.0033  | 0.0341  | 1.0178   | 1.0033 | 1.0324    |         |
| <b>ukb-e-596_CSA</b>      | acute RITs | Other disorders of bladder  | South Asian                        | Disease | 12IVW  | 0.0136  | 0.0049 | 0.0060 | 0.0039  | 0.0344  | 1.0137   | 1.0039 | 1.0235    |         |
| <b>ieu-a-30</b>           | acute RITs | Crohn's disease   | European                           | Disease | 115IVW | -0.0142 | 0.0057 | 0.0136 | -0.0254 | 0.0043  | 0.9859   | 0.9749 | 0.9971    |         |
| <b>ebi-a-GCST90011866</b> | acute RITs | Systemic lupus erythematosus  | East Asian                         | Disease | 78IVW  | -0.0155 | 0.0055 | 0.0044 | -0.0262 | -0.0093 | 0.9846   | 0.9741 | 0.9952    |         |
| <b>ebi-a-GCST003045</b>   | acute RITs | Ulcerative colitis  | European                           | Disease | 143IVW | -0.0198 | 0.0083 | 0.0172 | -0.0360 | -0.0044 | 0.9804   | 0.9646 | 0.9965    |         |
| <b>ebi-a-GCST003043</b>   | acute RITs | Inflammatory bowel disease  | European                           | Disease | 199IVW | -0.0199 | 0.0080 | 0.0133 | -0.0356 | 0.0097  | 0.9803   | 0.9650 | 0.9959    |         |
| <b>ieu-a-292</b>          | acute RITs | Inflammatory bowel disease  | European                           | Disease | 176IVW | -0.0202 | 0.0078 | 0.0094 | -0.0355 | 0.0196  | 0.9800   | 0.9651 | 0.9951    |         |
| <b>ieu-a-970</b>          | acute RITs | Ulcerative colitis  | European                           | Disease | 145IVW | -0.0221 | 0.0082 | 0.0067 | -0.0381 | -0.0045 | 0.9781   | 0.9626 | 0.9939    |         |
| <b>ebi-a-GCST90018706</b> | acute RITs | Type 2 diabetes   | East Asian                         | Disease | 174IVW | -0.0246 | 0.0098 | 0.0119 | -0.0437 | 0.1315  | 0.9757   | 0.9572 | 0.9946    |         |
| <b>bbj-a-153</b>          | acute RITs | Type 2 diabetes   | East Asian                         | Disease | 203IVW | -0.0285 | 0.0104 | 0.0061 | -0.0490 | 0.0049  | 0.9719   | 0.9522 | 0.9919    |         |
| <b>ukb-e-K21_CS A</b>     | acute RITs | K21 Gastro-oesophageal reflux disease   | South Asian                        | Disease | 10IVW  | -0.0351 | 0.0109 | 0.0013 | -0.0565 | 0.0566  | 0.9656   | 0.9451 | 0.9865    |         |
| <b>ebi-a-GCST90000026</b> | acute RITs | Appendicular lean mass  | European                           | Disease | 570IVW | -0.0422 | 0.0186 | 0.0233 | -0.0786 | 0.0635  | 0.9587   | 0.9244 | 0.9943    |         |
| <b>ieu-a-1169</b>         | acute RITs | Hip osteoarthritis  | European                           | Disease | 13IVW  | -0.0470 | 0.0183 | 0.0101 | -0.0829 | -0.0112 | 0.9540   | 0.9205 | 0.9888    |         |
| <b>ebi-a-GCST90018625</b> | acute RITs | Food allergy  | East Asian                         | Disease | 10IVW  | -0.0738 | 0.0289 | 0.0107 | -0.1305 | 0.1315  | 0.9289   | 0.8777 | 0.9831    |         |
| <b>ukb-a-94</b>           | acute RITs | Non-cancer illness code self-reported: hayfever/allergic rhinitis                                   | European                           | Disease | 72IVW  | -0.7422 | 0.3294 | 0.0243 | -1.3878 | 2.4490  | 0.4761   | 0.2496 | 0.9080    |         |
| <b>ukb-a-521</b>          | acute RITs | Diagnoses - main ICD10: D12 Benign neoplasm of colon rectum anus and anal canal                     | European                           | Disease | 24IVW  | -3.7761 | 1.2442 | 0.0024 | -6.2148 | -3.6729 | 0.0229   | 0.0020 | 0.2625    |         |
| <b>ukb-b-10911</b>        | acute RITs | Diagnoses - secondary ICD10: Z92.2 Personal history of long-term (current) use of other medicaments | European                           | Disease | 19IVW  | -4.9026 | 1.6296 | 0.0026 | -8.0967 | -3.0799 | 0.0074   | 0.0003 | 0.1811    |         |
| <b>ukb-a-86</b>           | acute RITs | Non-cancer illness code   | European                           | Disease | 25IVW  | -6.7112 | 2.4351 | 0.0059 | -11.483 | 3.9309  | 0.0012   | 0.0000 | 0.1439    |         |

|                           |            |  |                            |                               |        |          |        |        |          |         |        |        |        |  |
|---------------------------|------------|--|----------------------------|-------------------------------|--------|----------|--------|--------|----------|---------|--------|--------|--------|--|
|                           |            | self-reported: joint disorder  |                            |                               |        |          |        |        |          | 9       |        |        |        |  |
| <b>ukb-d-K81</b>          | acute RITs | Diagnoses - main ICD10: K81 Cholecystitis  | European                   | Disease                       | 21IVW  | -7.3253  | 2.3565 | 0.0019 | -11.9441 | 1.3929  | 0.0007 | 0.0000 | 0.0668 |  |
| <b>ukb-b-3145</b>         | acute RITs | Diagnoses - main ICD10: C44.5 Skin of trunk  | European                   | Disease                       | 7IVW   | -15.1271 | 6.0226 | 0.0120 | -26.9314 | -3.3228 | 0.0000 | 0.0000 | 0.0361 |  |
| <b>ebi-a-GCST90032488</b> | acute RITs | Negativibacillus massiliensis abundance in stool   | European                   | Gut microbiota                | 15IVW  | -0.1690  | 0.0638 | 0.0081 | -0.2941  | 0.1315  | 0.8445 | 0.7452 | 0.9571 |  |
| <b>ebi-a-GCST90032569</b> | acute RITs | Succiniclasticum abundance in stool  | European                   | Gut microbiota                | 30IVW  | -0.1233  | 0.0504 | 0.0145 | -0.2221  | 0.1315  | 0.8840 | 0.8008 | 0.9759 |  |
| <b>ebi-a-GCST90027824</b> | acute RITs | Gut microbiota abundance (k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g_Bacteroides.s_Bacteroides_dorei)           | European                   | Gut microbiota                | 15IVW  | -0.1066  | 0.0309 | 0.0006 | -0.1671  | 0.1315  | 0.8989 | 0.8461 | 0.9550 |  |
| <b>ebi-a-GCST90017040</b> | acute RITs | Gut microbiota abundance (genus Paraprevotella id.962)   | European                   | Gut microbiota                | 13IVW  | -0.0802  | 0.0337 | 0.0174 | -0.1463  | 0.1315  | 0.9229 | 0.8639 | 0.9860 |  |
| <b>ebi-a-GCST90027765</b> | acute RITs | Gut microbiota abundance (k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Porphyrionadaceae.g_Odoribacter.s_Odoribacter_splanchnicus) | European                   | Gut microbiota                | 14IVW  | -0.0723  | 0.0277 | 0.0090 | -0.1266  | 0.1315  | 0.9302 | 0.8811 | 0.9821 |  |
| <b>ebi-a-GCST90027487</b> | acute RITs | Gut bacterial pathway abundance (KETOGLUCONMET.PWY.ketogluconate.metabolism)   | European                   | Gut microbiota                | 11IVW  | -0.0508  | 0.0205 | 0.0132 | -0.0910  | 0.1315  | 0.9505 | 0.9130 | 0.9894 |  |
| <b>ebi-a-GCST90011556</b> | acute RITs | OTU97_100 (Ruminococcaceae) prevalence   | European                   | Gut microbiota                | 8IVW   | -0.0417  | 0.0166 | 0.0120 | -0.0743  | 0.2470  | 0.9591 | 0.9284 | 0.9909 |  |
| <b>ebi-a-GCST90011636</b> | acute RITs | OTU99_155 (Butyrivibrio) prevalence  | European                   | Gut microbiota                | 8IVW   | 0.0307   | 0.0117 | 0.0088 | 0.0077   | 0.2470  | 1.0312 | 1.0078 | 1.0551 |  |
| <b>ebi-a-GCST90017082</b> | acute RITs | Gut microbiota abundance (unknown genus id.2001)   | European                   | Gut microbiota                | 10IVW  | 0.1053   | 0.0418 | 0.0117 | 0.0234   | 0.1315  | 1.1111 | 1.0237 | 1.2059 |  |
| <b>ebi-a-GCST90016952</b> | acute RITs | Gut microbiota abundance (family Streptococcaceae id.1850)   | European                   | Gut microbiota                | 14IVW  | 0.1190   | 0.0442 | 0.0071 | 0.0323   | 0.1315  | 1.1264 | 1.0329 | 1.2284 |  |
| <b>ebi-a-GCST90017101</b> | acute RITs | Gut microbiota abundance (order Lactobacillales id.1800)   | European                   | Gut microbiota                | 15IVW  | 0.1347   | 0.0439 | 0.0022 | 0.0486   | 0.1315  | 1.1442 | 1.0498 | 1.2470 |  |
| <b>ukb-e-Z09_CSA</b>      | acute RITs | Z09 Follow-up examination after treatment for conditions other than malignant neoplasms  | South Asian                | Health and hematologic traits | 10IVW  | 0.0156   | 0.0046 | 0.0007 | 0.0066   | 0.0346  | 1.0158 | 1.0066 | 1.0250 |  |
| <b>ukb-a-251</b>          | acute RITs | Overall health rating  | European                   | Health and hematologic traits | 262IVW | 0.1497   | 0.0621 | 0.0159 | 0.0280   | 0.2715  | 1.1615 | 1.0284 | 1.3119 |  |
| <b>ebi-a-GCST90020194</b> | acute RITs | Inferior Posterior lobe of cerebellar volume (including Crus II to IX hemispheric lobules)   | European                   | Health and hematologic traits | 73IVW  | -0.1103  | 0.0435 | 0.0112 | -0.1955  | 0.1315  | 0.8955 | 0.8224 | 0.9752 |  |
| <b>ebi-a-GCST008029</b>   | acute RITs | Diastolic blood pressure   | Hispanic or Latin American | Health and hematologic traits | 53IVW  | 0.0064   | 0.0028 | 0.0198 | 0.0010   | 0.0301  | 1.0064 | 1.0010 | 1.0119 |  |
| <b>ukb-d-30040_iron</b>   | acute RITs | Mean corpuscular volume  | European                   | Health and hematologic traits | 477IVW | 0.0445   | 0.0157 | 0.0047 | 0.0137   | 0.1025  | 1.0455 | 1.0138 | 1.0782 |  |

|                           |            |  |                                    |                               |        |         |        |        |         |         |        |        |        |
|---------------------------|------------|--|------------------------------------|-------------------------------|--------|---------|--------|--------|---------|---------|--------|--------|--------|
| <b>ebi-a-GCST004602</b>   | acute RITs | Mean corpuscular volume                                      | European                           | Health and hematologic traits | 314IVW | 0.0366  | 0.0145 | 0.0117 | 0.0081  | 0.0873  | 1.0373 | 1.0082 | 1.0673 |
| <b>ebi-a-GCST90025962</b> | acute RITs | Mean corpuscular hemoglobin concentration                    | European                           | Health and hematologic traits | 498IVW | 0.0429  | 0.0165 | 0.0092 | 0.0106  | 0.1315  | 1.0439 | 1.0107 | 1.0781 |
| <b>ebi-a-GCST004630</b>   | acute RITs | Mean corpuscular hemoglobin                                  | European                           | Health and hematologic traits | 296IVW | 0.0441  | 0.0149 | 0.0030 | 0.0150  | 0.0995  | 1.0451 | 1.0151 | 1.0759 |
| <b>ebi-a-GCST90013925</b> | acute RITs | Irritability (UKB data field 1940) (SPA correction)          | European                           | Health and hematologic traits | 148IVW | 0.0634  | 0.0280 | 0.0235 | 0.0085  | 0.2973  | 1.0655 | 1.0086 | 1.1256 |
| <b>ebi-a-GCST90013875</b> | acute RITs | Irritability (UKB data field 1940) (Firth correction)        | European                           | Health and hematologic traits | 148IVW | 0.0634  | 0.0280 | 0.0237 | 0.0085  | 0.2958  | 1.0654 | 1.0085 | 1.1255 |
| <b>ebi-a-GCST006944</b>   | acute RITs | Experiencing mood swings                                     | European                           | Health and hematologic traits | 156IVW | 0.1296  | 0.0585 | 0.0267 | 0.0150  | 0.2398  | 1.1384 | 1.0151 | 1.2767 |
| <b>ebi-a-GCST90025968</b> | acute RITs | Systolic blood pressure                                      | European                           | Health and hematologic traits | 498IVW | 0.0763  | 0.0273 | 0.0052 | 0.0228  | 0.1315  | 1.0793 | 1.0230 | 1.1387 |
| <b>ebi-a-GCST90001577</b> | acute RITs | Transitional B cell Absolute Count                           | European                           | Health and hematologic traits | 22IVW  | 0.0423  | 0.0181 | 0.0191 | 0.0069  | 0.0635  | 1.0433 | 1.0070 | 1.0808 |
| <b>ebi-a-GCST004601</b>   | acute RITs | Red blood cell count   | European                           | Health and hematologic traits | 313IVW | -0.0497 | 0.0205 | 0.0153 | -0.0898 | -0.0166 | 0.9516 | 0.9141 | 0.9905 |
| <b>ebi-a-GCST90002356</b> | acute RITs | Platelet count   | Mixed                              | Health and hematologic traits | 48IVW  | 0.0534  | 0.0172 | 0.0019 | 0.0197  | 0.1247  | 1.0549 | 1.0199 | 1.0911 |
| <b>ebi-a-GCST90001396</b> | acute RITs | IgD+ CD38- B cell Absolute Count                             | European                           | Health and hematologic traits | 12IVW  | -0.0493 | 0.0195 | 0.0114 | -0.0874 | 0.0635  | 0.9519 | 0.9163 | 0.9890 |
| <b>ebi-a-GCST90001431</b> | acute RITs | IgD+ CD38- B cell %lymphocyte                                | European                           | Health and hematologic traits | 11IVW  | -0.0607 | 0.0228 | 0.0076 | -0.1053 | 0.0635  | 0.9411 | 0.9000 | 0.9840 |
| <b>ebi-a-GCST90001491</b> | acute RITs | CD39+ activated CD4 regulatory T cell %CD4 regulatory T cell | European                           | Health and hematologic traits | 20IVW  | -0.0234 | 0.0071 | 0.0010 | -0.0374 | 0.0635  | 0.9769 | 0.9633 | 0.9906 |
| <b>ebi-a-GCST90001641</b> | acute RITs | CD3- lymphocyte %leukocyte                                   | European                           | Health and hematologic traits | 16IVW  | -0.0437 | 0.0170 | 0.0102 | -0.0771 | 0.0635  | 0.9572 | 0.9258 | 0.9897 |
| <b>ebi-a-GCST90001654</b> | acute RITs | CD28- CD4-CD8- T cell Absolute Count                         | European                           | Health and hematologic traits | 21IVW  | -0.0308 | 0.0130 | 0.0180 | -0.0564 | 0.0635  | 0.9696 | 0.9452 | 0.9947 |
| <b>ukb-e-4570_AFR</b>     | acute RITs | Friendships satisfaction                                     | African American or Afro-Caribbean | Health and hematologic traits | 22IVW  | -0.0382 | 0.0154 | 0.0133 | -0.0683 | 0.1014  | 0.9626 | 0.9339 | 0.9921 |
| <b>prot-a-3084</b>        | acute RITs | Thiamin pyrophosphokinase 1                                  | European                           | Infection and immunity        | 17IVW  | -0.0537 | 0.0211 | 0.0111 | -0.0951 | -0.0122 | 0.9477 | 0.9093 | 0.9878 |
| <b>prot-a-3068</b>        | acute RITs | Tenascin-R   | European                           | Infection and immunity        | 22IVW  | 0.0481  | 0.0158 | 0.0024 | 0.0171  | 0.1250  | 1.0492 | 1.0172 | 1.0823 |
| <b>prot-a-2795</b>        | acute RITs | Sorting nexin-7  | European                           | Infection and immunity        | 24IVW  | 0.0413  | 0.0168 | 0.0139 | 0.0084  | 0.1712  | 1.0422 | 1.0084 | 1.0771 |
| <b>prot-a-2775</b>        | acute RITs | Single-pass membrane and coiled-coil domain-containing       | European                           | Infection and immunity        | 16IVW  | 0.0564  | 0.0220 | 0.0105 | 0.0132  | 0.1755  | 1.0580 | 1.0133 | 1.1047 |

|                         |            |  |          |                        |        |         |        |        |         |         |        |        |        |
|-------------------------|------------|--|----------|------------------------|--------|---------|--------|--------|---------|---------|--------|--------|--------|
|                         |            | protein 2  |          |                        |        |         |        |        |         |         |        |        |        |
| <b>prot-a-2709</b>      | acute RITs | Secreted frizzled-related protein 1                        | European | Infection and immunity | 21IVW  | 0.0518  | 0.0176 | 0.0032 | 0.0173  | 0.1357  | 1.0531 | 1.0175 | 1.0900 |
| <b>prot-a-2642</b>      | acute RITs | Scavenger receptor class F member 2                        | European | Infection and immunity | 19IVW  | -0.0513 | 0.0175 | 0.0033 | -0.0856 | 0.0491  | 0.9500 | 0.9179 | 0.9831 |
| <b>prot-a-1945</b>      | acute RITs | Ribosome-recycling factor, mitochondrial                   | European | Infection and immunity | 21IVW  | 0.0429  | 0.0179 | 0.0162 | 0.0079  | 0.0912  | 1.0439 | 1.0080 | 1.0811 |
| <b>prot-a-2444</b>      | acute RITs | Receptor-type tyrosine-protein phosphatase H               | European | Infection and immunity | 18IVW  | -0.0621 | 0.0166 | 0.0002 | -0.0947 | -0.0475 | 0.9398 | 0.9097 | 0.9710 |
| <b>prot-a-2711</b>      | acute RITs | Pulmonary surfactant-associated protein C                  | European | Infection and immunity | 25IVW  | -0.0425 | 0.0128 | 0.0009 | -0.0675 | 0.0408  | 0.9584 | 0.9347 | 0.9827 |
| <b>prot-a-1615</b>      | acute RITs | Potassium voltage-gated channel subfamily G member 4       | European | Infection and immunity | 21IVW  | 0.0589  | 0.0204 | 0.0039 | 0.0189  | 0.2358  | 1.0607 | 1.0191 | 1.1039 |
| <b>prot-a-2299</b>      | acute RITs | Pleckstrin homology domain-containing family A member 1    | European | Infection and immunity | 22IVW  | 0.0623  | 0.0195 | 0.0014 | 0.0241  | 0.1945  | 1.0642 | 1.0244 | 1.1056 |
| <b>prot-a-2150</b>      | acute RITs | Oligophrenin-1   | European | Infection and immunity | 20IVW  | 0.0523  | 0.0185 | 0.0047 | 0.0160  | 0.2282  | 1.0536 | 1.0162 | 1.0925 |
| <b>prot-a-1908</b>      | acute RITs | Membrane metallo-endopeptidase-like 1                      | European | Infection and immunity | 28IVW  | 0.0448  | 0.0157 | 0.0043 | 0.0140  | 0.0781  | 1.0458 | 1.0141 | 1.0785 |
| <b>prot-a-1931</b>      | acute RITs | MAGUK p55 subfamily member 6                               | European | Infection and immunity | 17IVW  | 0.0655  | 0.0159 | 0.0000 | 0.0343  | 0.1891  | 1.0677 | 1.0349 | 1.1015 |
| <b>prot-a-1076</b>      | acute RITs | Low affinity immunoglobulin gamma Fc region receptor III-B | European | Infection and immunity | 24IVW  | 0.0466  | 0.0130 | 0.0003 | 0.0211  | 0.0918  | 1.0477 | 1.0213 | 1.0747 |
| <b>prot-a-1593</b>      | acute RITs | Inositol-trisphosphate 3-kinase A                          | European | Infection and immunity | 11IVW  | 0.0886  | 0.0240 | 0.0002 | 0.0416  | 0.3061  | 1.0927 | 1.0425 | 1.1453 |
| <b>prot-b-55</b>        | acute RITs | growth differentiation factor 15                           | European | Infection and immunity | 15IVW  | -0.0428 | 0.0140 | 0.0022 | -0.0702 | -0.0214 | 0.9581 | 0.9322 | 0.9847 |
| <b>prot-a-1046</b>      | acute RITs | Glycosaminoglycan xylosylkinase                            | European | Infection and immunity | 26IVW  | 0.0361  | 0.0149 | 0.0155 | 0.0069  | 0.1375  | 1.0367 | 1.0069 | 1.0674 |
| <b>prot-a-1102</b>      | acute RITs | Fibroblast growth factor receptor 2                        | European | Infection and immunity | 25IVW  | -0.0463 | 0.0169 | 0.0062 | -0.0794 | 0.0560  | 0.9548 | 0.9237 | 0.9869 |
| <b>prot-a-1019</b>      | acute RITs | Fas apoptotic inhibitory molecule 3                        | European | Infection and immunity | 28IVW  | 0.0404  | 0.0146 | 0.0056 | 0.0118  | 0.1692  | 1.0412 | 1.0119 | 1.0714 |
| <b>prot-a-1003</b>      | acute RITs | Exostosin-like 2   | European | Infection and immunity | 17IVW  | 0.0498  | 0.0179 | 0.0054 | 0.0147  | 0.1988  | 1.0510 | 1.0148 | 1.0885 |
| <b>prot-a-2892</b>      | acute RITs | Estrogen sulfotransferase                                  | European | Infection and immunity | 21IVW  | 0.0470  | 0.0155 | 0.0025 | 0.0166  | 0.0714  | 1.0482 | 1.0167 | 1.0806 |
| <b>prot-a-697</b>       | acute RITs | Casein kinase II 2-alpha:2-beta heterotetramer             | European | Infection and immunity | 19IVW  | 0.0435  | 0.0182 | 0.0168 | 0.0079  | 0.1557  | 1.0444 | 1.0079 | 1.0823 |
| <b>prot-a-347</b>       | acute RITs | Calcium/calmodulin-dependent protein kinase type 1D        | European | Infection and immunity | 21IVW  | 0.0526  | 0.0149 | 0.0004 | 0.0233  | 0.1888  | 1.0540 | 1.0236 | 1.0853 |
| <b>prot-a-2391</b>      | acute RITs | Brain-specific serine protease 4                           | European | Infection and immunity | 16IVW  | -0.0633 | 0.0173 | 0.0003 | -0.0972 | 0.0739  | 0.9386 | 0.9074 | 0.9710 |
| <b>ebi-a-GCST011084</b> | acute RITs | COVID-19 (hospitalized vs population) RELEASE 5            | European | Infection and immunity | 45IVW  | -0.0356 | 0.0152 | 0.0193 | -0.0655 | 0.0635  | 0.9650 | 0.9366 | 0.9942 |
| <b>ebi-a-GCST011082</b> | acute RITs | COVID-19 (hospitalized vs population) RELEASE 5            | European | Infection and immunity | 42IVW  | -0.0322 | 0.0137 | 0.0191 | -0.0591 | 0.0635  | 0.9683 | 0.9426 | 0.9948 |
| <b>ebi-a-GCST010779</b> | acute RITs | COVID-19 (hospitalized vs population) RELEASE 4            | European | Infection and immunity | 42IVW  | -0.0276 | 0.0118 | 0.0189 | -0.0507 | 0.0635  | 0.9727 | 0.9505 | 0.9955 |
| <b>ebi-a-GCST900</b>    | acute RITs | C-reactive protein levels                                  | European | Infection and immunity | 353IVW | 0.0684  | 0.0258 | 0.0081 | 0.0178  | 0.1315  | 1.0708 | 1.0179 | 1.1263 |

|                           |            |   |                                    |   |        |         |        |        |         |         |         |        |         |  |
|---------------------------|------------|---|------------------------------------|---|--------|---------|--------|--------|---------|---------|---------|--------|---------|--|
| <b>25959</b>              |            |   |                                    | immunity                                    |        |         |        |        |         |         |         |        |         |  |
| <b>bbj-a-14</b>           | acute RITs | C-reactive protein                                  | East Asian                         | Infection and immunity                      | 46IVW  | 0.0837  | 0.0288 | 0.0036 | 0.0273  | 0.1747  | 1.0873  | 1.0277 | 1.1505  |  |
| <b>prot-a-1533</b>        | acute RITs | Interleukin-4 receptor subunit alpha                | European                           | Infection and immunity                      | 19IVW  | 0.0530  | 0.0183 | 0.0038 | 0.0171  | 0.1245  | 1.0545  | 1.0172 | 1.0931  |  |
| <b>prot-a-1479</b>        | acute RITs | Interleukin-16                                      | European                           | Infection and immunity                      | 18IVW  | -0.0330 | 0.0140 | 0.0184 | -0.0604 | 0.0363  | 0.9675  | 0.9414 | 0.9944  |  |
| <b>ebi-a-GCST90014002</b> | acute RITs | C reactive protein levels (UKB data field 30710)    | European                           | Infection and immunity                      | 392IVW | 0.0626  | 0.0246 | 0.0110 | 0.0143  | 0.1315  | 1.0646  | 1.0144 | 1.1172  |  |
| <b>ukb-d-22609_0</b>      | acute RITs | Workplace very dusty: Rarely/never                  | European                           | Lifestyle, occupation and family background | 19IVW  | -0.8816 | 0.3183 | 0.0056 | -1.5055 | 0.1516  | 0.4141  | 0.2219 | 0.7728  |  |
| <b>ukb-d-22612_2</b>      | acute RITs | Worked with materials containing asbestos: Often    | European                           | Lifestyle, occupation and family background | 16IVW  | 2.5025  | 0.8295 | 0.0026 | 0.8766  | 4.9645  | 12.2125 | 2.4028 | 62.0713 |  |
| <b>ukb-b-12067</b>        | acute RITs | Sponge pudding intake                               | European                           | Lifestyle, occupation and family background | 17IVW  | 1.0635  | 0.3825 | 0.0054 | 0.3138  | 2.4618  | 2.8964  | 1.3686 | 6.1299  |  |
| <b>ukb-b-998</b>          | acute RITs | Soya dessert intake                                 | European                           | Lifestyle, occupation and family background | 23IVW  | 1.7758  | 0.5492 | 0.0012 | 0.6993  | 3.5987  | 5.9051  | 2.0123 | 17.3283 |  |
| <b>ukb-e-1389_AFR</b>     | acute RITs | Pork intake   | African American or Afro-Caribbean | Lifestyle, occupation and family background | 23IVW  | -0.0480 | 0.0177 | 0.0066 | -0.0826 | -0.0272 | 0.9531  | 0.9207 | 0.9867  |  |
| <b>ukb-e-6179_p3_CSA</b>  | acute RITs | Mineral and other dietary supplements               | South Asian                        | Lifestyle, occupation and family background | 12IVW  | 0.0416  | 0.0109 | 0.0001 | 0.0202  | 0.1107  | 1.0424  | 1.0204 | 1.0649  |  |
| <b>ukb-b-10054</b>        | acute RITs | Cheese consumers                                    | European                           | Lifestyle, occupation and family background | 21IVW  | 0.4135  | 0.1732 | 0.0170 | 0.0740  | 0.7902  | 1.5122  | 1.0768 | 2.1235  |  |
| <b>ukb-b-1707</b>         | acute RITs | Average weekly spirits intake                       | European                           | Lifestyle, occupation and family background | 54IVW  | -0.2919 | 0.1250 | 0.0195 | -0.5369 | 0.9849  | 0.7468  | 0.5845 | 0.9542  |  |
| <b>ebi-a-GCST006702</b>   | acute RITs | Parental longevity (combined parental age at death) | European                           | Lifestyle, occupation and family background | 60IVW  | -0.1838 | 0.0716 | 0.0102 | -0.3241 | 0.2398  | 0.8321  | 0.7232 | 0.9574  |  |
| <b>ukb-b-4024</b>         | acute RITs | Illnesses of mother: Stroke                         | European                           | Lifestyle, occupation and family background | 19IVW  | 1.6110  | 0.6089 | 0.0082 | 0.4175  | 2.8045  | 5.0079  | 1.5182 | 16.5196 |  |
| <b>ukb-a-368</b>          | acute RITs | Work/job satisfaction                               | European                           | Lifestyle, occupation and family background | 24IVW  | 0.2203  | 0.0902 | 0.0146 | 0.0436  | 0.3851  | 1.2465  | 1.0445 | 1.4875  |  |
| <b>ukb-b-18099</b>        | acute RITs | Qualifications: O levels/GCSEs or equivalent        | European                           | Lifestyle, occupation and family background | 134IVW | 0.4338  | 0.1597 | 0.0066 | 0.1208  | 1.9383  | 1.5431  | 1.1284 | 2.1102  |  |

|                             |            |   |             |   |        |          |        |        |          |          |                  |           |                         |
|-----------------------------|------------|---|-------------|---|--------|----------|--------|--------|----------|----------|------------------|-----------|-------------------------|
| <b>ukb-d-22617_1151</b>     | acute RITs | Job SOC coding: Financial institution managers  | European    | background<br>Lifestyle, occupation and family background | 21IVW  | -2.5693  | 0.9299 | 0.0057 | -4.3920  | 5.9452   | 0.0766           | 0.0124    | 0.4740                  |
| <b>ukb-d-22601_23193405</b> | acute RITs | Job coding: other teaching professional including private tutor, tefl (teaching english as a foreign language) teacher; tutor at adult education centre, etc. | European    | Lifestyle, occupation and family background               | 20IVW  | 2.8991   | 0.8189 | 0.0004 | 1.2940   | 6.6754   | 18.1570          | 3.6473    | 90.3888                 |
| <b>ukb-b-3709</b>           | acute RITs | Wants to stop smoking   | European    | Lifestyle, occupation and family background               | 19IVW  | -0.2099  | 0.0729 | 0.0040 | -0.3528  | 0.7417   | 0.8107           | 0.7027    | 0.9353                  |
| <b>ukb-a-421</b>            | acute RITs | Reason for glasses/contact lenses: For just reading/near work as you are getting older (called 'presbyopia')  | European    | Lifestyle, occupation and family background               | 43IVW  | 1.1337   | 0.4626 | 0.0142 | 0.2271   | 4.1067   | 3.1072           | 1.2550    | 7.6932                  |
| <b>ukb-e-1468_p1_CSA</b>    | acute RITs | Cereal type   | South Asian | Lifestyle, occupation and family background               | 23IVW  | 0.0239   | 0.0072 | 0.0009 | 0.0098   | 0.0422   | 1.0242           | 1.0098    | 1.0388                  |
| <b>ukb-a-464</b>            | acute RITs | Vitamin and mineral supplements: Multivitamins +/- minerals   | European    | Medication use and treatment                              | 47IVW  | 0.6782   | 0.2904 | 0.0195 | 0.1089   | 2.9932   | 1.9703           | 1.1151    | 3.4813                  |
| <b>ukb-b-16956</b>          | acute RITs | Treatment/medication code: thyroxine sodium   | European    | Medication use and treatment                              | 11IVW  | 13.8864  | 4.6817 | 0.0030 | 4.7102   | 62.8267  | 1073421.5753     | 111.0693  | 10374006079.1460        |
| <b>ukb-b-11862</b>          | acute RITs | Treatment/medication code: beconase 50micrograms nasal spray  | European    | Medication use and treatment                              | 10IVW  | 8.3394   | 3.5026 | 0.0173 | 1.4742   | 56.4303  | 4185.4250        | 4.3675    | 4010986.2957            |
| <b>ukb-b-3255</b>           | acute RITs | Treatment speciality of consultant (recoded): Upper gastrointestinal surgery  | European    | Medication use and treatment                              | 7IVW   | -16.5261 | 6.1088 | 0.0068 | -28.4993 | -4.5529  | 0.0000           | 0.0000    | 0.0105                  |
| <b>ukb-b-11740</b>          | acute RITs | Medication for cholesterol, blood pressure or diabetes: Cholesterol lowering medication   | European    | Medication use and treatment                              | 129IVW | 0.2404   | 0.0962 | 0.0124 | 0.0519   | 0.6031   | 1.2717           | 1.0532    | 1.5356                  |
| <b>ebi-a-GCST90013969</b>   | acute RITs | Cholesterol lowering medication use (UKB data field 6177_1) (SPA correction)  | European    | Medication use and treatment                              | 121IVW | 0.0402   | 0.0158 | 0.0110 | 0.0092   | 0.1424   | 1.0410           | 1.0092    | 1.0737                  |
| <b>ebi-a-GCST90013919</b>   | acute RITs | Cholesterol lowering medication use (UKB data field 6177_1) (Firth correction)  | European    | Medication use and treatment                              | 122IVW | 0.0393   | 0.0158 | 0.0131 | 0.0082   | 0.3863   | 1.0401           | 1.0083    | 1.0728                  |
| <b>ukb-b-4373</b>           | acute RITs | Operative procedures - secondary OPCS: T85.2 Block dissection of axillary lymph nodes   | European    | Medication use and treatment                              | 17IVW  | 6.3867   | 2.3066 | 0.0056 | 1.8657   | 10.9076  | 593.8685         | 6.4607    | 54588.7024              |
| <b>ukb-b-4820</b>           | acute RITs | Operative procedures - secondary OPCS: E13.6 Puncture of maxillary antrum   | European    | Medication use and treatment                              | 5IVW   | 23.9016  | 8.5527 | 0.0052 | 7.1383   | 349.2162 | 24007019831.6372 | 1259.3000 | 457664588623786000.0000 |
| <b>ukb-e-41200_p3</b>       | acute RITs | Operative procedures - main   | African     | Medication use  | 12IVW  | 0.0116   | 0.0047 | 0.0128 | 0.0025   | 0.0321   | 1.0116           | 1.0025    | 1.0209                  |

|                           |            |  |                            |                              |        |          |        |        |          |          |          |        |           |  |
|---------------------------|------------|--|----------------------------|------------------------------|--------|----------|--------|--------|----------|----------|----------|--------|-----------|--|
| <b>56_AFR</b>             |            | OPCS4  | American or Afro-Caribbean | and treatment                |        |          |        |        |          |          |          |        |           |  |
| <b>ukb-b-7609</b>         | acute RITs | Operative procedures - main OPCS: B28.2 Partial excision of breast NEC | European                   | Medication use and treatment | 24IVW  | 4.8776   | 1.7279 | 0.0048 | 1.4910   | 11.7569  | 131.3207 | 4.4416 | 3882.6157 |  |
| <b>ukb-b-13003</b>        | acute RITs | Operation code: sinus surgery  | European                   | Medication use and treatment | 6IVW   | -19.2229 | 7.4735 | 0.0101 | -33.8710 | 290.6570 | 0.0000   | 0.0000 | 0.0103    |  |
| <b>prot-a-47</b>          | acute RITs | Alcohol dehydrogenase 4  | European                   | Metabolism                   | 22IVW  | -0.0460  | 0.0172 | 0.0076 | -0.0797  | 0.0761   | 0.9551   | 0.9234 | 0.9879    |  |
| <b>prot-a-1370</b>        | acute RITs | 15-hydroxyprostaglandin dehydrogenase [NAD(+)]                         | European                   | Metabolism                   | 23IVW  | 0.0386   | 0.0161 | 0.0164 | 0.0071   | 0.0738   | 1.0394   | 1.0071 | 1.0727    |  |
| <b>prot-a-1086</b>        | acute RITs | D-dimer  | European                   | Metabolism                   | 16IVW  | 0.0637   | 0.0226 | 0.0048 | 0.0194   | 0.2087   | 1.0658   | 1.0196 | 1.1141    |  |
| <b>met-a-715</b>          | acute RITs | X-14056  | European                   | Metabolism                   | 9IVW   | 0.4372   | 0.1607 | 0.0065 | 0.1223   | 1.0522   | 1.5483   | 1.1301 | 2.1214    |  |
| <b>ebi-a-GCST90060742</b> | acute RITs | Sphingomyelin(40:2)_[M-CH3]1- levels                                   | South Asian                | Metabolism                   | 18IVW  | 0.1836   | 0.0590 | 0.0018 | 0.0681   | 0.1315   | 1.2015   | 1.0704 | 1.3487    |  |
| <b>met-a-574</b>          | acute RITs | Pseudouridine  | European                   | Metabolism                   | 26IVW  | -0.7032  | 0.2571 | 0.0062 | -1.2070  | 1.3996   | 0.4950   | 0.2991 | 0.8193    |  |
| <b>ukb-e-recode1_CSA</b>  | acute RITs | Indirect bilirubin   | South Asian                | Metabolism                   | 19IVW  | 0.0547   | 0.0189 | 0.0038 | 0.0176   | 0.1312   | 1.0562   | 1.0178 | 1.0961    |  |
| <b>ebi-a-GCST90014008</b> | acute RITs | IGF 1 (UKB data field 30770)   | European                   | Metabolism                   | 532IVW | -0.0629  | 0.0215 | 0.0034 | -0.1050  | 0.1315   | 0.9391   | 0.9003 | 0.9795    |  |
| <b>met-a-564</b>          | acute RITs | Gamma-glutamylthreonine*   | European                   | Metabolism                   | 9IVW   | -0.4710  | 0.1699 | 0.0056 | -0.8039  | 0.6493   | 0.6244   | 0.4476 | 0.8711    |  |
| <b>ebi-a-GCST90025991</b> | acute RITs | Serum urea levels  | European                   | Metabolism                   | 321IVW | 0.0762   | 0.0317 | 0.0161 | 0.0141   | 0.1315   | 1.0792   | 1.0142 | 1.1483    |  |
| <b>ebi-a-GCST90002412</b> | acute RITs | Low density lipoprotein cholesterol levels                             | European                   | Metabolism                   | 481IVW | 0.0567   | 0.0196 | 0.0039 | 0.0182   | 0.0657   | 1.0583   | 1.0183 | 1.0998    |  |
| <b>ebi-a-GCST90014007</b> | acute RITs | High density lipoprotein cholesterol levels (UKB data field 30760)     | European                   | Metabolism                   | 458IVW | 0.0551   | 0.0221 | 0.0126 | 0.0118   | 0.1315   | 1.0567   | 1.0119 | 1.1034    |  |
| <b>ebi-a-GCST90025953</b> | acute RITs | Total cholesterol levels   | European                   | Metabolism                   | 281IVW | 0.0551   | 0.0232 | 0.0178 | 0.0095   | 0.1315   | 1.0566   | 1.0096 | 1.1058    |  |
| <b>ebi-a-GCST90092809</b> | acute RITs | Apolipoprotein B levels  | European                   | Metabolism                   | 109IVW | 0.0612   | 0.0249 | 0.0141 | 0.0124   | 0.1315   | 1.0631   | 1.0124 | 1.1163    |  |
| <b>ebi-a-GCST90092887</b> | acute RITs | Concentration of LDL particles   | European                   | Metabolism                   | 104IVW | 0.0665   | 0.0251 | 0.0080 | 0.0174   | 0.1315   | 1.0688   | 1.0175 | 1.1226    |  |
| <b>ieu-b-110</b>          | acute RITs | LDL cholesterol  | European                   | Metabolism                   | 281IVW | 0.0656   | 0.0238 | 0.0059 | 0.0189   | 0.1162   | 1.0678   | 1.0191 | 1.1189    |  |
| <b>ieu-b-4844</b>         | acute RITs | HDL cholesterol  | European                   | Metabolism                   | 153IVW | 0.0516   | 0.0198 | 0.0090 | 0.0129   | 0.1405   | 1.0529   | 1.0129 | 1.0945    |  |
| <b>met-d-HDL_C</b>        | acute RITs | HDL cholesterol  | European                   | Metabolism                   | 178IVW | 0.0511   | 0.0218 | 0.0192 | 0.0083   | 0.1558   | 1.0524   | 1.0084 | 1.0984    |  |
| <b>met-d-HDL_P</b>        | acute RITs | Concentration of HDL particles   | European                   | Metabolism                   | 142IVW | 0.0660   | 0.0252 | 0.0087 | 0.0167   | 0.1488   | 1.0682   | 1.0169 | 1.1222    |  |
| <b>met-d-LDL_P</b>        | acute RITs | Concentration of LDL particles   | European                   | Metabolism                   | 110IVW | 0.0607   | 0.0248 | 0.0144 | 0.0121   | 0.1094   | 1.0626   | 1.0121 | 1.1156    |  |
| <b>met-d-M_HDL_C</b>      | acute RITs | Cholesterol in medium HDL  | European                   | Metabolism                   | 152IVW | 0.0619   | 0.0247 | 0.0121 | 0.0136   | 0.1537   | 1.0639   | 1.0137 | 1.1166    |  |
| <b>met-d-M_HDL_P</b>      | acute RITs | Concentration of medium HDL particles                                  | European                   | Metabolism                   | 142IVW | 0.0546   | 0.0245 | 0.0259 | 0.0066   | 0.1373   | 1.0562   | 1.0066 | 1.1082    |  |
| <b>met-d-M_HDL_PL_pct</b> | acute RITs | Phospholipids to total lipids ratio in medium HDL                      | European                   | Metabolism                   | 182IVW | -0.0626  | 0.0229 | 0.0063 | -0.1075  | -0.0177  | 0.9393   | 0.8980 | 0.9825    |  |
| <b>ebi-a-GCST90060571</b> | acute RITs | Fatty acid(16:1)_[M-H]1- levels  | South Asian                | Metabolism                   | 12IVW  | -0.1035  | 0.0347 | 0.0028 | -0.1715  | 0.1315   | 0.9017   | 0.8424 | 0.9651    |  |
| <b>ebi-a-GCST90060625</b> | acute RITs | Diacylglycerol(36:2)_[M+NH4]1+ levels                                  | South Asian                | Metabolism                   | 18IVW  | -0.1341  | 0.0467 | 0.0041 | -0.2256  | 0.1315   | 0.8745   | 0.7980 | 0.9583    |  |
| <b>ebi-a-GCST90060634</b> | acute RITs | Cholesteryl ester(18:3)_[M+NH4]1+ levels                               | South Asian                | Metabolism                   | 20IVW  | 0.1248   | 0.0470 | 0.0079 | 0.0327   | 0.1315   | 1.1329   | 1.0332 | 1.2422    |  |
| <b>ebi-a-GCST90060671</b> | acute RITs | Phosphatidylcholine-O(32:0)_[M+H]1+/Phosphatidylethano                 | South Asian                | Metabolism                   | 18IVW  | 0.1410   | 0.0588 | 0.0166 | 0.0256   | 0.1315   | 1.1514   | 1.0260 | 1.2921    |  |

|                           |            |  |                                    |            |        |         |        |        |         |          |           |        |              |
|---------------------------|------------|--|------------------------------------|------------|--------|---------|--------|--------|---------|----------|-----------|--------|--------------|
|                           |            | lamine-O(35:0)_[M+H]1+ levels                                      |                                    |            |        |         |        |        |         |          |           |        |              |
| <b>ebi-a-GCST90060999</b> | acute RITs | Triacylglycerol(56:3)_[M+N H4]1+ levels                            | South Asian                        | Metabolism | 11IVW  | -0.1254 | 0.0393 | 0.0014 | -0.2023 | 0.1315   | 0.8822    | 0.8168 | 0.9528       |
| <b>ebi-a-GCST90007322</b> | acute RITs | circulating leptin levels adjusted for BMI                         | European                           | Metabolism | 8IVW   | -0.1798 | 0.0687 | 0.0088 | -0.3145 | 0.0657   | 0.8354    | 0.7302 | 0.9558       |
| <b>ebi-a-GCST90007319</b> | acute RITs | circulating leptin levels adjusted for BMI                         | Mixed                              | Metabolism | 10IVW  | -0.1734 | 0.0651 | 0.0077 | -0.3010 | 0.0657   | 0.8408    | 0.7401 | 0.9552       |
| <b>ebi-a-GCST90007309</b> | acute RITs | circulating leptin levels  | Mixed                              | Metabolism | 7IVW   | -0.1793 | 0.0701 | 0.0105 | -0.3166 | 0.0657   | 0.8359    | 0.7286 | 0.9589       |
| <b>ebi-a-GCST90007313</b> | acute RITs | circulating leptin levels  | Mixed                              | Metabolism | 6IVW   | -0.1408 | 0.0559 | 0.0118 | -0.2504 | 0.0657   | 0.8687    | 0.7785 | 0.9693       |
| <b>ebi-a-GCST90007307</b> | acute RITs | circulating leptin levels  | Mixed                              | Metabolism | 15IVW  | -0.1557 | 0.0589 | 0.0082 | -0.2712 | 0.0657   | 0.8558    | 0.7625 | 0.9606       |
| <b>ukb-b-6547</b>         | acute RITs | PCT where patients GP was registered: BURY PCT                     | European                           | Other      | 35IVW  | -5.3846 | 1.7986 | 0.0028 | -8.9099 | 21.0125  | 0.0046    | 0.0001 | 0.1558       |
| <b>ukb-b-1539</b>         | acute RITs | PCT where patients GP was registered: BROXTOWE AND HUCKNALL PCT    | European                           | Other      | 19IVW  | 8.3038  | 3.1284 | 0.0079 | 2.1721  | 104.3861 | 4039.1087 | 8.7768 | 1858809.7596 |
| <b>ukb-e-20018_A FR</b>   | acute RITs | Prospective memory result  | African American or Afro-Caribbean | Other      | 11IVW  | -0.0885 | 0.0356 | 0.0128 | -0.1582 | 0.0768   | 0.9153    | 0.8536 | 0.9814       |
| <b>ukb-b-6891</b>         | acute RITs | Number of triplets attempted (left)                                | European                           | Other      | 15IVW  | -0.1806 | 0.0652 | 0.0056 | -0.3084 | -0.0529  | 0.8348    | 0.7347 | 0.9485       |
| <b>ukb-b-2988</b>         | acute RITs | Number of fluid intelligence questions attempted within time limit | European                           | Other      | 106IVW | -0.0510 | 0.0233 | 0.0285 | -0.0966 | 0.2286   | 0.9503    | 0.9079 | 0.9947       |
| <b>ieu-b-4827</b>         | acute RITs | Number of children ever born measurement                           | European                           | Other      | 15IVW  | 0.1082  | 0.0430 | 0.0120 | 0.0238  | 0.3911   | 1.1142    | 1.0241 | 1.2123       |
| <b>ukb-a-12</b>           | acute RITs | Nap during day   | European                           | Other      | 192IVW | 0.1846  | 0.0821 | 0.0246 | 0.0236  | 0.3456   | 1.2027    | 1.0239 | 1.4128       |
| <b>ukb-b-5477</b>         | acute RITs | Methods of admission to hospital (recoded): Elective admission     | European                           | Other      | 237IVW | -0.7048 | 0.3307 | 0.0331 | -1.3530 | -0.0566  | 0.4942    | 0.2585 | 0.9449       |
| <b>ukb-a-392</b>          | acute RITs | Maximum workload during fitness test                               | European                           | Other      | 17IVW  | -0.2268 | 0.0910 | 0.0127 | -0.4051 | 0.2119   | 0.7971    | 0.6669 | 0.9527       |
| <b>ukb-e-4728_CS A</b>    | acute RITs | Leg pain on walking  | South Asian                        | Other      | 23IVW  | -0.0262 | 0.0088 | 0.0030 | -0.0434 | 0.0231   | 0.9742    | 0.9575 | 0.9911       |
| <b>ukb-b-19060</b>        | acute RITs | Hearing aid user   | European                           | Other      | 40IVW  | 1.2710  | 0.4827 | 0.0085 | 0.3250  | 2.2171   | 3.5645    | 1.3840 | 9.1806       |
| <b>ukb-d-4979</b>         | acute RITs | FI5 : family relationship calculation                              | European                           | Other      | 27IVW  | -0.4732 | 0.1864 | 0.0111 | -0.8386 | 0.7872   | 0.6230    | 0.4323 | 0.8978       |
| <b>ukb-e-5306_CS A</b>    | acute RITs | 6mm index of best keratometry results (left)                       | South Asian                        | Other      | 22IVW  | 0.0605  | 0.0197 | 0.0021 | 0.0219  | 0.1481   | 1.0624    | 1.0221 | 1.1042       |

**Table S3 Heterogeneity test results for univariate Mendelian randomization between 990 traits and acute radiation-induced toxicities (RITs)**

| Exposure ID               | Outcome    | Trait name                 | Method   | Q       | Q_df | Q_pval |
|---------------------------|------------|----------------------------|----------|---------|------|--------|
| <b>ebi-a-GCST90011301</b> | acute RITs | C_Actinobacteria abundance | MR Egger | 17.6854 | 15   | 0.2796 |
| <b>ebi-a-GCST90011305</b> | acute RITs | C_Clostridia abundance     | MR Egger | 21.5147 | 20   | 0.3674 |
| <b>ebi-a-GCST90011316</b> | acute RITs | F_Rikenellaceae abundance  | MR Egger | 12.0099 | 12   | 0.4449 |

|                           |            |   |          |         |    |        |
|---------------------------|------------|---|----------|---------|----|--------|
| <b>ebi-a-GCST90011330</b> | acute RITs | G_Faecalibacterium abundance  | MR Egger | 8.1083  | 10 | 0.6183 |
| <b>ebi-a-GCST90011333</b> | acute RITs | G_Lachnospiraceae abundance   | MR Egger | 7.8611  | 10 | 0.6424 |
| <b>ebi-a-GCST90027467</b> | acute RITs | Gut bacterial pathway abundance (FUC.RHAMCAT.PWY..superpathway.of.fucose.and.rhamnose.degradation)  | MR Egger | 4.4793  | 5  | 0.4827 |
| <b>ebi-a-GCST90027487</b> | acute RITs | Gut bacterial pathway abundance (KETOGLUCONMET.PWY..ketogluconate.metabolism)   | MR Egger | 4.9434  | 9  | 0.8392 |
| <b>ebi-a-GCST90027501</b> | acute RITs | Gut bacterial pathway abundance (P42.PWY..incomplete.reductive.TCA.cycle)   | MR Egger | 12.3292 | 12 | 0.4196 |
| <b>ebi-a-GCST90027548</b> | acute RITs | Gut bacterial pathway abundance (PWY.5345..superpathway.of.L.methionine.biosynthesis.by.sulfhydrylation.)   | MR Egger | 5.1444  | 8  | 0.7420 |
| <b>ebi-a-GCST90027577</b> | acute RITs | Gut bacterial pathway abundance (PWY.6285..superpathway.of.fatty.acids.biosynthesis..E..coli.)  | MR Egger | 15.3368 | 10 | 0.1203 |
| <b>ebi-a-GCST90027623</b> | acute RITs | Gut bacterial pathway abundance (PWY.7371..1.4.dihydroxy.6.naphthoate.biosynthesis.II)  | MR Egger | 1.6028  | 7  | 0.9785 |
| <b>ebi-a-GCST90027627</b> | acute RITs | Gut bacterial pathway abundance (PWY.7456..mannan.degradation)  | MR Egger | 1.9555  | 3  | 0.5817 |
| <b>ebi-a-GCST90027635</b> | acute RITs | Gut bacterial pathway abundance (PWY_REDCITCYC..TCA.cycle.VIII..helicobacter.)  | MR Egger | 9.2148  | 9  | 0.4177 |
| <b>ebi-a-GCST90027520</b> | acute RITs | Gut bacterial pathway abundance (PWY0.1338..polymyxin.resistance)   | MR Egger | 6.9549  | 8  | 0.5415 |
| <b>ebi-a-GCST90027524</b> | acute RITs | Gut bacterial pathway abundance (PWY0.1586..peptidoglycan.maturation..meso.diaminopimelate.containing.)   | MR Egger | 6.1088  | 7  | 0.5271 |
| <b>ebi-a-GCST90027640</b> | acute RITs | Gut bacterial pathway abundance (RHAMCAT.PWY..L.rhamnose.degradation.I)   | MR Egger | 15.4745 | 10 | 0.1157 |
| <b>ebi-a-GCST90016910</b> | acute RITs | Gut microbiota abundance (class Bacilli id.1673)  | MR Egger | 23.0270 | 16 | 0.1130 |
| <b>ebi-a-GCST90016927</b> | acute RITs | Gut microbiota abundance (family Bacteroidaceae id.917)   | MR Egger | 4.2980  | 7  | 0.7449 |
| <b>ebi-a-GCST90016928</b> | acute RITs | Gut microbiota abundance (family Bacteroidales S24 7group id.11173)   | MR Egger | 4.9124  | 7  | 0.6707 |
| <b>ebi-a-GCST90016952</b> | acute RITs | Gut microbiota abundance (family Streptococcaceae id.1850)  | MR Egger | 8.4665  | 12 | 0.7477 |
| <b>ebi-a-GCST90016968</b> | acute RITs | Gut microbiota abundance (genus Bacteroides id.918)   | MR Egger | 4.2980  | 7  | 0.7449 |
| <b>ebi-a-GCST90017008</b> | acute RITs | Gut microbiota abundance (genus Family XIII AD3011 group id.11293)  | MR Egger | 9.5327  | 11 | 0.5728 |
| <b>ebi-a-GCST90017009</b> | acute RITs | Gut microbiota abundance (genus Family XIII UCG001 id.11294)  | MR Egger | 3.5130  | 6  | 0.7422 |
| <b>ebi-a-GCST90017028</b> | acute RITs | Gut microbiota abundance (genus Lachnospiraceae UCG010 id.11330)  | MR Egger | 7.7622  | 8  | 0.4570 |
| <b>ebi-a-GCST90017040</b> | acute RITs | Gut microbiota abundance (genus Paraprevotella id.962)  | MR Egger | 13.7245 | 11 | 0.2486 |
| <b>ebi-a-GCST90017046</b> | acute RITs | Gut microbiota abundance (genus Rikenellaceae RC9 gut group id.11191)   | MR Egger | 6.5738  | 9  | 0.6814 |
| <b>ebi-a-GCST90027748</b> | acute RITs | Gut microbiota abundance (k_Bacteria.p_Actinobacteria)  | MR Egger | 6.9583  | 8  | 0.5411 |
| <b>ebi-a-GCST90027651</b> | acute RITs | Gut microbiota abundance (k_Bacteria.p_Actinobacteria.c_Actinobacteria)   | MR Egger | 6.9583  | 8  | 0.5411 |
| <b>ebi-a-GCST90027824</b> | acute RITs | Gut microbiota abundance (k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g_Bacteroides.s_Bacteroides_dorei)                              | MR Egger | 16.1723 | 13 | 0.2399 |
| <b>ebi-a-GCST90027765</b> | acute RITs | Gut microbiota abundance (k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Porphyrimonadaceae.g_Odoribacter.s_Odoribacter_splanchnicus)                   | MR Egger | 11.5117 | 12 | 0.4856 |
| <b>ebi-a-GCST90027803</b> | acute RITs | Gut microbiota abundance (k_Bacteria.p_Firmicutes.c_Erysipelotrichia.o_Erysipelotrichales.f_Erysipelotrichaceae.g_Erysipelotrichaceae_noname.s_Eubacterium_biforme) | MR Egger | 3.0333  | 6  | 0.8047 |
| <b>ebi-a-GCST90027805</b> | acute RITs | Gut microbiota abundance (k_Bacteria.p_Firmicutes.c_Erysipelotrichia.o_Erysipelotrichales.f_Erysipelotrichaceae.g_Holdemania.s_Holdemania_unclassified)             | MR Egger | 12.8756 | 7  | 0.0752 |
| <b>ebi-a-GCST90017101</b> | acute RITs | Gut microbiota abundance (order Lactobacillales id.1800)  | MR Egger | 13.6538 | 13 | 0.3987 |
| <b>ebi-a-GCST90017112</b> | acute RITs | Gut microbiota abundance (phylum Cyanobacteria id.1500)   | MR Egger | 9.8191  | 6  | 0.1325 |

|                           |            |  |          |         |    |        |
|---------------------------|------------|--|----------|---------|----|--------|
| <b>ebi-a-GCST90017079</b> | acute RITs | Gut microbiota abundance (unknown genus id.1000005479) | MR Egger | 4.9124  | 7  | 0.6707 |
| <b>ebi-a-GCST90017082</b> | acute RITs | Gut microbiota abundance (unknown genus id.2001)       | MR Egger | 4.9505  | 8  | 0.7629 |
| <b>ebi-a-GCST90032456</b> | acute RITs | Lactobacillus B abundance in stool                     | MR Egger | 12.3219 | 14 | 0.5805 |
| <b>ebi-a-GCST90032488</b> | acute RITs | Negativibacillus massiliensis abundance in stool       | MR Egger | 11.3344 | 13 | 0.5828 |
| <b>ebi-a-GCST90011556</b> | acute RITs | OTU97_100 (Ruminococcaceae) prevalence                 | MR Egger | 2.2873  | 6  | 0.8915 |
| <b>ebi-a-GCST90011359</b> | acute RITs | OTU97_106 (Ruminococcaceae) abundance                  | MR Egger | 6.3411  | 6  | 0.3861 |
| <b>ebi-a-GCST90011570</b> | acute RITs | OTU97_130 (Butyrivibrio) prevalence                    | MR Egger | 3.6121  | 5  | 0.6065 |
| <b>ebi-a-GCST90011572</b> | acute RITs | OTU97_138 (Oscillibacter) prevalence                   | MR Egger | 9.4575  | 10 | 0.4893 |
| <b>ebi-a-GCST90011372</b> | acute RITs | OTU97_140 (Bacteroides) abundance                      | MR Egger | 10.4444 | 13 | 0.6572 |
| <b>ebi-a-GCST90011385</b> | acute RITs | OTU97_24 (Prevotella) abundance                        | MR Egger | 7.7968  | 8  | 0.4536 |
| <b>ebi-a-GCST90011604</b> | acute RITs | OTU97_53 (Bacteroides) prevalence                      | MR Egger | 6.4694  | 13 | 0.9274 |
| <b>ebi-a-GCST90011605</b> | acute RITs | OTU97_56 (Ruminococcaceae) prevalence                  | MR Egger | 5.9301  | 8  | 0.6551 |
| <b>ebi-a-GCST90011636</b> | acute RITs | OTU99_155 (Butyrivibrio) prevalence                    | MR Egger | 3.5873  | 6  | 0.7323 |
| <b>ebi-a-GCST90011440</b> | acute RITs | OTU99_171 (Bacteroides) abundance                      | MR Egger | 16.7331 | 13 | 0.2118 |
| <b>ebi-a-GCST90011655</b> | acute RITs | OTU99_34 (Holdemanella) prevalence                     | MR Egger | 11.8261 | 12 | 0.4597 |
| <b>ebi-a-GCST90011465</b> | acute RITs | OTU99_558 (Bacteroidales) abundance                    | MR Egger | 16.0911 | 17 | 0.5174 |
| <b>ebi-a-GCST90011675</b> | acute RITs | OTU99_8 (Ruminococcaceae) prevalence                   | MR Egger | 3.9454  | 7  | 0.7860 |
| <b>ebi-a-GCST90011481</b> | acute RITs | P_Actinobacteria abundance                             | MR Egger | 17.6854 | 15 | 0.2796 |
| <b>ebi-a-GCST90011482</b> | acute RITs | P_Bacteroidetes abundance                              | MR Egger | 13.1927 | 8  | 0.1054 |
| <b>ebi-a-GCST90032500</b> | acute RITs | Parabacteroides sp000436495 abundance in stool         | MR Egger | 13.0371 | 10 | 0.2216 |
| <b>ebi-a-GCST90032502</b> | acute RITs | Parachlamydiales abundance in stool                    | MR Egger | 6.3590  | 8  | 0.6071 |
| <b>ebi-a-GCST90032540</b> | acute RITs | Roseibacillus abundance in stool                       | MR Egger | 6.0417  | 3  | 0.1096 |
| <b>ebi-a-GCST90032569</b> | acute RITs | Succiniclasticum abundance in stool                    | MR Egger | 26.5269 | 28 | 0.5441 |
| <b>ebi-a-GCST90032578</b> | acute RITs | Terrisporobacter abundance in stool                    | MR Egger | 14.9984 | 13 | 0.3075 |
| <b>ebi-a-GCST90011687</b> | acute RITs | TestASV_14 (Lachnospiraceae) prevalence                | MR Egger | 8.5561  | 5  | 0.1281 |
| <b>ebi-a-GCST90032590</b> | acute RITs | UBA1033 sp001695555 abundance in stool                 | MR Egger | 13.0985 | 10 | 0.2182 |
| <b>ebi-a-GCST90032601</b> | acute RITs | UBA1409 abundance in stool                             | MR Egger | 2.7012  | 10 | 0.9876 |
| <b>ebi-a-GCST90032608</b> | acute RITs | UBA1777 sp900316255 abundance in stool                 | MR Egger | 16.1894 | 12 | 0.1827 |
| <b>ebi-a-GCST90032616</b> | acute RITs | UBA3855 sp900316885 abundance in stool                 | MR Egger | 11.7143 | 13 | 0.5512 |
| <b>ebi-a-GCST90032618</b> | acute RITs | UBA6382 abundance in stool                             | MR Egger | 12.3434 | 11 | 0.3384 |
| <b>ebi-a-GCST90032628</b> | acute RITs | UBA737 sp002451855 abundance in stool                  | MR Egger | 23.0402 | 15 | 0.0833 |
| <b>ieu-b-4810</b>         | acute RITs | Breast cancer  | MR Egger | 76.1646 | 76 | 0.4731 |
| <b>ukb-a-57</b>           | acute RITs | Cancer code self-reported: prostate cancer             | MR Egger | 44.5359 | 40 | 0.2867 |
| <b>ukb-b-13545</b>        | acute RITs | Cancer code, self-reported: uterine/endometrial cancer | MR Egger | 1.6778  | 3  | 0.6419 |
| <b>ebi-a-GCST90018817</b> | acute RITs | Cervical cancer  | MR Egger | 16.8136 | 19 | 0.6025 |
| <b>ebi-a-GCST012876</b>   | acute RITs | Colorectal cancer                                      | MR Egger | 46.8361 | 34 | 0.0703 |

|                           |            |  |          |          |     |        |
|---------------------------|------------|--|----------|----------|-----|--------|
| <b>ebi-a-GCST012877</b>   | acute RITs | Colorectal cancer  | MR Egger | 33.6966  | 36  | 0.5786 |
| <b>ebi-a-GCST90018588</b> | acute RITs | Colorectal cancer  | MR Egger | 34.6371  | 39  | 0.6691 |
| <b>ebi-a-GCST90018838</b> | acute RITs | Endometrial cancer   | MR Egger | 16.2466  | 13  | 0.2361 |
| <b>ieu-a-1163</b>         | acute RITs | ER- Breast cancer (Survival)                                 | MR Egger | 16.5787  | 20  | 0.6801 |
| <b>ebi-a-GCST90018875</b> | acute RITs | Lung cancer  | MR Egger | 27.6017  | 23  | 0.2312 |
| <b>ieu-a-985</b>          | acute RITs | Lung cancer  | MR Egger | 38.5723  | 39  | 0.4892 |
| <b>ebi-a-GCST004747</b>   | acute RITs | Lung cancer in never smokers                                 | MR Egger | 17.3038  | 21  | 0.6925 |
| <b>ukb-b-14956</b>        | acute RITs | Type of cancer: ICD10: C54.1 Endometrium                     | MR Egger | 2.5993   | 2   | 0.2726 |
| <b>ebi-a-GCST90001501</b> | acute RITs | Activated & secreting CD4 regulatory T cell Absolute Count   | MR Egger | 29.1643  | 13  | 0.0062 |
| <b>ebi-a-GCST90001694</b> | acute RITs | CD28- CD4-CD8- T cell %T cell                                | MR Egger | 19.3102  | 18  | 0.3730 |
| <b>ebi-a-GCST90001654</b> | acute RITs | CD28- CD4-CD8- T cell Absolute Count                         | MR Egger | 18.6128  | 19  | 0.4819 |
| <b>ebi-a-GCST90001641</b> | acute RITs | CD3- lymphocyte %leukocyte                                   | MR Egger | 13.1614  | 14  | 0.5139 |
| <b>ebi-a-GCST90001491</b> | acute RITs | CD39+ activated CD4 regulatory T cell %CD4 regulatory T cell | MR Egger | 4.1991   | 18  | 0.9997 |
| <b>ebi-a-GCST90001489</b> | acute RITs | CD39+ activated CD4 regulatory T cell Absolute Count         | MR Egger | 9.7684   | 23  | 0.9926 |
| <b>ebi-a-GCST90001495</b> | acute RITs | CD39+ secreting CD4 regulatory T cell Absolute Count         | MR Egger | 13.9525  | 19  | 0.7865 |
| <b>ebi-a-GCST90001548</b> | acute RITs | Central Memory CD8+ T cell Absolute Count                    | MR Egger | 20.7846  | 19  | 0.3488 |
| <b>ebi-a-GCST90001556</b> | acute RITs | Effector Memory CD8+ T cell %T cell                          | MR Egger | 13.5494  | 10  | 0.1946 |
| <b>ebi-a-GCST90001554</b> | acute RITs | Effector Memory CD8+ T cell Absolute Count                   | MR Egger | 27.9528  | 20  | 0.1105 |
| <b>ukb-e-30210_CSA</b>    | acute RITs | Eosinophill percentage                                       | MR Egger | 17.6217  | 24  | 0.8210 |
| <b>ukb-e-30300_AFR</b>    | acute RITs | High light scatter reticulocyte count                        | MR Egger | 28.9945  | 26  | 0.3113 |
| <b>ebi-a-GCST90001441</b> | acute RITs | IgD+ CD24- B cell %lymphocyte                                | MR Egger | 11.2433  | 15  | 0.7352 |
| <b>ebi-a-GCST90001431</b> | acute RITs | IgD+ CD38- B cell %lymphocyte                                | MR Egger | 2.5032   | 9   | 0.9808 |
| <b>ebi-a-GCST90001396</b> | acute RITs | IgD+ CD38- B cell Absolute Count                             | MR Egger | 4.7723   | 10  | 0.9059 |
| <b>ebi-a-GCST90018962</b> | acute RITs | Lymphocyte count   | MR Egger | 505.1868 | 497 | 0.3900 |
| <b>ukb-d-30120_irnt</b>   | acute RITs | Lymphocyte count   | MR Egger | 515.1055 | 482 | 0.1436 |
| <b>ebi-a-GCST004627</b>   | acute RITs | Lymphocyte counts  | MR Egger | 288.3798 | 283 | 0.4003 |
| <b>bbj-a-44</b>           | acute RITs | Neutrophil count   | MR Egger | 62.6477  | 70  | 0.7216 |
| <b>ebi-a-GCST90002356</b> | acute RITs | Platelet count   | MR Egger | 27.8965  | 46  | 0.9839 |
| <b>ieu-a-1008</b>         | acute RITs | Platelet count   | MR Egger | 68.5523  | 70  | 0.5266 |
| <b>ebi-a-GCST004601</b>   | acute RITs | Red blood cell count   | MR Egger | 388.1035 | 311 | 0.0019 |
| <b>ebi-a-GCST90025964</b> | acute RITs | Red blood cell count   | MR Egger | 623.6210 | 566 | 0.0467 |
| <b>ebi-a-GCST90001578</b> | acute RITs | Transitional B cell %lymphocyte                              | MR Egger | 14.3550  | 20  | 0.8121 |
| <b>ebi-a-GCST90001577</b> | acute RITs | Transitional B cell Absolute Count                           | MR Egger | 11.0098  | 20  | 0.9460 |
| <b>ukb-d-30000_irnt</b>   | acute RITs | White blood cell (leukocyte) count                           | MR Egger | 529.1755 | 481 | 0.0636 |
| <b>ebi-a-GCST90002407</b> | acute RITs | White blood cell count                                       | MR Egger | 630.8128 | 581 | 0.0748 |
| <b>ebi-a-GCST90018978</b> | acute RITs | White blood cell count                                       | MR Egger | 543.5234 | 518 | 0.2116 |

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| <b>ebi-a-GCST90025985</b>       | acute RITs | White blood cell count   | MR Egger | 476.7254 | 498 | 0.7463 |
| <b>ebi-a-GCST010779</b>         | acute RITs | COVID-19 (hospitalized vs population) RELEASE 4  | MR Egger | 38.3547  | 40  | 0.5445 |
| <b>ebi-a-GCST011082</b>         | acute RITs | COVID-19 (hospitalized vs population) RELEASE 5  | MR Egger | 42.1309  | 40  | 0.3789 |
| <b>ebi-a-GCST011084</b>         | acute RITs | COVID-19 (hospitalized vs population) RELEASE 5  | MR Egger | 29.9096  | 43  | 0.9349 |
| <b>ukb-a-28</b>                 | acute RITs | Average weekly beer plus cider intake  | MR Egger | 91.9986  | 87  | 0.3364 |
| <b>ukb-b-1707</b>               | acute RITs | Average weekly spirits intake  | MR Egger | 64.2180  | 52  | 0.1191 |
| <b>ukb-b-10054</b>              | acute RITs | Cheese consumers   | MR Egger | 21.0592  | 19  | 0.3335 |
| <b>ukb-b-1814</b>               | acute RITs | Cheesecake intake  | MR Egger | 30.9119  | 21  | 0.0751 |
| <b>ukb-b-1160</b>               | acute RITs | Chocolate-covered raisin intake  | MR Egger | 22.3212  | 25  | 0.6171 |
| <b>ukb-b-8089</b>               | acute RITs | Cooked vegetable intake  | MR Egger | 99.5416  | 118 | 0.8900 |
| <b>ukb-b-5382</b>               | acute RITs | Eggs in sandwiches intake  | MR Egger | 15.6105  | 11  | 0.1562 |
| <b>ukb-b-14351</b>              | acute RITs | Grapefruit juice intake  | MR Egger | 28.7772  | 20  | 0.0922 |
| <b>ukb-b-18079</b>              | acute RITs | Low fat hard cheese intake   | MR Egger | 2.5654   | 9   | 0.9791 |
| <b>ukb-d-1418_1</b>             | acute RITs | Milk type used: Full cream   | MR Egger | 43.2107  | 36  | 0.1904 |
| <b>ukb-d-1418_5</b>             | acute RITs | Milk type used: Other type of milk   | MR Egger | 21.8021  | 13  | 0.0585 |
| <b>ukb-e-6179_p3_CSA</b>        | acute RITs | Mineral and other dietary supplements  | MR Egger | 8.0455   | 10  | 0.6244 |
| <b>ukb-e-1389_AFR</b>           | acute RITs | Pork intake  | MR Egger | 5.5797   | 21  | 0.9997 |
| <b>ukb-b-8006</b>               | acute RITs | Poultry intake   | MR Egger | 95.3162  | 91  | 0.3578 |
| <b>ukb-b-337</b>                | acute RITs | Pure fruit/vegetable juice intake  | MR Egger | 15.8382  | 15  | 0.3929 |
| <b>ukb-e-1478_AFR</b>           | acute RITs | Salt added to food   | MR Egger | 21.0756  | 18  | 0.2756 |
| <b>ukb-b-5847</b>               | acute RITs | Sausage intake   | MR Egger | 10.3350  | 11  | 0.5005 |
| <b>ukb-b-998</b>                | acute RITs | Soya dessert intake  | MR Egger | 21.7391  | 21  | 0.4147 |
| <b>ukb-b-12067</b>              | acute RITs | Sponge pudding intake  | MR Egger | 20.5327  | 15  | 0.1524 |
| <b>ukb-b-15984</b>              | acute RITs | Thickness of butter/margarine spread on sliced bread: thin                                     | MR Egger | 9.8633   | 14  | 0.7721 |
| <b>ukb-b-16523</b>              | acute RITs | Type of meals eaten: Bought sandwiches   | MR Egger | 5.5814   | 3   | 0.1338 |
| <b>ukb-b-6448</b>               | acute RITs | Type of sliced bread eaten: mixed  | MR Egger | 20.0968  | 16  | 0.2159 |
| <b>ukb-b-3828</b>               | acute RITs | Types of spread used on bread/crackers: Normal fat polyunsaturated margarine on bread/crackers | MR Egger | 2.0276   | 3   | 0.5667 |
| <b>ukb-b-11725</b>              | acute RITs | Types of spreads/sauces consumed: Tomato-based sauce   | MR Egger | 0.6010   | 2   | 0.7404 |
| <b>ukb-b-3383</b>               | acute RITs | Vegetarian sausages/burgers intake   | MR Egger | 17.2816  | 20  | 0.6346 |
| <b>ukb-b-5427</b>               | acute RITs | White fish intake  | MR Egger | 4.5159   | 5   | 0.4778 |
| <b>ukb-b-2375</b>               | acute RITs | Whole-wheat cereal intake  | MR Egger | 11.6072  | 15  | 0.7085 |
| <b>ukb-b-7753</b>               | acute RITs | Yogurt intake  | MR Egger | 11.4210  | 9   | 0.2480 |
| <b>ukb-d-M13_ADHCA PSULITIS</b> | acute RITs | Adhesive capsulitis of shoulder  | MR Egger | 33.9093  | 23  | 0.0665 |
| <b>ebi-a-GCST90086041</b>       | acute RITs | Allergic rhinitis  | MR Egger | 10.1862  | 18  | 0.9257 |
| <b>ebi-a-GCST005529</b>         | acute RITs | Ankylosing spondylitis   | MR Egger | 34.1500  | 39  | 0.6905 |
| <b>ieu-a-45</b>                 | acute RITs | Anorexia nervosa   | MR Egger | 1.6137   | 7   | 0.9781 |

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| <b>ukb-d-KRA_PSY_AN<br/>YMENTAL</b> | acute RITs | Any mental disorder  | MR Egger | 28.2161  | 17  | 0.0425 |
| <b>ebi-a-GCST90000026</b>           | acute RITs | Appendicular lean mass   | MR Egger | 570.7923 | 568 | 0.4592 |
| <b>bbj-a-86</b>                     | acute RITs | Arrhythmia   | MR Egger | 41.4856  | 51  | 0.8266 |
| <b>bbj-a-71</b>                     | acute RITs | Atrial Fibrillation  | MR Egger | 68.3937  | 65  | 0.3628 |
| <b>ukb-b-8463</b>                   | acute RITs | Back pain for 3+ months  | MR Egger | 38.3312  | 23  | 0.0235 |
| <b>ukb-e-41_CSA</b>                 | acute RITs | Bacterial infection NOS  | MR Egger | 8.9329   | 10  | 0.5385 |
| <b>ukb-a-444</b>                    | acute RITs | Blood clot DVT bronchitis emphysema asthma rhinitis eczema allergy diagnosed by doctor: Emphysema/chronic bronchitis | MR Egger | 29.5313  | 19  | 0.0581 |
| <b>ukb-e-6152_p1_AFR</b>            | acute RITs | Blood clot, DVT, bronchitis, emphysema, asthma, rhinitis, eczema, allergy diagnosed by doctor                        | MR Egger | 10.1900  | 14  | 0.7482 |
| <b>ebi-a-GCST90038652</b>           | acute RITs | Bone disorder  | MR Egger | 69.4882  | 63  | 0.2682 |
| <b>ebi-a-GCST90018591</b>           | acute RITs | Cardiac valvular disease   | MR Egger | 23.0425  | 17  | 0.1479 |
| <b>ebi-a-GCST90018812</b>           | acute RITs | Cardiomegaly   | MR Egger | 22.3535  | 19  | 0.2670 |
| <b>ukb-e-366_CSA</b>                | acute RITs | Cataract   | MR Egger | 7.7884   | 11  | 0.7321 |
| <b>ieu-a-1058</b>                   | acute RITs | Celiac disease   | MR Egger | 22.7714  | 27  | 0.6972 |
| <b>ebi-a-GCST90018818</b>           | acute RITs | Cholecystitis  | MR Egger | 55.1272  | 46  | 0.1676 |
| <b>ieu-b-4971</b>                   | acute RITs | Cholecystitits   | MR Egger | 17.5963  | 19  | 0.5495 |
| <b>ebi-a-GCST90013939</b>           | acute RITs | Cholelithiasis gall stones (SPA correction)  | MR Egger | 78.6309  | 73  | 0.3052 |
| <b>ebi-a-GCST90013939</b>           | acute RITs | Cholelithiasis gall stones (SPA correction)  | MR Egger | 78.6309  | 73  | 0.3052 |
| <b>ebi-a-GCST008026</b>             | acute RITs | Chronic kidney disease   | MR Egger | 28.6930  | 29  | 0.4811 |
| <b>ebi-a-GCST90018809</b>           | acute RITs | Chronic suppurative otitis media   | MR Egger | 12.9287  | 15  | 0.6078 |
| <b>ukb-e-851_CSA</b>                | acute RITs | Complications of transplants and reattached limbs  | MR Egger | 18.2640  | 14  | 0.1950 |
| <b>ukb-e-5264_AFR</b>               | acute RITs | Corneal hysteresis (left)  | MR Egger | 22.8129  | 28  | 0.7423 |
| <b>ebi-a-GCST004132</b>             | acute RITs | Crohn's disease  | MR Egger | 157.3567 | 181 | 0.8972 |
| <b>ieu-a-30</b>                     | acute RITs | Crohn's disease  | MR Egger | 116.5096 | 113 | 0.3915 |
| <b>ukb-e-D64_CSA</b>                | acute RITs | D64 Other anaemias   | MR Egger | 11.1785  | 10  | 0.3438 |
| <b>ukb-b-3145</b>                   | acute RITs | Diagnoses - main ICD10: C44.5 Skin of trunk  | MR Egger | 3.4211   | 5   | 0.6354 |
| <b>ukb-d-C67</b>                    | acute RITs | Diagnoses - main ICD10: C67 Malignant neoplasm of bladder  | MR Egger | 18.4797  | 22  | 0.6772 |
| <b>ukb-a-521</b>                    | acute RITs | Diagnoses - main ICD10: D12 Benign neoplasm of colon rectum anus and anal canal                                      | MR Egger | 16.1111  | 22  | 0.8103 |
| <b>ukb-d-D23</b>                    | acute RITs | Diagnoses - main ICD10: D23 Other benign neoplasms of skin   | MR Egger | 12.4159  | 15  | 0.6473 |
| <b>ukb-d-H33</b>                    | acute RITs | Diagnoses - main ICD10: H33 Retinal detachments and breaks   | MR Egger | 33.3548  | 33  | 0.4500 |
| <b>ukb-b-11771</b>                  | acute RITs | Diagnoses - main ICD10: K08.3 Retained dental root   | MR Egger | 1.5203   | 1   | 0.2176 |
| <b>ukb-b-19354</b>                  | acute RITs | Diagnoses - main ICD10: K20 Oesophagitis   | MR Egger | 1.0703   | 7   | 0.9936 |
| <b>ukb-b-11369</b>                  | acute RITs | Diagnoses - main ICD10: K40.2 Bilateral inguinal hernia, without obstruction or gangrene                             | MR Egger | 5.8191   | 5   | 0.3242 |
| <b>ukb-b-19805</b>                  | acute RITs | Diagnoses - main ICD10: K62.1 Rectal polyp   | MR Egger | 8.3441   | 8   | 0.4006 |
| <b>ukb-b-8988</b>                   | acute RITs | Diagnoses - main ICD10: K80.1 Calculus of gallbladder with other cholecystitis                                       | MR Egger | 24.1206  | 18  | 0.1511 |
| <b>ukb-b-8988</b>                   | acute RITs | Diagnoses - main ICD10: K80.1 Calculus of gallbladder with other cholecystitis                                       | MR Egger | 24.1206  | 18  | 0.1511 |
| <b>ukb-d-K81</b>                    | acute RITs | Diagnoses - main ICD10: K81 Cholecystitis  | MR Egger | 14.5925  | 19  | 0.7481 |

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| <b>ukb-d-K92</b>            | acute RITs | Diagnoses - main ICD10: K92 Other diseases of digestive system  | MR Egger | 9.4227   | 13  | 0.7403 |
| <b>ukb-d-L57</b>            | acute RITs | Diagnoses - main ICD10: L57 Skin changes due to chronic exposure to nonionising radiation   | MR Egger | 27.5510  | 32  | 0.6914 |
| <b>ukb-b-15003</b>          | acute RITs | Diagnoses - main ICD10: L72.0 Epidermal cyst  | MR Egger | 4.9658   | 6   | 0.5482 |
| <b>ukb-b-7700</b>           | acute RITs | Diagnoses - main ICD10: M17.1 Other primary gonarthrosis  | MR Egger | 9.2539   | 16  | 0.9026 |
| <b>ukb-b-9694</b>           | acute RITs | Diagnoses - main ICD10: M23.22 Derangement of meniscus due to old tear or injury (Posterior cruciate ligament or Posterior horn of medial meniscus) | MR Egger | 8.0155   | 4   | 0.0910 |
| <b>ukb-d-M70</b>            | acute RITs | Diagnoses - main ICD10: M70 Soft tissue disorders related to use, overuse and pressure  | MR Egger | 13.5559  | 13  | 0.4058 |
| <b>ukb-b-18372</b>          | acute RITs | Diagnoses - main ICD10: N20.0 Calculus of kidney  | MR Egger | 13.4222  | 14  | 0.4936 |
| <b>ukb-b-18629</b>          | acute RITs | Diagnoses - main ICD10: N20.1 Calculus of ureter  | MR Egger | 11.6735  | 11  | 0.3887 |
| <b>ukb-d-O80</b>            | acute RITs | Diagnoses - main ICD10: O80 Single spontaneous delivery   | MR Egger | 10.2145  | 15  | 0.8060 |
| <b>ukb-b-6608</b>           | acute RITs | Diagnoses - main ICD10: R10.1 Pain localised to upper abdomen   | MR Egger | 4.5641   | 7   | 0.7130 |
| <b>ukb-b-17456</b>          | acute RITs | Diagnoses - main ICD10: R10.3 Pain localised to other parts of lower abdomen  | MR Egger | 12.2184  | 10  | 0.2707 |
| <b>ukb-a-584</b>            | acute RITs | Diagnoses - main ICD10: R14 Flatulence and related conditions   | MR Egger | 27.9030  | 22  | 0.1789 |
| <b>ukb-d-S61</b>            | acute RITs | Diagnoses - main ICD10: S61 Open wound of wrist and hand  | MR Egger | 11.8499  | 18  | 0.8549 |
| <b>ukb-d-Z45</b>            | acute RITs | Diagnoses - main ICD10: Z45 Adjustment and management of implanted device   | MR Egger | 18.0963  | 16  | 0.3183 |
| <b>ukb-b-16056</b>          | acute RITs | Diagnoses - secondary ICD10: F10.1 Harmful use  | MR Egger | 2.2063   | 5   | 0.8199 |
| <b>ukb-b-19651</b>          | acute RITs | Diagnoses - secondary ICD10: F10.2 Dependence syndrome  | MR Egger | 9.7676   | 10  | 0.4611 |
| <b>ukb-b-16751</b>          | acute RITs | Diagnoses - secondary ICD10: J44.9 Chronic obstructive pulmonary disease, unspecified   | MR Egger | 33.4565  | 26  | 0.1493 |
| <b>ukb-b-11675</b>          | acute RITs | Diagnoses - secondary ICD10: K66.0 Peritoneal adhesions   | MR Egger | 1.8200   | 3   | 0.6106 |
| <b>ukb-b-20233</b>          | acute RITs | Diagnoses - secondary ICD10: M19.99 Arthrosis, unspecified (Site unspecified)   | MR Egger | 10.5155  | 7   | 0.1612 |
| <b>ukb-b-6413</b>           | acute RITs | Diagnoses - secondary ICD10: N73.6 Female pelvic peritoneal adhesions   | MR Egger | 5.8483   | 4   | 0.2108 |
| <b>ukb-b-10490</b>          | acute RITs | Diagnoses - secondary ICD10: Z03.8 Observation for other suspected diseases and conditions  | MR Egger | 0.9287   | 9   | 0.9996 |
| <b>ukb-b-2895</b>           | acute RITs | Diagnoses - secondary ICD10: Z60.2 Living alone   | MR Egger | 0.4973   | 2   | 0.7799 |
| <b>ukb-b-10911</b>          | acute RITs | Diagnoses - secondary ICD10: Z92.2 Personal history of long-term (current) use of other medicaments   | MR Egger | 12.7922  | 17  | 0.7500 |
| <b>ukb-d-IX_CIRCULATORY</b> | acute RITs | Diseases of the circulatory system  | MR Egger | 70.3051  | 59  | 0.1489 |
| <b>ukb-a-254</b>            | acute RITs | Doctor diagnosed hayfever or allergic rhinitis  | MR Egger | 65.0377  | 65  | 0.4754 |
| <b>ukb-d-20429</b>          | acute RITs | Easily tired during worst period of anxiety   | MR Egger | 16.9967  | 17  | 0.4546 |
| <b>ukb-e-F17_CSA</b>        | acute RITs | F17 Mental and behavioral disorders due to use of tobacco   | MR Egger | 23.8477  | 15  | 0.0677 |
| <b>ebi-a-GCST90018625</b>   | acute RITs | Food allergy  | MR Egger | 9.1147   | 8   | 0.3327 |
| <b>ebi-a-GCST90000514</b>   | acute RITs | Gastroesophageal reflux disease   | MR Egger | 208.3521 | 224 | 0.7659 |
| <b>ebi-a-GCST90018635</b>   | acute RITs | Hashimoto thyroiditis   | MR Egger | 12.3742  | 9   | 0.1930 |
| <b>ukb-e-2247_p1_AFR</b>    | acute RITs | Hearing difficulty/problems   | MR Egger | 8.6500   | 12  | 0.7325 |
| <b>ebi-a-GCST90038627</b>   | acute RITs | Hepatitis   | MR Egger | 25.3133  | 21  | 0.2338 |
| <b>ukb-d-K11_HERNIA</b>     | acute RITs | Hernia  | MR Egger | 50.2775  | 58  | 0.7546 |
| <b>ieu-a-1169</b>           | acute RITs | Hip osteoarthritis  | MR Egger | 8.5723   | 11  | 0.6613 |
| <b>ebi-a-GCST90018860</b>   | acute RITs | Hyperthyroidism   | MR Egger | 54.6208  | 49  | 0.2695 |

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| <b>ebi-a-GCST90018861</b>       | acute RITs | Hypertrophic cardiomyopathy  | MR Egger | 14.2952  | 14  | 0.4280 |
| <b>ukb-e-I25_AFR</b>            | acute RITs | I25 Chronic ischaemic heart disease  | MR Egger | 5.9839   | 16  | 0.9883 |
| <b>ebi-a-GCST003043</b>         | acute RITs | Inflammatory bowel disease   | MR Egger | 227.0096 | 197 | 0.0702 |
| <b>ieu-a-292</b>                | acute RITs | Inflammatory bowel disease   | MR Egger | 195.9376 | 174 | 0.1220 |
| <b>ieu-a-294</b>                | acute RITs | Inflammatory bowel disease   | MR Egger | 225.0009 | 198 | 0.0913 |
| <b>ebi-a-GCST90038626</b>       | acute RITs | Irritable bowel syndrome   | MR Egger | 18.8719  | 20  | 0.5302 |
| <b>bbj-a-129</b>                | acute RITs | Ischemic stroke  | MR Egger | 31.9558  | 33  | 0.5189 |
| <b>ukb-e-K21_CSA</b>            | acute RITs | K21 Gastro-oesophageal reflux disease  | MR Egger | 5.7787   | 8   | 0.6720 |
| <b>ukb-e-M17_CSA</b>            | acute RITs | M17 Gonarthrosis [arthrosis of knee]   | MR Egger | 8.1512   | 13  | 0.8336 |
| <b>ukb-b-6458</b>               | acute RITs | Mouth/teeth dental problems: Mouth ulcers  | MR Egger | 126.1222 | 120 | 0.3330 |
| <b>ukb-a-429</b>                | acute RITs | Mouth/teeth dental problems: Painful gums  | MR Egger | 8.9468   | 11  | 0.6268 |
| <b>ieu-b-18</b>                 | acute RITs | multiple sclerosis   | MR Egger | 133.7718 | 134 | 0.4893 |
| <b>ukb-e-N17_CSA</b>            | acute RITs | N17 Acute renal failure  | MR Egger | 10.6986  | 10  | 0.3815 |
| <b>ukb-e-N18_AFR</b>            | acute RITs | N18 Chronic renal failure  | MR Egger | 10.7101  | 5   | 0.0574 |
| <b>ebi-a-GCST006940</b>         | acute RITs | Neuroticism  | MR Egger | 247.6022 | 284 | 0.9417 |
| <b>ukb-a-230</b>                | acute RITs | Neuroticism score  | MR Egger | 167.4983 | 223 | 0.9978 |
| <b>ukb-a-81</b>                 | acute RITs | Non-cancer illness code self-reported: depression                                | MR Egger | 39.4198  | 35  | 0.2788 |
| <b>ukb-a-94</b>                 | acute RITs | Non-cancer illness code self-reported: hayfever/allergic rhinitis                | MR Egger | 52.6346  | 70  | 0.9397 |
| <b>ukb-a-86</b>                 | acute RITs | Non-cancer illness code self-reported: joint disorder                            | MR Egger | 23.1568  | 23  | 0.4516 |
| <b>ukb-e-20002_p95_CS<br/>A</b> | acute RITs | Non-cancer illness code, self-reported   | MR Egger | 8.5200   | 13  | 0.8082 |
| <b>ukb-b-14027</b>              | acute RITs | Non-cancer illness code, self-reported: chickenpox                               | MR Egger | 1.8543   | 4   | 0.7625 |
| <b>ukb-b-3044</b>               | acute RITs | Non-cancer illness code, self-reported: colitis/not crohns or ulcerative colitis | MR Egger | 2.6911   | 4   | 0.6108 |
| <b>ukb-b-14452</b>              | acute RITs | Non-cancer illness code, self-reported: inguinal hernia                          | MR Egger | 5.2654   | 5   | 0.3844 |
| <b>ukb-b-2592</b>               | acute RITs | Non-cancer illness code, self-reported: irritable bowel syndrome                 | MR Egger | 21.3084  | 16  | 0.1670 |
| <b>ukb-b-17670</b>              | acute RITs | Non-cancer illness code, self-reported: multiple sclerosis                       | MR Egger | 8.5976   | 12  | 0.7369 |
| <b>ukb-b-6633</b>               | acute RITs | Non-cancer illness code, self-reported: other renal/kidney problem               | MR Egger | 3.1770   | 7   | 0.8682 |
| <b>ukb-b-14210</b>              | acute RITs | Non-cancer illness code, self-reported: rectal or colon adenoma/polyps           | MR Egger | 2.0330   | 1   | 0.1539 |
| <b>ukb-b-15749</b>              | acute RITs | Non-cancer illness code, self-reported: transient ischaemic attack (tia)         | MR Egger | 0.7250   | 3   | 0.8673 |
| <b>ebi-a-GCST007091</b>         | acute RITs | Osteoarthritis (hip)   | MR Egger | 74.0959  | 69  | 0.3156 |
| <b>ukb-d-I9_ARTOTH</b>          | acute RITs | Other diseases of arteries and capillaries                                       | MR Egger | 23.8581  | 18  | 0.1597 |
| <b>ukb-e-596_CSA</b>            | acute RITs | Other disorders of bladder   | MR Egger | 7.5203   | 10  | 0.6756 |
| <b>ukb-e-569_AFR</b>            | acute RITs | Other disorders of intestine   | MR Egger | 12.5801  | 12  | 0.4003 |
| <b>ukb-e-306_CSA</b>            | acute RITs | Other mental disorder  | MR Egger | 10.8257  | 9   | 0.2878 |
| <b>ukb-a-469</b>                | acute RITs | Pain type(s) experienced in last month: Headache                                 | MR Egger | 99.2384  | 109 | 0.7378 |
| <b>ukb-b-18596</b>              | acute RITs | Pain type(s) experienced in last month: Neck or shoulder pain                    | MR Egger | 104.3310 | 88  | 0.1128 |
| <b>ukb-b-9130</b>               | acute RITs | Pain type(s) experienced in last month: None of the above                        | MR Egger | 173.1336 | 175 | 0.5257 |

|                                  |            |  |          |          |     |        |
|----------------------------------|------------|--|----------|----------|-----|--------|
| <b>ukb-d-M13_DUPUTR YEN</b>      | acute RITs | Palmar fascial fibromatosis [Dupuytren]  | MR Egger | 74.9046  | 76  | 0.5140 |
| <b>ebi-a-GCST90018897</b>        | acute RITs | Periodontal disease  | MR Egger | 8.5571   | 14  | 0.8583 |
| <b>ebi-a-GCST90018679</b>        | acute RITs | Pleurisy   | MR Egger | 6.9747   | 9   | 0.6398 |
| <b>ebi-a-GCST90018683</b>        | acute RITs | Pollinosis   | MR Egger | 38.8110  | 23  | 0.0208 |
| <b>ebi-a-GCST005581</b>          | acute RITs | Primary biliary cirrhosis  | MR Egger | 43.3829  | 41  | 0.3701 |
| <b>ebi-a-GCST90013954</b>        | acute RITs | Retinitis pigmentosa (SPA correction)  | MR Egger | 17.7986  | 13  | 0.1653 |
| <b>ebi-a-GCST005538</b>          | acute RITs | Sarcoidosis  | MR Egger | 17.6463  | 11  | 0.0902 |
| <b>ukb-a-246</b>                 | acute RITs | Seen doctor (GP) for nerves anxiety tension or depression                      | MR Egger | 127.1674 | 129 | 0.5291 |
| <b>ebi-a-GCST90000255</b>        | acute RITs | Severe COVID-19 infection with respiratory failure (analysis I)                | MR Egger | 13.2410  | 13  | 0.4294 |
| <b>ebi-a-GCST90026414</b>        | acute RITs | Severe insulin-resistant type 2 diabetes                                       | MR Egger | 5.3018   | 10  | 0.8701 |
| <b>ukb-d-L12_NONION RADISKIN</b> | acute RITs | Skin changes due to chronic exposure to nonionizing radiation                  | MR Egger | 27.5510  | 32  | 0.6914 |
| <b>ebi-a-GCST003156</b>          | acute RITs | Systemic lupus erythematosus   | MR Egger | 90.5280  | 84  | 0.2938 |
| <b>ebi-a-GCST90011866</b>        | acute RITs | Systemic lupus erythematosus   | MR Egger | 58.2862  | 76  | 0.9346 |
| <b>ieu-a-815</b>                 | acute RITs | Systemic lupus erythematosus   | MR Egger | 4.5097   | 8   | 0.8085 |
| <b>bbj-a-153</b>                 | acute RITs | Type 2 diabetes  | MR Egger | 185.5136 | 201 | 0.7763 |
| <b>ebi-a-GCST90018706</b>        | acute RITs | Type 2 diabetes  | MR Egger | 153.2660 | 172 | 0.8445 |
| <b>ebi-a-GCST003045</b>          | acute RITs | Ulcerative colitis   | MR Egger | 160.7781 | 141 | 0.1218 |
| <b>ieu-a-968</b>                 | acute RITs | Ulcerative colitis   | MR Egger | 144.5327 | 116 | 0.0374 |
| <b>ieu-a-970</b>                 | acute RITs | Ulcerative colitis   | MR Egger | 155.3815 | 143 | 0.2263 |
| <b>ieu-b-5063</b>                | acute RITs | URTI   | MR Egger | 14.3568  | 13  | 0.3492 |
| <b>ebi-a-GCST90018718</b>        | acute RITs | Uveitis  | MR Egger | 2.7072   | 3   | 0.4390 |
| <b>ukb-e-20107_p11_CS A</b>      | acute RITs | Illnesses of father  | MR Egger | 22.7980  | 16  | 0.1192 |
| <b>ukb-a-201</b>                 | acute RITs | Illnesses of father: Heart disease   | MR Egger | 67.9014  | 65  | 0.3786 |
| <b>ukb-a-202</b>                 | acute RITs | Illnesses of father: None of the above (group 1)                               | MR Egger | 30.3928  | 31  | 0.4971 |
| <b>ukb-b-15169</b>               | acute RITs | Illnesses of father: None of the above (group 1)                               | MR Egger | 66.2234  | 43  | 0.0130 |
| <b>ukb-b-10415</b>               | acute RITs | Illnesses of father: None of the above (group 2)                               | MR Egger | 27.0057  | 34  | 0.7973 |
| <b>ukb-b-4024</b>                | acute RITs | Illnesses of mother: Stroke  | MR Egger | 12.3584  | 17  | 0.7780 |
| <b>ukb-b-18042</b>               | acute RITs | Illnesses of siblings: Diabetes  | MR Egger | 85.0003  | 78  | 0.2751 |
| <b>ukb-b-10783</b>               | acute RITs | Illnesses of siblings: None of the above (group 2)                             | MR Egger | 20.7161  | 33  | 0.9526 |
| <b>ukb-a-304</b>                 | acute RITs | Number of children fathered  | MR Egger | 26.0320  | 31  | 0.7198 |
| <b>ebi-a-GCST006702</b>          | acute RITs | Parental longevity (combined parental age at death)                            | MR Egger | 43.5928  | 58  | 0.9199 |
| <b>ebi-a-GCST006699</b>          | acute RITs | Parental longevity (mother's age at death)                                     | MR Egger | 33.9812  | 34  | 0.4686 |
| <b>ebi-a-GCST006696</b>          | acute RITs | Parental longevity (mother's attained age)                                     | MR Egger | 53.6722  | 53  | 0.4484 |
| <b>prot-a-2235</b>               | acute RITs | [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 1, mitochondrial | MR Egger | 12.1016  | 10  | 0.2783 |
| <b>prot-a-3251</b>               | acute RITs | 14-3-3 protein zeta/delta  | MR Egger | 23.2777  | 18  | 0.1801 |

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|---------------------------|------------|--|----------|---------|----|--------|
| <b>prot-a-1370</b>        | acute RITs | 15-hydroxyprostaglandin dehydrogenase [NAD(+)]                         | MR Egger | 25.8032 | 21 | 0.2141 |
| <b>prot-a-11</b>          | acute RITs | Acetyl-CoA carboxylase 2   | MR Egger | 6.0483  | 17 | 0.9929 |
| <b>prot-a-105</b>         | acute RITs | Acidic leucine-rich nuclear phosphoprotein 32 family member B          | MR Egger | 20.9154 | 22 | 0.5260 |
| <b>prot-a-43</b>          | acute RITs | Adhesion G-protein coupled receptor F1                                 | MR Egger | 21.9598 | 17 | 0.1863 |
| <b>prot-a-47</b>          | acute RITs | Alcohol dehydrogenase 4  | MR Egger | 21.4664 | 20 | 0.3701 |
| <b>prot-a-1155</b>        | acute RITs | Alpha-(1,3)-fucosyltransferase 9                                       | MR Egger | 10.7067 | 14 | 0.7089 |
| <b>ebi-a-GCST90006919</b> | acute RITs | Anti-herpes simplex virus 2 IgG seropositivity                         | MR Egger | 13.8563 | 16 | 0.6094 |
| <b>ebi-a-GCST90006921</b> | acute RITs | Anti-polyomavirus 2 IgG seropositivity                                 | MR Egger | 17.8640 | 16 | 0.3319 |
| <b>prot-a-180</b>         | acute RITs | Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 2 | MR Egger | 30.5199 | 20 | 0.0619 |
| <b>prot-a-204</b>         | acute RITs | Aurora kinase A  | MR Egger | 13.8336 | 16 | 0.6111 |
| <b>ebi-a-GCST90001829</b> | acute RITs | BAFF-R on B cell   | MR Egger | 11.0973 | 12 | 0.5206 |
| <b>ebi-a-GCST90001830</b> | acute RITs | BAFF-R on CD20- B cell   | MR Egger | 5.8698  | 4  | 0.2091 |
| <b>ebi-a-GCST90001702</b> | acute RITs | BAFF-R on CD24+ CD27+ B cell   | MR Egger | 8.0292  | 11 | 0.7107 |
| <b>ebi-a-GCST90001710</b> | acute RITs | BAFF-R on IgD- CD24- B cell  | MR Egger | 14.1574 | 12 | 0.2908 |
| <b>ebi-a-GCST90001711</b> | acute RITs | BAFF-R on IgD- CD27- B cell  | MR Egger | 12.4196 | 10 | 0.2580 |
| <b>ebi-a-GCST90001712</b> | acute RITs | BAFF-R on IgD- CD38- B cell  | MR Egger | 10.8918 | 11 | 0.4524 |
| <b>ebi-a-GCST90001713</b> | acute RITs | BAFF-R on IgD- CD38+ B cell  | MR Egger | 9.4910  | 11 | 0.5767 |
| <b>ebi-a-GCST90001719</b> | acute RITs | BAFF-R on IgD+ B cell  | MR Egger | 13.0503 | 15 | 0.5984 |
| <b>ebi-a-GCST90001704</b> | acute RITs | BAFF-R on IgD+ CD24- B cell  | MR Egger | 13.0409 | 13 | 0.4447 |
| <b>ebi-a-GCST90001703</b> | acute RITs | BAFF-R on IgD+ CD24+ B cell  | MR Egger | 2.7161  | 11 | 0.9940 |
| <b>ebi-a-GCST90001705</b> | acute RITs | BAFF-R on IgD+ CD38- B cell  | MR Egger | 11.4332 | 14 | 0.6517 |
| <b>ebi-a-GCST90001708</b> | acute RITs | BAFF-R on IgD+ CD38+ B cell  | MR Egger | 15.5020 | 16 | 0.4882 |
| <b>ebi-a-GCST90001709</b> | acute RITs | BAFF-R on IgD+ CD38dim B cell  | MR Egger | 17.5971 | 13 | 0.1734 |
| <b>ebi-a-GCST90001715</b> | acute RITs | BAFF-R on memory B cell  | MR Egger | 6.8319  | 8  | 0.5549 |
| <b>ebi-a-GCST90001716</b> | acute RITs | BAFF-R on naive-mature B cell  | MR Egger | 12.4309 | 14 | 0.5717 |
| <b>ebi-a-GCST90001718</b> | acute RITs | BAFF-R on switched memory B cell                                       | MR Egger | 9.9031  | 10 | 0.4490 |
| <b>ebi-a-GCST90001720</b> | acute RITs | BAFF-R on transitional B cell  | MR Egger | 22.1946 | 16 | 0.1370 |
| <b>ebi-a-GCST90001717</b> | acute RITs | BAFF-R on unswitched memory B cell                                     | MR Egger | 9.8788  | 14 | 0.7710 |
| <b>prot-a-231</b>         | acute RITs | Basal Cell Adhesion Molecule   | MR Egger | 15.1884 | 23 | 0.8878 |
| <b>prot-a-218</b>         | acute RITs | Beta-1,4-galactosyltransferase 3                                       | MR Egger | 13.9221 | 8  | 0.0838 |
| <b>prot-a-800</b>         | acute RITs | Beta-defensin 128  | MR Egger | 23.6720 | 20 | 0.2570 |
| <b>prot-a-801</b>         | acute RITs | Beta-defensin 134  | MR Egger | 12.8374 | 19 | 0.8468 |
| <b>prot-a-1396</b>        | acute RITs | Bone sialoprotein 2  | MR Egger | 16.0886 | 16 | 0.4468 |
| <b>prot-a-2391</b>        | acute RITs | Brain-specific serine protease 4                                       | MR Egger | 10.5752 | 14 | 0.7190 |
| <b>prot-a-232</b>         | acute RITs | Brevican core protein  | MR Egger | 20.3529 | 15 | 0.1588 |
| <b>prot-a-2947</b>        | acute RITs | Calcineurin B homologous protein 3                                     | MR Egger | 18.8905 | 13 | 0.1265 |

|                           |            |  |          |          |     |        |
|---------------------------|------------|--|----------|----------|-----|--------|
| <b>prot-a-2509</b>        | acute RITs | Calcipressin-1   | MR Egger | 28.3624  | 17  | 0.0409 |
| <b>prot-a-347</b>         | acute RITs | Calcium/calmodulin-dependent protein kinase type 1D                  | MR Egger | 14.8937  | 19  | 0.7293 |
| <b>prot-a-2290</b>        | acute RITs | Calcium-dependent phospholipase A2                                   | MR Egger | 26.1186  | 21  | 0.2020 |
| <b>prot-a-557</b>         | acute RITs | Carbohydrate sulfotransferase 5                                      | MR Egger | 13.2204  | 14  | 0.5092 |
| <b>prot-a-332</b>         | acute RITs | Carbonic anhydrase 5A, mitochondrial                                 | MR Egger | 12.6295  | 12  | 0.3965 |
| <b>prot-a-327</b>         | acute RITs | Carbonic anhydrase-related protein 10                                | MR Egger | 10.0730  | 20  | 0.9668 |
| <b>prot-a-649</b>         | acute RITs | Carboxypeptidase Z   | MR Egger | 33.6375  | 19  | 0.0203 |
| <b>prot-a-697</b>         | acute RITs | Casein kinase II 2-alpha:2-beta heterotetramer                       | MR Egger | 12.2942  | 17  | 0.7820 |
| <b>prot-a-721</b>         | acute RITs | Cathepsin F  | MR Egger | 17.2336  | 16  | 0.3706 |
| <b>prot-a-723</b>         | acute RITs | Cathepsin G  | MR Egger | 18.2980  | 17  | 0.3703 |
| <b>prot-a-724</b>         | acute RITs | Cathepsin H  | MR Egger | 17.4365  | 26  | 0.8953 |
| <b>prot-a-728</b>         | acute RITs | Cathepsin L2   | MR Egger | 17.7541  | 17  | 0.4045 |
| <b>prot-a-368</b>         | acute RITs | Caveolin-2   | MR Egger | 18.9659  | 14  | 0.1663 |
| <b>prot-a-398</b>         | acute RITs | C-C motif chemokine 22   | MR Egger | 14.3590  | 20  | 0.8118 |
| <b>prot-a-409</b>         | acute RITs | C-C motif chemokine 5  | MR Egger | 23.6220  | 24  | 0.4834 |
| <b>ebi-a-GCST90001449</b> | acute RITs | CD11c+ monocyte %monocyte  | MR Egger | 13.0289  | 13  | 0.4456 |
| <b>ebi-a-GCST90001748</b> | acute RITs | CD20 on IgD+ CD38- B cell  | MR Egger | 15.6426  | 19  | 0.6810 |
| <b>ebi-a-GCST90001751</b> | acute RITs | CD20 on IgD+ CD38+ B cell  | MR Egger | 10.3453  | 19  | 0.9439 |
| <b>ebi-a-GCST90001760</b> | acute RITs | CD20 on unswitched memory B cell                                     | MR Egger | 21.4455  | 14  | 0.0907 |
| <b>ebi-a-GCST90001760</b> | acute RITs | CD20 on unswitched memory B cell                                     | MR Egger | 21.4455  | 14  | 0.0907 |
| <b>ebi-a-GCST90001910</b> | acute RITs | CD45 on B cell   | MR Egger | 8.6191   | 14  | 0.8546 |
| <b>prot-a-3080</b>        | acute RITs | Cellular tumor antigen p53   | MR Egger | 29.4795  | 17  | 0.0304 |
| <b>prot-a-432</b>         | acute RITs | CMRF35-like molecule 8   | MR Egger | 14.3205  | 23  | 0.9173 |
| <b>prot-a-303</b>         | acute RITs | Complement C1q tumor necrosis factor-related protein 1               | MR Egger | 13.8001  | 18  | 0.7420 |
| <b>prot-a-303</b>         | acute RITs | Complement C1q tumor necrosis factor-related protein 1               | MR Egger | 13.8001  | 18  | 0.7420 |
| <b>prot-a-300</b>         | acute RITs | Complement component 1 Q subcomponent-binding protein, mitochondrial | MR Egger | 27.3953  | 26  | 0.3888 |
| <b>ebi-a-GCST90019439</b> | acute RITs | Complement factor B measurement                                      | MR Egger | 20.8139  | 26  | 0.7515 |
| <b>bbj-a-14</b>           | acute RITs | C-reactive protein   | MR Egger | 40.6548  | 44  | 0.6158 |
| <b>ieu-a-1015</b>         | acute RITs | C-reactive protein   | MR Egger | 17.4109  | 10  | 0.0658 |
| <b>prot-a-670</b>         | acute RITs | C-reactive protein   | MR Egger | 16.5111  | 19  | 0.6230 |
| <b>ieu-b-35</b>           | acute RITs | C-Reactive protein level   | MR Egger | 127.4712 | 128 | 0.4966 |
| <b>ebi-a-GCST90025959</b> | acute RITs | C-reactive protein levels  | MR Egger | 369.3230 | 351 | 0.2404 |
| <b>prot-a-579</b>         | acute RITs | C-type lectin domain family 5 member A                               | MR Egger | 14.7115  | 18  | 0.6817 |
| <b>ebi-a-GCST90002012</b> | acute RITs | CX3CR1 on CD14- CD16+ monocyte                                       | MR Egger | 20.2197  | 17  | 0.2631 |
| <b>ebi-a-GCST90001997</b> | acute RITs | CX3CR1 on CD14+ CD16- monocyte                                       | MR Egger | 19.4771  | 18  | 0.3630 |
| <b>ebi-a-GCST90001995</b> | acute RITs | CX3CR1 on monocyte   | MR Egger | 24.6545  | 18  | 0.1347 |

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|---------------------------|------------|---|----------|---------|----|--------|
| <b>prot-a-3175</b>        | acute RITs | Cytochrome b-c1 complex subunit 7         | MR Egger | 20.5149 | 16 | 0.1979 |
| <b>prot-a-1086</b>        | acute RITs | D-dimer                                   | MR Egger | 18.9999 | 14 | 0.1650 |
| <b>prot-a-813</b>         | acute RITs | Desert hedgehog protein N-product         | MR Egger | 6.8027  | 12 | 0.8704 |
| <b>prot-a-824</b>         | acute RITs | Dickkopf-like protein 1                   | MR Egger | 17.0942 | 14 | 0.2512 |
| <b>prot-a-586</b>         | acute RITs | Dual specificity protein kinase CLK2      | MR Egger | 20.2132 | 17 | 0.2635 |
| <b>prot-a-2179</b>        | acute RITs | E3 ubiquitin-protein ligase parkin        | MR Egger | 26.9373 | 18 | 0.0802 |
| <b>prot-a-2528</b>        | acute RITs | E3 ubiquitin-protein ligase rififylin     | MR Egger | 20.3184 | 11 | 0.0412 |
| <b>prot-a-3278</b>        | acute RITs | E3 ubiquitin-protein ligase ZNRF3         | MR Egger | 12.8557 | 10 | 0.2319 |
| <b>prot-a-984</b>         | acute RITs | Endoplasmic reticulum resident protein 29 | MR Egger | 11.5365 | 13 | 0.5660 |
| <b>prot-a-902</b>         | acute RITs | Ephrin-B1                                 | MR Egger | 12.9819 | 13 | 0.4492 |
| <b>prot-a-907</b>         | acute RITs | Ephrin-B3                                 | MR Egger | 15.4364 | 11 | 0.1634 |
| <b>prot-a-2071</b>        | acute RITs | Epididymal secretory protein E1           | MR Egger | 35.4736 | 24 | 0.0617 |
| <b>prot-a-1835</b>        | acute RITs | Epididymis-specific alpha-mannosidase     | MR Egger | 10.2115 | 15 | 0.8062 |
| <b>prot-a-977</b>         | acute RITs | Epiregulin                                | MR Egger | 19.8661 | 18 | 0.3404 |
| <b>prot-a-308</b>         | acute RITs | ES1 protein homolog, mitochondrial        | MR Egger | 22.4212 | 22 | 0.4350 |
| <b>prot-a-2892</b>        | acute RITs | Estrogen sulfotransferase                 | MR Egger | 23.4029 | 19 | 0.2201 |
| <b>prot-a-1001</b>        | acute RITs | Exosome complex component CSL4            | MR Egger | 22.3648 | 21 | 0.3788 |
| <b>prot-a-1003</b>        | acute RITs | Exostosin-like 2                          | MR Egger | 10.7529 | 15 | 0.7699 |
| <b>prot-a-1019</b>        | acute RITs | Fas apoptotic inhibitory molecule 3       | MR Egger | 25.5470 | 26 | 0.4882 |
| <b>prot-a-1102</b>        | acute RITs | Fibroblast growth factor receptor 2       | MR Egger | 21.3769 | 23 | 0.5581 |
| <b>prot-a-1117</b>        | acute RITs | Filamin-A                                 | MR Egger | 19.4266 | 14 | 0.1493 |
| <b>prot-a-567</b>         | acute RITs | Galectin-10                               | MR Egger | 9.8317  | 21 | 0.9810 |
| <b>prot-a-1295</b>        | acute RITs | Glucoside xylosyltransferase 1            | MR Egger | 16.5622 | 21 | 0.7373 |
| <b>prot-a-1285</b>        | acute RITs | Glutathione S-transferase A4              | MR Egger | 32.0086 | 24 | 0.1268 |
| <b>ebi-a-GCST90002248</b> | acute RITs | Glycated hemoglobin levels                | MR Egger | 30.0777 | 22 | 0.1166 |
| <b>prot-a-1046</b>        | acute RITs | Glycosaminoglycan xylosylkinase           | MR Egger | 22.4670 | 24 | 0.5514 |
| <b>prot-a-1277</b>        | acute RITs | Granulins                                 | MR Egger | 23.4833 | 24 | 0.4914 |
| <b>prot-a-1268</b>        | acute RITs | GRB2-related adapter protein              | MR Egger | 4.8974  | 9  | 0.8432 |
| <b>prot-a-747</b>         | acute RITs | Gro-beta/gamma                            | MR Egger | 5.8370  | 14 | 0.9704 |
| <b>prot-b-55</b>          | acute RITs | growth differentiation factor 15          | MR Egger | 8.0856  | 13 | 0.8380 |
| <b>prot-a-1272</b>        | acute RITs | Growth factor receptor-bound protein 7    | MR Egger | 13.1289 | 19 | 0.8319 |
| <b>prot-a-1196</b>        | acute RITs | Growth/differentiation factor 5           | MR Egger | 25.9864 | 18 | 0.1001 |
| <b>prot-a-1197</b>        | acute RITs | Growth/differentiation factor 9           | MR Egger | 15.1331 | 17 | 0.5859 |
| <b>prot-a-1199</b>        | acute RITs | GTP-binding protein GEM                   | MR Egger | 12.9299 | 18 | 0.7957 |
| <b>prot-a-1178</b>        | acute RITs | Guanylate-binding protein 6               | MR Egger | 28.6298 | 17 | 0.0381 |
| <b>prot-a-1387</b>        | acute RITs | Heat shock 70 kDa protein 1-like          | MR Egger | 5.9420  | 10 | 0.8201 |

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|---------------------------|------------|---|----------|---------|----|--------|
| <b>prot-a-1310</b>        | acute RITs | Hepatitis A virus cellular receptor 1                               | MR Egger | 13.8579 | 13 | 0.3839 |
| <b>prot-a-1366</b>        | acute RITs | Heterogeneous nuclear ribonucleoprotein K                           | MR Egger | 25.9969 | 21 | 0.2066 |
| <b>prot-a-2224</b>        | acute RITs | High affinity cGMP-specific 3',5'-cyclic phosphodiesterase 9A       | MR Egger | 12.4163 | 21 | 0.9277 |
| <b>prot-a-2121</b>        | acute RITs | High affinity nerve growth factor receptor                          | MR Egger | 11.6470 | 10 | 0.3094 |
| <b>prot-a-1338</b>        | acute RITs | Histidine triad nucleotide-binding protein 1                        | MR Egger | 14.6382 | 14 | 0.4033 |
| <b>prot-a-1607</b>        | acute RITs | Histone acetyltransferase KAT6A                                     | MR Egger | 8.5634  | 11 | 0.6621 |
| <b>prot-a-1304</b>        | acute RITs | Histone H2A.z   | MR Egger | 12.9408 | 13 | 0.4524 |
| <b>ebi-a-GCST90002116</b> | acute RITs | HLA DR on B cell  | MR Egger | 16.4945 | 12 | 0.1696 |
| <b>prot-a-1393</b>        | acute RITs | Hyaluronidase-1   | MR Egger | 30.1789 | 20 | 0.0670 |
| <b>prot-a-1071</b>        | acute RITs | Immunoglobulin alpha Fc receptor                                    | MR Egger | 6.2777  | 6  | 0.3928 |
| <b>prot-a-1576</b>        | acute RITs | Immunoglobulin superfamily containing leucine-rich repeat protein 2 | MR Egger | 12.5864 | 15 | 0.6342 |
| <b>prot-a-2141</b>        | acute RITs | Inositol polyphosphate 5-phosphatase OCRL-1                         | MR Egger | 17.7098 | 14 | 0.2203 |
| <b>prot-a-1593</b>        | acute RITs | Inositol-trisphosphate 3-kinase A                                   | MR Egger | 4.0298  | 9  | 0.9094 |
| <b>prot-a-1435</b>        | acute RITs | Interferon lambda-1   | MR Egger | 20.7357 | 12 | 0.0544 |
| <b>prot-a-1547</b>        | acute RITs | Interleukin enhancer-binding factor 3                               | MR Egger | 12.7634 | 12 | 0.3865 |
| <b>ebi-a-GCST004444</b>   | acute RITs | Interleukin-10 levels   | MR Egger | 13.3341 | 13 | 0.4223 |
| <b>prot-a-1479</b>        | acute RITs | Interleukin-16  | MR Egger | 20.7648 | 16 | 0.1877 |
| <b>ebi-a-GCST004448</b>   | acute RITs | Interleukin-1-beta levels   | MR Egger | 5.0298  | 3  | 0.1696 |
| <b>prot-a-1517</b>        | acute RITs | Interleukin-27 receptor subunit alpha                               | MR Egger | 11.1417 | 12 | 0.5168 |
| <b>prot-a-1524</b>        | acute RITs | Interleukin-34  | MR Egger | 33.6091 | 22 | 0.0538 |
| <b>prot-a-1528</b>        | acute RITs | Interleukin-36 gamma  | MR Egger | 12.3299 | 18 | 0.8297 |
| <b>prot-a-1533</b>        | acute RITs | Interleukin-4 receptor subunit alpha                                | MR Egger | 16.7544 | 17 | 0.4711 |
| <b>prot-a-1535</b>        | acute RITs | Interleukin-5   | MR Egger | 16.9921 | 14 | 0.2566 |
| <b>prot-a-1544</b>        | acute RITs | Interleukin-7 receptor subunit alpha                                | MR Egger | 26.4890 | 24 | 0.3288 |
| <b>prot-a-1595</b>        | acute RITs | Intersectin-1   | MR Egger | 23.3447 | 19 | 0.2225 |
| <b>prot-a-81</b>          | acute RITs | Intestinal-type alkaline phosphatase                                | MR Egger | 14.5913 | 14 | 0.4067 |
| <b>ebi-a-GCST90012012</b> | acute RITs | kallikrein-11 levels  | MR Egger | 23.9840 | 24 | 0.4625 |
| <b>prot-a-1664</b>        | acute RITs | Kallikrein-5  | MR Egger | 9.1997  | 10 | 0.5133 |
| <b>prot-a-1640</b>        | acute RITs | Killer cell immunoglobulin-like receptor 2DL2                       | MR Egger | 15.0282 | 15 | 0.4494 |
| <b>prot-a-1635</b>        | acute RITs | Kinesin-like protein KIF16B   | MR Egger | 26.5063 | 23 | 0.2776 |
| <b>prot-b-20</b>          | acute RITs | KIT ligand  | MR Egger | 10.8861 | 10 | 0.3665 |
| <b>prot-a-2825</b>        | acute RITs | Kunitz-type protease inhibitor 3                                    | MR Egger | 34.9208 | 23 | 0.0530 |
| <b>prot-a-2825</b>        | acute RITs | Kunitz-type protease inhibitor 3                                    | MR Egger | 34.9208 | 23 | 0.0530 |
| <b>prot-a-1714</b>        | acute RITs | Lactase-like protein  | MR Egger | 17.0916 | 11 | 0.1052 |
| <b>prot-a-1797</b>        | acute RITs | Leucine-rich repeat transmembrane neuronal protein 4                | MR Egger | 13.2826 | 17 | 0.7171 |
| <b>prot-a-1076</b>        | acute RITs | Low affinity immunoglobulin gamma Fc region receptor III-B          | MR Egger | 22.2120 | 22 | 0.4473 |

|                           |            |  |          |         |    |        |
|---------------------------|------------|--|----------|---------|----|--------|
| <b>prot-a-2666</b>        | acute RITs | L-Selectin   | MR Egger | 12.1245 | 20 | 0.9117 |
| <b>prot-a-2666</b>        | acute RITs | L-Selectin   | MR Egger | 12.1245 | 20 | 0.9117 |
| <b>prot-a-1735</b>        | acute RITs | Lutropin subunit beta  | MR Egger | 21.6425 | 18 | 0.2482 |
| <b>prot-a-454</b>         | acute RITs | Lymphocyte function-associated antigen 3   | MR Egger | 11.7311 | 9  | 0.2289 |
| <b>prot-a-3236</b>        | acute RITs | Lymphotactin   | MR Egger | 9.9917  | 13 | 0.6946 |
| <b>prot-a-1912</b>        | acute RITs | Macrophage metalloelastase   | MR Egger | 20.2028 | 14 | 0.1239 |
| <b>prot-a-1931</b>        | acute RITs | MAGUK p55 subfamily member 6   | MR Egger | 11.6626 | 15 | 0.7044 |
| <b>prot-a-1854</b>        | acute RITs | MAP kinase-activated protein kinase 5  | MR Egger | 27.8767 | 21 | 0.1437 |
| <b>prot-a-1916</b>        | acute RITs | Matrix metalloproteinase-16  | MR Egger | 10.6347 | 15 | 0.7780 |
| <b>prot-a-1896</b>        | acute RITs | Melanoma-derived growth regulatory protein   | MR Egger | 11.3601 | 15 | 0.7267 |
| <b>prot-a-1908</b>        | acute RITs | Membrane metallo-endopeptidase-like 1  | MR Egger | 19.6668 | 26 | 0.8071 |
| <b>ebi-a-GCST90006924</b> | acute RITs | Merkel cell polyomavirus VP1 antibody levels   | MR Egger | 13.6464 | 13 | 0.3992 |
| <b>prot-a-1052</b>        | acute RITs | MIP18 family protein FAM96A  | MR Egger | 12.9799 | 12 | 0.3705 |
| <b>prot-a-5</b>           | acute RITs | Monoacylglycerol lipase ABHD12   | MR Egger | 20.7421 | 16 | 0.1886 |
| <b>prot-b-75</b>          | acute RITs | mucin 16, cell surface associated  | MR Egger | 13.9397 | 10 | 0.1758 |
| <b>prot-b-75</b>          | acute RITs | mucin 16, cell surface associated  | MR Egger | 13.9397 | 10 | 0.1758 |
| <b>prot-a-1967</b>        | acute RITs | Mucin-1  | MR Egger | 18.3683 | 20 | 0.5632 |
| <b>prot-a-1995</b>        | acute RITs | N-acetyl-D-glucosamine kinase  | MR Egger | 18.0411 | 15 | 0.2605 |
| <b>prot-a-2057</b>        | acute RITs | NACHT, LRR and PYD domains-containing protein 4  | MR Egger | 23.0133 | 16 | 0.1134 |
| <b>prot-a-2026</b>        | acute RITs | NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial  | MR Egger | 4.0299  | 10 | 0.9460 |
| <b>prot-a-2081</b>        | acute RITs | Neuronal pentraxin-2   | MR Egger | 15.8523 | 15 | 0.3919 |
| <b>prot-a-345</b>         | acute RITs | Neuron-specific vesicular protein calcyon  | MR Egger | 16.8495 | 16 | 0.3954 |
| <b>prot-a-2099</b>        | acute RITs | Neuropilin-1   | MR Egger | 17.4618 | 23 | 0.7860 |
| <b>prot-a-2050</b>        | acute RITs | Nidogen-2  | MR Egger | 9.3410  | 12 | 0.6736 |
| <b>prot-a-1674</b>        | acute RITs | NKG2-D type II integral membrane protein   | MR Egger | 17.3318 | 18 | 0.5004 |
| <b>prot-a-1872</b>        | acute RITs | Nuclear protein MDM1   | MR Egger | 22.8331 | 15 | 0.0877 |
| <b>prot-a-2086</b>        | acute RITs | Nuclear receptor subfamily 1 group D member 2  | MR Egger | 19.4588 | 19 | 0.4278 |
| <b>prot-a-2093</b>        | acute RITs | Nuclear receptor-binding protein   | MR Egger | 21.5889 | 17 | 0.2010 |
| <b>prot-a-2150</b>        | acute RITs | Oligophrenin-1   | MR Egger | 14.2786 | 18 | 0.7108 |
| <b>prot-a-2155</b>        | acute RITs | Oncostatin-M   | MR Egger | 11.2612 | 20 | 0.9392 |
| <b>prot-a-2272</b>        | acute RITs | Paired immunoglobulin-like type 2 receptor alpha   | MR Egger | 13.1362 | 19 | 0.8315 |
| <b>prot-a-2344</b>        | acute RITs | Peptidyl-prolyl cis-trans isomerase-like 2   | MR Egger | 28.3108 | 19 | 0.0776 |
| <b>prot-a-2425</b>        | acute RITs | Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN | MR Egger | 21.1516 | 20 | 0.3883 |
| <b>prot-a-2294</b>        | acute RITs | Phospholipase B-like 1   | MR Egger | 8.4344  | 14 | 0.8655 |
| <b>prot-a-2698</b>        | acute RITs | Pigment epithelium-derived factor  | MR Egger | 11.8713 | 17 | 0.8079 |
| <b>prot-a-2299</b>        | acute RITs | Pleckstrin homology domain-containing family A member 1  | MR Egger | 24.3720 | 20 | 0.2265 |

|                    |            |   |          |         |    |        |
|--------------------|------------|---|----------|---------|----|--------|
| <b>prot-a-1171</b> | acute RITs | Polypeptide N-acetylgalactosaminyltransferase 2                       | MR Egger | 24.4302 | 18 | 0.1414 |
| <b>prot-a-1613</b> | acute RITs | Potassium voltage-gated channel subfamily E regulatory beta subunit 5 | MR Egger | 11.1618 | 14 | 0.6733 |
| <b>prot-a-1615</b> | acute RITs | Potassium voltage-gated channel subfamily G member 4                  | MR Egger | 22.6642 | 19 | 0.2525 |
| <b>prot-a-2209</b> | acute RITs | Procollagen C-endopeptidase enhancer 1                                | MR Egger | 15.7999 | 18 | 0.6065 |
| <b>prot-a-2409</b> | acute RITs | Proteasome subunit alpha type-1                                       | MR Egger | 19.8851 | 15 | 0.1764 |
| <b>prot-a-827</b>  | acute RITs | Protein delta homolog 1   | MR Egger | 14.9014 | 17 | 0.6026 |
| <b>prot-a-810</b>  | acute RITs | Protein DGCR6   | MR Egger | 17.3577 | 19 | 0.5656 |
| <b>prot-a-2232</b> | acute RITs | Protein disulfide-isomerase A3  | MR Egger | 17.8411 | 21 | 0.6590 |
| <b>prot-a-2233</b> | acute RITs | Protein disulfide-isomerase A5  | MR Egger | 36.3343 | 24 | 0.0509 |
| <b>prot-a-1027</b> | acute RITs | Protein FAM163A   | MR Egger | 29.1901 | 21 | 0.1095 |
| <b>prot-a-1049</b> | acute RITs | Protein FAM3B   | MR Egger | 15.2434 | 10 | 0.1234 |
| <b>prot-a-2619</b> | acute RITs | Protein S100-A5   | MR Egger | 24.9758 | 22 | 0.2982 |
| <b>prot-a-3093</b> | acute RITs | Protein-tyrosine sulfotransferase 2                                   | MR Egger | 31.5890 | 24 | 0.1375 |
| <b>prot-a-3093</b> | acute RITs | Protein-tyrosine sulfotransferase 2                                   | MR Egger | 31.5890 | 24 | 0.1375 |
| <b>prot-a-2203</b> | acute RITs | Protocadherin beta-1  | MR Egger | 14.0309 | 16 | 0.5964 |
| <b>prot-a-2207</b> | acute RITs | Protocadherin gamma-C5  | MR Egger | 19.5632 | 19 | 0.4213 |
| <b>prot-a-2191</b> | acute RITs | Pterin-4-alpha-carbinolamine dehydratase                              | MR Egger | 12.3551 | 15 | 0.6520 |
| <b>prot-a-2711</b> | acute RITs | Pulmonary surfactant-associated protein C                             | MR Egger | 25.4214 | 23 | 0.3289 |
| <b>prot-a-2477</b> | acute RITs | Ras-related protein Rab-39B   | MR Egger | 28.0787 | 18 | 0.0609 |
| <b>prot-a-2444</b> | acute RITs | Receptor-type tyrosine-protein phosphatase H                          | MR Egger | 9.1460  | 16 | 0.9073 |
| <b>prot-a-2524</b> | acute RITs | Resistin  | MR Egger | 24.9242 | 19 | 0.1631 |
| <b>prot-a-2497</b> | acute RITs | Retinoblastoma-binding protein 5                                      | MR Egger | 10.7267 | 12 | 0.5525 |
| <b>prot-a-2602</b> | acute RITs | Ribonucleoside-diphosphate reductase subunit M2 B                     | MR Egger | 17.9169 | 13 | 0.1607 |
| <b>prot-a-1945</b> | acute RITs | Ribosome-recycling factor, mitochondrial                              | MR Egger | 17.4362 | 19 | 0.5603 |
| <b>prot-a-2584</b> | acute RITs | Ribulose-phosphate 3-epimerase  | MR Egger | 12.5120 | 10 | 0.2523 |
| <b>prot-a-2569</b> | acute RITs | RING finger protein 215   | MR Egger | 17.5015 | 17 | 0.4209 |
| <b>prot-a-2575</b> | acute RITs | rRNA methyltransferase 3, mitochondrial                               | MR Egger | 17.7704 | 18 | 0.4709 |
| <b>prot-a-2641</b> | acute RITs | Scavenger receptor class F member 2                                   | MR Egger | 20.5740 | 19 | 0.3608 |
| <b>prot-a-2642</b> | acute RITs | Scavenger receptor class F member 2                                   | MR Egger | 14.0834 | 17 | 0.6612 |
| <b>prot-a-2709</b> | acute RITs | Secreted frizzled-related protein 1                                   | MR Egger | 13.8600 | 19 | 0.7918 |
| <b>prot-a-2669</b> | acute RITs | Semaphorin-3A   | MR Egger | 16.9595 | 23 | 0.8112 |
| <b>prot-a-2671</b> | acute RITs | Semaphorin-3C   | MR Egger | 8.9164  | 10 | 0.5401 |
| <b>prot-a-2838</b> | acute RITs | Serine/arginine-rich splicing factor 6                                | MR Egger | 10.7555 | 10 | 0.3769 |
| <b>prot-a-2170</b> | acute RITs | Serine/threonine-protein kinase PAK 4                                 | MR Egger | 10.4493 | 11 | 0.4905 |
| <b>prot-a-2690</b> | acute RITs | Serpin A12  | MR Egger | 45.1903 | 24 | 0.0055 |
| <b>prot-a-2730</b> | acute RITs | Sialic acid-binding Ig-like lectin 8                                  | MR Egger | 23.1612 | 21 | 0.3354 |

|                           |            |  |          |         |    |        |
|---------------------------|------------|--|----------|---------|----|--------|
| <b>prot-a-2655</b>        | acute RITs | Signal peptide, CUB and EGF-like domain-containing protein 1           | MR Egger | 21.5462 | 13 | 0.0628 |
| <b>prot-a-2775</b>        | acute RITs | Single-pass membrane and coiled-coil domain-containing protein 2       | MR Egger | 16.4598 | 14 | 0.2861 |
| <b>prot-a-2714</b>        | acute RITs | Small glutamine-rich tetratricopeptide repeat-containing protein alpha | MR Egger | 14.2228 | 18 | 0.7145 |
| <b>prot-a-2763</b>        | acute RITs | Sodium- and chloride-dependent glycine transporter 1                   | MR Egger | 12.0151 | 11 | 0.3625 |
| <b>prot-a-200</b>         | acute RITs | Sodium/potassium-transporting ATPase subunit beta-2                    | MR Egger | 15.7664 | 17 | 0.5404 |
| <b>prot-a-352</b>         | acute RITs | Soluble calcium-activated nucleotidase 1                               | MR Egger | 19.0121 | 15 | 0.2132 |
| <b>prot-a-2795</b>        | acute RITs | Sorting nexin-7  | MR Egger | 19.4470 | 22 | 0.6176 |
| <b>prot-a-2804</b>        | acute RITs | Sperm acrosome membrane-associated protein 3                           | MR Egger | 20.3281 | 17 | 0.2578 |
| <b>prot-b-68</b>          | acute RITs | spondin 1  | MR Egger | 2.3981  | 2  | 0.3015 |
| <b>ebi-a-GCST90002074</b> | acute RITs | SSC-A on CD14+ monocyte  | MR Egger | 14.9470 | 17 | 0.5993 |
| <b>ebi-a-GCST90002081</b> | acute RITs | SSC-A on CD4+ T cell   | MR Egger | 22.7171 | 18 | 0.2017 |
| <b>ebi-a-GCST90002079</b> | acute RITs | SSC-A on lymphocyte  | MR Egger | 12.3689 | 15 | 0.6509 |
| <b>ebi-a-GCST90019393</b> | acute RITs | Stromal cell-derived factor 2 measurement                              | MR Egger | 16.9295 | 13 | 0.2025 |
| <b>prot-a-2468</b>        | acute RITs | Sulfhydryl oxidase 1   | MR Egger | 12.0768 | 14 | 0.6001 |
| <b>prot-a-2894</b>        | acute RITs | Sulfotransferase 4A1   | MR Egger | 21.7505 | 18 | 0.2433 |
| <b>prot-a-2901</b>        | acute RITs | Sushi domain-containing protein 1                                      | MR Egger | 15.0327 | 20 | 0.7745 |
| <b>prot-a-2885</b>        | acute RITs | Syntaxin-1A  | MR Egger | 19.2578 | 19 | 0.4404 |
| <b>prot-a-2933</b>        | acute RITs | TATA-box-binding protein   | MR Egger | 25.3594 | 17 | 0.0869 |
| <b>prot-a-3068</b>        | acute RITs | Tenascin-R   | MR Egger | 13.6423 | 20 | 0.8482 |
| <b>prot-a-3084</b>        | acute RITs | Thiamin pyrophosphokinase 1  | MR Egger | 15.0966 | 15 | 0.4445 |
| <b>prot-a-3102</b>        | acute RITs | Thyrotropin-releasing hormone  | MR Egger | 27.3671 | 21 | 0.1590 |
| <b>prot-a-3076</b>        | acute RITs | Torsin-1A-interacting protein 1  | MR Egger | 20.7310 | 17 | 0.2386 |
| <b>prot-a-3115</b>        | acute RITs | TPA-induced transmembrane protein                                      | MR Egger | 9.9254  | 10 | 0.4471 |
| <b>prot-a-2963</b>        | acute RITs | Transforming growth factor beta-1-induced transcript 1 protein         | MR Egger | 25.1920 | 18 | 0.1197 |
| <b>prot-a-918</b>         | acute RITs | Translation initiation factor eIF-2B subunit alpha                     | MR Egger | 14.0787 | 11 | 0.2287 |
| <b>prot-a-2844</b>        | acute RITs | Translocon-associated protein subunit alpha                            | MR Egger | 13.5616 | 12 | 0.3296 |
| <b>prot-a-2992</b>        | acute RITs | Transmembrane and coiled-coil domain-containing protein 5A             | MR Egger | 16.1171 | 27 | 0.9507 |
| <b>prot-a-2993</b>        | acute RITs | Transmembrane emp24 domain-containing protein 10                       | MR Egger | 7.8867  | 14 | 0.8951 |
| <b>prot-a-285</b>         | acute RITs | Transmembrane protein C16orf54   | MR Egger | 18.5662 | 15 | 0.2341 |
| <b>prot-a-1883</b>        | acute RITs | tRNA (guanine-N(7)-)-methyltransferase                                 | MR Egger | 22.7817 | 15 | 0.0889 |
| <b>prot-a-3029</b>        | acute RITs | Tumor necrosis factor  | MR Egger | 11.2181 | 14 | 0.6688 |
| <b>prot-a-3059</b>        | acute RITs | Tumor necrosis factor ligand superfamily member 15                     | MR Egger | 19.0716 | 20 | 0.5172 |
| <b>prot-a-3128</b>        | acute RITs | TYMS opposite strand protein   | MR Egger | 25.5311 | 17 | 0.0834 |
| <b>prot-a-3129</b>        | acute RITs | Tyrosine-protein kinase receptor TYRO3                                 | MR Egger | 15.7539 | 19 | 0.6736 |
| <b>prot-a-2582</b>        | acute RITs | Tyrosine-protein kinase transmembrane receptor ROR2                    | MR Egger | 21.8201 | 24 | 0.5900 |
| <b>prot-a-598</b>         | acute RITs | UMP-CMP kinase   | MR Egger | 23.7727 | 16 | 0.0946 |

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|-----------------------------|------------|--|----------|----------|-----|--------|
| <b>prot-a-295</b>           | acute RITs | Uncharacterized protein C1orf115   | MR Egger | 22.2732  | 23  | 0.5038 |
| <b>prot-a-311</b>           | acute RITs | Uncharacterized protein C2orf66  | MR Egger | 16.9315  | 16  | 0.3900 |
| <b>prot-a-3155</b>          | acute RITs | UTP--glucose-1-phosphate uridylyltransferase   | MR Egger | 12.4798  | 11  | 0.3287 |
| <b>prot-a-3197</b>          | acute RITs | Vascular endothelial growth factor A, isoform 121  | MR Egger | 7.3596   | 17  | 0.9784 |
| <b>prot-a-3197</b>          | acute RITs | Vascular endothelial growth factor A, isoform 121  | MR Egger | 7.3596   | 17  | 0.9784 |
| <b>ebi-a-GCST004422</b>     | acute RITs | Vascular endothelial growth factor levels  | MR Egger | 14.4331  | 14  | 0.4180 |
| <b>ebi-a-GCST90011995</b>   | acute RITs | Vascular endothelial growth factor levels  | MR Egger | 10.8427  | 15  | 0.7637 |
| <b>ebi-a-GCST90011995</b>   | acute RITs | Vascular endothelial growth factor levels  | MR Egger | 10.8427  | 15  | 0.7637 |
| <b>ebi-a-GCST90011995</b>   | acute RITs | Vascular endothelial growth factor levels  | MR Egger | 10.8427  | 15  | 0.7637 |
| <b>prot-a-3212</b>          | acute RITs | Vesicle transport through interaction with t-SNAREs homolog 1A   | MR Egger | 15.3234  | 18  | 0.6397 |
| <b>prot-a-1179</b>          | acute RITs | Vitamin D-binding protein  | MR Egger | 19.1904  | 15  | 0.2052 |
| <b>prot-a-3230</b>          | acute RITs | Wnt inhibitory factor 1  | MR Egger | 16.2734  | 15  | 0.3641 |
| <b>prot-a-3231</b>          | acute RITs | WNT1-inducible-signaling pathway protein 1   | MR Egger | 12.5816  | 15  | 0.6346 |
| <b>prot-a-3276</b>          | acute RITs | Zinc finger protein 774  | MR Egger | 21.3909  | 25  | 0.6706 |
| <b>prot-a-208</b>           | acute RITs | Zinc-alpha-2-glycoprotein  | MR Egger | 12.5341  | 14  | 0.5635 |
| <b>ukb-a-406</b>            | acute RITs | Current employment status: Looking after home and/or family  | MR Egger | 7.1092   | 15  | 0.9545 |
| <b>ukb-d-22601_41123205</b> | acute RITs | Job coding: civil service administrative officer or assistant or clerk, tax collector, prison service clerk, law courts clerk  | MR Egger | 21.5350  | 24  | 0.6070 |
| <b>ukb-d-22601_35393271</b> | acute RITs | Job coding: management information officer, conference/events co-ordinator/organiser, exhibition officer, work study engineer/officer/analyst, contract adviser/agent, election agent, business system analyst | MR Egger | 14.3838  | 20  | 0.8105 |
| <b>ukb-d-22601_23193405</b> | acute RITs | Job coding: other teaching professional including private tutor, tefl (teaching english as a foreign language) teacher; tutor at adult education centre, etc.  | MR Egger | 17.2236  | 18  | 0.5078 |
| <b>ukb-d-22601_23213026</b> | acute RITs | Job coding: scientific researcher, scientific officer, medical research associate, experimental officer  | MR Egger | 20.3373  | 21  | 0.5000 |
| <b>ukb-d-22601_23163403</b> | acute RITs | Job coding: special needs teaching professional (including head teacher)   | MR Egger | 27.0209  | 17  | 0.0578 |
| <b>ukb-e-826_AFR</b>        | acute RITs | Job involves shift work  | MR Egger | 10.8408  | 13  | 0.6241 |
| <b>ukb-d-22617_1151</b>     | acute RITs | Job SOC coding: Financial institution managers   | MR Egger | 25.9140  | 19  | 0.1326 |
| <b>ukb-d-22617_2321</b>     | acute RITs | Job SOC coding: Scientific researchers   | MR Egger | 30.9385  | 24  | 0.1556 |
| <b>ukb-d-22617_3231</b>     | acute RITs | Job SOC coding: Youth and community workers  | MR Egger | 27.1554  | 22  | 0.2054 |
| <b>ukb-b-18099</b>          | acute RITs | Qualifications: O levels/GCSEs or equivalent   | MR Egger | 151.2988 | 132 | 0.1200 |
| <b>ukb-a-368</b>            | acute RITs | Work/job satisfaction  | MR Egger | 17.1804  | 22  | 0.7533 |
| <b>ebi-a-GCST90013919</b>   | acute RITs | Cholesterol lowering medication use (UKB data field 6177_1) (Firth correction)   | MR Egger | 124.2182 | 120 | 0.3775 |
| <b>ebi-a-GCST90013969</b>   | acute RITs | Cholesterol lowering medication use (UKB data field 6177_1) (SPA correction)   | MR Egger | 120.2129 | 119 | 0.4516 |
| <b>ukb-a-488</b>            | acute RITs | Medication for cholesterol blood pressure or diabetes: Cholesterol lowering medication   | MR Egger | 115.1620 | 92  | 0.0515 |
| <b>ukb-b-11740</b>          | acute RITs | Medication for cholesterol, blood pressure or diabetes: Cholesterol lowering medication  | MR Egger | 142.8262 | 127 | 0.1596 |
| <b>ukb-e-6153_p2_AFR</b>    | acute RITs | Medication for cholesterol, blood pressure, diabetes, or take exogenous hormones   | MR Egger | 25.4026  | 19  | 0.1477 |
| <b>ebi-a-GCST90018984</b>   | acute RITs | Medication use (antihypertensives)   | MR Egger | 65.5009  | 51  | 0.0833 |
| <b>ebi-a-GCST90018767</b>   | acute RITs | Medication use (calcium channel blockers)  | MR Egger | 85.5253  | 66  | 0.0534 |

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| <b>ebi-a-GCST90018985</b>   | acute RITs | Medication use (diuretics)   | MR Egger | 200.8694 | 205 | 0.5684 |
| <b>ebi-a-GCST90018993</b>   | acute RITs | Medication use (drugs affecting bone structure and mineralization)           | MR Egger | 61.8000  | 57  | 0.3087 |
| <b>ukb-b-12753</b>          | acute RITs | Recent medication for hayfever or allergic rhinitis                          | MR Egger | 20.0930  | 15  | 0.1684 |
| <b>ukb-b-15918</b>          | acute RITs | Treatment speciality of consultant (recoded): Dermatology                    | MR Egger | 33.3506  | 28  | 0.2231 |
| <b>ukb-b-3255</b>           | acute RITs | Treatment speciality of consultant (recoded): Upper gastrointestinal surgery | MR Egger | 4.4632   | 5   | 0.4848 |
| <b>ukb-e-20003_p118_AFR</b> | acute RITs | Treatment/medication code  | MR Egger | 26.5559  | 18  | 0.0877 |
| <b>ukb-b-9207</b>           | acute RITs | Treatment/medication code: amlodipine  | MR Egger | 89.4062  | 87  | 0.4086 |
| <b>ukb-b-11862</b>          | acute RITs | Treatment/medication code: beconase 50micrograms nasal spray                 | MR Egger | 4.9543   | 8   | 0.7624 |
| <b>ukb-b-7385</b>           | acute RITs | Treatment/medication code: codeine   | MR Egger | 5.3450   | 4   | 0.2537 |
| <b>ukb-b-8668</b>           | acute RITs | Treatment/medication code: doxazosin   | MR Egger | 37.3080  | 34  | 0.3195 |
| <b>ukb-a-162</b>            | acute RITs | Treatment/medication code: perindopril                                       | MR Egger | 25.2689  | 21  | 0.2357 |
| <b>ukb-a-141</b>            | acute RITs | Treatment/medication code: prednisolone                                      | MR Egger | 9.0058   | 13  | 0.7725 |
| <b>ukb-b-11895</b>          | acute RITs | Treatment/medication code: ramipril  | MR Egger | 45.5781  | 63  | 0.9518 |
| <b>ukb-a-130</b>            | acute RITs | Treatment/medication code: senna   | MR Egger | 19.0385  | 25  | 0.7953 |
| <b>ukb-b-16956</b>          | acute RITs | Treatment/medication code: thyroxine sodium                                  | MR Egger | 6.7921   | 9   | 0.6588 |
| <b>ukb-a-120</b>            | acute RITs | Treatment/medication code: tranexamic acid                                   | MR Egger | 17.9197  | 21  | 0.6541 |
| <b>ukb-b-17616</b>          | acute RITs | Treatment/medication code: xalatan 0.005% eye drops                          | MR Egger | 5.2207   | 9   | 0.8147 |
| <b>ukb-e-6155_p5_AFR</b>    | acute RITs | Vitamin and mineral supplements  | MR Egger | 13.8846  | 10  | 0.1783 |
| <b>ukb-e-6155_p8_AFR</b>    | acute RITs | Vitamin and mineral supplements  | MR Egger | 12.3538  | 14  | 0.5779 |
| <b>ukb-a-464</b>            | acute RITs | Vitamin and mineral supplements: Multivitamins +/- minerals                  | MR Egger | 48.4845  | 45  | 0.3343 |
| <b>ukb-b-19550</b>          | acute RITs | Vitamin and/or mineral supplement use: Calcium                               | MR Egger | 3.3034   | 4   | 0.5084 |
| <b>ukb-b-18593</b>          | acute RITs | Vitamin D  | MR Egger | 18.0256  | 20  | 0.5857 |
| <b>ukb-e-Z51_AFR</b>        | acute RITs | Z51 Other medical care   | MR Egger | 10.5295  | 13  | 0.6502 |
| <b>met-c-846</b>            | acute RITs | 3-hydroxybutyrate  | MR Egger | 19.3353  | 15  | 0.1989 |
| <b>met-d-bOHbutyrate</b>    | acute RITs | 3-Hydroxybutyrate  | MR Egger | 52.0645  | 42  | 0.1373 |
| <b>met-a-311</b>            | acute RITs | 3-hydroxybutyrate (BHBA)   | MR Egger | 10.2107  | 7   | 0.1769 |
| <b>met-a-365</b>            | acute RITs | 3-methoxytyrosine  | MR Egger | 18.3732  | 14  | 0.1903 |
| <b>ieu-a-1</b>              | acute RITs | Adiponectin  | MR Egger | 22.0373  | 30  | 0.8527 |
| <b>met-a-537</b>            | acute RITs | Adrenate (22:4n6)  | MR Egger | 13.2748  | 9   | 0.1506 |
| <b>bbj-a-9</b>              | acute RITs | Albumin  | MR Egger | 29.1847  | 46  | 0.9748 |
| <b>met-a-616</b>            | acute RITs | Alpha-hydroxyisovalerate   | MR Egger | 9.9355   | 12  | 0.6216 |
| <b>met-d-ApoA1</b>          | acute RITs | Apolipoprotein A1  | MR Egger | 140.8373 | 139 | 0.4405 |
| <b>ieu-b-107</b>            | acute RITs | apolipoprotein A-I   | MR Egger | 449.1411 | 467 | 0.7157 |
| <b>met-c-842</b>            | acute RITs | Apolipoprotein A-I   | MR Egger | 31.2163  | 28  | 0.3076 |
| <b>ieu-b-108</b>            | acute RITs | apolipoprotein B   | MR Egger | 297.6148 | 300 | 0.5281 |
| <b>ieu-b-108</b>            | acute RITs | apolipoprotein B   | MR Egger | 297.6148 | 300 | 0.5281 |

|                           |            |  |          |          |     |        |
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| <b>met-d-ApoB</b>         | acute RITs | Apolipoprotein B                                       | MR Egger | 101.8768 | 106 | 0.5952 |
| <b>ebi-a-GCST90092809</b> | acute RITs | Apolipoprotein B levels                                | MR Egger | 102.0968 | 107 | 0.6159 |
| <b>prot-a-134</b>         | acute RITs | Apolipoprotein L1                                      | MR Egger | 20.6306  | 19  | 0.3576 |
| <b>met-a-638</b>          | acute RITs | Asparagine   | MR Egger | 38.7805  | 37  | 0.3893 |
| <b>ieu-b-4869</b>         | acute RITs | Bioavailable Testosterone                              | MR Egger | 223.3301 | 229 | 0.5933 |
| <b>ebi-a-GCST90012102</b> | acute RITs | Bioavailable testosterone levels                       | MR Egger | 266.0651 | 264 | 0.4528 |
| <b>ebi-a-GCST90012104</b> | acute RITs | Bioavailable testosterone levels                       | MR Egger | 230.6376 | 222 | 0.3313 |
| <b>ebi-a-GCST90012104</b> | acute RITs | Bioavailable testosterone levels                       | MR Egger | 230.6376 | 222 | 0.3313 |
| <b>bbj-a-10</b>           | acute RITs | Blood sugar  | MR Egger | 38.2642  | 42  | 0.6357 |
| <b>ebi-a-GCST90018948</b> | acute RITs | Blood urea nitrogen levels                             | MR Egger | 371.0350 | 355 | 0.2683 |
| <b>ebi-a-GCST90014002</b> | acute RITs | C reactive protein levels (UKB data field 30710)       | MR Egger | 389.9967 | 390 | 0.4905 |
| <b>met-a-481</b>          | acute RITs | Caprylate (8:0)  | MR Egger | 29.6037  | 40  | 0.8860 |
| <b>met-c-887</b>          | acute RITs | Cholesterol esters in large VLDL                       | MR Egger | 28.1059  | 29  | 0.5123 |
| <b>met-c-899</b>          | acute RITs | Cholesterol esters in medium HDL                       | MR Egger | 10.2574  | 19  | 0.9463 |
| <b>met-c-899</b>          | acute RITs | Cholesterol esters in medium HDL                       | MR Egger | 10.2574  | 19  | 0.9463 |
| <b>met-d-M_HDL_C</b>      | acute RITs | Cholesterol in medium HDL                              | MR Egger | 165.1999 | 150 | 0.1873 |
| <b>met-d-M_VLDL_C</b>     | acute RITs | Cholesterol in medium VLDL                             | MR Egger | 118.3159 | 112 | 0.3232 |
| <b>met-d-S_LDL_C</b>      | acute RITs | Cholesterol in small LDL                               | MR Egger | 103.2440 | 99  | 0.3652 |
| <b>ebi-a-GCST90014000</b> | acute RITs | Cholesterol levels (UKB data field 30690)              | MR Egger | 240.4932 | 277 | 0.9448 |
| <b>ebi-a-GCST90092956</b> | acute RITs | Cholesterol levels in small LDL                        | MR Egger | 83.7880  | 95  | 0.7878 |
| <b>met-d-M_HDL_C_pct</b>  | acute RITs | Cholesterol to total lipids ratio in medium HDL        | MR Egger | 143.3572 | 166 | 0.8974 |
| <b>ebi-a-GCST90092918</b> | acute RITs | Cholesteryl ester levels in medium VLDL                | MR Egger | 90.9270  | 94  | 0.5706 |
| <b>ebi-a-GCST90060634</b> | acute RITs | Cholesteryl ester(18:3)_[M+NH4]1+ levels               | MR Egger | 19.2451  | 18  | 0.3769 |
| <b>met-d-HDL_CE</b>       | acute RITs | Cholesteryl esters in HDL                              | MR Egger | 169.5808 | 180 | 0.7001 |
| <b>met-d-L_LDL_CE</b>     | acute RITs | Cholesteryl esters in large LDL                        | MR Egger | 86.9036  | 100 | 0.8218 |
| <b>met-d-LDL_CE</b>       | acute RITs | Cholesteryl esters in LDL                              | MR Egger | 85.5298  | 96  | 0.7693 |
| <b>met-d-M_HDL_CE</b>     | acute RITs | Cholesteryl esters in medium HDL                       | MR Egger | 167.2439 | 152 | 0.1882 |
| <b>met-d-M_VLDL_CE</b>    | acute RITs | Cholesteryl esters in medium VLDL                      | MR Egger | 100.8855 | 99  | 0.4284 |
| <b>met-d-S_HDL_CE</b>     | acute RITs | Cholesteryl esters in small HDL                        | MR Egger | 68.7391  | 102 | 0.9953 |
| <b>met-d-IDL_CE_pct</b>   | acute RITs | Cholesteryl esters to total lipids ratio in IDL        | MR Egger | 127.5938 | 128 | 0.4935 |
| <b>met-d-L_HDL_CE_pct</b> | acute RITs | Cholesteryl esters to total lipids ratio in large HDL  | MR Egger | 157.0964 | 174 | 0.8163 |
| <b>met-d-L_HDL_CE_pct</b> | acute RITs | Cholesteryl esters to total lipids ratio in large HDL  | MR Egger | 157.0964 | 174 | 0.8163 |
| <b>met-d-M_HDL_CE_pct</b> | acute RITs | Cholesteryl esters to total lipids ratio in medium HDL | MR Egger | 115.7557 | 161 | 0.9972 |
| <b>ebi-a-GCST90007307</b> | acute RITs | circulating leptin levels                              | MR Egger | 8.6353   | 13  | 0.7999 |
| <b>ebi-a-GCST90007309</b> | acute RITs | circulating leptin levels                              | MR Egger | 3.2076   | 5   | 0.6680 |

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| <b>ebi-a-GCST90007310</b>      | acute RITs | circulating leptin levels   | MR Egger | 4.8173   | 7   | 0.6822 |
| <b>ebi-a-GCST90007312</b>      | acute RITs | circulating leptin levels   | MR Egger | 4.4116   | 5   | 0.4918 |
| <b>ebi-a-GCST90007313</b>      | acute RITs | circulating leptin levels   | MR Egger | 3.5250   | 4   | 0.4741 |
| <b>ebi-a-GCST90007316</b>      | acute RITs | circulating leptin levels   | MR Egger | 3.7730   | 4   | 0.4376 |
| <b>ebi-a-GCST90007319</b>      | acute RITs | circulating leptin levels adjusted for BMI                              | MR Egger | 5.8073   | 8   | 0.6688 |
| <b>ebi-a-GCST90007320</b>      | acute RITs | circulating leptin levels adjusted for BMI                              | MR Egger | 2.1501   | 4   | 0.7082 |
| <b>ebi-a-GCST90007321</b>      | acute RITs | circulating leptin levels adjusted for BMI                              | MR Egger | 12.9351  | 7   | 0.0737 |
| <b>ebi-a-GCST90007322</b>      | acute RITs | circulating leptin levels adjusted for BMI                              | MR Egger | 5.8361   | 6   | 0.4418 |
| <b>ebi-a-GCST90007324</b>      | acute RITs | circulating leptin levels adjusted for BMI                              | MR Egger | 4.1705   | 6   | 0.6536 |
| <b>ebi-a-GCST90007327</b>      | acute RITs | circulating leptin levels adjusted for BMI                              | MR Egger | 3.6569   | 4   | 0.4544 |
| <b>met-d-Clinical_LDL_C</b>    | acute RITs | Clinical LDL cholesterol  | MR Egger | 109.4176 | 98  | 0.2024 |
| <b>met-d-HDL_P</b>             | acute RITs | Concentration of HDL particles  | MR Egger | 138.2954 | 140 | 0.5249 |
| <b>ebi-a-GCST90092887</b>      | acute RITs | Concentration of LDL particles  | MR Egger | 94.9546  | 102 | 0.6766 |
| <b>met-d-LDL_P</b>             | acute RITs | Concentration of LDL particles  | MR Egger | 103.3334 | 108 | 0.6090 |
| <b>met-d-M_HDL_P</b>           | acute RITs | Concentration of medium HDL particles                                   | MR Egger | 154.2069 | 140 | 0.1945 |
| <b>ebi-a-GCST90092963</b>      | acute RITs | Concentration of small LDL particles                                    | MR Egger | 108.3613 | 111 | 0.5532 |
| <b>met-d-S_LDL_P</b>           | acute RITs | Concentration of small LDL particles                                    | MR Egger | 108.6623 | 112 | 0.5717 |
| <b>met-d-XL_VLDL_P</b>         | acute RITs | Concentration of very large VLDL particles                              | MR Egger | 127.3143 | 144 | 0.8375 |
| <b>met-a-744</b>               | acute RITs | Cyclo(leu-pro)  | MR Egger | 12.5352  | 12  | 0.4037 |
| <b>ebi-a-GCST90060606</b>      | acute RITs | Diacylglycerol(34:2)_[M+H-H2O]1+ levels                                 | MR Egger | 15.3824  | 15  | 0.4242 |
| <b>ebi-a-GCST90060606</b>      | acute RITs | Diacylglycerol(34:2)_[M+H-H2O]1+ levels                                 | MR Egger | 15.3824  | 15  | 0.4242 |
| <b>ebi-a-GCST90060625</b>      | acute RITs | Diacylglycerol(36:2)_[M+NH4]1+ levels                                   | MR Egger | 15.0447  | 16  | 0.5214 |
| <b>ebi-a-GCST90025954</b>      | acute RITs | Direct low density lipoprotein cholesterol levels                       | MR Egger | 284.3176 | 269 | 0.2492 |
| <b>met-a-586</b>               | acute RITs | Eicosenoate (20:1n9 or 11)  | MR Egger | 15.2259  | 10  | 0.1240 |
| <b>ebi-a-GCST90019407</b>      | acute RITs | Electron transfer flavoprotein subunit alpha, mitochondrial measurement | MR Egger | 26.8327  | 22  | 0.2176 |
| <b>ebi-a-GCST90012105</b>      | acute RITs | Estradiol levels  | MR Egger | 51.3561  | 40  | 0.1076 |
| <b>ebi-a-GCST000571</b>        | acute RITs | Fasting blood insulin   | MR Egger | 1.8057   | 10  | 0.9976 |
| <b>ebi-a-GCST90060570</b>      | acute RITs | Fatty acid(15:0)_[M-H]1- levels   | MR Egger | 8.6010   | 10  | 0.5703 |
| <b>ebi-a-GCST90060571</b>      | acute RITs | Fatty acid(16:1)_[M-H]1- levels   | MR Egger | 8.1194   | 10  | 0.6172 |
| <b>met-d-HDL_FC</b>            | acute RITs | Free cholesterol in HDL   | MR Egger | 166.7121 | 167 | 0.4917 |
| <b>met-d-IDL_FC</b>            | acute RITs | Free cholesterol in IDL   | MR Egger | 102.6771 | 110 | 0.6772 |
| <b>met-c-900</b>               | acute RITs | Free cholesterol in medium HDL  | MR Egger | 16.0935  | 22  | 0.8112 |
| <b>met-d-M_HDL_FC</b>          | acute RITs | Free cholesterol in medium HDL  | MR Egger | 182.1389 | 150 | 0.0379 |
| <b>met-d-M_LDL_FC</b>          | acute RITs | Free cholesterol in medium LDL  | MR Egger | 107.0537 | 95  | 0.1873 |
| <b>met-d-M_HDL_FC_p<br/>ct</b> | acute RITs | Free cholesterol to total lipids ratio in medium HDL                    | MR Egger | 153.8961 | 173 | 0.8488 |
| <b>met-d-S_HDL_FC_pc</b>       | acute RITs | Free cholesterol to total lipids ratio in small HDL                     | MR Egger | 137.6310 | 123 | 0.1735 |

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| <b>ebi-a-GCST90025966</b> | acute RITs | Gamma glutamyl transferase levels                                       | MR Egger | 517.6442 | 484 | 0.1404 |
| <b>met-a-564</b>          | acute RITs | Gamma-glutamylthreonine*  | MR Egger | 3.9774   | 7   | 0.7824 |
| <b>ebi-a-GCST90018735</b> | acute RITs | Glucose levels  | MR Egger | 39.1558  | 45  | 0.7169 |
| <b>ebi-a-GCST005058</b>   | acute RITs | HDL cholesterol   | MR Egger | 14.5753  | 19  | 0.7492 |
| <b>ebi-a-GCST90018736</b> | acute RITs | HDL cholesterol   | MR Egger | 102.0345 | 102 | 0.4804 |
| <b>ebi-a-GCST90018956</b> | acute RITs | HDL cholesterol   | MR Egger | 480.7110 | 464 | 0.2864 |
| <b>ieu-b-109</b>          | acute RITs | HDL cholesterol   | MR Egger | 511.0267 | 524 | 0.6493 |
| <b>ieu-b-4843</b>         | acute RITs | HDL cholesterol   | MR Egger | 60.4851  | 65  | 0.6356 |
| <b>ieu-b-4844</b>         | acute RITs | HDL cholesterol   | MR Egger | 136.1812 | 151 | 0.8006 |
| <b>met-d-HDL_C</b>        | acute RITs | HDL cholesterol   | MR Egger | 170.1835 | 176 | 0.6094 |
| <b>ukb-e-30760_AFR</b>    | acute RITs | HDL cholesterol   | MR Egger | 27.0213  | 25  | 0.3548 |
| <b>ebi-a-GCST90025956</b> | acute RITs | HDL cholesterol levels  | MR Egger | 468.0316 | 450 | 0.2692 |
| <b>ebi-a-GCST90002309</b> | acute RITs | Hemoglobin concentration  | MR Egger | 35.9554  | 38  | 0.5643 |
| <b>ebi-a-GCST008035</b>   | acute RITs | High density lipoprotein cholesterol levels                             | MR Egger | 80.2131  | 71  | 0.2126 |
| <b>ebi-a-GCST90014007</b> | acute RITs | High density lipoprotein cholesterol levels (UKB data field 30760)      | MR Egger | 451.5486 | 456 | 0.5501 |
| <b>bbj-a-24</b>           | acute RITs | High-density-lipoprotein cholesterol                                    | MR Egger | 73.3051  | 83  | 0.7678 |
| <b>ebi-a-GCST90014008</b> | acute RITs | IGF 1 (UKB data field 30770)  | MR Egger | 525.1976 | 530 | 0.5507 |
| <b>ukb-e-30770_CSA</b>    | acute RITs | IGF-1   | MR Egger | 36.4113  | 28  | 0.1324 |
| <b>ukb-e-recode1_CSA</b>  | acute RITs | Indirect bilirubin  | MR Egger | 8.3839   | 17  | 0.9576 |
| <b>met-a-323</b>          | acute RITs | Isoleucine  | MR Egger | 10.2913  | 16  | 0.8510 |
| <b>met-a-652</b>          | acute RITs | Isovalerylcarnitine   | MR Egger | 11.0474  | 17  | 0.8541 |
| <b>ieu-b-110</b>          | acute RITs | LDL cholesterol   | MR Egger | 268.4832 | 279 | 0.6637 |
| <b>ieu-b-5089</b>         | acute RITs | LDL cholesterol   | MR Egger | 166.5359 | 150 | 0.1686 |
| <b>met-d-LDL_C</b>        | acute RITs | LDL cholesterol   | MR Egger | 92.2208  | 93  | 0.5033 |
| <b>ebi-a-GCST90025993</b> | acute RITs | Lipoprotein (a) levels  | MR Egger | 76.7932  | 68  | 0.2176 |
| <b>ebi-a-GCST90002412</b> | acute RITs | Low density lipoprotein cholesterol levels                              | MR Egger | 502.5563 | 479 | 0.2205 |
| <b>ebi-a-GCST90019485</b> | acute RITs | MAP/microtubule affinity-regulating kinase 3 measurement                | MR Egger | 16.1328  | 23  | 0.8495 |
| <b>ebi-a-GCST90019404</b> | acute RITs | Medium-chain specific acyl-CoA dehydrogenase, mitochondrial measurement | MR Egger | 19.8617  | 19  | 0.4029 |
| <b>ebi-a-GCST90012047</b> | acute RITs | Myoglobin levels  | MR Egger | 32.6653  | 36  | 0.6280 |
| <b>met-a-477</b>          | acute RITs | Myristoleate (14:1n5)   | MR Egger | 7.6087   | 11  | 0.7479 |
| <b>met-a-576</b>          | acute RITs | Palmitoleate (16:1n7)   | MR Egger | 5.3903   | 6   | 0.4948 |
| <b>met-c-919</b>          | acute RITs | Phenylalanine   | MR Egger | 14.4116  | 20  | 0.8090 |
| <b>met-a-430</b>          | acute RITs | Phenyllactate (PLA)   | MR Egger | 10.9062  | 16  | 0.8152 |
| <b>ebi-a-GCST90014010</b> | acute RITs | Phosphate levels (UKB data field 30810)                                 | MR Egger | 299.2806 | 284 | 0.2553 |
| <b>ebi-a-GCST90060687</b> | acute RITs | Phosphatidate(34:0)_[M+OAc]1- levels                                    | MR Egger | 6.3441   | 8   | 0.6087 |

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| <b>ebi-a-GCST90060914</b>  | acute RITs | Phosphatidylcholine(38:7)_[M+OAc]1-/Phosphatidylserine(42:6)_[M-H]1- levels         | MR Egger | 11.8492  | 14  | 0.6184 |
| <b>ebi-a-GCST90060671</b>  | acute RITs | Phosphatidylcholine-O(32:0)_[M+H]1+/Phosphatidylethanolamine-O(35:0)_[M+H]1+ levels | MR Egger | 17.3928  | 16  | 0.3606 |
| <b>ebi-a-GCST90060801</b>  | acute RITs | Phosphatidylcholine-O(38:4)_[M+H]1+/Phosphatidylcholine-P(38:3)_[M+H]1+ levels      | MR Egger | 12.3867  | 15  | 0.6496 |
| <b>ebi-a-GCST90060961</b>  | acute RITs | Phosphatidylserine(40:5)_[M+OAc]1- levels   | MR Egger | 19.0209  | 24  | 0.7509 |
| <b>met-d-XL_VLDL_PL</b>    | acute RITs | Phospholipids in very large VLDL  | MR Egger | 124.7331 | 138 | 0.7838 |
| <b>met-d-L_VLDL_PL_pct</b> | acute RITs | Phospholipids to total lipids ratio in large VLDL                                   | MR Egger | 110.0952 | 143 | 0.9812 |
| <b>met-d-M_HDL_PL_pct</b>  | acute RITs | Phospholipids to total lipids ratio in medium HDL                                   | MR Egger | 171.3816 | 180 | 0.6651 |
| <b>ebi-a-GCST90092977</b>  | acute RITs | Phospholipids to total lipids ratio in small VLDL                                   | MR Egger | 151.1657 | 135 | 0.1618 |
| <b>ieu-a-1012</b>          | acute RITs | Plasma cortisol   | MR Egger | 4.3618   | 6   | 0.6278 |
| <b>met-a-678</b>           | acute RITs | Pro-hydroxy-pro   | MR Egger | 16.2216  | 16  | 0.4376 |
| <b>met-a-574</b>           | acute RITs | Pseudouridine   | MR Egger | 20.4857  | 24  | 0.6688 |
| <b>met-a-501</b>           | acute RITs | Pyroglutamine*  | MR Egger | 19.9377  | 16  | 0.2230 |
| <b>met-d-SFA_pct</b>       | acute RITs | Ratio of saturated fatty acids to total fatty acids                                 | MR Egger | 65.8806  | 75  | 0.7649 |
| <b>met-d-TG_by_PG</b>      | acute RITs | Ratio of triglycerides to phosphoglycerides   | MR Egger | 152.7670 | 171 | 0.8382 |
| <b>met-d-Remnant_C</b>     | acute RITs | Remnant cholesterol (non-HDL, non-LDL -cholesterol)                                 | MR Egger | 115.0468 | 112 | 0.4028 |
| <b>ebi-a-GCST005059</b>    | acute RITs | Serum albumin level   | MR Egger | 13.6606  | 16  | 0.6240 |
| <b>ebi-a-GCST90018722</b>  | acute RITs | Serum alkaline phosphatase levels   | MR Egger | 83.5949  | 102 | 0.9079 |
| <b>ebi-a-GCST90025991</b>  | acute RITs | Serum urea levels   | MR Egger | 351.9225 | 319 | 0.0990 |
| <b>ebi-a-GCST90019384</b>  | acute RITs | SPARC-related modular calcium-binding protein 1 measurement                         | MR Egger | 36.6747  | 28  | 0.1262 |
| <b>ebi-a-GCST90060683</b>  | acute RITs | Sphingomyelin(32:1)_[M+OAc]1- levels  | MR Egger | 18.7727  | 18  | 0.4059 |
| <b>ebi-a-GCST90060633</b>  | acute RITs | Sphingomyelin(32:1)_[M-CH3]1- levels  | MR Egger | 15.3809  | 14  | 0.3526 |
| <b>ebi-a-GCST90060643</b>  | acute RITs | Sphingomyelin(34:2)_[M-CH3]1- levels  | MR Egger | 15.9377  | 9   | 0.0682 |
| <b>ebi-a-GCST90060776</b>  | acute RITs | Sphingomyelin(40:1)_[M+H]1+ levels  | MR Egger | 10.3673  | 15  | 0.7960 |
| <b>ebi-a-GCST90060742</b>  | acute RITs | Sphingomyelin(40:2)_[M-CH3]1- levels  | MR Egger | 13.9199  | 16  | 0.6047 |
| <b>ebi-a-GCST90060814</b>  | acute RITs | Sphingomyelin(41:0)_[M+H]1- levels  | MR Egger | 1.9764   | 8   | 0.9817 |
| <b>ebi-a-GCST90060835</b>  | acute RITs | Sphingomyelin(42:2)_[M+H]1+ levels  | MR Egger | 20.4627  | 13  | 0.0843 |
| <b>ebi-a-GCST90060812</b>  | acute RITs | Sphingomyelin(42:8)_[M+H]1+ levels  | MR Egger | 2.9891   | 8   | 0.9350 |
| <b>met-d-Total_C</b>       | acute RITs | Total cholesterol   | MR Egger | 97.2174  | 111 | 0.8215 |
| <b>met-c-898</b>           | acute RITs | Total cholesterol in medium HDL   | MR Egger | 18.5922  | 25  | 0.8162 |
| <b>ebi-a-GCST90018974</b>  | acute RITs | Total cholesterol levels  | MR Egger | 271.8808 | 292 | 0.7952 |
| <b>ebi-a-GCST90025953</b>  | acute RITs | Total cholesterol levels  | MR Egger | 265.2532 | 279 | 0.7134 |
| <b>met-d-non_HDL_C</b>     | acute RITs | Total cholesterol minus HDL-C   | MR Egger | 102.6963 | 99  | 0.3795 |
| <b>met-d-Total_P</b>       | acute RITs | Total concentration of lipoprotein particles  | MR Egger | 131.2802 | 124 | 0.3101 |
| <b>met-d-Total_CE</b>      | acute RITs | Total esterified cholesterol  | MR Egger | 107.7988 | 111 | 0.5683 |
| <b>met-d-Total_FC</b>      | acute RITs | Total free cholesterol  | MR Egger | 101.6232 | 111 | 0.7267 |
| <b>met-c-957</b>           | acute RITs | Total lipids in chylomicrons and largest VLDL particles                             | MR Egger | 16.4206  | 23  | 0.8367 |

|                           |            |   |          |          |     |        |
|---------------------------|------------|---|----------|----------|-----|--------|
| <b>met-d-HDL_L</b>        | acute RITs | Total lipids in HDL   | MR Egger | 186.7429 | 162 | 0.0890 |
| <b>met-d-L_LDL_L</b>      | acute RITs | Total lipids in large LDL                                       | MR Egger | 95.3385  | 102 | 0.6664 |
| <b>met-d-M_HDL_L</b>      | acute RITs | Total lipids in medium HDL                                      | MR Egger | 154.8659 | 137 | 0.1411 |
| <b>met-d-S_LDL_L</b>      | acute RITs | Total lipids in small LDL                                       | MR Egger | 97.4380  | 114 | 0.8666 |
| <b>met-d-XL_VLDL_L</b>    | acute RITs | Total lipids in very large VLDL                                 | MR Egger | 129.5784 | 143 | 0.7824 |
| <b>ukb-e-30860_CSA</b>    | acute RITs | Total protein   | MR Egger | 17.0492  | 21  | 0.7081 |
| <b>ebi-a-GCST90060736</b> | acute RITs | Triacylglycerol(44:1)_[M+NH4]1+ levels                          | MR Egger | 18.3260  | 17  | 0.3686 |
| <b>ebi-a-GCST90060999</b> | acute RITs | Triacylglycerol(56:3)_[M+NH4]1+ levels                          | MR Egger | 6.6659   | 9   | 0.6719 |
| <b>ukb-e-30870_CSA</b>    | acute RITs | Triglycerides   | MR Egger | 20.3550  | 26  | 0.7744 |
| <b>met-d-L_HDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in large HDL                | MR Egger | 124.0275 | 155 | 0.9681 |
| <b>met-d-L_HDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in large HDL                | MR Egger | 124.0275 | 155 | 0.9681 |
| <b>met-d-M_HDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in medium HDL               | MR Egger | 124.0843 | 154 | 0.9633 |
| <b>met-d-M_HDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in medium HDL               | MR Egger | 124.0843 | 154 | 0.9633 |
| <b>met-d-M_LDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in medium LDL               | MR Egger | 102.8794 | 118 | 0.8379 |
| <b>met-d-M_LDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in medium LDL               | MR Egger | 102.8794 | 118 | 0.8379 |
| <b>met-d-S_HDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in small HDL                | MR Egger | 136.0784 | 170 | 0.9739 |
| <b>met-d-S_HDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in small HDL                | MR Egger | 136.0784 | 170 | 0.9739 |
| <b>ieu-a-786</b>          | acute RITs | Urate   | MR Egger | 3.2230   | 3   | 0.3585 |
| <b>met-c-940</b>          | acute RITs | Valine  | MR Egger | 19.6295  | 24  | 0.7176 |
| <b>ebi-a-GCST90019468</b> | acute RITs | von Willebrand factor A domain-containing protein 2 measurement | MR Egger | 20.3197  | 16  | 0.2062 |
| <b>met-a-499</b>          | acute RITs | X-11334   | MR Egger | 23.9050  | 23  | 0.4091 |
| <b>met-a-520</b>          | acute RITs | X-11470   | MR Egger | 11.9403  | 8   | 0.1539 |
| <b>met-a-548</b>          | acute RITs | X-11820   | MR Egger | 5.2969   | 10  | 0.8705 |
| <b>met-a-610</b>          | acute RITs | X-12442--5,8-tetradecadienoate                                  | MR Egger | 2.9554   | 10  | 0.9825 |
| <b>met-a-701</b>          | acute RITs | X-13671   | MR Egger | 10.2667  | 11  | 0.5066 |
| <b>met-a-715</b>          | acute RITs | X-14056   | MR Egger | 8.6462   | 7   | 0.2791 |
| <b>ukb-b-17102</b>        | acute RITs | External causes: Y83.6 Removal of other organ (partial) (total) | MR Egger | 6.9199   | 7   | 0.4373 |
| <b>ukb-b-11247</b>        | acute RITs | Main speciality of consultant (recoded): Cardiothoracic surgery | MR Egger | 27.2345  | 20  | 0.1288 |
| <b>ukb-b-17277</b>        | acute RITs | Operation code: anal surgery                                    | MR Egger | 11.5541  | 8   | 0.1722 |
| <b>ukb-b-6863</b>         | acute RITs | Operation code: caesarean section / caesarian section           | MR Egger | 35.4099  | 42  | 0.7539 |
| <b>ukb-b-6235</b>         | acute RITs | Operation code: cholecystectomy/gall bladder removal            | MR Egger | 117.8441 | 97  | 0.0738 |
| <b>ukb-b-6235</b>         | acute RITs | Operation code: cholecystectomy/gall bladder removal            | MR Egger | 117.8441 | 97  | 0.0738 |
| <b>ukb-b-9263</b>         | acute RITs | Operation code: inguinal/femoral hernia repair                  | MR Egger | 62.1102  | 73  | 0.8145 |
| <b>ukb-b-847</b>          | acute RITs | Operation code: reduction or fixation of bone fracture          | MR Egger | 33.5870  | 29  | 0.2547 |

|                              |            |   |          |          |     |        |
|------------------------------|------------|---|----------|----------|-----|--------|
| <b>ukb-b-13003</b>           | acute RITs | Operation code: sinus surgery   | MR Egger | 4.4162   | 4   | 0.3526 |
| <b>ukb-b-15592</b>           | acute RITs | Operation code: varicose vein surgery   | MR Egger | 184.1349 | 204 | 0.8375 |
| <b>ukb-b-7609</b>            | acute RITs | Operative procedures - main OPCS: B28.2 Partial excision of breast NEC  | MR Egger | 19.2564  | 22  | 0.6294 |
| <b>ukb-b-4944</b>            | acute RITs | Operative procedures - main OPCS: W85.2 Endoscopic irrigation of knee joint   | MR Egger | 1.7341   | 2   | 0.4202 |
| <b>ukb-e-41200_p138_A FR</b> | acute RITs | Operative procedures - main OPCS4   | MR Egger | 14.8869  | 23  | 0.8986 |
| <b>ukb-e-41200_p26_CS A</b>  | acute RITs | Operative procedures - main OPCS4   | MR Egger | 14.1987  | 17  | 0.6530 |
| <b>ukb-e-41200_p356_A FR</b> | acute RITs | Operative procedures - main OPCS4   | MR Egger | 6.9520   | 10  | 0.7300 |
| <b>ukb-e-41200_p834_A FR</b> | acute RITs | Operative procedures - main OPCS4   | MR Egger | 12.0076  | 13  | 0.5270 |
| <b>ukb-e-41200_p991_C SA</b> | acute RITs | Operative procedures - main OPCS4   | MR Egger | 3.5719   | 7   | 0.8276 |
| <b>ukb-b-4820</b>            | acute RITs | Operative procedures - secondary OPCS: E13.6 Puncture of maxillary antrum   | MR Egger | 0.3721   | 3   | 0.9459 |
| <b>ukb-b-4373</b>            | acute RITs | Operative procedures - secondary OPCS: T85.2 Block dissection of axillary lymph nodes   | MR Egger | 13.1827  | 15  | 0.5882 |
| <b>ukb-b-7815</b>            | acute RITs | Operative procedures - secondary OPCS: U05.1 Computed tomography of head  | MR Egger | 2.0822   | 4   | 0.7206 |
| <b>ukb-b-13551</b>           | acute RITs | Operative procedures - secondary OPCS: X72.1 Delivery of complex chemotherapy for neoplasm including prolonged infusional treatment at first attendance                                       | MR Egger | 3.1400   | 4   | 0.5347 |
| <b>ukb-b-13683</b>           | acute RITs | Operative procedures - secondary OPCS: Y58.8 Other specified harvest of skin for graft  | MR Egger | 1.7117   | 1   | 0.1908 |
| <b>ukb-b-9816</b>            | acute RITs | Operative procedures - secondary OPCS: Y80.4 Intravenous anaesthetic NEC  | MR Egger | 5.5015   | 7   | 0.5990 |
| <b>ukb-b-13121</b>           | acute RITs | Operative procedures - secondary OPCS: Z27.1 Oesophagus   | MR Egger | 4.6374   | 8   | 0.7955 |
| <b>ukb-b-5222</b>            | acute RITs | Operative procedures - secondary OPCS: Z94.1 Bilateral operation  | MR Egger | 20.0048  | 16  | 0.2200 |
| <b>ukb-e-Y83_CSA</b>         | acute RITs | Y83 Surgical operation and other surgical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure | MR Egger | 16.4235  | 14  | 0.2882 |
| <b>ukb-b-13350</b>           | acute RITs | PCT responsible for patient data: NOTTINGHAM CITY PCT   | MR Egger | 8.4598   | 14  | 0.8640 |
| <b>ukb-b-6873</b>            | acute RITs | PCT responsible for patient data: WESTERN CHESHIRE PCT  | MR Egger | 2.4522   | 4   | 0.6532 |
| <b>ukb-b-1539</b>            | acute RITs | PCT where patients GP was registered: BROXTOWE AND HUCKNALL PCT   | MR Egger | 8.7518   | 17  | 0.9477 |
| <b>ukb-b-6547</b>            | acute RITs | PCT where patients GP was registered: BURY PCT  | MR Egger | 36.2496  | 33  | 0.3195 |
| <b>ukb-b-8205</b>            | acute RITs | PCT where patients GP was registered: CAMDEN PCT  | MR Egger | 5.8216   | 11  | 0.8850 |
| <b>ukb-b-2838</b>            | acute RITs | PCT where patients GP was registered: DURHAM AND CHESTER-LE-STREET PCT  | MR Egger | 17.3936  | 17  | 0.4280 |
| <b>ukb-b-19050</b>           | acute RITs | PCT where patients GP was registered: EAST LANCASHIRE TEACHING PCT  | MR Egger | 5.5049   | 3   | 0.1383 |
| <b>ukb-b-14654</b>           | acute RITs | PCT where patients GP was registered: ROCHDALE PCT  | MR Egger | 4.9036   | 8   | 0.7678 |
| <b>ukb-b-8842</b>            | acute RITs | PCT where patients GP was registered: SOLIHULL PCT  | MR Egger | 0.3805   | 4   | 0.9840 |
| <b>ukb-b-7288</b>            | acute RITs | 3mm asymmetry angle (left)  | MR Egger | 37.0080  | 43  | 0.7277 |
| <b>ukb-e-5108_CSA</b>        | acute RITs | 3mm asymmetry angle (right)   | MR Egger | 10.0370  | 12  | 0.6127 |
| <b>ukb-e-5156_AFR</b>        | acute RITs | 3mm asymmetry index (left)  | MR Egger | 20.3164  | 23  | 0.6228 |
| <b>ukb-e-5107_AFR</b>        | acute RITs | 3mm strong meridian angle (right)   | MR Egger | 13.1425  | 11  | 0.2841 |
| <b>ukb-b-4874</b>            | acute RITs | 6mm asymmetry angle (right)   | MR Egger | 32.2535  | 29  | 0.3089 |
| <b>ukb-e-5306_CSA</b>        | acute RITs | 6mm index of best keratometry results (left)  | MR Egger | 20.4248  | 20  | 0.4317 |
| <b>ieu-a-1095</b>            | acute RITs | Age at menarche   | MR Egger | 146.0139 | 152 | 0.6216 |

|                           |            |  |          |         |    |        |
|---------------------------|------------|--|----------|---------|----|--------|
| <b>ukb-d-4700_irnt</b>    | acute RITs | Age cataract diagnosed   | MR Egger | 11.3915 | 16 | 0.7847 |
| <b>ukb-b-1061</b>         | acute RITs | Age high blood pressure diagnosed  | MR Egger | 68.7719 | 60 | 0.2047 |
| <b>ukb-e-2217_AFR</b>     | acute RITs | Age started wearing glasses or contact lenses                                    | MR Egger | 25.4190 | 20 | 0.1859 |
| <b>ukb-b-5090</b>         | acute RITs | Astigmatism angle (left)   | MR Egger | 18.0268 | 24 | 0.8017 |
| <b>ukb-e-B96_CSA</b>      | acute RITs | B96 Other bacterial agents as the cause of diseases classified to other chapters | MR Egger | 22.3433 | 14 | 0.0718 |
| <b>ukb-e-1677_CSA</b>     | acute RITs | Breastfed as a baby  | MR Egger | 2.9398  | 6  | 0.8164 |
| <b>ukb-e-1468_p1_CSA</b>  | acute RITs | Cereal type  | MR Egger | 17.1180 | 21 | 0.7039 |
| <b>ukb-e-24014_AFR</b>    | acute RITs | Close to major road  | MR Egger | 13.1240 | 14 | 0.5168 |
| <b>ukb-e-5086_AFR</b>     | acute RITs | Cylindrical power (left)   | MR Egger | 20.5199 | 13 | 0.0830 |
| <b>ukb-b-7196</b>         | acute RITs | Delivery methods: Elective caesarean section                                     | MR Egger | 1.0145  | 2  | 0.6021 |
| <b>ukb-e-894_AFR</b>      | acute RITs | Duration of moderate activity  | MR Egger | 18.2296 | 16 | 0.3106 |
| <b>ukb-e-874_p1_AFR</b>   | acute RITs | Duration of walks  | MR Egger | 24.2710 | 22 | 0.3332 |
| <b>ukb-e-404_CSA</b>      | acute RITs | Duration to first press of snap-button in each round                             | MR Egger | 13.1669 | 18 | 0.7816 |
| <b>ukb-d-20411_0</b>      | acute RITs | Ever been injured or injured someone else through drinking alcohol: No           | MR Egger | 15.2842 | 16 | 0.5039 |
| <b>ukb-e-2296_CSA</b>     | acute RITs | Falls in the last year   | MR Egger | 13.5090 | 17 | 0.7015 |
| <b>ukb-e-4935_CSA</b>     | acute RITs | FII : numeric addition test  | MR Egger | 13.0964 | 14 | 0.5189 |
| <b>ukb-d-4979</b>         | acute RITs | FI5 : family relationship calculation  | MR Egger | 21.9432 | 25 | 0.6390 |
| <b>ukb-b-17738</b>        | acute RITs | Fractured bone site(s): Other bones  | MR Egger | 22.7185 | 28 | 0.7470 |
| <b>ukb-a-439</b>          | acute RITs | Fractured bone site(s): Wrist  | MR Egger | 21.5621 | 21 | 0.4251 |
| <b>ukb-b-9571</b>         | acute RITs | Fractured bone site(s): Wrist  | MR Egger | 24.1459 | 24 | 0.4533 |
| <b>ebi-a-GCST90013913</b> | acute RITs | Fractured bones in last 5 years (UKB data field 2463) (Firth correction)         | MR Egger | 65.1044 | 65 | 0.4730 |
| <b>ukb-a-2</b>            | acute RITs | Frequency of light DIY in last 4 weeks   | MR Egger | 28.1083 | 23 | 0.2117 |
| <b>ukb-e-4570_AFR</b>     | acute RITs | Friendships satisfaction   | MR Egger | 9.4209  | 20 | 0.9775 |
| <b>ebi-a-GCST90019399</b> | acute RITs | Gelsolin measurement   | MR Egger | 20.1901 | 18 | 0.3222 |
| <b>ukb-a-340</b>          | acute RITs | Hearing aid user   | MR Egger | 17.2335 | 25 | 0.8731 |
| <b>ukb-b-19060</b>        | acute RITs | Hearing aid user   | MR Egger | 30.5920 | 38 | 0.7980 |
| <b>ukb-e-4849_p2_AFR</b>  | acute RITs | Hearing test done  | MR Egger | 25.0532 | 23 | 0.3475 |
| <b>ukb-e-6141_p2_AFR</b>  | acute RITs | How are people in household related to participant                               | MR Egger | 16.9368 | 18 | 0.5275 |
| <b>ukb-e-6145_p2_AFR</b>  | acute RITs | Illness, injury, bereavement, stress in last 2 years                             | MR Egger | 28.2651 | 29 | 0.5038 |
| <b>ukb-e-6145_p4_CSA</b>  | acute RITs | Illness, injury, bereavement, stress in last 2 years                             | MR Egger | 6.4347  | 11 | 0.8428 |
| <b>ukb-b-14449</b>        | acute RITs | Index of best refractometry result (left)  | MR Egger | 13.9184 | 14 | 0.4558 |
| <b>ukb-e-41244_p2_CSA</b> | acute RITs | Intended management of patient (recoded)   | MR Egger | 20.0412 | 18 | 0.3305 |
| <b>ukb-b-16311</b>        | acute RITs | Interval between previous point and current one in alphanumeric path (trail #2)  | MR Egger | 58.3546 | 71 | 0.8588 |
| <b>ebi-a-GCST90013453</b> | acute RITs | Lack of behavioral control   | MR Egger | 3.7368  | 5  | 0.5879 |
| <b>ukb-e-4728_CSA</b>     | acute RITs | Leg pain on walking  | MR Egger | 23.6794 | 21 | 0.3089 |
| <b>ukb-e-6160_p5_AFR</b>  | acute RITs | Leisure/social activities  | MR Egger | 10.2235 | 14 | 0.7457 |

|                             |            |  |          |          |     |        |
|-----------------------------|------------|--|----------|----------|-----|--------|
| <b>ukb-e-41245_p20_CS A</b> | acute RITs | Main speciality of consultant (recoded)  | MR Egger | 9.8404   | 9   | 0.3636 |
| <b>ukb-e-41245_p6_AFR</b>   | acute RITs | Main speciality of consultant (recoded)  | MR Egger | 6.0494   | 16  | 0.9876 |
| <b>ukb-a-392</b>            | acute RITs | Maximum workload during fitness test   | MR Egger | 10.1610  | 15  | 0.8095 |
| <b>ebi-a-GCST90002397</b>   | acute RITs | Mean spheric corpuscular volume  | MR Egger | 568.9903 | 635 | 0.9714 |
| <b>ukb-e-41249_p4_AFR</b>   | acute RITs | Methods of admission to hospital (recoded)   | MR Egger | 16.3387  | 20  | 0.6954 |
| <b>ukb-b-5477</b>           | acute RITs | Methods of admission to hospital (recoded): Elective admission   | MR Egger | 218.1418 | 235 | 0.7782 |
| <b>ukb-b-10655</b>          | acute RITs | Methods of admission to hospital (recoded): Emergency admission  | MR Egger | 68.1550  | 59  | 0.1940 |
| <b>ukb-b-4540</b>           | acute RITs | Methods of admission to hospital (recoded): Emergency admission: Non-injury  | MR Egger | 143.6598 | 132 | 0.2302 |
| <b>ukb-b-19790</b>          | acute RITs | Methods of admission to hospital (recoded): Maternity admission: Post-partum   | MR Egger | 11.7766  | 16  | 0.7592 |
| <b>ukb-e-41250_p1_AFR</b>   | acute RITs | Methods of discharge from hospital (recoded)   | MR Egger | 14.9280  | 20  | 0.7805 |
| <b>ukb-e-52_p9_CSA</b>      | acute RITs | Month of birth   | MR Egger | 4.9429   | 3   | 0.1760 |
| <b>ukb-a-12</b>             | acute RITs | Nap during day   | MR Egger | 195.0925 | 190 | 0.3847 |
| <b>ukb-d-2654_8</b>         | acute RITs | Non-butter spread type details: Other low or reduced fat spread  | MR Egger | 10.3347  | 16  | 0.8486 |
| <b>ukb-d-2654_9</b>         | acute RITs | Non-butter spread type details: Other type of spread/margarine   | MR Egger | 2.9608   | 7   | 0.8886 |
| <b>ukb-d-2654_4</b>         | acute RITs | Non-butter spread type details: Soft (tub) margarine   | MR Egger | 32.6722  | 32  | 0.4338 |
| <b>ukb-e-4291_CSA</b>       | acute RITs | Number of attempts   | MR Egger | 11.4618  | 8   | 0.1769 |
| <b>ieu-b-4827</b>           | acute RITs | Number of children ever born measurement   | MR Egger | 7.3527   | 13  | 0.8831 |
| <b>ukb-b-2988</b>           | acute RITs | Number of fluid intelligence questions attempted within time limit   | MR Egger | 106.7568 | 104 | 0.4069 |
| <b>ukb-e-399_CSA</b>        | acute RITs | Number of incorrect matches in round   | MR Egger | 7.7805   | 9   | 0.5564 |
| <b>ukb-b-1209</b>           | acute RITs | Number of live births  | MR Egger | 85.6500  | 76  | 0.2103 |
| <b>ukb-b-6891</b>           | acute RITs | Number of triplets attempted (left)  | MR Egger | 11.6528  | 13  | 0.5563 |
| <b>ukb-b-4909</b>           | acute RITs | Number of triplets attempted (right)   | MR Egger | 20.9917  | 23  | 0.5816 |
| <b>ukb-e-4276_AFR</b>       | acute RITs | Number of triplets attempted (right)   | MR Egger | 1.3440   | 3   | 0.7187 |
| <b>ebi-a-GCST90012790</b>   | acute RITs | Percentage of invited food questionnaires completed  | MR Egger | 126.9848 | 116 | 0.2287 |
| <b>ieu-b-4860</b>           | acute RITs | Physical activity  | MR Egger | 26.5411  | 18  | 0.0880 |
| <b>ebi-a-GCST90061410</b>   | acute RITs | Physical activity (Total log acceleration 2am-4am)   | MR Egger | 33.2074  | 25  | 0.1260 |
| <b>ukb-e-20018_AFR</b>      | acute RITs | Prospective memory result  | MR Egger | 5.5098   | 9   | 0.7878 |
| <b>ukb-a-421</b>            | acute RITs | Reason for glasses/contact lenses: For just reading/near work as you are getting older (called 'presbyopia')   | MR Egger | 32.2285  | 41  | 0.8347 |
| <b>ukb-a-420</b>            | acute RITs | Reason for glasses/contact lenses: For long-sightedness i.e. for distance and near but particularly for near tasks like reading (called 'hypermetropia') | MR Egger | 24.9044  | 37  | 0.9354 |
| <b>ukb-d-2664_5</b>         | acute RITs | Reason for reducing amount of alcohol drunk: Other reason  | MR Egger | 28.2510  | 26  | 0.3462 |
| <b>ukb-e-20019_AFR</b>      | acute RITs | Speech-reception-threshold (SRT) estimate (left)   | MR Egger | 14.3326  | 14  | 0.4252 |
| <b>ukb-a-343</b>            | acute RITs | Time from waking to first cigarette  | MR Egger | 32.8217  | 26  | 0.1673 |
| <b>ukb-b-2732</b>           | acute RITs | Time from waking to first cigarette  | MR Egger | 28.0102  | 22  | 0.1753 |
| <b>ukb-a-7</b>              | acute RITs | Time spent driving   | MR Egger | 33.0348  | 45  | 0.9070 |
| <b>ukb-d-20531</b>          | acute RITs | Victim of sexual assault   | MR Egger | 36.5476  | 23  | 0.0362 |

|                           |            |   |                   |          |          |     |        |
|---------------------------|------------|---|-------------------|----------|----------|-----|--------|
| <b>ukb-b-3709</b>         | acute RITs | Wants to stop smoking   |                   | MR Egger | 17.6508  | 17  | 0.4112 |
| <b>ukb-e-3659_CSA</b>     | acute RITs | Year immigrated to UK (United Kingdom)  |                   | MR Egger | 26.6268  | 19  | 0.1137 |
| <b>ukb-e-Z53_AFR</b>      | acute RITs | Z53 Persons encountering health services for specific procedures, not carried out |                   | MR Egger | 8.3967   | 13  | 0.8168 |
| <b>ukb-e-23119_CSA</b>    | acute RITs | Arm fat percentage (right)  |                   | MR Egger | 15.0116  | 19  | 0.7219 |
| <b>ukb-e-23121_AFR</b>    | acute RITs | Arm fat-free mass (right)   |                   | MR Egger | 42.2560  | 30  | 0.0680 |
| <b>ukb-b-8909</b>         | acute RITs | Body fat percentage   |                   | MR Egger | 657.7912 | 642 | 0.3243 |
| <b>ukb-e-23099_AFR</b>    | acute RITs | Body fat percentage   |                   | MR Egger | 22.9978  | 20  | 0.2889 |
| <b>ukb-e-23104_AFR</b>    | acute RITs | Body mass index (BMI)   |                   | MR Egger | 25.6392  | 23  | 0.3182 |
| <b>ebi-a-GCST90092504</b> | acute RITs | Carotid Intima-media thickness (mean of the maximum cIMT)                         |                   | MR Egger | 21.1615  | 20  | 0.3877 |
| <b>ebi-a-GCST008029</b>   | acute RITs | Diastolic blood pressure  |                   | MR Egger | 57.3612  | 51  | 0.2512 |
| <b>ieu-b-106</b>          | acute RITs | FEV1/FVC < 0.7  |                   | MR Egger | 239.1013 | 243 | 0.5586 |
| <b>ieu-b-4853</b>         | acute RITs | Forced expiratory volume in 1-second  |                   | MR Egger | 2.4983   | 6   | 0.8687 |
| <b>ukb-e-46_AFR</b>       | acute RITs | Hand grip strength (left)   |                   | MR Egger | 16.7689  | 15  | 0.3329 |
| <b>ukb-b-8875</b>         | acute RITs | Heel bone mineral density (BMD)   |                   | MR Egger | 558.4835 | 543 | 0.3136 |
| <b>ukb-a-500</b>          | acute RITs | Heel bone mineral density (BMD) T-score   | automated         | MR Egger | 438.4338 | 398 | 0.0792 |
| <b>ukb-a-500</b>          | acute RITs | Heel bone mineral density (BMD) T-score   | automated         | MR Egger | 438.4338 | 398 | 0.0792 |
| <b>ukb-a-361</b>          | acute RITs | Heel bone mineral density (BMD) T-score   | automated (left)  | MR Egger | 261.8694 | 255 | 0.3703 |
| <b>ukb-a-361</b>          | acute RITs | Heel bone mineral density (BMD) T-score   | automated (left)  | MR Egger | 261.8694 | 255 | 0.3703 |
| <b>ukb-a-362</b>          | acute RITs | Heel bone mineral density (BMD) T-score   | automated (right) | MR Egger | 254.3059 | 265 | 0.6707 |
| <b>ukb-a-362</b>          | acute RITs | Heel bone mineral density (BMD) T-score   | automated (right) | MR Egger | 254.3059 | 265 | 0.6707 |
| <b>ukb-b-20124</b>        | acute RITs | Heel bone mineral density (BMD) T-score,  | automated         | MR Egger | 573.2515 | 539 | 0.1487 |
| <b>ukb-b-11364</b>        | acute RITs | Heel bone mineral density (BMD),  | manual entry      | MR Egger | 117.6572 | 116 | 0.4396 |
| <b>ukb-b-17612</b>        | acute RITs | Heel bone ultrasound T-score,   | manual entry      | MR Egger | 84.4377  | 81  | 0.3750 |
| <b>ukb-b-17612</b>        | acute RITs | Heel bone ultrasound T-score,   | manual entry      | MR Egger | 84.4377  | 81  | 0.3750 |
| <b>ukb-b-17952</b>        | acute RITs | Heel Broadband ultrasound attenuation (BUA),                                      | manual entry      | MR Egger | 97.6496  | 90  | 0.2729 |
| <b>ukb-b-17952</b>        | acute RITs | Heel Broadband ultrasound attenuation (BUA),                                      | manual entry      | MR Egger | 97.6496  | 90  | 0.2729 |
| <b>ukb-b-5447</b>         | acute RITs | Heel broadband ultrasound attenuation (left)                                      |                   | MR Egger | 300.2056 | 302 | 0.5184 |
| <b>ukb-b-5447</b>         | acute RITs | Heel broadband ultrasound attenuation (left)                                      |                   | MR Egger | 300.2056 | 302 | 0.5184 |
| <b>ukb-b-6027</b>         | acute RITs | Heel broadband ultrasound attenuation (right)                                     |                   | MR Egger | 297.2692 | 309 | 0.6740 |
| <b>ukb-b-6027</b>         | acute RITs | Heel broadband ultrasound attenuation (right)                                     |                   | MR Egger | 297.2692 | 309 | 0.6740 |
| <b>ukb-b-6027</b>         | acute RITs | Heel broadband ultrasound attenuation (right)                                     |                   | MR Egger | 297.2692 | 309 | 0.6740 |
| <b>ukb-b-15851</b>        | acute RITs | Heel Broadband ultrasound attenuation,  | direct entry      | MR Egger | 504.8827 | 478 | 0.1908 |
| <b>ukb-b-19234</b>        | acute RITs | Heel quantitative ultrasound index (QUI),   | direct entry      | MR Egger | 573.1370 | 539 | 0.1495 |
| <b>ukb-b-19234</b>        | acute RITs | Heel quantitative ultrasound index (QUI),   | direct entry      | MR Egger | 573.1370 | 539 | 0.1495 |
| <b>ukb-b-17848</b>        | acute RITs | Heel quantitative ultrasound index (QUI),   | manual entry      | MR Egger | 105.8760 | 112 | 0.6451 |
| <b>ukb-e-49_AFR</b>       | acute RITs | Hip circumference   |                   | MR Egger | 18.9693  | 14  | 0.1661 |

|                           |            |  |          |          |     |        |
|---------------------------|------------|--|----------|----------|-----|--------|
| <b>ukb-e-23110_AFR</b>    | acute RITs | Impedance of arm (left)  | MR Egger | 22.6800  | 20  | 0.3048 |
| <b>ebi-a-GCST90020194</b> | acute RITs | Inferior Posterior lobe of cerebellar volume (including Crus II to IX hemispheric lobules) | MR Egger | 78.8848  | 71  | 0.2438 |
| <b>ukb-b-19277</b>        | acute RITs | Intra-ocular pressure, corneal-compensated (right)   | MR Egger | 163.8266 | 141 | 0.0915 |
| <b>bbj-a-37</b>           | acute RITs | Mean arterial pressure   | MR Egger | 86.5667  | 81  | 0.3157 |
| <b>ebi-a-GCST90018743</b> | acute RITs | Mean arterial pressure   | MR Egger | 104.4344 | 97  | 0.2849 |
| <b>ukb-e-MAP_p2_AFR</b>   | acute RITs | Mean arterial pressure, automated reading, adjusted by medication                          | MR Egger | 29.1179  | 22  | 0.1415 |
| <b>ukb-e-MAP_p4_AFR</b>   | acute RITs | Mean arterial pressure, combined automated + manual reading, adjusted by medication        | MR Egger | 33.6551  | 23  | 0.0703 |
| <b>ukb-d-30050_irnt</b>   | acute RITs | Mean corpuscular haemoglobin   | MR Egger | 429.4260 | 455 | 0.8001 |
| <b>ebi-a-GCST004630</b>   | acute RITs | Mean corpuscular hemoglobin  | MR Egger | 304.7894 | 294 | 0.3202 |
| <b>ebi-a-GCST90002390</b> | acute RITs | Mean corpuscular hemoglobin  | MR Egger | 557.7483 | 545 | 0.3434 |
| <b>ebi-a-GCST90002391</b> | acute RITs | Mean corpuscular hemoglobin concentration  | MR Egger | 331.7647 | 324 | 0.3712 |
| <b>ebi-a-GCST90002391</b> | acute RITs | Mean corpuscular hemoglobin concentration  | MR Egger | 331.7647 | 324 | 0.3712 |
| <b>ebi-a-GCST90025962</b> | acute RITs | Mean corpuscular hemoglobin concentration  | MR Egger | 473.0245 | 496 | 0.7642 |
| <b>ebi-a-GCST004602</b>   | acute RITs | Mean corpuscular volume  | MR Egger | 317.2899 | 312 | 0.4062 |
| <b>ebi-a-GCST90002392</b> | acute RITs | Mean corpuscular volume  | MR Egger | 632.4465 | 610 | 0.2566 |
| <b>ebi-a-GCST90025963</b> | acute RITs | Mean corpuscular volume  | MR Egger | 514.6082 | 528 | 0.6536 |
| <b>ukb-d-30040_irnt</b>   | acute RITs | Mean corpuscular volume  | MR Egger | 464.2624 | 475 | 0.6291 |
| <b>ebi-a-GCST90013979</b> | acute RITs | Mean corpuscular volume (UKB data field 30040)   | MR Egger | 498.0661 | 489 | 0.3785 |
| <b>ukb-a-251</b>          | acute RITs | Overall health rating  | MR Egger | 275.3932 | 260 | 0.2447 |
| <b>ieu-a-274</b>          | acute RITs | Packed cell volume   | MR Egger | 35.6354  | 44  | 0.8114 |
| <b>ebi-a-GCST90000065</b> | acute RITs | Pulse pressure   | MR Egger | 309.7947 | 284 | 0.1403 |
| <b>ukb-e-PP_p1_CSA</b>    | acute RITs | Pulse pressure, automated reading  | MR Egger | 11.0344  | 15  | 0.7502 |
| <b>ukb-e-R19_CSA</b>      | acute RITs | R19 Other symptoms and signs involving the digestive system and abdomen                    | MR Egger | 14.7213  | 10  | 0.1426 |
| <b>ebi-a-GCST90020192</b> | acute RITs | Superior Posterior lobe of cerebellar volume (including VI to Crus I hemispheric lobules)  | MR Egger | 71.8201  | 83  | 0.8045 |
| <b>ebi-a-GCST005349</b>   | acute RITs | Total body bone mineral density (age over 60)  | MR Egger | 70.3462  | 71  | 0.4996 |
| <b>ebi-a-GCST90020190</b> | acute RITs | Total cerebellar volume (excluding Crus I vermis)  | MR Egger | 73.9464  | 58  | 0.0772 |
| <b>ukb-e-23128_AFR</b>    | acute RITs | Trunk fat mass   | MR Egger | 24.0201  | 21  | 0.2921 |
| <b>ukb-e-23127_AFR</b>    | acute RITs | Trunk fat percentage   | MR Egger | 35.3352  | 31  | 0.2707 |
| <b>ebi-a-GCST90002228</b> | acute RITs | Two-hour glucose   | MR Egger | 12.8293  | 14  | 0.5400 |
| <b>ebi-a-GCST90013422</b> | acute RITs | Ultradistal forearm bone mineral density   | MR Egger | 44.1418  | 43  | 0.4231 |
| <b>ieu-a-61</b>           | acute RITs | Waist circumference  | MR Egger | 92.6402  | 103 | 0.7582 |
| <b>ieu-a-72</b>           | acute RITs | Waist-to-hip ratio   | MR Egger | 87.8626  | 81  | 0.2821 |
| <b>ebi-a-GCST90095035</b> | acute RITs | Waist-to-hip ratio adjusted for BMI  | MR Egger | 25.2449  | 29  | 0.6655 |
| <b>ukb-d-5610_3</b>       | acute RITs | Which eye(s) affected by presbyopia: Both eyes   | MR Egger | 9.0877   | 15  | 0.8729 |
| <b>ukb-e-Z09_CSA</b>      | acute RITs | Z09 Follow-up examination after treatment for conditions other than malignant neoplasms    | MR Egger | 7.1514   | 8   | 0.5204 |
| <b>ukb-e-Z12_CSA</b>      | acute RITs | Z12 Special screening examination for neoplasms  | MR Egger | 17.5234  | 10  | 0.0636 |

|                           |            |  |          |          |     |        |
|---------------------------|------------|--|----------|----------|-----|--------|
| <b>ukb-b-5779</b>         | acute RITs | Alcohol intake frequency.  | MR Egger | 295.3668 | 293 | 0.4502 |
| <b>ukb-a-32</b>           | acute RITs | Alcohol intake versus 10 years previously  | MR Egger | 78.5193  | 66  | 0.1390 |
| <b>ukb-e-1628_CSA</b>     | acute RITs | Alcohol intake versus 10 years previously  | MR Egger | 22.6753  | 19  | 0.2519 |
| <b>ieu-b-4825</b>         | acute RITs | Cigarettes smoked per day  | MR Egger | 8.1857   | 14  | 0.8794 |
| <b>ukb-b-1572</b>         | acute RITs | Difficulty not smoking for 1 day   | MR Egger | 12.5113  | 20  | 0.8974 |
| <b>ukb-d-20541</b>        | acute RITs | Difficulty stopping worrying during worst period of anxiety                          | MR Egger | 10.7982  | 15  | 0.7668 |
| <b>ukb-d-20425</b>        | acute RITs | Ever worried more than most people would in similar situation                        | MR Egger | 39.4367  | 33  | 0.2042 |
| <b>ebi-a-GCST006944</b>   | acute RITs | Experiencing mood swings   | MR Egger | 143.3515 | 154 | 0.7201 |
| <b>ieu-b-117</b>          | acute RITs | HOMA-B   | MR Egger | 18.2841  | 13  | 0.1470 |
| <b>ukb-a-47</b>           | acute RITs | Irritability   | MR Egger | 148.9571 | 130 | 0.1222 |
| <b>ebi-a-GCST90013875</b> | acute RITs | Irritability (UKB data field 1940) (Firth correction)                                | MR Egger | 149.4422 | 146 | 0.4056 |
| <b>ebi-a-GCST90013925</b> | acute RITs | Irritability (UKB data field 1940) (SPA correction)                                  | MR Egger | 149.4271 | 146 | 0.4060 |
| <b>ebi-a-GCST90013873</b> | acute RITs | Mood swings (UKB data field 1920) (Firth correction)                                 | MR Egger | 154.9898 | 160 | 0.5970 |
| <b>ebi-a-GCST90013923</b> | acute RITs | Mood swings (UKB data field 1920) (SPA correction)                                   | MR Egger | 154.9934 | 160 | 0.5970 |
| <b>ukb-a-342</b>          | acute RITs | Number of cigarettes currently smoked daily (current cigarette smokers)              | MR Egger | 15.1543  | 22  | 0.8555 |
| <b>ukb-a-238</b>          | acute RITs | Pack years adult smoking as proportion of life span exposed to smoking PREVIEW ONLY  | MR Egger | 68.2635  | 61  | 0.2442 |
| <b>ukb-a-237</b>          | acute RITs | Pack years of smoking PREVIEW ONLY   | MR Egger | 60.4163  | 60  | 0.4607 |
| <b>ieu-a-1046</b>         | acute RITs | Pallidum volume  | MR Egger | 7.1814   | 10  | 0.7082 |
| <b>ebi-a-GCST008027</b>   | acute RITs | Smoking behavior (cigarettes smoked per day)   | MR Egger | 34.3637  | 28  | 0.1892 |
| <b>ukb-e-2010_AFR</b>     | acute RITs | Suffer from 'nerves'   | MR Egger | 12.2483  | 14  | 0.5864 |
| <b>ebi-a-GCST90025968</b> | acute RITs | Systolic blood pressure  | MR Egger | 522.7550 | 496 | 0.1961 |
| <b>ieu-b-38</b>           | acute RITs | systolic blood pressure  | MR Egger | 568.0064 | 640 | 0.9810 |
| <b>ebi-a-GCST90014018</b> | acute RITs | Systolic blood pressure automated reading (UKB data field 4080)                      | MR Egger | 427.8090 | 398 | 0.1458 |
| <b>ukb-e-SBP_p1_AFR</b>   | acute RITs | Systolic blood pressure, automated reading, adjusted by medication                   | MR Egger | 30.1102  | 27  | 0.3092 |
| <b>ukb-e-SBP_p2_AFR</b>   | acute RITs | Systolic blood pressure, combined automated + manual reading                         | MR Egger | 16.6060  | 17  | 0.4814 |
| <b>ukb-e-SBP_p3_AFR</b>   | acute RITs | Systolic blood pressure, combined automated + manual reading, adjusted by medication | MR Egger | 22.5843  | 19  | 0.2561 |
| <b>ukb-e-6164_p6_CSA</b>  | acute RITs | Types of physical activity in last 4 weeks   | MR Egger | 0.8198   | 5   | 0.9758 |
| <b>ukb-d-22612_2</b>      | acute RITs | Worked with materials containing asbestos: Often                                     | MR Egger | 11.8093  | 14  | 0.6216 |
| <b>ukb-d-22609_0</b>      | acute RITs | Workplace very dusty: Rarely/never   | MR Egger | 10.3547  | 17  | 0.8881 |
| <b>ieu-a-1010</b>         | acute RITs | Years of schooling   | MR Egger | 109.3657 | 94  | 0.1329 |
| <b>ukb-e-Z88_AFR</b>      | acute RITs | Z88 Personal history of allergy to drugs, medicaments and biological substances      | MR Egger | 21.4374  | 17  | 0.2073 |

**Table S4 Pleiotropy test results for univariate Mendelian randomization between 990 traits and acute radiation-induced toxicities (RITs)**

| Exposure ID        | Outcome    | Trait name  | Egger intercept | Se     | P value |
|--------------------|------------|---|-----------------|--------|---------|
| ebi-a-GCST90011301 | acute RITs | C_Actinobacteria abundance  | 0.0027          | 0.0080 | 0.7395  |
| ebi-a-GCST90011305 | acute RITs | C_Clostridia abundance  | 0.0105          | 0.0137 | 0.4550  |
| ebi-a-GCST90011316 | acute RITs | F_Rikenellaceae abundance   | 0.0079          | 0.0141 | 0.5842  |
| ebi-a-GCST90011330 | acute RITs | G_Faecalibacterium abundance  | -0.0028         | 0.0051 | 0.5986  |
| ebi-a-GCST90011333 | acute RITs | G_Lachnospiraceae abundance   | -0.0011         | 0.0106 | 0.9206  |
| ebi-a-GCST90027467 | acute RITs | Gut bacterial pathway abundance (FUC.RHAMCAT.PWY..superpathway.of.fucose.and.rhamnose.degradation)  | 0.0450          | 0.0177 | 0.0516  |
| ebi-a-GCST90027487 | acute RITs | Gut bacterial pathway abundance (KETOGLUCONMET.PWY..ketogluconate.metabolism)   | -0.0246         | 0.0144 | 0.1227  |
| ebi-a-GCST90027501 | acute RITs | Gut bacterial pathway abundance (P42.PWY..incomplete.reductive.TCA.cycle)   | -0.0294         | 0.0142 | 0.0597  |
| ebi-a-GCST90027548 | acute RITs | Gut bacterial pathway abundance (PWY.5345..superpathway.of.L.methionine.biosynthesis..by.sulfhydrylation.)  | 0.0093          | 0.0144 | 0.5349  |
| ebi-a-GCST90027577 | acute RITs | Gut bacterial pathway abundance (PWY.6285..superpathway.of.fatty.acids.biosynthesis..E..coli.)  | -0.0163         | 0.0185 | 0.3995  |
| ebi-a-GCST90027623 | acute RITs | Gut bacterial pathway abundance (PWY.7371..1.4.dihydroxy.6.naphthoate.biosynthesis.II)  | -0.0359         | 0.0167 | 0.0683  |
| ebi-a-GCST90027627 | acute RITs | Gut bacterial pathway abundance (PWY.7456..mannan.degradation)  | -0.0226         | 0.0430 | 0.6357  |
| ebi-a-GCST90027635 | acute RITs | Gut bacterial pathway abundance (PWY_REDCITCYC..TCA.cycle.VIII..helicobacter.)  | -0.0181         | 0.0145 | 0.2455  |
| ebi-a-GCST90027520 | acute RITs | Gut bacterial pathway abundance (PWY0.1338..polymyxin.resistance)   | -0.0021         | 0.0189 | 0.9128  |
| ebi-a-GCST90027524 | acute RITs | Gut bacterial pathway abundance (PWY0.1586..peptidoglycan.maturation..meso.diaminopimelate.containing.)   | -0.0001         | 0.0142 | 0.9947  |
| ebi-a-GCST90027640 | acute RITs | Gut bacterial pathway abundance (RHAMCAT.PWY..L.rhamnose.degradation.I)   | -0.0109         | 0.0309 | 0.7313  |
| ebi-a-GCST90016910 | acute RITs | Gut microbiota abundance (class Bacilli id.1673)  | -0.0011         | 0.0099 | 0.9164  |
| ebi-a-GCST90016927 | acute RITs | Gut microbiota abundance (family Bacteroidaceae id.917)   | -0.0012         | 0.0198 | 0.9521  |
| ebi-a-GCST90016928 | acute RITs | Gut microbiota abundance (family Bacteroidales S24 7group id.11173)   | 0.0042          | 0.0171 | 0.8127  |
| ebi-a-GCST90016952 | acute RITs | Gut microbiota abundance (family Streptococcaceae id.1850)  | 0.0229          | 0.0134 | 0.1124  |
| ebi-a-GCST90016968 | acute RITs | Gut microbiota abundance (genus Bacteroides id.918)   | -0.0012         | 0.0198 | 0.9521  |
| ebi-a-GCST90017008 | acute RITs | Gut microbiota abundance (genus Family XIII AD3011 group id.11293)  | 0.0201          | 0.0178 | 0.2842  |
| ebi-a-GCST90017009 | acute RITs | Gut microbiota abundance (genus Family XIII UCG001 id.11294)  | -0.0129         | 0.0117 | 0.3146  |
| ebi-a-GCST90017028 | acute RITs | Gut microbiota abundance (genus Lachnospiraceae UCG010 id.11330)  | 0.0020          | 0.0093 | 0.8386  |
| ebi-a-GCST90017040 | acute RITs | Gut microbiota abundance (genus Paraprevotella id.962)  | -0.0145         | 0.0126 | 0.2746  |
| ebi-a-GCST90017046 | acute RITs | Gut microbiota abundance (genus Rikenellaceae RC9 gut group id.11191)   | 0.0021          | 0.0207 | 0.9230  |
| ebi-a-GCST90027748 | acute RITs | Gut microbiota abundance (k_Bacteria.p_Actinobacteria)  | -0.0193         | 0.0170 | 0.2891  |
| ebi-a-GCST90027651 | acute RITs | Gut microbiota abundance (k_Bacteria.p_Actinobacteria.c_Actinobacteria)   | -0.0193         | 0.0170 | 0.2890  |
| ebi-a-GCST90027824 | acute RITs | Gut microbiota abundance (k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g_Bacteroides.s_Bacteroides_dorei)                              | -0.0047         | 0.0173 | 0.7922  |
| ebi-a-GCST90027765 | acute RITs | Gut microbiota abundance (k_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Porphyrimonadaceae.g_Odoribacter.s_Odoribacter_splanchnicus)                   | -0.0123         | 0.0111 | 0.2916  |
| ebi-a-GCST90027803 | acute RITs | Gut microbiota abundance (k_Bacteria.p_Firmicutes.c_Erysipelotrichia.o_Erysipelotrichales.f_Erysipelotrichaceae.g_Erysipelotrichaceae_noname.s_Eubacterium_biforme) | 0.0205          | 0.0166 | 0.2638  |

|                           |            |   |         |        |        |
|---------------------------|------------|---|---------|--------|--------|
| <b>ebi-a-GCST90027805</b> | acute RITs | Gut microbiota abundance (k_Bacteria.p_Firmicutes.c_Erysipelotrichia.o_Erysipelotrichales.f_Erysipelotrichaceae.g_Holdemania.s_Holdemania_unclassified) | -0.0154 | 0.0299 | 0.6237 |
| <b>ebi-a-GCST90017101</b> | acute RITs | Gut microbiota abundance (order Lactobacillales id.1800)  | 0.0067  | 0.0087 | 0.4522 |
| <b>ebi-a-GCST90017112</b> | acute RITs | Gut microbiota abundance (phylum Cyanobacteria id.1500)   | 0.0062  | 0.0209 | 0.7752 |
| <b>ebi-a-GCST90017079</b> | acute RITs | Gut microbiota abundance (unknown genus id.1000005479)  | 0.0042  | 0.0171 | 0.8127 |
| <b>ebi-a-GCST90017082</b> | acute RITs | Gut microbiota abundance (unknown genus id.2001)  | -0.0041 | 0.0132 | 0.7613 |
| <b>ebi-a-GCST90032456</b> | acute RITs | Lactobacillus B abundance in stool  | -0.0114 | 0.0061 | 0.0833 |
| <b>ebi-a-GCST90032488</b> | acute RITs | Negativibacillus massiliensis abundance in stool  | -0.0089 | 0.0090 | 0.3375 |
| <b>ebi-a-GCST90011556</b> | acute RITs | OTU97_100 (Ruminococcaceae) prevalence  | 0.0012  | 0.0185 | 0.9506 |
| <b>ebi-a-GCST90011359</b> | acute RITs | OTU97_106 (Ruminococcaceae) abundance   | 0.0187  | 0.0261 | 0.4994 |
| <b>ebi-a-GCST90011570</b> | acute RITs | OTU97_130 (Butyrivibrio) prevalence   | -0.0075 | 0.0168 | 0.6735 |
| <b>ebi-a-GCST90011572</b> | acute RITs | OTU97_138 (Oscillibacter) prevalence  | -0.0087 | 0.0152 | 0.5779 |
| <b>ebi-a-GCST90011372</b> | acute RITs | OTU97_140 (Bacteroides) abundance   | 0.0103  | 0.0074 | 0.1844 |
| <b>ebi-a-GCST90011385</b> | acute RITs | OTU97_24 (Prevotella) abundance   | -0.0215 | 0.0189 | 0.2874 |
| <b>ebi-a-GCST90011604</b> | acute RITs | OTU97_53 (Bacteroides) prevalence   | 0.0056  | 0.0125 | 0.6622 |
| <b>ebi-a-GCST90011605</b> | acute RITs | OTU97_56 (Ruminococcaceae) prevalence   | -0.0002 | 0.0093 | 0.9800 |
| <b>ebi-a-GCST90011636</b> | acute RITs | OTU99_155 (Butyrivibrio) prevalence   | -0.0080 | 0.0163 | 0.6404 |
| <b>ebi-a-GCST90011440</b> | acute RITs | OTU99_171 (Bacteroides) abundance   | 0.0167  | 0.0079 | 0.0527 |
| <b>ebi-a-GCST90011655</b> | acute RITs | OTU99_34 (Holdemanella) prevalence  | -0.0059 | 0.0146 | 0.6927 |
| <b>ebi-a-GCST90011465</b> | acute RITs | OTU99_558 (Bacteroidales) abundance   | -0.0062 | 0.0081 | 0.4569 |
| <b>ebi-a-GCST90011675</b> | acute RITs | OTU99_8 (Ruminococcaceae) prevalence  | -0.0166 | 0.0214 | 0.4620 |
| <b>ebi-a-GCST90011481</b> | acute RITs | P_Actinobacteria abundance  | 0.0027  | 0.0080 | 0.7395 |
| <b>ebi-a-GCST90011482</b> | acute RITs | P_Bacteroidetes abundance   | -0.0064 | 0.0081 | 0.4506 |
| <b>ebi-a-GCST90032500</b> | acute RITs | Parabacteroides sp000436495 abundance in stool  | -0.0162 | 0.0097 | 0.1272 |
| <b>ebi-a-GCST90032502</b> | acute RITs | Parachlamydiales abundance in stool   | -0.0144 | 0.0118 | 0.2566 |
| <b>ebi-a-GCST90032540</b> | acute RITs | Roseibacillus abundance in stool  | -0.0046 | 0.0172 | 0.8062 |
| <b>ebi-a-GCST90032569</b> | acute RITs | Succiniclasticum abundance in stool   | -0.0016 | 0.0057 | 0.7821 |
| <b>ebi-a-GCST90032578</b> | acute RITs | Terrisporobacter abundance in stool   | -0.0212 | 0.0112 | 0.0818 |
| <b>ebi-a-GCST90011687</b> | acute RITs | TestASV_14 (Lachnospiraceae) prevalence   | -0.0083 | 0.0269 | 0.7694 |
| <b>ebi-a-GCST90032590</b> | acute RITs | UBA1033 sp001695555 abundance in stool  | -0.0113 | 0.0107 | 0.3141 |
| <b>ebi-a-GCST90032601</b> | acute RITs | UBA1409 abundance in stool  | -0.0132 | 0.0099 | 0.2151 |
| <b>ebi-a-GCST90032608</b> | acute RITs | UBA1777 sp900316255 abundance in stool  | -0.0093 | 0.0106 | 0.3985 |
| <b>ebi-a-GCST90032616</b> | acute RITs | UBA3855 sp900316885 abundance in stool  | 0.0174  | 0.0118 | 0.1654 |
| <b>ebi-a-GCST90032618</b> | acute RITs | UBA6382 abundance in stool  | -0.0089 | 0.0081 | 0.2955 |
| <b>ebi-a-GCST90032628</b> | acute RITs | UBA737 sp002451855 abundance in stool   | -0.0061 | 0.0103 | 0.5609 |
| <b>ieu-b-4810</b>         | acute RITs | Breast cancer   | -0.0018 | 0.0028 | 0.5287 |

|                           |            |  |         |        |        |
|---------------------------|------------|--|---------|--------|--------|
| <b>ukb-a-57</b>           | acute RITs | Cancer code self-reported: prostate cancer                   | -0.0011 | 0.0051 | 0.8377 |
| <b>ukb-b-13545</b>        | acute RITs | Cancer code, self-reported: uterine/endometrial cancer       | -0.0097 | 0.0583 | 0.8788 |
| <b>ebi-a-GCST90018817</b> | acute RITs | Cervical cancer  | 0.0063  | 0.0067 | 0.3604 |
| <b>ebi-a-GCST012876</b>   | acute RITs | Colorectal cancer  | 0.0042  | 0.0069 | 0.5489 |
| <b>ebi-a-GCST012877</b>   | acute RITs | Colorectal cancer  | 0.0128  | 0.0065 | 0.0547 |
| <b>ebi-a-GCST90018588</b> | acute RITs | Colorectal cancer  | -0.0013 | 0.0045 | 0.7669 |
| <b>ebi-a-GCST90018838</b> | acute RITs | Endometrial cancer   | 0.0129  | 0.0101 | 0.2234 |
| <b>ieu-a-1163</b>         | acute RITs | ER- Breast cancer (Survival)                                 | -0.0139 | 0.0084 | 0.1140 |
| <b>ebi-a-GCST90018875</b> | acute RITs | Lung cancer  | 0.0054  | 0.0073 | 0.4714 |
| <b>ieu-a-985</b>          | acute RITs | Lung cancer  | -0.0086 | 0.0046 | 0.0702 |
| <b>ebi-a-GCST004747</b>   | acute RITs | Lung cancer in never smokers                                 | -0.0133 | 0.0075 | 0.0901 |
| <b>ukb-b-14956</b>        | acute RITs | Type of cancer: ICD10: C54.1 Endometrium                     | 0.0261  | 0.0771 | 0.7673 |
| <b>ebi-a-GCST90001501</b> | acute RITs | Activated & secreting CD4 regulatory T cell Absolute Count   | -0.0050 | 0.0079 | 0.5372 |
| <b>ebi-a-GCST90001694</b> | acute RITs | CD28- CD4-CD8- T cell %T cell                                | -0.0032 | 0.0052 | 0.5388 |
| <b>ebi-a-GCST90001654</b> | acute RITs | CD28- CD4-CD8- T cell Absolute Count                         | -0.0019 | 0.0045 | 0.6782 |
| <b>ebi-a-GCST90001641</b> | acute RITs | CD3- lymphocyte %leukocyte                                   | 0.0013  | 0.0060 | 0.8376 |
| <b>ebi-a-GCST90001491</b> | acute RITs | CD39+ activated CD4 regulatory T cell %CD4 regulatory T cell | -0.0006 | 0.0043 | 0.8957 |
| <b>ebi-a-GCST90001489</b> | acute RITs | CD39+ activated CD4 regulatory T cell Absolute Count         | 0.0022  | 0.0038 | 0.5629 |
| <b>ebi-a-GCST90001495</b> | acute RITs | CD39+ secreting CD4 regulatory T cell Absolute Count         | -0.0010 | 0.0047 | 0.8402 |
| <b>ebi-a-GCST90001548</b> | acute RITs | Central Memory CD8+ T cell Absolute Count                    | -0.0017 | 0.0074 | 0.8250 |
| <b>ebi-a-GCST90001556</b> | acute RITs | Effector Memory CD8+ T cell %T cell                          | 0.0097  | 0.0059 | 0.1308 |
| <b>ebi-a-GCST90001554</b> | acute RITs | Effector Memory CD8+ T cell Absolute Count                   | 0.0051  | 0.0051 | 0.3316 |
| <b>ukb-e-30210_CSA</b>    | acute RITs | Eosinophil percentage  | 0.0096  | 0.0060 | 0.1231 |
| <b>ukb-e-30300_AFR</b>    | acute RITs | High light scatter reticulocyte count                        | -0.0135 | 0.0066 | 0.0513 |
| <b>ebi-a-GCST90001441</b> | acute RITs | IgD+ CD24- B cell %lymphocyte                                | 0.0009  | 0.0081 | 0.9154 |
| <b>ebi-a-GCST90001431</b> | acute RITs | IgD+ CD38- B cell %lymphocyte                                | -0.0076 | 0.0115 | 0.5241 |
| <b>ebi-a-GCST90001396</b> | acute RITs | IgD+ CD38- B cell Absolute Count                             | 0.0041  | 0.0099 | 0.6850 |
| <b>ebi-a-GCST90018962</b> | acute RITs | Lymphocyte count   | 0.0005  | 0.0010 | 0.6001 |
| <b>ukb-d-30120_irnt</b>   | acute RITs | Lymphocyte count   | -0.0001 | 0.0011 | 0.9423 |
| <b>ebi-a-GCST004627</b>   | acute RITs | Lymphocyte counts  | -0.0003 | 0.0015 | 0.8436 |
| <b>bbj-a-44</b>           | acute RITs | Neutrophil count   | -0.0024 | 0.0037 | 0.5140 |
| <b>ebi-a-GCST90002356</b> | acute RITs | Platelet count   | -0.0008 | 0.0031 | 0.7925 |
| <b>ieu-a-1008</b>         | acute RITs | Platelet count   | -0.0053 | 0.0029 | 0.0666 |
| <b>ebi-a-GCST004601</b>   | acute RITs | Red blood cell count   | 0.0018  | 0.0013 | 0.1838 |
| <b>ebi-a-GCST90025964</b> | acute RITs | Red blood cell count   | 0.0001  | 0.0008 | 0.8768 |
| <b>ebi-a-GCST90001578</b> | acute RITs | Transitional B cell %lymphocyte                              | -0.0034 | 0.0064 | 0.6002 |

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|---------------------------|------------|--|---------|--------|--------|
| <b>ebi-a-GCST90001577</b> | acute RITs | Transitional B cell Absolute Count   | 0.0028  | 0.0086 | 0.7451 |
| <b>ukb-d-30000_irnt</b>   | acute RITs | White blood cell (leukocyte) count   | -0.0007 | 0.0011 | 0.5281 |
| <b>ebi-a-GCST90002407</b> | acute RITs | White blood cell count   | -0.0016 | 0.0010 | 0.0996 |
| <b>ebi-a-GCST90018978</b> | acute RITs | White blood cell count   | -0.0019 | 0.0010 | 0.0578 |
| <b>ebi-a-GCST90025985</b> | acute RITs | White blood cell count   | -0.0017 | 0.0010 | 0.0799 |
| <b>ebi-a-GCST010779</b>   | acute RITs | COVID-19 (hospitalized vs population) RELEASE 4  | -0.0053 | 0.0050 | 0.2981 |
| <b>ebi-a-GCST011082</b>   | acute RITs | COVID-19 (hospitalized vs population) RELEASE 5  | -0.0036 | 0.0047 | 0.4435 |
| <b>ebi-a-GCST011084</b>   | acute RITs | COVID-19 (hospitalized vs population) RELEASE 5  | 0.0021  | 0.0044 | 0.6409 |
| <b>ukb-a-28</b>           | acute RITs | Average weekly beer plus cider intake  | -0.0080 | 0.0042 | 0.0621 |
| <b>ukb-b-1707</b>         | acute RITs | Average weekly spirits intake  | -0.0005 | 0.0079 | 0.9464 |
| <b>ukb-b-10054</b>        | acute RITs | Cheese consumers   | 0.0108  | 0.0087 | 0.2304 |
| <b>ukb-b-1814</b>         | acute RITs | Cheesecake intake  | -0.0044 | 0.0086 | 0.6141 |
| <b>ukb-b-1160</b>         | acute RITs | Chocolate-covered raisin intake  | -0.0148 | 0.0078 | 0.0705 |
| <b>ukb-b-8089</b>         | acute RITs | Cooked vegetable intake  | -0.0018 | 0.0045 | 0.6855 |
| <b>ukb-b-5382</b>         | acute RITs | Eggs in sandwiches intake  | 0.0018  | 0.0123 | 0.8872 |
| <b>ukb-b-14351</b>        | acute RITs | Grapefruit juice intake  | -0.0048 | 0.0085 | 0.5770 |
| <b>ukb-b-18079</b>        | acute RITs | Low fat hard cheese intake   | -0.0217 | 0.0112 | 0.0855 |
| <b>ukb-d-1418_1</b>       | acute RITs | Milk type used: Full cream   | -0.0163 | 0.0081 | 0.0503 |
| <b>ukb-d-1418_5</b>       | acute RITs | Milk type used: Other type of milk   | -0.0003 | 0.0128 | 0.9829 |
| <b>ukb-e-6179_p3_CSA</b>  | acute RITs | Mineral and other dietary supplements  | -0.0091 | 0.0077 | 0.2671 |
| <b>ukb-e-1389_AFR</b>     | acute RITs | Pork intake  | 0.0076  | 0.0048 | 0.1293 |
| <b>ukb-b-8006</b>         | acute RITs | Poultry intake   | -0.0087 | 0.0047 | 0.0642 |
| <b>ukb-b-337</b>          | acute RITs | Pure fruit/vegetable juice intake  | -0.0094 | 0.0125 | 0.4641 |
| <b>ukb-e-1478_AFR</b>     | acute RITs | Salt added to food   | -0.0030 | 0.0058 | 0.6134 |
| <b>ukb-b-5847</b>         | acute RITs | Sausage intake   | -0.0236 | 0.0109 | 0.0540 |
| <b>ukb-b-998</b>          | acute RITs | Soya dessert intake  | 0.0045  | 0.0084 | 0.5997 |
| <b>ukb-b-12067</b>        | acute RITs | Sponge pudding intake  | 0.0077  | 0.0115 | 0.5110 |
| <b>ukb-b-15984</b>        | acute RITs | Thickness of butter/margarine spread on sliced bread: thin                                     | -0.0104 | 0.0134 | 0.4512 |
| <b>ukb-b-16523</b>        | acute RITs | Type of meals eaten: Bought sandwiches   | -0.0222 | 0.0380 | 0.5995 |
| <b>ukb-b-6448</b>         | acute RITs | Type of sliced bread eaten: mixed  | -0.0062 | 0.0116 | 0.5988 |
| <b>ukb-b-3828</b>         | acute RITs | Types of spread used on bread/crackers: Normal fat polyunsaturated margarine on bread/crackers | -0.0116 | 0.0454 | 0.8144 |
| <b>ukb-b-11725</b>        | acute RITs | Types of spreads/sauces consumed: Tomato-based sauce   | -0.0135 | 0.0293 | 0.6912 |
| <b>ukb-b-3383</b>         | acute RITs | Vegetarian sausages/burgers intake   | 0.0117  | 0.0081 | 0.1635 |
| <b>ukb-b-5427</b>         | acute RITs | White fish intake  | 0.0120  | 0.0134 | 0.4119 |
| <b>ukb-b-2375</b>         | acute RITs | Whole-wheat cereal intake  | 0.0082  | 0.0094 | 0.3949 |
| <b>ukb-b-7753</b>         | acute RITs | Yogurt intake  | -0.0130 | 0.0127 | 0.3330 |

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|---------------------------------|------------|--|---------|--------|--------|
| <b>ukb-d-M13_ADHCAPS ULITIS</b> | acute RITs | Adhesive capsulitis of shoulder  | -0.0088 | 0.0111 | 0.4355 |
| <b>ebi-a-GCST90086041</b>       | acute RITs | Allergic rhinitis  | -0.0027 | 0.0035 | 0.4474 |
| <b>ebi-a-GCST005529</b>         | acute RITs | Ankylosing spondylitis   | 0.0034  | 0.0026 | 0.1911 |
| <b>ieu-a-45</b>                 | acute RITs | Anorexia nervosa   | 0.0058  | 0.0037 | 0.1630 |
| <b>ukb-d-KRA_PSY_ANY MENTAL</b> | acute RITs | Any mental disorder  | -0.0016 | 0.0128 | 0.9037 |
| <b>ebi-a-GCST90000026</b>       | acute RITs | Appendicular lean mass   | -0.0017 | 0.0011 | 0.1241 |
| <b>bbj-a-86</b>                 | acute RITs | Arrhythmia   | -0.0025 | 0.0024 | 0.2947 |
| <b>bbj-a-71</b>                 | acute RITs | Atrial Fibrillation  | 0.0019  | 0.0032 | 0.5471 |
| <b>ukb-b-8463</b>               | acute RITs | Back pain for 3+ months  | -0.0027 | 0.0105 | 0.7986 |
| <b>ukb-e-41_CSA</b>             | acute RITs | Bacterial infection NOS  | -0.0103 | 0.0084 | 0.2497 |
| <b>ukb-a-444</b>                | acute RITs | Blood clot DVT bronchitis emphysema asthma rhinitis eczema allergy diagnosed by doctor: Emphysema/chronic bronchitis | 0.0047  | 0.0084 | 0.5827 |
| <b>ukb-e-6152_p1_AFR</b>        | acute RITs | Blood clot, DVT, bronchitis, emphysema, asthma, rhinitis, eczema, allergy diagnosed by doctor                        | 0.0048  | 0.0056 | 0.4025 |
| <b>ebi-a-GCST90038652</b>       | acute RITs | Bone disorder  | -0.0098 | 0.0060 | 0.1073 |
| <b>ebi-a-GCST90018591</b>       | acute RITs | Cardiac valvular disease   | 0.0031  | 0.0040 | 0.4538 |
| <b>ebi-a-GCST90018812</b>       | acute RITs | Cardiomegaly   | 0.0132  | 0.0088 | 0.1477 |
| <b>ukb-e-366_CSA</b>            | acute RITs | Cataract   | 0.0055  | 0.0091 | 0.5575 |
| <b>ieu-a-1058</b>               | acute RITs | Celiac disease   | 0.0056  | 0.0027 | 0.0503 |
| <b>ebi-a-GCST90018818</b>       | acute RITs | Cholecystitis  | 0.0029  | 0.0030 | 0.3343 |
| <b>ieu-b-4971</b>               | acute RITs | Cholecystitits   | 0.0113  | 0.0062 | 0.0852 |
| <b>ebi-a-GCST90013939</b>       | acute RITs | Cholelithiasis gall stones (SPA correction)  | 0.0008  | 0.0021 | 0.7009 |
| <b>ebi-a-GCST90013939</b>       | acute RITs | Cholelithiasis gall stones (SPA correction)  | 0.0008  | 0.0021 | 0.7009 |
| <b>ebi-a-GCST008026</b>         | acute RITs | Chronic kidney disease   | 0.0088  | 0.0051 | 0.0947 |
| <b>ebi-a-GCST90018809</b>       | acute RITs | Chronic suppurative otitis media   | 0.0003  | 0.0069 | 0.9641 |
| <b>ukb-e-851_CSA</b>            | acute RITs | Complications of transplants and reattached limbs  | -0.0152 | 0.0085 | 0.0970 |
| <b>ukb-e-5264_AFR</b>           | acute RITs | Corneal hysteresis (left)  | -0.0097 | 0.0057 | 0.0983 |
| <b>ebi-a-GCST004132</b>         | acute RITs | Crohn's disease  | 0.0012  | 0.0019 | 0.5484 |
| <b>ieu-a-30</b>                 | acute RITs | Crohn's disease  | 0.0017  | 0.0024 | 0.4908 |
| <b>ukb-e-D64_CSA</b>            | acute RITs | D64 Other anaemias   | 0.0095  | 0.0077 | 0.2481 |
| <b>ukb-b-3145</b>               | acute RITs | Diagnoses - main ICD10: C44.5 Skin of trunk  | -0.0102 | 0.0385 | 0.8016 |
| <b>ukb-d-C67</b>                | acute RITs | Diagnoses - main ICD10: C67 Malignant neoplasm of bladder  | -0.0027 | 0.0092 | 0.7672 |
| <b>ukb-a-521</b>                | acute RITs | Diagnoses - main ICD10: D12 Benign neoplasm of colon rectum anus and anal canal                                      | 0.0151  | 0.0074 | 0.0527 |
| <b>ukb-d-D23</b>                | acute RITs | Diagnoses - main ICD10: D23 Other benign neoplasms of skin   | 0.0012  | 0.0104 | 0.9103 |
| <b>ukb-d-H33</b>                | acute RITs | Diagnoses - main ICD10: H33 Retinal detachments and breaks   | 0.0006  | 0.0066 | 0.9311 |
| <b>ukb-b-11771</b>              | acute RITs | Diagnoses - main ICD10: K08.3 Retained dental root   | -0.0777 | 0.2362 | 0.7976 |
| <b>ukb-b-19354</b>              | acute RITs | Diagnoses - main ICD10: K20 Oesophagitis   | -0.0054 | 0.0269 | 0.8461 |

|                             |            |   |         |        |        |
|-----------------------------|------------|---|---------|--------|--------|
| <b>ukb-b-11369</b>          | acute RITs | Diagnoses - main ICD10: K40.2 Bilateral inguinal hernia, without obstruction or gangrene  | 0.0471  | 0.0295 | 0.1710 |
| <b>ukb-b-19805</b>          | acute RITs | Diagnoses - main ICD10: K62.1 Rectal polyp  | 0.0325  | 0.0153 | 0.0661 |
| <b>ukb-b-8988</b>           | acute RITs | Diagnoses - main ICD10: K80.1 Calculus of gallbladder with other cholecystitis  | 0.0116  | 0.0069 | 0.1075 |
| <b>ukb-b-8988</b>           | acute RITs | Diagnoses - main ICD10: K80.1 Calculus of gallbladder with other cholecystitis  | 0.0116  | 0.0069 | 0.1075 |
| <b>ukb-d-K81</b>            | acute RITs | Diagnoses - main ICD10: K81 Cholecystitis   | 0.0017  | 0.0071 | 0.8147 |
| <b>ukb-d-K92</b>            | acute RITs | Diagnoses - main ICD10: K92 Other diseases of digestive system  | -0.0131 | 0.0098 | 0.2025 |
| <b>ukb-d-L57</b>            | acute RITs | Diagnoses - main ICD10: L57 Skin changes due to chronic exposure to nonionising radiation   | -0.0121 | 0.0063 | 0.0644 |
| <b>ukb-b-15003</b>          | acute RITs | Diagnoses - main ICD10: L72.0 Epidermal cyst  | 0.0073  | 0.0319 | 0.8254 |
| <b>ukb-b-7700</b>           | acute RITs | Diagnoses - main ICD10: M17.1 Other primary gonarthrosis  | -0.0224 | 0.0166 | 0.1980 |
| <b>ukb-b-9694</b>           | acute RITs | Diagnoses - main ICD10: M23.22 Derangement of meniscus due to old tear or injury (Posterior cruciate ligament or Posterior horn of medial meniscus) | -0.0023 | 0.0672 | 0.9746 |
| <b>ukb-d-M70</b>            | acute RITs | Diagnoses - main ICD10: M70 Soft tissue disorders related to use, overuse and pressure  | -0.0038 | 0.0100 | 0.7096 |
| <b>ukb-b-18372</b>          | acute RITs | Diagnoses - main ICD10: N20.0 Calculus of kidney  | 0.0087  | 0.0119 | 0.4793 |
| <b>ukb-b-18629</b>          | acute RITs | Diagnoses - main ICD10: N20.1 Calculus of ureter  | 0.0293  | 0.0225 | 0.2194 |
| <b>ukb-d-O80</b>            | acute RITs | Diagnoses - main ICD10: O80 Single spontaneous delivery   | -0.0170 | 0.0090 | 0.0786 |
| <b>ukb-b-6608</b>           | acute RITs | Diagnoses - main ICD10: R10.1 Pain localised to upper abdomen   | 0.0120  | 0.0127 | 0.3745 |
| <b>ukb-b-17456</b>          | acute RITs | Diagnoses - main ICD10: R10.3 Pain localised to other parts of lower abdomen  | -0.0042 | 0.0202 | 0.8410 |
| <b>ukb-a-584</b>            | acute RITs | Diagnoses - main ICD10: R14 Flatulence and related conditions   | 0.0026  | 0.0090 | 0.7785 |
| <b>ukb-d-S61</b>            | acute RITs | Diagnoses - main ICD10: S61 Open wound of wrist and hand  | -0.0043 | 0.0082 | 0.6028 |
| <b>ukb-d-Z45</b>            | acute RITs | Diagnoses - main ICD10: Z45 Adjustment and management of implanted device   | 0.0058  | 0.0097 | 0.5598 |
| <b>ukb-b-16056</b>          | acute RITs | Diagnoses - secondary ICD10: F10.1 Harmful use  | -0.0405 | 0.0438 | 0.3972 |
| <b>ukb-b-19651</b>          | acute RITs | Diagnoses - secondary ICD10: F10.2 Dependence syndrome  | 0.0049  | 0.0523 | 0.9278 |
| <b>ukb-b-16751</b>          | acute RITs | Diagnoses - secondary ICD10: J44.9 Chronic obstructive pulmonary disease, unspecified   | -0.0042 | 0.0157 | 0.7895 |
| <b>ukb-b-11675</b>          | acute RITs | Diagnoses - secondary ICD10: K66.0 Peritoneal adhesions   | 0.0101  | 0.2401 | 0.9692 |
| <b>ukb-b-20233</b>          | acute RITs | Diagnoses - secondary ICD10: M19.99 Arthrosis, unspecified (Site unspecified)   | -0.0016 | 0.0339 | 0.9628 |
| <b>ukb-b-6413</b>           | acute RITs | Diagnoses - secondary ICD10: N73.6 Female pelvic peritoneal adhesions   | 0.0917  | 0.0763 | 0.2957 |
| <b>ukb-b-10490</b>          | acute RITs | Diagnoses - secondary ICD10: Z03.8 Observation for other suspected diseases and conditions  | -0.0893 | 0.0441 | 0.0733 |
| <b>ukb-b-2895</b>           | acute RITs | Diagnoses - secondary ICD10: Z60.2 Living alone   | 0.0304  | 0.0572 | 0.6484 |
| <b>ukb-b-10911</b>          | acute RITs | Diagnoses - secondary ICD10: Z92.2 Personal history of long-term (current) use of other medicaments   | 0.0192  | 0.0111 | 0.1010 |
| <b>ukb-d-IX_CIRCULATORY</b> | acute RITs | Diseases of the circulatory system  | 0.0026  | 0.0050 | 0.6036 |
| <b>ukb-a-254</b>            | acute RITs | Doctor diagnosed hayfever or allergic rhinitis  | 0.0080  | 0.0043 | 0.0673 |
| <b>ukb-d-20429</b>          | acute RITs | Easily tired during worst period of anxiety   | 0.0086  | 0.0092 | 0.3620 |
| <b>ukb-e-F17_CSA</b>        | acute RITs | F17 Mental and behavioral disorders due to use of tobacco   | -0.0083 | 0.0080 | 0.3163 |
| <b>ebi-a-GCST90018625</b>   | acute RITs | Food allergy  | -0.0158 | 0.0098 | 0.1449 |
| <b>ebi-a-GCST90000514</b>   | acute RITs | Gastroesophageal reflux disease   | 0.0016  | 0.0033 | 0.6266 |
| <b>ebi-a-GCST90018635</b>   | acute RITs | Hashimoto thyroiditis   | 0.0002  | 0.0058 | 0.9752 |
| <b>ukb-e-2247_p1_AFR</b>    | acute RITs | Hearing difficulty/problems   | -0.0125 | 0.0059 | 0.0546 |

|                            |            |  |   |         |        |        |
|----------------------------|------------|--|---|---------|--------|--------|
| <b>ebi-a-GCST90038627</b>  | acute RITs | Hepatitis  |   | 0.0132  | 0.0090 | 0.1573 |
| <b>ukb-d-K11_HERNIA</b>    | acute RITs | Hernia   |   | -0.0056 | 0.0050 | 0.2716 |
| <b>ieu-a-1169</b>          | acute RITs | Hip osteoarthritis   |   | 0.0002  | 0.0168 | 0.9918 |
| <b>ebi-a-GCST90018860</b>  | acute RITs | Hyperthyroidism  |   | 0.0010  | 0.0043 | 0.8234 |
| <b>ebi-a-GCST90018861</b>  | acute RITs | Hypertrophic cardiomyopathy  |   | 0.0053  | 0.0069 | 0.4590 |
| <b>ukb-e-I25_AFR</b>       | acute RITs | I25 Chronic ischaemic heart disease  |   | 0.0040  | 0.0050 | 0.4265 |
| <b>ebi-a-GCST003043</b>    | acute RITs | Inflammatory bowel disease   |   | 0.0006  | 0.0017 | 0.7188 |
| <b>ieu-a-292</b>           | acute RITs | Inflammatory bowel disease   |   | -0.0007 | 0.0018 | 0.7064 |
| <b>ieu-a-294</b>           | acute RITs | Inflammatory bowel disease   |   | 0.0008  | 0.0017 | 0.6522 |
| <b>ebi-a-GCST90038626</b>  | acute RITs | Irritable bowel syndrome   |   | -0.0024 | 0.0072 | 0.7385 |
| <b>bbj-a-129</b>           | acute RITs | Ischemic stroke  |   | -0.0013 | 0.0037 | 0.7263 |
| <b>ukb-e-K21_CSA</b>       | acute RITs | K21 Gastro-oesophageal reflux disease  |   | -0.0072 | 0.0137 | 0.6135 |
| <b>ukb-e-M17_CSA</b>       | acute RITs | M17 Gonarthrosis [arthrosis of knee]   |   | 0.0023  | 0.0075 | 0.7679 |
| <b>ukb-b-6458</b>          | acute RITs | Mouth/teeth dental problems: Mouth ulcers  |   | 0.0006  | 0.0020 | 0.7448 |
| <b>ukb-a-429</b>           | acute RITs | Mouth/teeth dental problems: Painful gums  |   | -0.0008 | 0.0125 | 0.9485 |
| <b>ieu-b-18</b>            | acute RITs | multiple sclerosis   |   | 0.0004  | 0.0015 | 0.7779 |
| <b>ukb-e-N17_CSA</b>       | acute RITs | N17 Acute renal failure  |   | 0.0041  | 0.0081 | 0.6212 |
| <b>ukb-e-N18_AFR</b>       | acute RITs | N18 Chronic renal failure  |   | 0.0024  | 0.0117 | 0.8484 |
| <b>ebi-a-GCST006940</b>    | acute RITs | Neurociticism  |   | 0.0021  | 0.0027 | 0.4383 |
| <b>ukb-a-230</b>           | acute RITs | Neuroticism score  |   | 0.0034  | 0.0033 | 0.3009 |
| <b>ukb-a-81</b>            | acute RITs | Non-cancer illness code  | self-reported: depression                 | -0.0120 | 0.0066 | 0.0760 |
| <b>ukb-a-94</b>            | acute RITs | Non-cancer illness code  | self-reported: hayfever/allergic rhinitis | -0.0041 | 0.0042 | 0.3412 |
| <b>ukb-a-86</b>            | acute RITs | Non-cancer illness code  | self-reported: joint disorder             | 0.0030  | 0.0080 | 0.7064 |
| <b>ukb-e-20002_p95_CSA</b> | acute RITs | Non-cancer illness code, self-reported   |   | -0.0031 | 0.0070 | 0.6672 |
| <b>ukb-b-14027</b>         | acute RITs | Non-cancer illness code, self-reported: chickenpox                               |   | -0.0533 | 0.0581 | 0.4107 |
| <b>ukb-b-3044</b>          | acute RITs | Non-cancer illness code, self-reported: colitis/not crohns or ulcerative colitis |   | 0.0314  | 0.0493 | 0.5584 |
| <b>ukb-b-14452</b>         | acute RITs | Non-cancer illness code, self-reported: inguinal hernia                          |   | 0.0164  | 0.0414 | 0.7089 |
| <b>ukb-b-2592</b>          | acute RITs | Non-cancer illness code, self-reported: irritable bowel syndrome                 |   | -0.0106 | 0.0107 | 0.3379 |
| <b>ukb-b-17670</b>         | acute RITs | Non-cancer illness code, self-reported: multiple sclerosis                       |   | -0.0015 | 0.0044 | 0.7480 |
| <b>ukb-b-6633</b>          | acute RITs | Non-cancer illness code, self-reported: other renal/kidney problem               |   | 0.0207  | 0.0335 | 0.5567 |
| <b>ukb-b-14210</b>         | acute RITs | Non-cancer illness code, self-reported: rectal or colon adenoma/polyps           |   | -0.0647 | 0.2990 | 0.8644 |
| <b>ukb-b-15749</b>         | acute RITs | Non-cancer illness code, self-reported: transient ischaemic attack (tia)         |   | -0.1114 | 0.0807 | 0.2611 |
| <b>ebi-a-GCST007091</b>    | acute RITs | Osteoarthritis (hip)   |   | 0.0017  | 0.0047 | 0.7138 |
| <b>ukb-d-I9_ARTOTH</b>     | acute RITs | Other diseases of arteries and capillaries                                       |   | -0.0164 | 0.0084 | 0.0680 |
| <b>ukb-e-596_CSA</b>       | acute RITs | Other disorders of bladder   |   | -0.0001 | 0.0127 | 0.9946 |
| <b>ukb-e-569_AFR</b>       | acute RITs | Other disorders of intestine   |   | -0.0014 | 0.0063 | 0.8329 |

|                                 |            |   |         |        |        |
|---------------------------------|------------|---|---------|--------|--------|
| <b>ukb-e-306_CSA</b>            | acute RITs | Other mental disorder   | 0.0001  | 0.0072 | 0.9867 |
| <b>ukb-a-469</b>                | acute RITs | Pain type(s) experienced in last month: Headache                | -0.0054 | 0.0032 | 0.0968 |
| <b>ukb-b-18596</b>              | acute RITs | Pain type(s) experienced in last month: Neck or shoulder pain   | 0.0001  | 0.0051 | 0.9904 |
| <b>ukb-b-9130</b>               | acute RITs | Pain type(s) experienced in last month: None of the above       | 0.0046  | 0.0035 | 0.1910 |
| <b>ukb-d-M13_DUPUTRYEN</b>      | acute RITs | Palmar fascial fibromatosis [Dupuytren]                         | 0.0038  | 0.0021 | 0.0771 |
| <b>ebi-a-GCST90018897</b>       | acute RITs | Periodontal disease   | 0.0013  | 0.0054 | 0.8137 |
| <b>ebi-a-GCST90018679</b>       | acute RITs | Pleurisy  | -0.0018 | 0.0041 | 0.6705 |
| <b>ebi-a-GCST90018683</b>       | acute RITs | Pollinosis  | 0.0005  | 0.0089 | 0.9592 |
| <b>ebi-a-GCST005581</b>         | acute RITs | Primary biliary cirrhosis                                       | 0.0078  | 0.0039 | 0.0547 |
| <b>ebi-a-GCST90013954</b>       | acute RITs | Retinitis pigmentosa (SPA correction)                           | -0.0046 | 0.0134 | 0.7383 |
| <b>ebi-a-GCST005538</b>         | acute RITs | Sarcoidosis   | -0.0050 | 0.0097 | 0.6147 |
| <b>ukb-a-246</b>                | acute RITs | Seen doctor (GP) for nerves anxiety tension or depression       | -0.0001 | 0.0037 | 0.9861 |
| <b>ebi-a-GCST90000255</b>       | acute RITs | Severe COVID-19 infection with respiratory failure (analysis I) | -0.0019 | 0.0106 | 0.8612 |
| <b>ebi-a-GCST90026414</b>       | acute RITs | Severe insulin-resistant type 2 diabetes                        | 0.0013  | 0.0156 | 0.9362 |
| <b>ukb-d-L12_NONIONRADISKIN</b> | acute RITs | Skin changes due to chronic exposure to nonionizing radiation   | -0.0121 | 0.0063 | 0.0644 |
| <b>ebi-a-GCST003156</b>         | acute RITs | Systemic lupus erythematosus                                    | 0.0035  | 0.0024 | 0.1515 |
| <b>ebi-a-GCST90011866</b>       | acute RITs | Systemic lupus erythematosus                                    | 0.0052  | 0.0032 | 0.1045 |
| <b>ieu-a-815</b>                | acute RITs | Systemic lupus erythematosus                                    | -0.0161 | 0.0102 | 0.1532 |
| <b>bbj-a-153</b>                | acute RITs | Type 2 diabetes   | 0.0007  | 0.0016 | 0.6669 |
| <b>ebi-a-GCST90018706</b>       | acute RITs | Type 2 diabetes   | -0.0003 | 0.0017 | 0.8392 |
| <b>ebi-a-GCST003045</b>         | acute RITs | Ulcerative colitis  | 0.0027  | 0.0021 | 0.1968 |
| <b>ieu-a-968</b>                | acute RITs | Ulcerative colitis  | 0.0008  | 0.0022 | 0.7257 |
| <b>ieu-a-970</b>                | acute RITs | Ulcerative colitis  | 0.0023  | 0.0020 | 0.2542 |
| <b>ieu-b-5063</b>               | acute RITs | URTI  | 0.0087  | 0.0094 | 0.3694 |
| <b>ebi-a-GCST90018718</b>       | acute RITs | Uveitis   | 0.0106  | 0.0057 | 0.1602 |
| <b>ukb-e-20107_p11_CSA</b>      | acute RITs | Illnesses of father   | -0.0107 | 0.0085 | 0.2244 |
| <b>ukb-a-201</b>                | acute RITs | Illnesses of father: Heart disease                              | 0.0043  | 0.0037 | 0.2486 |
| <b>ukb-a-202</b>                | acute RITs | Illnesses of father: None of the above (group 1)                | 0.0049  | 0.0067 | 0.4726 |
| <b>ukb-b-15169</b>              | acute RITs | Illnesses of father: None of the above (group 1)                | -0.0051 | 0.0066 | 0.4494 |
| <b>ukb-b-10415</b>              | acute RITs | Illnesses of father: None of the above (group 2)                | 0.0063  | 0.0073 | 0.3923 |
| <b>ukb-b-4024</b>               | acute RITs | Illnesses of mother: Stroke                                     | 0.0062  | 0.0097 | 0.5316 |
| <b>ukb-b-18042</b>              | acute RITs | Illnesses of siblings: Diabetes                                 | -0.0006 | 0.0036 | 0.8771 |
| <b>ukb-b-10783</b>              | acute RITs | Illnesses of siblings: None of the above (group 2)              | 0.0015  | 0.0064 | 0.8192 |
| <b>ukb-a-304</b>                | acute RITs | Number of children fathered                                     | 0.0044  | 0.0073 | 0.5547 |
| <b>ebi-a-GCST006702</b>         | acute RITs | Parental longevity (combined parental age at death)             | 0.0006  | 0.0048 | 0.9076 |
| <b>ebi-a-GCST006699</b>         | acute RITs | Parental longevity (mother's age at death)                      | -0.0044 | 0.0057 | 0.4427 |

|                           |            |  |         |        |        |
|---------------------------|------------|--|---------|--------|--------|
| <b>ebi-a-GCST006696</b>   | acute RITs | Parental longevity (mother's attained age)                                     | 0.0061  | 0.0031 | 0.0543 |
| <b>prot-a-2235</b>        | acute RITs | [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 1, mitochondrial | -0.0093 | 0.0066 | 0.1884 |
| <b>prot-a-3251</b>        | acute RITs | 14-3-3 protein zeta/delta  | 0.0089  | 0.0110 | 0.4294 |
| <b>prot-a-1370</b>        | acute RITs | 15-hydroxyprostaglandin dehydrogenase [NAD(+)]                                 | 0.0060  | 0.0059 | 0.3211 |
| <b>prot-a-11</b>          | acute RITs | Acetyl-CoA carboxylase 2   | -0.0140 | 0.0090 | 0.1391 |
| <b>prot-a-105</b>         | acute RITs | Acidic leucine-rich nuclear phosphoprotein 32 family member B                  | -0.0052 | 0.0092 | 0.5770 |
| <b>prot-a-43</b>          | acute RITs | Adhesion G-protein coupled receptor F1   | -0.0157 | 0.0086 | 0.0848 |
| <b>prot-a-47</b>          | acute RITs | Alcohol dehydrogenase 4  | -0.0011 | 0.0088 | 0.9016 |
| <b>prot-a-1155</b>        | acute RITs | Alpha-(1,3)-fucosyltransferase 9   | 0.0113  | 0.0065 | 0.1055 |
| <b>ebi-a-GCST90006919</b> | acute RITs | Anti-herpes simplex virus 2 IgG seropositivity                                 | 0.0064  | 0.0092 | 0.4959 |
| <b>ebi-a-GCST90006921</b> | acute RITs | Anti-polyomavirus 2 IgG seropositivity   | -0.0067 | 0.0065 | 0.3191 |
| <b>prot-a-180</b>         | acute RITs | Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 2         | -0.0044 | 0.0052 | 0.4051 |
| <b>prot-a-204</b>         | acute RITs | Aurora kinase A  | 0.0008  | 0.0077 | 0.9169 |
| <b>ebi-a-GCST90001829</b> | acute RITs | BAFF-R on B cell   | 0.0043  | 0.0046 | 0.3695 |
| <b>ebi-a-GCST90001830</b> | acute RITs | BAFF-R on CD20- B cell   | 0.0192  | 0.0147 | 0.2618 |
| <b>ebi-a-GCST90001702</b> | acute RITs | BAFF-R on CD24+ CD27+ B cell   | 0.0024  | 0.0051 | 0.6444 |
| <b>ebi-a-GCST90001710</b> | acute RITs | BAFF-R on IgD- CD24- B cell  | 0.0013  | 0.0046 | 0.7868 |
| <b>ebi-a-GCST90001711</b> | acute RITs | BAFF-R on IgD- CD27- B cell  | 0.0049  | 0.0055 | 0.3982 |
| <b>ebi-a-GCST90001712</b> | acute RITs | BAFF-R on IgD- CD38- B cell  | 0.0045  | 0.0057 | 0.4482 |
| <b>ebi-a-GCST90001713</b> | acute RITs | BAFF-R on IgD- CD38+ B cell  | 0.0069  | 0.0070 | 0.3488 |
| <b>ebi-a-GCST90001719</b> | acute RITs | BAFF-R on IgD+ B cell  | 0.0006  | 0.0041 | 0.8883 |
| <b>ebi-a-GCST90001704</b> | acute RITs | BAFF-R on IgD+ CD24- B cell  | -0.0006 | 0.0042 | 0.8904 |
| <b>ebi-a-GCST90001703</b> | acute RITs | BAFF-R on IgD+ CD24+ B cell  | 0.0068  | 0.0052 | 0.2179 |
| <b>ebi-a-GCST90001705</b> | acute RITs | BAFF-R on IgD+ CD38- B cell  | 0.0002  | 0.0040 | 0.9596 |
| <b>ebi-a-GCST90001708</b> | acute RITs | BAFF-R on IgD+ CD38+ B cell  | -0.0028 | 0.0045 | 0.5328 |
| <b>ebi-a-GCST90001709</b> | acute RITs | BAFF-R on IgD+ CD38dim B cell  | 0.0017  | 0.0050 | 0.7474 |
| <b>ebi-a-GCST90001715</b> | acute RITs | BAFF-R on memory B cell  | 0.0041  | 0.0055 | 0.4811 |
| <b>ebi-a-GCST90001716</b> | acute RITs | BAFF-R on naive-mature B cell  | 0.0039  | 0.0046 | 0.4117 |
| <b>ebi-a-GCST90001718</b> | acute RITs | BAFF-R on switched memory B cell   | 0.0050  | 0.0059 | 0.4111 |
| <b>ebi-a-GCST90001720</b> | acute RITs | BAFF-R on transitional B cell  | -0.0013 | 0.0050 | 0.8016 |
| <b>ebi-a-GCST90001717</b> | acute RITs | BAFF-R on unswitched memory B cell   | 0.0048  | 0.0045 | 0.3004 |
| <b>prot-a-231</b>         | acute RITs | Basal Cell Adhesion Molecule   | -0.0083 | 0.0089 | 0.3587 |
| <b>prot-a-218</b>         | acute RITs | Beta-1,4-galactosyltransferase 3   | -0.0075 | 0.0162 | 0.6555 |
| <b>prot-a-800</b>         | acute RITs | Beta-defensin 128  | 0.0007  | 0.0105 | 0.9453 |
| <b>prot-a-801</b>         | acute RITs | Beta-defensin 134  | -0.0139 | 0.0086 | 0.1222 |
| <b>prot-a-1396</b>        | acute RITs | Bone sialoprotein 2  | 0.0062  | 0.0093 | 0.5141 |

|                           |            |  |         |        |        |
|---------------------------|------------|--|---------|--------|--------|
| <b>prot-a-2391</b>        | acute RITs | Brain-specific serine protease 4                                     | -0.0093 | 0.0079 | 0.2598 |
| <b>prot-a-232</b>         | acute RITs | Brevican core protein  | -0.0082 | 0.0134 | 0.5475 |
| <b>prot-a-2947</b>        | acute RITs | Calcineurin B homologous protein 3                                   | 0.0205  | 0.0127 | 0.1310 |
| <b>prot-a-2509</b>        | acute RITs | Calcipressin-1   | -0.0034 | 0.0109 | 0.7612 |
| <b>prot-a-347</b>         | acute RITs | Calcium/calmodulin-dependent protein kinase type 1D                  | -0.0122 | 0.0086 | 0.1726 |
| <b>prot-a-2290</b>        | acute RITs | Calcium-dependent phospholipase A2                                   | -0.0085 | 0.0105 | 0.4274 |
| <b>prot-a-557</b>         | acute RITs | Carbohydrate sulfotransferase 5                                      | -0.0048 | 0.0094 | 0.6160 |
| <b>prot-a-332</b>         | acute RITs | Carbonic anhydrase 5A, mitochondrial                                 | -0.0151 | 0.0109 | 0.1904 |
| <b>prot-a-327</b>         | acute RITs | Carbonic anhydrase-related protein 10                                | -0.0164 | 0.0081 | 0.0578 |
| <b>prot-a-649</b>         | acute RITs | Carboxypeptidase Z   | 0.0084  | 0.0122 | 0.5010 |
| <b>prot-a-697</b>         | acute RITs | Casein kinase II 2-alpha:2-beta heterotetramer                       | 0.0011  | 0.0092 | 0.9085 |
| <b>prot-a-721</b>         | acute RITs | Cathepsin F  | -0.0004 | 0.0105 | 0.9677 |
| <b>prot-a-723</b>         | acute RITs | Cathepsin G  | -0.0113 | 0.0086 | 0.2066 |
| <b>prot-a-724</b>         | acute RITs | Cathepsin H  | -0.0031 | 0.0076 | 0.6844 |
| <b>prot-a-728</b>         | acute RITs | Cathepsin L2   | 0.0124  | 0.0089 | 0.1790 |
| <b>prot-a-368</b>         | acute RITs | Caveolin-2   | -0.0013 | 0.0130 | 0.9201 |
| <b>prot-a-398</b>         | acute RITs | C-C motif chemokine 22   | 0.0146  | 0.0088 | 0.1137 |
| <b>prot-a-409</b>         | acute RITs | C-C motif chemokine 5  | 0.0009  | 0.0081 | 0.9093 |
| <b>ebi-a-GCST90001449</b> | acute RITs | CD11c+ monocyte %monocyte  | 0.0144  | 0.0069 | 0.0564 |
| <b>ebi-a-GCST90001748</b> | acute RITs | CD20 on IgD+ CD38- B cell  | 0.0149  | 0.0083 | 0.0864 |
| <b>ebi-a-GCST90001751</b> | acute RITs | CD20 on IgD+ CD38+ B cell  | 0.0023  | 0.0045 | 0.6173 |
| <b>ebi-a-GCST90001760</b> | acute RITs | CD20 on unswitched memory B cell                                     | 0.0108  | 0.0091 | 0.2522 |
| <b>ebi-a-GCST90001760</b> | acute RITs | CD20 on unswitched memory B cell                                     | 0.0108  | 0.0091 | 0.2522 |
| <b>ebi-a-GCST90001910</b> | acute RITs | CD45 on B cell   | -0.0095 | 0.0046 | 0.0590 |
| <b>prot-a-3080</b>        | acute RITs | Cellular tumor antigen p53   | -0.0132 | 0.0137 | 0.3504 |
| <b>prot-a-432</b>         | acute RITs | CMRF35-like molecule 8   | 0.0012  | 0.0052 | 0.8229 |
| <b>prot-a-303</b>         | acute RITs | Complement C1q tumor necrosis factor-related protein 1               | 0.0083  | 0.0056 | 0.1558 |
| <b>prot-a-303</b>         | acute RITs | Complement C1q tumor necrosis factor-related protein 1               | 0.0083  | 0.0056 | 0.1558 |
| <b>prot-a-300</b>         | acute RITs | Complement component 1 Q subcomponent-binding protein, mitochondrial | 0.0169  | 0.0093 | 0.0821 |
| <b>ebi-a-GCST90019439</b> | acute RITs | Complement factor B measurement                                      | 0.0004  | 0.0038 | 0.9091 |
| <b>bbj-a-14</b>           | acute RITs | C-reactive protein   | -0.0010 | 0.0024 | 0.6846 |
| <b>ieu-a-1015</b>         | acute RITs | C-reactive protein   | -0.0009 | 0.0116 | 0.9400 |
| <b>prot-a-670</b>         | acute RITs | C-reactive protein   | -0.0047 | 0.0117 | 0.6919 |
| <b>ieu-b-35</b>           | acute RITs | C-Reactive protein level   | -0.0009 | 0.0013 | 0.5106 |
| <b>ebi-a-GCST90025959</b> | acute RITs | C-reactive protein levels  | 0.0001  | 0.0010 | 0.9362 |
| <b>prot-a-579</b>         | acute RITs | C-type lectin domain family 5 member A                               | 0.0046  | 0.0055 | 0.4145 |

|                           |            |   |         |        |        |
|---------------------------|------------|---|---------|--------|--------|
| <b>ebi-a-GCST90002012</b> | acute RITs | CX3CR1 on CD14- CD16+ monocyte            | 0.0085  | 0.0045 | 0.0757 |
| <b>ebi-a-GCST90001997</b> | acute RITs | CX3CR1 on CD14+ CD16- monocyte            | 0.0035  | 0.0055 | 0.5340 |
| <b>ebi-a-GCST90001995</b> | acute RITs | CX3CR1 on monocyte                        | 0.0067  | 0.0079 | 0.4040 |
| <b>prot-a-3175</b>        | acute RITs | Cytochrome b-c1 complex subunit 7         | -0.0026 | 0.0107 | 0.8085 |
| <b>prot-a-1086</b>        | acute RITs | D-dimer                                   | 0.0037  | 0.0127 | 0.7765 |
| <b>prot-a-813</b>         | acute RITs | Desert hedgehog protein N-product         | 0.0044  | 0.0122 | 0.7229 |
| <b>prot-a-824</b>         | acute RITs | Dickkopf-like protein 1                   | -0.0015 | 0.0121 | 0.9050 |
| <b>prot-a-586</b>         | acute RITs | Dual specificity protein kinase CLK2      | -0.0131 | 0.0074 | 0.0933 |
| <b>prot-a-2179</b>        | acute RITs | E3 ubiquitin-protein ligase parkin        | 0.0107  | 0.0104 | 0.3176 |
| <b>prot-a-2528</b>        | acute RITs | E3 ubiquitin-protein ligase riffylin      | 0.0216  | 0.0170 | 0.2297 |
| <b>prot-a-3278</b>        | acute RITs | E3 ubiquitin-protein ligase ZNRF3         | 0.0147  | 0.0163 | 0.3879 |
| <b>prot-a-984</b>         | acute RITs | Endoplasmic reticulum resident protein 29 | -0.0131 | 0.0096 | 0.1960 |
| <b>prot-a-902</b>         | acute RITs | Ephrin-B1                                 | -0.0015 | 0.0102 | 0.8866 |
| <b>prot-a-907</b>         | acute RITs | Ephrin-B3                                 | -0.0166 | 0.0112 | 0.1660 |
| <b>prot-a-2071</b>        | acute RITs | Epididymal secretory protein E1           | 0.0014  | 0.0048 | 0.7780 |
| <b>prot-a-1835</b>        | acute RITs | Epididymis-specific alpha-mannosidase     | -0.0010 | 0.0088 | 0.9089 |
| <b>prot-a-977</b>         | acute RITs | Epiregulin                                | -0.0197 | 0.0100 | 0.0643 |
| <b>prot-a-308</b>         | acute RITs | ES1 protein homolog, mitochondrial        | 0.0147  | 0.0092 | 0.1249 |
| <b>prot-a-2892</b>        | acute RITs | Estrogen sulfotransferase                 | 0.0089  | 0.0066 | 0.1918 |
| <b>prot-a-1001</b>        | acute RITs | Exosome complex component CSL4            | -0.0030 | 0.0098 | 0.7602 |
| <b>prot-a-1003</b>        | acute RITs | Exostosin-like 2                          | -0.0090 | 0.0098 | 0.3708 |
| <b>prot-a-1019</b>        | acute RITs | Fas apoptotic inhibitory molecule 3       | -0.0036 | 0.0083 | 0.6680 |
| <b>prot-a-1102</b>        | acute RITs | Fibroblast growth factor receptor 2       | -0.0010 | 0.0086 | 0.9124 |
| <b>prot-a-1117</b>        | acute RITs | Filamin-A                                 | 0.0001  | 0.0125 | 0.9932 |
| <b>prot-a-567</b>         | acute RITs | Galectin-10                               | 0.0169  | 0.0083 | 0.0549 |
| <b>prot-a-1295</b>        | acute RITs | Glucoside xylosyltransferase 1            | -0.0033 | 0.0057 | 0.5727 |
| <b>prot-a-1285</b>        | acute RITs | Glutathione S-transferase A4              | -0.0139 | 0.0087 | 0.1235 |
| <b>ebi-a-GCST90002248</b> | acute RITs | Glycated hemoglobin levels                | -0.0012 | 0.0044 | 0.7848 |
| <b>prot-a-1046</b>        | acute RITs | Glycosaminoglycan xylosylkinase           | -0.0012 | 0.0080 | 0.8868 |
| <b>prot-a-1277</b>        | acute RITs | Granulins                                 | 0.0053  | 0.0041 | 0.2056 |
| <b>prot-a-1268</b>        | acute RITs | GRB2-related adapter protein              | 0.0069  | 0.0123 | 0.5874 |
| <b>prot-a-747</b>         | acute RITs | Gro-beta/gamma                            | -0.0246 | 0.0117 | 0.0540 |
| <b>prot-b-55</b>          | acute RITs | growth differentiation factor 15          | 0.0124  | 0.0088 | 0.1789 |
| <b>prot-a-1272</b>        | acute RITs | Growth factor receptor-bound protein 7    | -0.0150 | 0.0075 | 0.0588 |
| <b>prot-a-1196</b>        | acute RITs | Growth/differentiation factor 5           | -0.0024 | 0.0041 | 0.5669 |
| <b>prot-a-1197</b>        | acute RITs | Growth/differentiation factor 9           | -0.0002 | 0.0132 | 0.9882 |

|                           |            |   |         |        |        |
|---------------------------|------------|---|---------|--------|--------|
| <b>prot-a-1199</b>        | acute RITs | GTP-binding protein GEM   | -0.0012 | 0.0040 | 0.7641 |
| <b>prot-a-1178</b>        | acute RITs | Guanylate-binding protein 6   | -0.0111 | 0.0095 | 0.2605 |
| <b>prot-a-1387</b>        | acute RITs | Heat shock 70 kDa protein 1-like                                    | -0.0154 | 0.0077 | 0.0716 |
| <b>prot-a-1310</b>        | acute RITs | Hepatitis A virus cellular receptor 1                               | 0.0026  | 0.0066 | 0.6976 |
| <b>prot-a-1366</b>        | acute RITs | Heterogeneous nuclear ribonucleoprotein K                           | 0.0013  | 0.0105 | 0.9044 |
| <b>prot-a-2224</b>        | acute RITs | High affinity cGMP-specific 3',5'-cyclic phosphodiesterase 9A       | 0.0096  | 0.0096 | 0.3276 |
| <b>prot-a-2121</b>        | acute RITs | High affinity nerve growth factor receptor                          | -0.0075 | 0.0153 | 0.6338 |
| <b>prot-a-1338</b>        | acute RITs | Histidine triad nucleotide-binding protein 1                        | -0.0049 | 0.0125 | 0.7018 |
| <b>prot-a-1607</b>        | acute RITs | Histone acetyltransferase KAT6A                                     | -0.0177 | 0.0103 | 0.1139 |
| <b>prot-a-1304</b>        | acute RITs | Histone H2A.z   | 0.0279  | 0.0137 | 0.0630 |
| <b>ebi-a-GCST90002116</b> | acute RITs | HLA DR on B cell  | 0.0006  | 0.0060 | 0.9238 |
| <b>prot-a-1393</b>        | acute RITs | Hyaluronidase-1   | 0.0027  | 0.0114 | 0.8140 |
| <b>prot-a-1071</b>        | acute RITs | Immunoglobulin alpha Fc receptor                                    | 0.0274  | 0.0122 | 0.0662 |
| <b>prot-a-1576</b>        | acute RITs | Immunoglobulin superfamily containing leucine-rich repeat protein 2 | 0.0049  | 0.0064 | 0.4546 |
| <b>prot-a-2141</b>        | acute RITs | Inositol polyphosphate 5-phosphatase OCRL-1                         | -0.0031 | 0.0078 | 0.6970 |
| <b>prot-a-1593</b>        | acute RITs | Inositol-trisphosphate 3-kinase A                                   | -0.0115 | 0.0115 | 0.3423 |
| <b>prot-a-1435</b>        | acute RITs | Interferon lambda-1   | -0.0101 | 0.0130 | 0.4530 |
| <b>prot-a-1547</b>        | acute RITs | Interleukin enhancer-binding factor 3                               | 0.0248  | 0.0120 | 0.0619 |
| <b>ebi-a-GCST004444</b>   | acute RITs | Interleukin-10 levels   | -0.0037 | 0.0055 | 0.5193 |
| <b>prot-a-1479</b>        | acute RITs | Interleukin-16  | -0.0061 | 0.0058 | 0.3068 |
| <b>ebi-a-GCST004448</b>   | acute RITs | Interleukin-1-beta levels   | 0.0060  | 0.0169 | 0.7447 |
| <b>prot-a-1517</b>        | acute RITs | Interleukin-27 receptor subunit alpha                               | 0.0031  | 0.0083 | 0.7139 |
| <b>prot-a-1524</b>        | acute RITs | Interleukin-34  | -0.0067 | 0.0083 | 0.4258 |
| <b>prot-a-1528</b>        | acute RITs | Interleukin-36 gamma  | 0.0067  | 0.0099 | 0.5050 |
| <b>prot-a-1533</b>        | acute RITs | Interleukin-4 receptor subunit alpha                                | 0.0085  | 0.0100 | 0.4121 |
| <b>prot-a-1535</b>        | acute RITs | Interleukin-5   | 0.0054  | 0.0097 | 0.5878 |
| <b>prot-a-1544</b>        | acute RITs | Interleukin-7 receptor subunit alpha                                | 0.0036  | 0.0072 | 0.6232 |
| <b>prot-a-1595</b>        | acute RITs | Intersectin-1   | -0.0140 | 0.0113 | 0.2315 |
| <b>prot-a-81</b>          | acute RITs | Intestinal-type alkaline phosphatase                                | 0.0091  | 0.0101 | 0.3822 |
| <b>ebi-a-GCST90012012</b> | acute RITs | kallikrein-11 levels  | -0.0044 | 0.0035 | 0.2232 |
| <b>prot-a-1664</b>        | acute RITs | Kallikrein-5  | -0.0013 | 0.0129 | 0.9235 |
| <b>prot-a-1640</b>        | acute RITs | Killer cell immunoglobulin-like receptor 2DL2                       | -0.0112 | 0.0063 | 0.0961 |
| <b>prot-a-1635</b>        | acute RITs | Kinesin-like protein KIF16B   | -0.0112 | 0.0076 | 0.1561 |
| <b>prot-b-20</b>          | acute RITs | KIT ligand  | 0.0005  | 0.0044 | 0.9170 |
| <b>prot-a-2825</b>        | acute RITs | Kunitz-type protease inhibitor 3                                    | -0.0033 | 0.0055 | 0.5571 |
| <b>prot-a-2825</b>        | acute RITs | Kunitz-type protease inhibitor 3                                    | -0.0033 | 0.0055 | 0.5571 |

|                           |            |  |         |        |        |
|---------------------------|------------|--|---------|--------|--------|
| <b>prot-a-1714</b>        | acute RITs | Lactase-like protein   | 0.0000  | 0.0145 | 0.9983 |
| <b>prot-a-1797</b>        | acute RITs | Leucine-rich repeat transmembrane neuronal protein 4   | 0.0193  | 0.0095 | 0.0579 |
| <b>prot-a-1076</b>        | acute RITs | Low affinity immunoglobulin gamma Fc region receptor III-B   | 0.0028  | 0.0063 | 0.6602 |
| <b>prot-a-2666</b>        | acute RITs | L-Selectin   | 0.0025  | 0.0046 | 0.5970 |
| <b>prot-a-2666</b>        | acute RITs | L-Selectin   | 0.0025  | 0.0046 | 0.5970 |
| <b>prot-a-1735</b>        | acute RITs | Lutropin subunit beta  | 0.0019  | 0.0079 | 0.8170 |
| <b>prot-a-454</b>         | acute RITs | Lymphocyte function-associated antigen 3   | -0.0055 | 0.0149 | 0.7219 |
| <b>prot-a-3236</b>        | acute RITs | Lymphotactin   | 0.0138  | 0.0074 | 0.0837 |
| <b>prot-a-1912</b>        | acute RITs | Macrophage metalloelastase   | -0.0054 | 0.0063 | 0.4079 |
| <b>prot-a-1931</b>        | acute RITs | MAGUK p55 subfamily member 6   | -0.0066 | 0.0107 | 0.5455 |
| <b>prot-a-1854</b>        | acute RITs | MAP kinase-activated protein kinase 5  | -0.0028 | 0.0049 | 0.5714 |
| <b>prot-a-1916</b>        | acute RITs | Matrix metalloproteinase-16  | -0.0081 | 0.0098 | 0.4258 |
| <b>prot-a-1896</b>        | acute RITs | Melanoma-derived growth regulatory protein   | 0.0024  | 0.0037 | 0.5246 |
| <b>prot-a-1908</b>        | acute RITs | Membrane metallo-endopeptidase-like 1  | 0.0113  | 0.0081 | 0.1777 |
| <b>ebi-a-GCST90006924</b> | acute RITs | Merkel cell polyomavirus VP1 antibody levels   | 0.0004  | 0.0093 | 0.9677 |
| <b>prot-a-1052</b>        | acute RITs | MIP18 family protein FAM96A  | -0.0038 | 0.0127 | 0.7719 |
| <b>prot-a-5</b>           | acute RITs | Monoacylglycerol lipase ABHD12   | 0.0059  | 0.0092 | 0.5327 |
| <b>prot-b-75</b>          | acute RITs | mucin 16, cell surface associated  | 0.0083  | 0.0079 | 0.3180 |
| <b>prot-b-75</b>          | acute RITs | mucin 16, cell surface associated  | 0.0083  | 0.0079 | 0.3180 |
| <b>prot-a-1967</b>        | acute RITs | Mucin-1  | -0.0042 | 0.0059 | 0.4854 |
| <b>prot-a-1995</b>        | acute RITs | N-acetyl-D-glucosamine kinase  | -0.0001 | 0.0064 | 0.9830 |
| <b>prot-a-2057</b>        | acute RITs | NACHT, LRR and PYD domains-containing protein 4  | 0.0160  | 0.0145 | 0.2866 |
| <b>prot-a-2026</b>        | acute RITs | NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial  | 0.0010  | 0.0162 | 0.9530 |
| <b>prot-a-2081</b>        | acute RITs | Neuronal pentraxin-2   | -0.0208 | 0.0100 | 0.0551 |
| <b>prot-a-345</b>         | acute RITs | Neuron-specific vesicular protein calcyon  | -0.0021 | 0.0092 | 0.8236 |
| <b>prot-a-2099</b>        | acute RITs | Neuropilin-1   | 0.0150  | 0.0085 | 0.0901 |
| <b>prot-a-2050</b>        | acute RITs | Nidogen-2  | 0.0007  | 0.0069 | 0.9175 |
| <b>prot-a-1674</b>        | acute RITs | NKG2-D type II integral membrane protein   | 0.0061  | 0.0102 | 0.5575 |
| <b>prot-a-1872</b>        | acute RITs | Nuclear protein MDM1   | -0.0011 | 0.0138 | 0.9377 |
| <b>prot-a-2086</b>        | acute RITs | Nuclear receptor subfamily 1 group D member 2  | 0.0158  | 0.0086 | 0.0820 |
| <b>prot-a-2093</b>        | acute RITs | Nuclear receptor-binding protein   | -0.0039 | 0.0076 | 0.6146 |
| <b>prot-a-2150</b>        | acute RITs | Oligophrenin-1   | -0.0098 | 0.0096 | 0.3170 |
| <b>prot-a-2155</b>        | acute RITs | Oncostatin-M   | -0.0163 | 0.0085 | 0.0702 |
| <b>prot-a-2272</b>        | acute RITs | Paired immunoglobulin-like type 2 receptor alpha   | 0.0075  | 0.0121 | 0.5426 |
| <b>prot-a-2344</b>        | acute RITs | Peptidyl-prolyl cis-trans isomerase-like 2   | -0.0073 | 0.0116 | 0.5373 |
| <b>prot-a-2425</b>        | acute RITs | Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN | 0.0010  | 0.0091 | 0.9115 |

|                    |            |   |         |        |        |
|--------------------|------------|---|---------|--------|--------|
| <b>prot-a-2294</b> | acute RITs | Phospholipase B-like 1  | 0.0012  | 0.0115 | 0.9204 |
| <b>prot-a-2698</b> | acute RITs | Pigment epithelium-derived factor                                     | -0.0003 | 0.0063 | 0.9606 |
| <b>prot-a-2299</b> | acute RITs | Pleckstrin homology domain-containing family A member 1               | -0.0026 | 0.0096 | 0.7933 |
| <b>prot-a-1171</b> | acute RITs | Polypeptide N-acetylgalactosaminyltransferase 2                       | 0.0000  | 0.0116 | 0.9984 |
| <b>prot-a-1613</b> | acute RITs | Potassium voltage-gated channel subfamily E regulatory beta subunit 5 | 0.0005  | 0.0087 | 0.9554 |
| <b>prot-a-1615</b> | acute RITs | Potassium voltage-gated channel subfamily G member 4                  | -0.0121 | 0.0098 | 0.2313 |
| <b>prot-a-2209</b> | acute RITs | Procollagen C-endopeptidase enhancer 1                                | 0.0167  | 0.0081 | 0.0535 |
| <b>prot-a-2409</b> | acute RITs | Proteasome subunit alpha type-1                                       | 0.0026  | 0.0115 | 0.8237 |
| <b>prot-a-827</b>  | acute RITs | Protein delta homolog 1   | 0.0096  | 0.0060 | 0.1281 |
| <b>prot-a-810</b>  | acute RITs | Protein DGCR6   | -0.0209 | 0.0104 | 0.0583 |
| <b>prot-a-2232</b> | acute RITs | Protein disulfide-isomerase A3  | 0.0037  | 0.0093 | 0.6953 |
| <b>prot-a-2233</b> | acute RITs | Protein disulfide-isomerase A5  | 0.0032  | 0.0062 | 0.6093 |
| <b>prot-a-1027</b> | acute RITs | Protein FAM163A   | 0.0006  | 0.0070 | 0.9283 |
| <b>prot-a-1049</b> | acute RITs | Protein FAM3B   | 0.0060  | 0.0089 | 0.5133 |
| <b>prot-a-2619</b> | acute RITs | Protein S100-A5   | -0.0041 | 0.0050 | 0.4205 |
| <b>prot-a-3093</b> | acute RITs | Protein-tyrosine sulfotransferase 2                                   | 0.0004  | 0.0086 | 0.9600 |
| <b>prot-a-3093</b> | acute RITs | Protein-tyrosine sulfotransferase 2                                   | 0.0004  | 0.0086 | 0.9600 |
| <b>prot-a-2203</b> | acute RITs | Protocadherin beta-1  | -0.0160 | 0.0085 | 0.0769 |
| <b>prot-a-2207</b> | acute RITs | Protocadherin gamma-C5  | 0.0161  | 0.0093 | 0.0983 |
| <b>prot-a-2191</b> | acute RITs | Pterin-4-alpha-carbinolamine dehydratase                              | 0.0045  | 0.0094 | 0.6369 |
| <b>prot-a-2711</b> | acute RITs | Pulmonary surfactant-associated protein C                             | -0.0060 | 0.0064 | 0.3593 |
| <b>prot-a-2477</b> | acute RITs | Ras-related protein Rab-39B   | -0.0004 | 0.0106 | 0.9694 |
| <b>prot-a-2444</b> | acute RITs | Receptor-type tyrosine-protein phosphatase H                          | 0.0146  | 0.0083 | 0.0977 |
| <b>prot-a-2524</b> | acute RITs | Resistin  | 0.0034  | 0.0075 | 0.6523 |
| <b>prot-a-2497</b> | acute RITs | Retinoblastoma-binding protein 5                                      | -0.0123 | 0.0126 | 0.3505 |
| <b>prot-a-2602</b> | acute RITs | Ribonucleoside-diphosphate reductase subunit M2 B                     | -0.0139 | 0.0141 | 0.3434 |
| <b>prot-a-1945</b> | acute RITs | Ribosome-recycling factor, mitochondrial                              | 0.0082  | 0.0076 | 0.2944 |
| <b>prot-a-2584</b> | acute RITs | Ribulose-phosphate 3-epimerase  | 0.0053  | 0.0114 | 0.6516 |
| <b>prot-a-2569</b> | acute RITs | RING finger protein 215   | -0.0148 | 0.0081 | 0.0874 |
| <b>prot-a-2575</b> | acute RITs | rRNA methyltransferase 3, mitochondrial                               | -0.0070 | 0.0044 | 0.1270 |
| <b>prot-a-2641</b> | acute RITs | Scavenger receptor class F member 2                                   | 0.0071  | 0.0095 | 0.4683 |
| <b>prot-a-2642</b> | acute RITs | Scavenger receptor class F member 2                                   | -0.0011 | 0.0086 | 0.9022 |
| <b>prot-a-2709</b> | acute RITs | Secreted frizzled-related protein 1                                   | 0.0050  | 0.0102 | 0.6321 |
| <b>prot-a-2669</b> | acute RITs | Semaphorin-3A   | -0.0108 | 0.0066 | 0.1180 |
| <b>prot-a-2671</b> | acute RITs | Semaphorin-3C   | 0.0112  | 0.0119 | 0.3689 |
| <b>prot-a-2838</b> | acute RITs | Serine/arginine-rich splicing factor 6                                | -0.0204 | 0.0115 | 0.1049 |

|                           |            |  |         |        |        |
|---------------------------|------------|--|---------|--------|--------|
| <b>prot-a-2170</b>        | acute RITs | Serine/threonine-protein kinase PAK 4                                  | 0.0042  | 0.0108 | 0.7050 |
| <b>prot-a-2690</b>        | acute RITs | Serpin A12   | -0.0042 | 0.0092 | 0.6477 |
| <b>prot-a-2730</b>        | acute RITs | Sialic acid-binding Ig-like lectin 8                                   | -0.0004 | 0.0060 | 0.9484 |
| <b>prot-a-2655</b>        | acute RITs | Signal peptide, CUB and EGF-like domain-containing protein 1           | -0.0059 | 0.0153 | 0.7070 |
| <b>prot-a-2775</b>        | acute RITs | Single-pass membrane and coiled-coil domain-containing protein 2       | 0.0023  | 0.0112 | 0.8390 |
| <b>prot-a-2714</b>        | acute RITs | Small glutamine-rich tetratricopeptide repeat-containing protein alpha | 0.0081  | 0.0093 | 0.3937 |
| <b>prot-a-2763</b>        | acute RITs | Sodium- and chloride-dependent glycine transporter 1                   | 0.0280  | 0.0148 | 0.0849 |
| <b>prot-a-200</b>         | acute RITs | Sodium/potassium-transporting ATPase subunit beta-2                    | 0.0061  | 0.0087 | 0.4941 |
| <b>prot-a-352</b>         | acute RITs | Soluble calcium-activated nucleotidase 1                               | -0.0155 | 0.0100 | 0.1411 |
| <b>prot-a-2795</b>        | acute RITs | Sorting nexin-7  | -0.0080 | 0.0080 | 0.3320 |
| <b>prot-a-2804</b>        | acute RITs | Sperm acrosome membrane-associated protein 3                           | 0.0120  | 0.0073 | 0.1183 |
| <b>prot-b-68</b>          | acute RITs | spondin 1  | 0.0051  | 0.0066 | 0.5218 |
| <b>ebi-a-GCST90002074</b> | acute RITs | SSC-A on CD14+ monocyte  | -0.0032 | 0.0046 | 0.4877 |
| <b>ebi-a-GCST90002081</b> | acute RITs | SSC-A on CD4+ T cell   | -0.0100 | 0.0083 | 0.2463 |
| <b>ebi-a-GCST90002079</b> | acute RITs | SSC-A on lymphocyte  | -0.0303 | 0.0176 | 0.1059 |
| <b>ebi-a-GCST90019393</b> | acute RITs | Stromal cell-derived factor 2 measurement                              | -0.0113 | 0.0055 | 0.0597 |
| <b>prot-a-2468</b>        | acute RITs | Sulfhydryl oxidase 1   | -0.0017 | 0.0100 | 0.8660 |
| <b>prot-a-2894</b>        | acute RITs | Sulfotransferase 4A1   | 0.0058  | 0.0101 | 0.5752 |
| <b>prot-a-2901</b>        | acute RITs | Sushi domain-containing protein 1                                      | 0.0111  | 0.0098 | 0.2708 |
| <b>prot-a-2885</b>        | acute RITs | Syntaxin-1A  | 0.0132  | 0.0075 | 0.0945 |
| <b>prot-a-2933</b>        | acute RITs | TATA-box-binding protein   | 0.0064  | 0.0134 | 0.6370 |
| <b>prot-a-3068</b>        | acute RITs | Tenascin-R   | 0.0044  | 0.0080 | 0.5895 |
| <b>prot-a-3084</b>        | acute RITs | Thiamin pyrophosphokinase 1  | -0.0104 | 0.0101 | 0.3210 |
| <b>prot-a-3102</b>        | acute RITs | Thyrotropin-releasing hormone  | -0.0023 | 0.0098 | 0.8164 |
| <b>prot-a-3076</b>        | acute RITs | Torsin-1A-interacting protein 1  | -0.0081 | 0.0063 | 0.2198 |
| <b>prot-a-3115</b>        | acute RITs | TPA-induced transmembrane protein                                      | -0.0087 | 0.0148 | 0.5700 |
| <b>prot-a-2963</b>        | acute RITs | Transforming growth factor beta-1-induced transcript 1 protein         | 0.0070  | 0.0147 | 0.6371 |
| <b>prot-a-918</b>         | acute RITs | Translation initiation factor eIF-2B subunit alpha                     | -0.0099 | 0.0109 | 0.3806 |
| <b>prot-a-2844</b>        | acute RITs | Translocon-associated protein subunit alpha                            | -0.0210 | 0.0105 | 0.0682 |
| <b>prot-a-2992</b>        | acute RITs | Transmembrane and coiled-coil domain-containing protein 5A             | -0.0180 | 0.0099 | 0.0807 |
| <b>prot-a-2993</b>        | acute RITs | Transmembrane emp24 domain-containing protein 10                       | 0.0095  | 0.0053 | 0.0936 |
| <b>prot-a-285</b>         | acute RITs | Transmembrane protein C16orf54   | 0.0000  | 0.0096 | 0.9997 |
| <b>prot-a-1883</b>        | acute RITs | tRNA (guanine-N(7)-)-methyltransferase                                 | -0.0027 | 0.0107 | 0.8067 |
| <b>prot-a-3029</b>        | acute RITs | Tumor necrosis factor  | 0.0186  | 0.0100 | 0.0844 |
| <b>prot-a-3059</b>        | acute RITs | Tumor necrosis factor ligand superfamily member 15                     | 0.0003  | 0.0084 | 0.9706 |
| <b>prot-a-3128</b>        | acute RITs | TYMS opposite strand protein   | 0.0006  | 0.0139 | 0.9658 |

|                             |            |  |         |        |        |
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| <b>prot-a-3129</b>          | acute RITs | Tyrosine-protein kinase receptor TYRO3   | 0.0158  | 0.0089 | 0.0921 |
| <b>prot-a-2582</b>          | acute RITs | Tyrosine-protein kinase transmembrane receptor ROR2  | 0.0172  | 0.0093 | 0.0773 |
| <b>prot-a-598</b>           | acute RITs | UMP-CMP kinase   | 0.0143  | 0.0103 | 0.1859 |
| <b>prot-a-295</b>           | acute RITs | Uncharacterized protein C1orf115   | -0.0036 | 0.0095 | 0.7086 |
| <b>prot-a-311</b>           | acute RITs | Uncharacterized protein C2orf66  | 0.0140  | 0.0070 | 0.0628 |
| <b>prot-a-3155</b>          | acute RITs | UTP--glucose-1-phosphate uridylyltransferase   | -0.0002 | 0.0133 | 0.9873 |
| <b>prot-a-3197</b>          | acute RITs | Vascular endothelial growth factor A, isoform 121  | -0.0059 | 0.0041 | 0.1733 |
| <b>prot-a-3197</b>          | acute RITs | Vascular endothelial growth factor A, isoform 121  | -0.0059 | 0.0041 | 0.1733 |
| <b>ebi-a-GCST004422</b>     | acute RITs | Vascular endothelial growth factor levels  | -0.0042 | 0.0051 | 0.4286 |
| <b>ebi-a-GCST90011995</b>   | acute RITs | Vascular endothelial growth factor levels  | -0.0059 | 0.0037 | 0.1337 |
| <b>ebi-a-GCST90011995</b>   | acute RITs | Vascular endothelial growth factor levels  | -0.0059 | 0.0037 | 0.1337 |
| <b>ebi-a-GCST90011995</b>   | acute RITs | Vascular endothelial growth factor levels  | -0.0059 | 0.0037 | 0.1337 |
| <b>prot-a-3212</b>          | acute RITs | Vesicle transport through interaction with t-SNAREs homolog 1A   | 0.0011  | 0.0099 | 0.9168 |
| <b>prot-a-1179</b>          | acute RITs | Vitamin D-binding protein  | -0.0032 | 0.0123 | 0.7948 |
| <b>prot-a-3230</b>          | acute RITs | Wnt inhibitory factor 1  | 0.0127  | 0.0104 | 0.2391 |
| <b>prot-a-3231</b>          | acute RITs | WNT1-inducible-signaling pathway protein 1   | -0.0090 | 0.0048 | 0.0775 |
| <b>prot-a-3276</b>          | acute RITs | Zinc finger protein 774  | 0.0126  | 0.0088 | 0.1629 |
| <b>prot-a-208</b>           | acute RITs | Zinc-alpha-2-glycoprotein  | -0.0165 | 0.0085 | 0.0712 |
| <b>ukb-a-406</b>            | acute RITs | Current employment status: Looking after home and/or family  | 0.0111  | 0.0097 | 0.2708 |
| <b>ukb-d-22601_41123205</b> | acute RITs | Job coding: civil service administrative officer or assistant or clerk, tax collector, prison service clerk, law courts clerk  | -0.0076 | 0.0078 | 0.3444 |
| <b>ukb-d-22601_35393271</b> | acute RITs | Job coding: management information officer, conference/events co-ordinator/organiser, exhibition officer, work study engineer/officer/analyst, contract adviser/agent, election agent, business system analyst | 0.0011  | 0.0088 | 0.9036 |
| <b>ukb-d-22601_23193405</b> | acute RITs | Job coding: other teaching professional including private tutor, tefl (teaching english as a foreign language) teacher; tutor at adult education centre, etc.  | 0.0043  | 0.0120 | 0.7263 |
| <b>ukb-d-22601_23213026</b> | acute RITs | Job coding: scientific researcher, scientific officer, medical research associate, experimental officer  | -0.0155 | 0.0088 | 0.0934 |
| <b>ukb-d-22601_23163403</b> | acute RITs | Job coding: special needs teaching professional (including head teacher)   | -0.0053 | 0.0119 | 0.6595 |
| <b>ukb-e-826_AFR</b>        | acute RITs | Job involves shift work  | -0.0007 | 0.0063 | 0.9074 |
| <b>ukb-d-22617_1151</b>     | acute RITs | Job SOC coding: Financial institution managers   | -0.0112 | 0.0094 | 0.2465 |
| <b>ukb-d-22617_2321</b>     | acute RITs | Job SOC coding: Scientific researchers   | -0.0115 | 0.0088 | 0.2041 |
| <b>ukb-d-22617_3231</b>     | acute RITs | Job SOC coding: Youth and community workers  | -0.0053 | 0.0098 | 0.5975 |
| <b>ukb-b-18099</b>          | acute RITs | Qualifications: O levels/GCSEs or equivalent   | -0.0008 | 0.0043 | 0.8513 |
| <b>ukb-a-368</b>            | acute RITs | Work/job satisfaction  | 0.0121  | 0.0082 | 0.1548 |
| <b>ebi-a-GCST90013919</b>   | acute RITs | Cholesterol lowering medication use (UKB data field 6177_1) (Firth correction)   | -0.0023 | 0.0021 | 0.2781 |
| <b>ebi-a-GCST90013969</b>   | acute RITs | Cholesterol lowering medication use (UKB data field 6177_1) (SPA correction)   | -0.0027 | 0.0021 | 0.2149 |
| <b>ukb-a-488</b>            | acute RITs | Medication for cholesterol blood pressure or diabetes: Cholesterol lowering medication   | 0.0009  | 0.0027 | 0.7398 |
| <b>ukb-b-11740</b>          | acute RITs | Medication for cholesterol, blood pressure or diabetes: Cholesterol lowering medication  | 0.0003  | 0.0021 | 0.9039 |
| <b>ukb-e-6153_p2_AFR</b>    | acute RITs | Medication for cholesterol, blood pressure, diabetes, or take exogenous hormones   | 0.0059  | 0.0053 | 0.2776 |

|                             |            |  |         |        |        |
|-----------------------------|------------|--|---------|--------|--------|
| <b>ebi-a-GCST90018984</b>   | acute RITs | Medication use (antihypertensives)   | -0.0007 | 0.0047 | 0.8884 |
| <b>ebi-a-GCST90018767</b>   | acute RITs | Medication use (calcium channel blockers)                                    | 0.0004  | 0.0043 | 0.9208 |
| <b>ebi-a-GCST90018985</b>   | acute RITs | Medication use (diuretics)   | 0.0008  | 0.0021 | 0.7225 |
| <b>ebi-a-GCST90018993</b>   | acute RITs | Medication use (drugs affecting bone structure and mineralization)           | -0.0044 | 0.0048 | 0.3580 |
| <b>ukb-b-12753</b>          | acute RITs | Recent medication for hayfever or allergic rhinitis                          | -0.0002 | 0.0118 | 0.9858 |
| <b>ukb-b-15918</b>          | acute RITs | Treatment speciality of consultant (recoded): Dermatology                    | -0.0036 | 0.0084 | 0.6740 |
| <b>ukb-b-3255</b>           | acute RITs | Treatment speciality of consultant (recoded): Upper gastrointestinal surgery | 0.0691  | 0.0680 | 0.3560 |
| <b>ukb-e-20003_p118_AFR</b> | acute RITs | Treatment/medication code  | -0.0089 | 0.0111 | 0.4335 |
| <b>ukb-b-9207</b>           | acute RITs | Treatment/medication code: amlodipine  | 0.0019  | 0.0043 | 0.6514 |
| <b>ukb-b-11862</b>          | acute RITs | Treatment/medication code: beconase 50micrograms nasal spray                 | -0.0012 | 0.0215 | 0.9567 |
| <b>ukb-b-7385</b>           | acute RITs | Treatment/medication code: codeine   | 0.0446  | 0.0427 | 0.3549 |
| <b>ukb-b-8668</b>           | acute RITs | Treatment/medication code: doxazosin   | -0.0043 | 0.0123 | 0.7264 |
| <b>ukb-a-162</b>            | acute RITs | Treatment/medication code: perindopril                                       | -0.0049 | 0.0094 | 0.6109 |
| <b>ukb-a-141</b>            | acute RITs | Treatment/medication code: prednisolone                                      | -0.0220 | 0.0112 | 0.0703 |
| <b>ukb-b-11895</b>          | acute RITs | Treatment/medication code: ramipril  | 0.0008  | 0.0055 | 0.8888 |
| <b>ukb-a-130</b>            | acute RITs | Treatment/medication code: senna   | -0.0014 | 0.0077 | 0.8523 |
| <b>ukb-b-16956</b>          | acute RITs | Treatment/medication code: thyroxine sodium                                  | -0.0046 | 0.0125 | 0.7213 |
| <b>ukb-a-120</b>            | acute RITs | Treatment/medication code: tranexamic acid                                   | 0.0041  | 0.0086 | 0.6366 |
| <b>ukb-b-17616</b>          | acute RITs | Treatment/medication code: xalatan 0.005% eye drops                          | 0.0084  | 0.0269 | 0.7608 |
| <b>ukb-e-6155_p5_AFR</b>    | acute RITs | Vitamin and mineral supplements  | -0.0161 | 0.0179 | 0.3918 |
| <b>ukb-e-6155_p8_AFR</b>    | acute RITs | Vitamin and mineral supplements  | 0.0060  | 0.0075 | 0.4407 |
| <b>ukb-a-464</b>            | acute RITs | Vitamin and mineral supplements: Multivitamins +/- minerals                  | -0.0019 | 0.0063 | 0.7644 |
| <b>ukb-b-19550</b>          | acute RITs | Vitamin and/or mineral supplement use: Calcium                               | -0.0252 | 0.0558 | 0.6749 |
| <b>ukb-b-18593</b>          | acute RITs | Vitamin D  | -0.0098 | 0.0073 | 0.1938 |
| <b>ukb-e-Z51_AFR</b>        | acute RITs | Z51 Other medical care   | 0.0030  | 0.0092 | 0.7517 |
| <b>met-c-846</b>            | acute RITs | 3-hydroxybutyrate  | 0.0028  | 0.0087 | 0.7476 |
| <b>met-d-bOHbutyrate</b>    | acute RITs | 3-Hydroxybutyrate  | 0.0019  | 0.0045 | 0.6852 |
| <b>met-a-311</b>            | acute RITs | 3-hydroxybutyrate (BHBA)   | -0.0057 | 0.0073 | 0.4590 |
| <b>met-a-365</b>            | acute RITs | 3-methoxytyrosine  | 0.0158  | 0.0095 | 0.1167 |
| <b>ieu-a-1</b>              | acute RITs | Adiponectin  | -0.0020 | 0.0029 | 0.5014 |
| <b>met-a-537</b>            | acute RITs | Adrenate (22:4n6)  | -0.0010 | 0.0114 | 0.9340 |
| <b>bbj-a-9</b>              | acute RITs | Albumin  | -0.0007 | 0.0041 | 0.8657 |
| <b>met-a-616</b>            | acute RITs | Alpha-hydroxyisovalerate   | 0.0093  | 0.0086 | 0.3037 |
| <b>met-d-ApoA1</b>          | acute RITs | Apolipoprotein A1  | -0.0002 | 0.0015 | 0.8769 |
| <b>ieu-b-107</b>            | acute RITs | apolipoprotein A-I   | -0.0015 | 0.0008 | 0.0581 |
| <b>met-c-842</b>            | acute RITs | Apolipoprotein A-I   | 0.0036  | 0.0049 | 0.4708 |

|                           |            |  |         |        |        |
|---------------------------|------------|--|---------|--------|--------|
| <b>ieu-b-108</b>          | acute RITs | apolipoprotein B                                       | -0.0012 | 0.0010 | 0.1967 |
| <b>ieu-b-108</b>          | acute RITs | apolipoprotein B                                       | -0.0012 | 0.0010 | 0.1967 |
| <b>met-d-ApoB</b>         | acute RITs | Apolipoprotein B                                       | 0.0026  | 0.0017 | 0.1183 |
| <b>ebi-a-GCST90092809</b> | acute RITs | Apolipoprotein B levels                                | 0.0026  | 0.0017 | 0.1266 |
| <b>prot-a-134</b>         | acute RITs | Apolipoprotein L1                                      | 0.0096  | 0.0056 | 0.1043 |
| <b>met-a-638</b>          | acute RITs | Asparagine   | 0.0061  | 0.0033 | 0.0754 |
| <b>ieu-b-4869</b>         | acute RITs | Bioavailable Testosterone                              | 0.0006  | 0.0016 | 0.6842 |
| <b>ebi-a-GCST90012102</b> | acute RITs | Bioavailable testosterone levels                       | 0.0007  | 0.0014 | 0.6023 |
| <b>ebi-a-GCST90012104</b> | acute RITs | Bioavailable testosterone levels                       | 0.0000  | 0.0017 | 0.9879 |
| <b>ebi-a-GCST90012104</b> | acute RITs | Bioavailable testosterone levels                       | 0.0000  | 0.0017 | 0.9879 |
| <b>bbj-a-10</b>           | acute RITs | Blood sugar  | 0.0021  | 0.0054 | 0.7044 |
| <b>ebi-a-GCST90018948</b> | acute RITs | Blood urea nitrogen levels                             | -0.0020 | 0.0013 | 0.1182 |
| <b>ebi-a-GCST90014002</b> | acute RITs | C reactive protein levels (UKB data field 30710)       | 0.0015  | 0.0009 | 0.1037 |
| <b>met-a-481</b>          | acute RITs | Caprylate (8:0)  | -0.0006 | 0.0042 | 0.8890 |
| <b>met-c-887</b>          | acute RITs | Cholesterol esters in large VLDL                       | 0.0047  | 0.0048 | 0.3365 |
| <b>met-c-899</b>          | acute RITs | Cholesterol esters in medium HDL                       | -0.0113 | 0.0071 | 0.1278 |
| <b>met-c-899</b>          | acute RITs | Cholesterol esters in medium HDL                       | -0.0113 | 0.0071 | 0.1278 |
| <b>met-d-M_HDL_C</b>      | acute RITs | Cholesterol in medium HDL                              | -0.0003 | 0.0016 | 0.8407 |
| <b>met-d-M_VLDL_C</b>     | acute RITs | Cholesterol in medium VLDL                             | 0.0012  | 0.0017 | 0.4818 |
| <b>met-d-S_LDL_C</b>      | acute RITs | Cholesterol in small LDL                               | 0.0003  | 0.0017 | 0.8772 |
| <b>ebi-a-GCST90014000</b> | acute RITs | Cholesterol levels (UKB data field 30690)              | 0.0006  | 0.0011 | 0.6107 |
| <b>ebi-a-GCST90092956</b> | acute RITs | Cholesterol levels in small LDL                        | 0.0012  | 0.0016 | 0.4490 |
| <b>met-d-M_HDL_C_pct</b>  | acute RITs | Cholesterol to total lipids ratio in medium HDL        | -0.0018 | 0.0014 | 0.2071 |
| <b>ebi-a-GCST90092918</b> | acute RITs | Cholesteryl ester levels in medium VLDL                | 0.0002  | 0.0018 | 0.9078 |
| <b>ebi-a-GCST90060634</b> | acute RITs | Cholesteryl ester(18:3)_[M+NH4]1+ levels               | 0.0030  | 0.0066 | 0.6530 |
| <b>met-d-HDL_CE</b>       | acute RITs | Cholesteryl esters in HDL                              | -0.0021 | 0.0013 | 0.1067 |
| <b>met-d-L_LDL_CE</b>     | acute RITs | Cholesteryl esters in large LDL                        | 0.0003  | 0.0016 | 0.8695 |
| <b>met-d-LDL_CE</b>       | acute RITs | Cholesteryl esters in LDL                              | 0.0001  | 0.0017 | 0.9715 |
| <b>met-d-M_HDL_CE</b>     | acute RITs | Cholesteryl esters in medium HDL                       | 0.0001  | 0.0016 | 0.9751 |
| <b>met-d-M_VLDL_CE</b>    | acute RITs | Cholesteryl esters in medium VLDL                      | -0.0002 | 0.0019 | 0.9228 |
| <b>met-d-S_HDL_CE</b>     | acute RITs | Cholesteryl esters in small HDL                        | -0.0006 | 0.0018 | 0.7549 |
| <b>met-d-IDL_CE_pct</b>   | acute RITs | Cholesteryl esters to total lipids ratio in IDL        | -0.0018 | 0.0014 | 0.2127 |
| <b>met-d-L_HDL_CE_pct</b> | acute RITs | Cholesteryl esters to total lipids ratio in large HDL  | -0.0010 | 0.0013 | 0.4435 |
| <b>met-d-L_HDL_CE_pct</b> | acute RITs | Cholesteryl esters to total lipids ratio in large HDL  | -0.0010 | 0.0013 | 0.4435 |
| <b>met-d-M_HDL_CE_pct</b> | acute RITs | Cholesteryl esters to total lipids ratio in medium HDL | -0.0009 | 0.0014 | 0.5131 |
| <b>ebi-a-GCST90007307</b> | acute RITs | circulating leptin levels                              | -0.0034 | 0.0098 | 0.7342 |

|                             |            |   |         |        |        |
|-----------------------------|------------|---|---------|--------|--------|
| <b>ebi-a-GCST90007309</b>   | acute RITs | circulating leptin levels   | 0.0145  | 0.0232 | 0.5594 |
| <b>ebi-a-GCST90007310</b>   | acute RITs | circulating leptin levels   | 0.0056  | 0.0132 | 0.6866 |
| <b>ebi-a-GCST90007312</b>   | acute RITs | circulating leptin levels   | 0.0012  | 0.0452 | 0.9791 |
| <b>ebi-a-GCST90007313</b>   | acute RITs | circulating leptin levels   | 0.0051  | 0.0187 | 0.7973 |
| <b>ebi-a-GCST90007316</b>   | acute RITs | circulating leptin levels   | 0.0050  | 0.0183 | 0.7973 |
| <b>ebi-a-GCST90007319</b>   | acute RITs | circulating leptin levels adjusted for BMI                              | 0.0003  | 0.0108 | 0.9771 |
| <b>ebi-a-GCST90007320</b>   | acute RITs | circulating leptin levels adjusted for BMI                              | 0.0406  | 0.0327 | 0.2818 |
| <b>ebi-a-GCST90007321</b>   | acute RITs | circulating leptin levels adjusted for BMI                              | 0.0184  | 0.0181 | 0.3430 |
| <b>ebi-a-GCST90007322</b>   | acute RITs | circulating leptin levels adjusted for BMI                              | -0.0094 | 0.0155 | 0.5656 |
| <b>ebi-a-GCST90007324</b>   | acute RITs | circulating leptin levels adjusted for BMI                              | -0.0231 | 0.0153 | 0.1821 |
| <b>ebi-a-GCST90007327</b>   | acute RITs | circulating leptin levels adjusted for BMI                              | 0.0016  | 0.0193 | 0.9389 |
| <b>met-d-Clinical_LDL_C</b> | acute RITs | Clinical LDL cholesterol  | 0.0005  | 0.0016 | 0.7537 |
| <b>met-d-HDL_P</b>          | acute RITs | Concentration of HDL particles  | 0.0003  | 0.0016 | 0.8754 |
| <b>ebi-a-GCST90092887</b>   | acute RITs | Concentration of LDL particles  | 0.0031  | 0.0018 | 0.0807 |
| <b>met-d-LDL_P</b>          | acute RITs | Concentration of LDL particles  | 0.0029  | 0.0017 | 0.0905 |
| <b>met-d-M_HDL_P</b>        | acute RITs | Concentration of medium HDL particles                                   | -0.0001 | 0.0015 | 0.9408 |
| <b>ebi-a-GCST90092963</b>   | acute RITs | Concentration of small LDL particles                                    | 0.0025  | 0.0017 | 0.1323 |
| <b>met-d-S_LDL_P</b>        | acute RITs | Concentration of small LDL particles                                    | 0.0026  | 0.0017 | 0.1155 |
| <b>met-d-XL_VLDL_P</b>      | acute RITs | Concentration of very large VLDL particles                              | 0.0007  | 0.0015 | 0.6325 |
| <b>met-a-744</b>            | acute RITs | Cyclo(leu-pro)  | 0.0165  | 0.0084 | 0.0738 |
| <b>ebi-a-GCST90060606</b>   | acute RITs | Diacylglycerol(34:2)_[M+H-H2O]1+ levels                                 | 0.0154  | 0.0075 | 0.0571 |
| <b>ebi-a-GCST90060606</b>   | acute RITs | Diacylglycerol(34:2)_[M+H-H2O]1+ levels                                 | 0.0154  | 0.0075 | 0.0571 |
| <b>ebi-a-GCST90060625</b>   | acute RITs | Diacylglycerol(36:2)_[M+NH4]1+ levels                                   | -0.0067 | 0.0049 | 0.1910 |
| <b>ebi-a-GCST90025954</b>   | acute RITs | Direct low density lipoprotein cholesterol levels                       | -0.0005 | 0.0010 | 0.6232 |
| <b>met-a-586</b>            | acute RITs | Eicosenoate (20:1n9 or 11)  | -0.0164 | 0.0112 | 0.1718 |
| <b>ebi-a-GCST90019407</b>   | acute RITs | Electron transfer flavoprotein subunit alpha, mitochondrial measurement | 0.0006  | 0.0044 | 0.8915 |
| <b>ebi-a-GCST90012105</b>   | acute RITs | Estradiol levels  | 0.0022  | 0.0047 | 0.6349 |
| <b>ebi-a-GCST000571</b>     | acute RITs | Fasting blood insulin   | -0.0206 | 0.0101 | 0.0680 |
| <b>ebi-a-GCST90060570</b>   | acute RITs | Fatty acid(15:0)_[M-H]1- levels   | -0.0028 | 0.0068 | 0.6897 |
| <b>ebi-a-GCST90060571</b>   | acute RITs | Fatty acid(16:1)_[M-H]1- levels   | 0.0063  | 0.0094 | 0.5176 |
| <b>met-d-HDL_FC</b>         | acute RITs | Free cholesterol in HDL   | -0.0004 | 0.0013 | 0.7765 |
| <b>met-d-IDL_FC</b>         | acute RITs | Free cholesterol in IDL   | -0.0005 | 0.0016 | 0.7308 |
| <b>met-c-900</b>            | acute RITs | Free cholesterol in medium HDL  | -0.0113 | 0.0057 | 0.0614 |
| <b>met-d-M_HDL_FC</b>       | acute RITs | Free cholesterol in medium HDL  | -0.0003 | 0.0016 | 0.8742 |
| <b>met-d-M_LDL_FC</b>       | acute RITs | Free cholesterol in medium LDL  | 0.0010  | 0.0017 | 0.5658 |
| <b>met-d-M_HDL_FC_pct</b>   | acute RITs | Free cholesterol to total lipids ratio in medium HDL                    | -0.0020 | 0.0013 | 0.1203 |

|                           |            |   |         |        |        |
|---------------------------|------------|---|---------|--------|--------|
| <b>met-d-S_HDL_FC_pct</b> | acute RITs | Free cholesterol to total lipids ratio in small HDL                     | -0.0003 | 0.0016 | 0.8506 |
| <b>ebi-a-GCST90025966</b> | acute RITs | Gamma glutamyl transferase levels                                       | -0.0005 | 0.0008 | 0.5047 |
| <b>met-a-564</b>          | acute RITs | Gamma-glutamylthreonine*  | -0.0051 | 0.0111 | 0.6581 |
| <b>ebi-a-GCST90018735</b> | acute RITs | Glucose levels  | 0.0003  | 0.0030 | 0.9255 |
| <b>ebi-a-GCST005058</b>   | acute RITs | HDL cholesterol   | -0.0095 | 0.0062 | 0.1446 |
| <b>ebi-a-GCST90018736</b> | acute RITs | HDL cholesterol   | -0.0011 | 0.0018 | 0.5324 |
| <b>ebi-a-GCST90018956</b> | acute RITs | HDL cholesterol   | -0.0014 | 0.0008 | 0.0634 |
| <b>ieu-b-109</b>          | acute RITs | HDL cholesterol   | -0.0012 | 0.0007 | 0.0963 |
| <b>ieu-b-4843</b>         | acute RITs | HDL cholesterol   | -0.0011 | 0.0024 | 0.6378 |
| <b>ieu-b-4844</b>         | acute RITs | HDL cholesterol   | -0.0011 | 0.0016 | 0.4813 |
| <b>met-d-HDL_C</b>        | acute RITs | HDL cholesterol   | -0.0016 | 0.0013 | 0.2338 |
| <b>ukb-e-30760_AFR</b>    | acute RITs | HDL cholesterol   | -0.0097 | 0.0057 | 0.1016 |
| <b>ebi-a-GCST90025956</b> | acute RITs | HDL cholesterol levels  | -0.0010 | 0.0007 | 0.1939 |
| <b>ebi-a-GCST90002309</b> | acute RITs | Hemoglobin concentration  | 0.0011  | 0.0035 | 0.7505 |
| <b>ebi-a-GCST008035</b>   | acute RITs | High density lipoprotein cholesterol levels                             | -0.0055 | 0.0028 | 0.0594 |
| <b>ebi-a-GCST90014007</b> | acute RITs | High density lipoprotein cholesterol levels (UKB data field 30760)      | -0.0014 | 0.0008 | 0.0902 |
| <b>bbj-a-24</b>           | acute RITs | High-density-lipoprotein cholesterol                                    | -0.0009 | 0.0019 | 0.6374 |
| <b>ebi-a-GCST90014008</b> | acute RITs | IGF 1 (UKB data field 30770)  | 0.0001  | 0.0009 | 0.9387 |
| <b>ukb-e-30770_CSA</b>    | acute RITs | IGF-1   | -0.0095 | 0.0068 | 0.1707 |
| <b>ukb-e-recode1_CSA</b>  | acute RITs | Indirect bilirubin  | -0.0009 | 0.0057 | 0.8819 |
| <b>met-a-323</b>          | acute RITs | Isoleucine  | -0.0161 | 0.0077 | 0.0534 |
| <b>met-a-652</b>          | acute RITs | Isovalerylcarnitine   | 0.0083  | 0.0044 | 0.0779 |
| <b>ieu-b-110</b>          | acute RITs | LDL cholesterol   | 0.0006  | 0.0009 | 0.4940 |
| <b>ieu-b-5089</b>         | acute RITs | LDL cholesterol   | -0.0004 | 0.0014 | 0.7745 |
| <b>met-d-LDL_C</b>        | acute RITs | LDL cholesterol   | 0.0003  | 0.0016 | 0.8556 |
| <b>ebi-a-GCST90025993</b> | acute RITs | Lipoprotein (a) levels  | 0.0006  | 0.0017 | 0.7009 |
| <b>ebi-a-GCST90002412</b> | acute RITs | Low density lipoprotein cholesterol levels                              | -0.0009 | 0.0008 | 0.2606 |
| <b>ebi-a-GCST90019485</b> | acute RITs | MAP/microtubule affinity-regulating kinase 3 measurement                | 0.0067  | 0.0072 | 0.3578 |
| <b>ebi-a-GCST90019404</b> | acute RITs | Medium-chain specific acyl-CoA dehydrogenase, mitochondrial measurement | 0.0012  | 0.0040 | 0.7671 |
| <b>ebi-a-GCST90012047</b> | acute RITs | Myoglobin levels  | 0.0047  | 0.0070 | 0.5073 |
| <b>met-a-477</b>          | acute RITs | Myristoleate (14:1n5)   | -0.0014 | 0.0089 | 0.8751 |
| <b>met-a-576</b>          | acute RITs | Palmitoleate (16:1n7)   | 0.0072  | 0.0113 | 0.5517 |
| <b>met-c-919</b>          | acute RITs | Phenylalanine   | -0.0003 | 0.0079 | 0.9724 |
| <b>met-a-430</b>          | acute RITs | Phenyllactate (PLA)   | 0.0074  | 0.0067 | 0.2848 |
| <b>ebi-a-GCST90014010</b> | acute RITs | Phosphate levels (UKB data field 30810)                                 | 0.0001  | 0.0012 | 0.9129 |
| <b>ebi-a-GCST90060687</b> | acute RITs | Phosphatidate(34:0)_[M+OAc]1- levels                                    | 0.0088  | 0.0087 | 0.3404 |

|                            |            |   |         |        |        |
|----------------------------|------------|---|---------|--------|--------|
| <b>ebi-a-GCST90060914</b>  | acute RITs | Phosphatidylcholine(38:7)_[M+OAc]1-/Phosphatidylserine(42:6)_[M-H]1- levels         | -0.0131 | 0.0070 | 0.0844 |
| <b>ebi-a-GCST90060671</b>  | acute RITs | Phosphatidylcholine-O(32:0)_[M+H]1+/Phosphatidylethanolamine-O(35:0)_[M+H]1+ levels | 0.0046  | 0.0092 | 0.6254 |
| <b>ebi-a-GCST90060801</b>  | acute RITs | Phosphatidylcholine-O(38:4)_[M+H]1+/Phosphatidylcholine-P(38:3)_[M+H]1+ levels      | -0.0062 | 0.0041 | 0.1512 |
| <b>ebi-a-GCST90060961</b>  | acute RITs | Phosphatidylserine(40:5)_[M+OAc]1- levels   | -0.0055 | 0.0052 | 0.2974 |
| <b>met-d-XL_VLDL_PL</b>    | acute RITs | Phospholipids in very large VLDL  | 0.0006  | 0.0015 | 0.6854 |
| <b>met-d-L_VLDL_PL_pct</b> | acute RITs | Phospholipids to total lipids ratio in large VLDL                                   | 0.0025  | 0.0016 | 0.1027 |
| <b>met-d-M_HDL_PL_pct</b>  | acute RITs | Phospholipids to total lipids ratio in medium HDL                                   | 0.0022  | 0.0014 | 0.1247 |
| <b>ebi-a-GCST90092977</b>  | acute RITs | Phospholipids to total lipids ratio in small VLDL                                   | -0.0008 | 0.0015 | 0.5707 |
| <b>ieu-a-1012</b>          | acute RITs | Plasma cortisol   | -0.0061 | 0.0071 | 0.4210 |
| <b>met-a-678</b>           | acute RITs | Pro-hydroxy-pro   | -0.0065 | 0.0082 | 0.4426 |
| <b>met-a-574</b>           | acute RITs | Pseudouridine   | 0.0001  | 0.0104 | 0.9930 |
| <b>met-a-501</b>           | acute RITs | Pyroglutamine*  | -0.0132 | 0.0073 | 0.0904 |
| <b>met-d-SFA_pct</b>       | acute RITs | Ratio of saturated fatty acids to total fatty acids                                 | -0.0057 | 0.0032 | 0.0824 |
| <b>met-d-TG_by_PG</b>      | acute RITs | Ratio of triglycerides to phosphoglycerides   | 0.0016  | 0.0014 | 0.2346 |
| <b>met-d-Remnant_C</b>     | acute RITs | Remnant cholesterol (non-HDL, non-LDL -cholesterol)                                 | 0.0015  | 0.0017 | 0.3756 |
| <b>ebi-a-GCST005059</b>    | acute RITs | Serum albumin level   | 0.0047  | 0.0077 | 0.5529 |
| <b>ebi-a-GCST90018722</b>  | acute RITs | Serum alkaline phosphatase levels   | 0.0010  | 0.0017 | 0.5622 |
| <b>ebi-a-GCST90025991</b>  | acute RITs | Serum urea levels   | -0.0011 | 0.0013 | 0.3654 |
| <b>ebi-a-GCST90019384</b>  | acute RITs | SPARC-related modular calcium-binding protein 1 measurement                         | -0.0086 | 0.0046 | 0.0726 |
| <b>ebi-a-GCST90060683</b>  | acute RITs | Sphingomyelin(32:1)_[M+OAc]1- levels  | 0.0089  | 0.0069 | 0.2097 |
| <b>ebi-a-GCST90060633</b>  | acute RITs | Sphingomyelin(32:1)_[M-CH3]1- levels  | -0.0020 | 0.0076 | 0.7932 |
| <b>ebi-a-GCST90060643</b>  | acute RITs | Sphingomyelin(34:2)_[M-CH3]1- levels  | 0.0053  | 0.0132 | 0.6971 |
| <b>ebi-a-GCST90060776</b>  | acute RITs | Sphingomyelin(40:1)_[M+H]1+ levels  | -0.0052 | 0.0036 | 0.1634 |
| <b>ebi-a-GCST90060742</b>  | acute RITs | Sphingomyelin(40:2)_[M-CH3]1- levels  | 0.0010  | 0.0060 | 0.8746 |
| <b>ebi-a-GCST90060814</b>  | acute RITs | Sphingomyelin(41:0)_[M+H]1- levels  | 0.0181  | 0.0086 | 0.0683 |
| <b>ebi-a-GCST90060835</b>  | acute RITs | Sphingomyelin(42:2)_[M+H]1+ levels  | 0.0040  | 0.0084 | 0.6409 |
| <b>ebi-a-GCST90060812</b>  | acute RITs | Sphingomyelin(42:8)_[M+H]1+ levels  | -0.0207 | 0.0110 | 0.0970 |
| <b>met-d-Total_C</b>       | acute RITs | Total cholesterol   | -0.0006 | 0.0018 | 0.7448 |
| <b>met-c-898</b>           | acute RITs | Total cholesterol in medium HDL   | -0.0028 | 0.0056 | 0.6249 |
| <b>ebi-a-GCST90018974</b>  | acute RITs | Total cholesterol levels  | -0.0005 | 0.0009 | 0.6137 |
| <b>ebi-a-GCST90025953</b>  | acute RITs | Total cholesterol levels  | 0.0000  | 0.0009 | 0.9742 |
| <b>met-d-non_HDL_C</b>     | acute RITs | Total cholesterol minus HDL-C   | 0.0016  | 0.0018 | 0.3672 |
| <b>met-d-Total_P</b>       | acute RITs | Total concentration of lipoprotein particles  | -0.0005 | 0.0018 | 0.7764 |
| <b>met-d-Total_CE</b>      | acute RITs | Total esterified cholesterol  | -0.0009 | 0.0018 | 0.6137 |
| <b>met-d-Total_FC</b>      | acute RITs | Total free cholesterol  | -0.0002 | 0.0017 | 0.9090 |
| <b>met-c-957</b>           | acute RITs | Total lipids in chylomicrons and largest VLDL particles                             | 0.0054  | 0.0057 | 0.3544 |

|                           |            |   |         |        |        |
|---------------------------|------------|---|---------|--------|--------|
| <b>met-d-HDL_L</b>        | acute RITs | Total lipids in HDL   | -0.0006 | 0.0015 | 0.7021 |
| <b>met-d-L_LDL_L</b>      | acute RITs | Total lipids in large LDL                                       | 0.0008  | 0.0016 | 0.5901 |
| <b>met-d-M_HDL_L</b>      | acute RITs | Total lipids in medium HDL                                      | 0.0004  | 0.0016 | 0.7906 |
| <b>met-d-S_LDL_L</b>      | acute RITs | Total lipids in small LDL                                       | 0.0016  | 0.0015 | 0.2950 |
| <b>met-d-XL_VLDL_L</b>    | acute RITs | Total lipids in very large VLDL                                 | 0.0005  | 0.0015 | 0.7400 |
| <b>ukb-e-30860_CSA</b>    | acute RITs | Total protein   | 0.0158  | 0.0077 | 0.0526 |
| <b>ebi-a-GCST90060736</b> | acute RITs | Triacylglycerol(44:1)_[M+NH4]1+ levels                          | -0.0026 | 0.0070 | 0.7155 |
| <b>ebi-a-GCST90060999</b> | acute RITs | Triacylglycerol(56:3)_[M+NH4]1+ levels                          | 0.0040  | 0.0099 | 0.6946 |
| <b>ukb-e-30870_CSA</b>    | acute RITs | Triglycerides   | -0.0001 | 0.0057 | 0.9803 |
| <b>met-d-L_HDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in large HDL                | 0.0018  | 0.0014 | 0.1897 |
| <b>met-d-L_HDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in large HDL                | 0.0018  | 0.0014 | 0.1897 |
| <b>met-d-M_HDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in medium HDL               | 0.0018  | 0.0014 | 0.1867 |
| <b>met-d-M_HDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in medium HDL               | 0.0018  | 0.0014 | 0.1867 |
| <b>met-d-M_LDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in medium LDL               | 0.0026  | 0.0015 | 0.0805 |
| <b>met-d-M_LDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in medium LDL               | 0.0026  | 0.0015 | 0.0805 |
| <b>met-d-S_HDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in small HDL                | 0.0013  | 0.0014 | 0.3426 |
| <b>met-d-S_HDL_TG_pct</b> | acute RITs | Triglycerides to total lipids ratio in small HDL                | 0.0013  | 0.0014 | 0.3426 |
| <b>ieu-a-786</b>          | acute RITs | Urate   | -0.0061 | 0.0116 | 0.6374 |
| <b>met-c-940</b>          | acute RITs | Valine  | -0.0010 | 0.0057 | 0.8611 |
| <b>ebi-a-GCST90019468</b> | acute RITs | von Willebrand factor A domain-containing protein 2 measurement | 0.0096  | 0.0056 | 0.1048 |
| <b>met-a-499</b>          | acute RITs | X-11334   | -0.0032 | 0.0065 | 0.6265 |
| <b>met-a-520</b>          | acute RITs | X-11470   | 0.0105  | 0.0110 | 0.3678 |
| <b>met-a-548</b>          | acute RITs | X-11820   | -0.0133 | 0.0063 | 0.0626 |
| <b>met-a-610</b>          | acute RITs | X-12442--5,8-tetradecadienoate                                  | 0.0048  | 0.0089 | 0.6009 |
| <b>met-a-701</b>          | acute RITs | X-13671   | 0.0225  | 0.0119 | 0.0866 |
| <b>met-a-715</b>          | acute RITs | X-14056   | 0.0019  | 0.0092 | 0.8409 |
| <b>ukb-b-17102</b>        | acute RITs | External causes: Y83.6 Removal of other organ (partial) (total) | 0.0223  | 0.0305 | 0.4883 |
| <b>ukb-b-11247</b>        | acute RITs | Main speciality of consultant (recoded): Cardiothoracic surgery | 0.0006  | 0.0102 | 0.9505 |
| <b>ukb-b-17277</b>        | acute RITs | Operation code: anal surgery                                    | 0.0110  | 0.0313 | 0.7339 |
| <b>ukb-b-6863</b>         | acute RITs | Operation code: caesarean section / caesarian section           | 0.0090  | 0.0061 | 0.1491 |
| <b>ukb-b-6235</b>         | acute RITs | Operation code: cholecystectomy/gall bladder removal            | 0.0014  | 0.0018 | 0.4245 |
| <b>ukb-b-6235</b>         | acute RITs | Operation code: cholecystectomy/gall bladder removal            | 0.0014  | 0.0018 | 0.4245 |
| <b>ukb-b-9263</b>         | acute RITs | Operation code: inguinal/femoral hernia repair                  | 0.0017  | 0.0035 | 0.6248 |
| <b>ukb-b-847</b>          | acute RITs | Operation code: reduction or fixation of bone fracture          | 0.0009  | 0.0076 | 0.9070 |
| <b>ukb-b-13003</b>        | acute RITs | Operation code: sinus surgery                                   | -0.0695 | 0.0617 | 0.3233 |
| <b>ukb-b-15592</b>        | acute RITs | Operation code: varicose vein surgery                           | 0.0036  | 0.0019 | 0.0684 |

|                             |            |   |         |        |        |
|-----------------------------|------------|---|---------|--------|--------|
| <b>ukb-b-7609</b>           | acute RITs | Operative procedures - main OPCS: B28.2 Partial excision of breast NEC  | 0.0055  | 0.0070 | 0.4414 |
| <b>ukb-b-4944</b>           | acute RITs | Operative procedures - main OPCS: W85.2 Endoscopic irrigation of knee joint   | 0.1589  | 0.1100 | 0.2856 |
| <b>ukb-e-41200_p138_AFR</b> | acute RITs | Operative procedures - main OPCS4   | -0.0112 | 0.0057 | 0.0630 |
| <b>ukb-e-41200_p26_CSA</b>  | acute RITs | Operative procedures - main OPCS4   | -0.0064 | 0.0067 | 0.3529 |
| <b>ukb-e-41200_p356_AFR</b> | acute RITs | Operative procedures - main OPCS4   | -0.0009 | 0.0069 | 0.8952 |
| <b>ukb-e-41200_p834_AFR</b> | acute RITs | Operative procedures - main OPCS4   | -0.0014 | 0.0074 | 0.8480 |
| <b>ukb-e-41200_p991_CSA</b> | acute RITs | Operative procedures - main OPCS4   | -0.0108 | 0.0140 | 0.4661 |
| <b>ukb-b-4820</b>           | acute RITs | Operative procedures - secondary OPCS: E13.6 Puncture of maxillary antrum   | 0.0279  | 0.0931 | 0.7838 |
| <b>ukb-b-4373</b>           | acute RITs | Operative procedures - secondary OPCS: T85.2 Block dissection of axillary lymph nodes   | 0.0076  | 0.0087 | 0.3970 |
| <b>ukb-b-7815</b>           | acute RITs | Operative procedures - secondary OPCS: U05.1 Computed tomography of head  | -0.0328 | 0.0563 | 0.5914 |
| <b>ukb-b-13551</b>          | acute RITs | Operative procedures - secondary OPCS: X72.1 Delivery of complex chemotherapy for neoplasm including prolonged infusional treatment at first attendance                                       | 0.0694  | 0.0430 | 0.1822 |
| <b>ukb-b-13683</b>          | acute RITs | Operative procedures - secondary OPCS: Y58.8 Other specified harvest of skin for graft  | -0.1712 | 0.2722 | 0.6426 |
| <b>ukb-b-9816</b>           | acute RITs | Operative procedures - secondary OPCS: Y80.4 Intravenous anaesthetic NEC  | -0.0322 | 0.0393 | 0.4394 |
| <b>ukb-b-13121</b>          | acute RITs | Operative procedures - secondary OPCS: Z27.1 Oesophagus   | -0.0334 | 0.0210 | 0.1506 |
| <b>ukb-b-5222</b>           | acute RITs | Operative procedures - secondary OPCS: Z94.1 Bilateral operation  | -0.0184 | 0.0110 | 0.1136 |
| <b>ukb-e-Y83_CSA</b>        | acute RITs | Y83 Surgical operation and other surgical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure | -0.0141 | 0.0080 | 0.1002 |
| <b>ukb-b-13350</b>          | acute RITs | PCT responsible for patient data: NOTTINGHAM CITY PCT   | -0.0273 | 0.0209 | 0.2132 |
| <b>ukb-b-6873</b>           | acute RITs | PCT responsible for patient data: WESTERN CHESHIRE PCT  | -0.1970 | 0.0824 | 0.0751 |
| <b>ukb-b-1539</b>           | acute RITs | PCT where patients GP was registered: BROXTOWE AND HUCKNALL PCT   | -0.0222 | 0.0246 | 0.3796 |
| <b>ukb-b-6547</b>           | acute RITs | PCT where patients GP was registered: BURY PCT  | -0.0038 | 0.0119 | 0.7540 |
| <b>ukb-b-8205</b>           | acute RITs | PCT where patients GP was registered: CAMDEN PCT  | -0.0716 | 0.0742 | 0.3555 |
| <b>ukb-b-2838</b>           | acute RITs | PCT where patients GP was registered: DURHAM AND CHESTER-LE-STREET PCT  | -0.0106 | 0.0288 | 0.7165 |
| <b>ukb-b-19050</b>          | acute RITs | PCT where patients GP was registered: EAST LANCASHIRE TEACHING PCT  | 0.1932  | 0.2078 | 0.4211 |
| <b>ukb-b-14654</b>          | acute RITs | PCT where patients GP was registered: ROCHDALE PCT  | -0.0305 | 0.0515 | 0.5702 |
| <b>ukb-b-8842</b>           | acute RITs | PCT where patients GP was registered: SOLIHULL PCT  | -0.0002 | 0.0430 | 0.9973 |
| <b>ukb-b-7288</b>           | acute RITs | 3mm asymmetry angle (left)  | -0.0060 | 0.0063 | 0.3514 |
| <b>ukb-e-5108_CSA</b>       | acute RITs | 3mm asymmetry angle (right)   | 0.0032  | 0.0075 | 0.6751 |
| <b>ukb-e-5156_AFR</b>       | acute RITs | 3mm asymmetry index (left)  | 0.0007  | 0.0050 | 0.8927 |
| <b>ukb-e-5107_AFR</b>       | acute RITs | 3mm strong meridian angle (right)   | -0.0029 | 0.0108 | 0.7918 |
| <b>ukb-b-4874</b>           | acute RITs | 6mm asymmetry angle (right)   | -0.0065 | 0.0073 | 0.3813 |
| <b>ukb-e-5306_CSA</b>       | acute RITs | 6mm index of best keratometry results (left)  | -0.0009 | 0.0058 | 0.8837 |
| <b>ieu-a-1095</b>           | acute RITs | Age at menarche   | 0.0021  | 0.0028 | 0.4588 |
| <b>ukb-d-4700_irnt</b>      | acute RITs | Age cataract diagnosed  | -0.0163 | 0.0104 | 0.1381 |
| <b>ukb-b-1061</b>           | acute RITs | Age high blood pressure diagnosed   | 0.0031  | 0.0055 | 0.5678 |

|                            |            |  |         |        |        |
|----------------------------|------------|--|---------|--------|--------|
| <b>ukb-e-2217_AFR</b>      | acute RITs | Age started wearing glasses or contact lenses                                    | -0.0093 | 0.0064 | 0.1571 |
| <b>ukb-b-5090</b>          | acute RITs | Astigmatism angle (left)   | -0.0036 | 0.0077 | 0.6453 |
| <b>ukb-e-B96_CSA</b>       | acute RITs | B96 Other bacterial agents as the cause of diseases classified to other chapters | -0.0030 | 0.0088 | 0.7340 |
| <b>ukb-e-1677_CSA</b>      | acute RITs | Breastfed as a baby  | 0.0028  | 0.0083 | 0.7483 |
| <b>ukb-e-1468_p1_CSA</b>   | acute RITs | Cereal type  | 0.0059  | 0.0061 | 0.3437 |
| <b>ukb-e-24014_AFR</b>     | acute RITs | Close to major road  | 0.0081  | 0.0103 | 0.4443 |
| <b>ukb-e-5086_AFR</b>      | acute RITs | Cylindrical power (left)   | 0.0062  | 0.0074 | 0.4191 |
| <b>ukb-b-7196</b>          | acute RITs | Delivery methods: Elective caesarean section                                     | -0.0025 | 0.1217 | 0.9855 |
| <b>ukb-e-894_AFR</b>       | acute RITs | Duration of moderate activity  | 0.0082  | 0.0093 | 0.3910 |
| <b>ukb-e-874_p1_AFR</b>    | acute RITs | Duration of walks  | 0.0005  | 0.0043 | 0.9161 |
| <b>ukb-e-404_CSA</b>       | acute RITs | Duration to first press of snap-button in each round                             | 0.0042  | 0.0073 | 0.5665 |
| <b>ukb-d-20411_0</b>       | acute RITs | Ever been injured or injured someone else through drinking alcohol: No           | 0.0009  | 0.0083 | 0.9189 |
| <b>ukb-e-2296_CSA</b>      | acute RITs | Falls in the last year   | -0.0040 | 0.0073 | 0.5941 |
| <b>ukb-e-4935_CSA</b>      | acute RITs | FII : numeric addition test  | 0.0034  | 0.0078 | 0.6685 |
| <b>ukb-d-4979</b>          | acute RITs | FI5 : family relationship calculation  | -0.0015 | 0.0075 | 0.8479 |
| <b>ukb-b-17738</b>         | acute RITs | Fractured bone site(s): Other bones  | -0.0025 | 0.0069 | 0.7184 |
| <b>ukb-a-439</b>           | acute RITs | Fractured bone site(s): Wrist  | -0.0086 | 0.0072 | 0.2446 |
| <b>ukb-b-9571</b>          | acute RITs | Fractured bone site(s): Wrist  | -0.0040 | 0.0064 | 0.5418 |
| <b>ebi-a-GCST90013913</b>  | acute RITs | Fractured bones in last 5 years (UKB data field 2463) (Firth correction)         | -0.0084 | 0.0043 | 0.0562 |
| <b>ukb-a-2</b>             | acute RITs | Frequency of light DIY in last 4 weeks   | 0.0103  | 0.0091 | 0.2653 |
| <b>ukb-e-4570_AFR</b>      | acute RITs | Friendships satisfaction   | -0.0118 | 0.0060 | 0.0635 |
| <b>ebi-a-GCST90019399</b>  | acute RITs | Gelsolin measurement   | 0.0017  | 0.0101 | 0.8723 |
| <b>ukb-a-340</b>           | acute RITs | Hearing aid user   | 0.0156  | 0.0078 | 0.0578 |
| <b>ukb-b-19060</b>         | acute RITs | Hearing aid user   | 0.0027  | 0.0069 | 0.7013 |
| <b>ukb-e-4849_p2_AFR</b>   | acute RITs | Hearing test done  | 0.0055  | 0.0037 | 0.1449 |
| <b>ukb-e-6141_p2_AFR</b>   | acute RITs | How are people in household related to participant                               | -0.0011 | 0.0058 | 0.8566 |
| <b>ukb-e-6145_p2_AFR</b>   | acute RITs | Illness, injury, bereavement, stress in last 2 years                             | -0.0002 | 0.0046 | 0.9735 |
| <b>ukb-e-6145_p4_CSA</b>   | acute RITs | Illness, injury, bereavement, stress in last 2 years                             | -0.0045 | 0.0094 | 0.6387 |
| <b>ukb-b-14449</b>         | acute RITs | Index of best refractometry result (left)  | 0.0085  | 0.0095 | 0.3836 |
| <b>ukb-e-41244_p2_CSA</b>  | acute RITs | Intended management of patient (recoded)   | 0.0012  | 0.0056 | 0.8363 |
| <b>ukb-b-16311</b>         | acute RITs | Interval between previous point and current one in alphanumeric path (trail #2)  | -0.0030 | 0.0049 | 0.5422 |
| <b>ebi-a-GCST90013453</b>  | acute RITs | Lack of behavioral control   | -0.0098 | 0.0156 | 0.5581 |
| <b>ukb-e-4728_CSA</b>      | acute RITs | Leg pain on walking  | -0.0034 | 0.0059 | 0.5690 |
| <b>ukb-e-6160_p5_AFR</b>   | acute RITs | Leisure/social activities  | 0.0001  | 0.0067 | 0.9921 |
| <b>ukb-e-41245_p20_CSA</b> | acute RITs | Main speciality of consultant (recoded)  | 0.0124  | 0.0128 | 0.3579 |
| <b>ukb-e-41245_p6_AFR</b>  | acute RITs | Main speciality of consultant (recoded)  | 0.0020  | 0.0046 | 0.6651 |

|                           |            |  |         |        |        |
|---------------------------|------------|--|---------|--------|--------|
| <b>ukb-a-392</b>          | acute RITs | Maximum workload during fitness test   | 0.0017  | 0.0086 | 0.8447 |
| <b>ebi-a-GCST90002397</b> | acute RITs | Mean spheric corpuscular volume  | 0.0005  | 0.0007 | 0.4869 |
| <b>ukb-e-41249_p4_AFR</b> | acute RITs | Methods of admission to hospital (recoded)   | 0.0067  | 0.0065 | 0.3164 |
| <b>ukb-b-5477</b>         | acute RITs | Methods of admission to hospital (recoded): Elective admission   | 0.0024  | 0.0025 | 0.3509 |
| <b>ukb-b-10655</b>        | acute RITs | Methods of admission to hospital (recoded): Emergency admission  | 0.0012  | 0.0060 | 0.8412 |
| <b>ukb-b-4540</b>         | acute RITs | Methods of admission to hospital (recoded): Emergency admission: Non-injury  | -0.0015 | 0.0038 | 0.7047 |
| <b>ukb-b-19790</b>        | acute RITs | Methods of admission to hospital (recoded): Maternity admission: Post-partum   | 0.0067  | 0.0088 | 0.4578 |
| <b>ukb-e-41250_p1_AFR</b> | acute RITs | Methods of discharge from hospital (recoded)   | -0.0085 | 0.0042 | 0.0563 |
| <b>ukb-e-52_p9_CSA</b>    | acute RITs | Month of birth   | 0.0201  | 0.0212 | 0.4140 |
| <b>ukb-a-12</b>           | acute RITs | Nap during day   | -0.0017 | 0.0027 | 0.5260 |
| <b>ukb-d-2654_8</b>       | acute RITs | Non-butter spread type details: Other low or reduced fat spread  | -0.0120 | 0.0102 | 0.2555 |
| <b>ukb-d-2654_9</b>       | acute RITs | Non-butter spread type details: Other type of spread/margarine   | -0.0193 | 0.0232 | 0.4323 |
| <b>ukb-d-2654_4</b>       | acute RITs | Non-butter spread type details: Soft (tub) margarine   | 0.0004  | 0.0070 | 0.9553 |
| <b>ukb-e-4291_CSA</b>     | acute RITs | Number of attempts   | 0.0044  | 0.0109 | 0.7002 |
| <b>ieu-b-4827</b>         | acute RITs | Number of children ever born measurement   | -0.0063 | 0.0088 | 0.4827 |
| <b>ukb-b-2988</b>         | acute RITs | Number of fluid intelligence questions attempted within time limit   | -0.0045 | 0.0040 | 0.2646 |
| <b>ukb-e-399_CSA</b>      | acute RITs | Number of incorrect matches in round   | -0.0191 | 0.0087 | 0.0559 |
| <b>ukb-b-1209</b>         | acute RITs | Number of live births  | -0.0020 | 0.0060 | 0.7425 |
| <b>ukb-b-6891</b>         | acute RITs | Number of triplets attempted (left)  | -0.0055 | 0.0102 | 0.6009 |
| <b>ukb-b-4909</b>         | acute RITs | Number of triplets attempted (right)   | 0.0147  | 0.0087 | 0.1034 |
| <b>ukb-e-4276_AFR</b>     | acute RITs | Number of triplets attempted (right)   | 0.0006  | 0.0280 | 0.9853 |
| <b>ebi-a-GCST90012790</b> | acute RITs | Percentage of invited food questionnaires completed  | 0.0030  | 0.0047 | 0.5170 |
| <b>ieu-b-4860</b>         | acute RITs | Physical activity  | 0.0154  | 0.0104 | 0.1547 |
| <b>ebi-a-GCST90061410</b> | acute RITs | Physical activity (Total log acceleration 2am-4am)   | -0.0046 | 0.0056 | 0.4188 |
| <b>ukb-e-20018_AFR</b>    | acute RITs | Prospective memory result  | 0.0112  | 0.0149 | 0.4694 |
| <b>ukb-a-421</b>          | acute RITs | Reason for glasses/contact lenses: For just reading/near work as you are getting older (called 'presbyopia')   | -0.0021 | 0.0060 | 0.7237 |
| <b>ukb-a-420</b>          | acute RITs | Reason for glasses/contact lenses: For long-sightedness i.e. for distance and near but particularly for near tasks like reading (called 'hypermetropia') | -0.0109 | 0.0063 | 0.0935 |
| <b>ukb-d-2664_5</b>       | acute RITs | Reason for reducing amount of alcohol drunk: Other reason  | 0.0083  | 0.0055 | 0.1440 |
| <b>ukb-e-20019_AFR</b>    | acute RITs | Speech-reception-threshold (SRT) estimate (left)   | 0.0071  | 0.0065 | 0.2942 |
| <b>ukb-a-343</b>          | acute RITs | Time from waking to first cigarette  | 0.0126  | 0.0075 | 0.1046 |
| <b>ukb-b-2732</b>         | acute RITs | Time from waking to first cigarette  | 0.0001  | 0.0081 | 0.9886 |
| <b>ukb-a-7</b>            | acute RITs | Time spent driving   | 0.0118  | 0.0062 | 0.0623 |
| <b>ukb-d-20531</b>        | acute RITs | Victim of sexual assault   | 0.0039  | 0.0099 | 0.6982 |
| <b>ukb-b-3709</b>         | acute RITs | Wants to stop smoking  | -0.0172 | 0.0102 | 0.1112 |
| <b>ukb-e-3659_CSA</b>     | acute RITs | Year immigrated to UK (United Kingdom)   | 0.0011  | 0.0079 | 0.8869 |
| <b>ukb-e-Z53_AFR</b>      | acute RITs | Z53 Persons encountering health services for specific procedures, not carried out  | 0.0126  | 0.0063 | 0.0658 |

|                           |            |  |         |        |        |
|---------------------------|------------|--|---------|--------|--------|
| <b>ukb-e-23119_CSA</b>    | acute RITs | Arm fat percentage (right)   | -0.0015 | 0.0079 | 0.8525 |
| <b>ukb-e-23121_AFR</b>    | acute RITs | Arm fat-free mass (right)  | -0.0018 | 0.0043 | 0.6780 |
| <b>ukb-b-8909</b>         | acute RITs | Body fat percentage  | 0.0001  | 0.0012 | 0.9115 |
| <b>ukb-e-23099_AFR</b>    | acute RITs | Body fat percentage  | 0.0006  | 0.0058 | 0.9235 |
| <b>ukb-e-23104_AFR</b>    | acute RITs | Body mass index (BMI)  | -0.0013 | 0.0052 | 0.8001 |
| <b>ebi-a-GCST90092504</b> | acute RITs | Carotid Intima-media thickness (mean of the maximum cIMT)                                  | -0.0186 | 0.0092 | 0.0559 |
| <b>ebi-a-GCST008029</b>   | acute RITs | Diastolic blood pressure   | -0.0045 | 0.0051 | 0.3837 |
| <b>ieu-b-106</b>          | acute RITs | FEV1/FVC < 0.7   | 0.0003  | 0.0019 | 0.8563 |
| <b>ieu-b-4853</b>         | acute RITs | Forced expiratory volume in 1-second   | 0.0403  | 0.0173 | 0.0594 |
| <b>ukb-e-46_AFR</b>       | acute RITs | Hand grip strength (left)  | -0.0082 | 0.0077 | 0.2998 |
| <b>ukb-b-8875</b>         | acute RITs | Heel bone mineral density (BMD)  | -0.0001 | 0.0009 | 0.9304 |
| <b>ukb-a-500</b>          | acute RITs | Heel bone mineral density (BMD) T-score automated  | 0.0006  | 0.0011 | 0.6038 |
| <b>ukb-a-500</b>          | acute RITs | Heel bone mineral density (BMD) T-score automated  | 0.0006  | 0.0011 | 0.6038 |
| <b>ukb-a-361</b>          | acute RITs | Heel bone mineral density (BMD) T-score automated (left)                                   | 0.0005  | 0.0014 | 0.7359 |
| <b>ukb-a-361</b>          | acute RITs | Heel bone mineral density (BMD) T-score automated (left)                                   | 0.0005  | 0.0014 | 0.7359 |
| <b>ukb-a-362</b>          | acute RITs | Heel bone mineral density (BMD) T-score automated (right)                                  | 0.0012  | 0.0014 | 0.3664 |
| <b>ukb-a-362</b>          | acute RITs | Heel bone mineral density (BMD) T-score automated (right)                                  | 0.0012  | 0.0014 | 0.3664 |
| <b>ukb-b-20124</b>        | acute RITs | Heel bone mineral density (BMD) T-score, automated   | 0.0001  | 0.0009 | 0.9229 |
| <b>ukb-b-11364</b>        | acute RITs | Heel bone mineral density (BMD), manual entry  | -0.0005 | 0.0024 | 0.8263 |
| <b>ukb-b-17612</b>        | acute RITs | Heel bone ultrasound T-score, manual entry   | 0.0034  | 0.0032 | 0.2887 |
| <b>ukb-b-17612</b>        | acute RITs | Heel bone ultrasound T-score, manual entry   | 0.0034  | 0.0032 | 0.2887 |
| <b>ukb-b-17952</b>        | acute RITs | Heel Broadband ultrasound attenuation (BUA), manual entry                                  | -0.0013 | 0.0031 | 0.6879 |
| <b>ukb-b-17952</b>        | acute RITs | Heel Broadband ultrasound attenuation (BUA), manual entry                                  | -0.0013 | 0.0031 | 0.6879 |
| <b>ukb-b-5447</b>         | acute RITs | Heel broadband ultrasound attenuation (left)   | 0.0010  | 0.0013 | 0.4324 |
| <b>ukb-b-5447</b>         | acute RITs | Heel broadband ultrasound attenuation (left)   | 0.0010  | 0.0013 | 0.4324 |
| <b>ukb-b-6027</b>         | acute RITs | Heel broadband ultrasound attenuation (right)  | 0.0024  | 0.0012 | 0.0562 |
| <b>ukb-b-6027</b>         | acute RITs | Heel broadband ultrasound attenuation (right)  | 0.0024  | 0.0012 | 0.0562 |
| <b>ukb-b-6027</b>         | acute RITs | Heel broadband ultrasound attenuation (right)  | 0.0024  | 0.0012 | 0.0562 |
| <b>ukb-b-15851</b>        | acute RITs | Heel Broadband ultrasound attenuation, direct entry  | -0.0001 | 0.0010 | 0.9270 |
| <b>ukb-b-19234</b>        | acute RITs | Heel quantitative ultrasound index (QUI), direct entry                                     | 0.0001  | 0.0009 | 0.9235 |
| <b>ukb-b-19234</b>        | acute RITs | Heel quantitative ultrasound index (QUI), direct entry                                     | 0.0001  | 0.0009 | 0.9235 |
| <b>ukb-b-17848</b>        | acute RITs | Heel quantitative ultrasound index (QUI), manual entry                                     | -0.0015 | 0.0025 | 0.5458 |
| <b>ukb-e-49_AFR</b>       | acute RITs | Hip circumference  | 0.0125  | 0.0107 | 0.2602 |
| <b>ukb-e-23110_AFR</b>    | acute RITs | Impedance of arm (left)  | 0.0059  | 0.0066 | 0.3811 |
| <b>ebi-a-GCST90020194</b> | acute RITs | Inferior Posterior lobe of cerebellar volume (including Crus II to IX hemispheric lobules) | 0.0045  | 0.0071 | 0.5280 |
| <b>ukb-b-19277</b>        | acute RITs | Intra-ocular pressure, corneal-compensated (right)   | 0.0016  | 0.0026 | 0.5577 |

|                           |            |   |         |        |        |
|---------------------------|------------|---|---------|--------|--------|
| <b>bbj-a-37</b>           | acute RITs | Mean arterial pressure  | 0.0011  | 0.0042 | 0.7942 |
| <b>ebi-a-GCST90018743</b> | acute RITs | Mean arterial pressure  | -0.0064 | 0.0036 | 0.0745 |
| <b>ukb-e-MAP_p2_AFR</b>   | acute RITs | Mean arterial pressure, automated reading, adjusted by medication                         | 0.0047  | 0.0066 | 0.4847 |
| <b>ukb-e-MAP_p4_AFR</b>   | acute RITs | Mean arterial pressure, combined automated + manual reading, adjusted by medication       | 0.0045  | 0.0068 | 0.5203 |
| <b>ukb-d-30050_irnt</b>   | acute RITs | Mean corpuscular haemoglobin  | -0.0016 | 0.0009 | 0.0710 |
| <b>ebi-a-GCST004630</b>   | acute RITs | Mean corpuscular hemoglobin   | -0.0003 | 0.0011 | 0.7895 |
| <b>ebi-a-GCST90002390</b> | acute RITs | Mean corpuscular hemoglobin   | -0.0005 | 0.0008 | 0.5175 |
| <b>ebi-a-GCST90002391</b> | acute RITs | Mean corpuscular hemoglobin concentration   | -0.0002 | 0.0011 | 0.8341 |
| <b>ebi-a-GCST90002391</b> | acute RITs | Mean corpuscular hemoglobin concentration   | -0.0002 | 0.0011 | 0.8341 |
| <b>ebi-a-GCST90025962</b> | acute RITs | Mean corpuscular hemoglobin concentration   | 0.0004  | 0.0007 | 0.5770 |
| <b>ebi-a-GCST004602</b>   | acute RITs | Mean corpuscular volume   | -0.0001 | 0.0011 | 0.9556 |
| <b>ebi-a-GCST90002392</b> | acute RITs | Mean corpuscular volume   | 0.0000  | 0.0007 | 0.9996 |
| <b>ebi-a-GCST90025963</b> | acute RITs | Mean corpuscular volume   | -0.0007 | 0.0007 | 0.3450 |
| <b>ukb-d-30040_irnt</b>   | acute RITs | Mean corpuscular volume   | -0.0003 | 0.0008 | 0.7096 |
| <b>ebi-a-GCST90013979</b> | acute RITs | Mean corpuscular volume (UKB data field 30040)  | -0.0011 | 0.0008 | 0.1851 |
| <b>ukb-a-251</b>          | acute RITs | Overall health rating   | 0.0031  | 0.0030 | 0.2984 |
| <b>ieu-a-274</b>          | acute RITs | Packed cell volume  | 0.0001  | 0.0044 | 0.9845 |
| <b>ebi-a-GCST90000065</b> | acute RITs | Pulse pressure  | -0.0009 | 0.0014 | 0.5210 |
| <b>ukb-e-PP_p1_CSA</b>    | acute RITs | Pulse pressure, automated reading   | -0.0018 | 0.0102 | 0.8655 |
| <b>ukb-e-R19_CSA</b>      | acute RITs | R19 Other symptoms and signs involving the digestive system and abdomen                   | -0.0009 | 0.0099 | 0.9275 |
| <b>ebi-a-GCST90020192</b> | acute RITs | Superior Posterior lobe of cerebellar volume (including VI to Crus I hemispheric lobules) | -0.0113 | 0.0059 | 0.0576 |
| <b>ebi-a-GCST005349</b>   | acute RITs | Total body bone mineral density (age over 60)   | 0.0010  | 0.0032 | 0.7591 |
| <b>ebi-a-GCST90020190</b> | acute RITs | Total cerebellar volume (excluding Crus I vermis)   | -0.0049 | 0.0083 | 0.5514 |
| <b>ukb-e-23128_AFR</b>    | acute RITs | Trunk fat mass  | -0.0060 | 0.0065 | 0.3663 |
| <b>ukb-e-23127_AFR</b>    | acute RITs | Trunk fat percentage  | -0.0021 | 0.0053 | 0.6942 |
| <b>ebi-a-GCST90002228</b> | acute RITs | Two-hour glucose  | 0.0007  | 0.0095 | 0.9428 |
| <b>ebi-a-GCST90013422</b> | acute RITs | Ultradistal forearm bone mineral density  | 0.0079  | 0.0045 | 0.0865 |
| <b>ieu-a-61</b>           | acute RITs | Waist circumference   | 0.0001  | 0.0034 | 0.9667 |
| <b>ieu-a-72</b>           | acute RITs | Waist-to-hip ratio  | 0.0009  | 0.0045 | 0.8401 |
| <b>ebi-a-GCST90095035</b> | acute RITs | Waist-to-hip ratio adjusted for BMI   | -0.0173 | 0.0091 | 0.0666 |
| <b>ukb-d-5610_3</b>       | acute RITs | Which eye(s) affected by presbyopia: Both eyes  | 0.0039  | 0.0091 | 0.6739 |
| <b>ukb-e-Z09_CSA</b>      | acute RITs | Z09 Follow-up examination after treatment for conditions other than malignant neoplasms   | -0.0040 | 0.0077 | 0.6144 |
| <b>ukb-e-Z12_CSA</b>      | acute RITs | Z12 Special screening examination for neoplasms   | 0.0099  | 0.0104 | 0.3622 |
| <b>ukb-b-5779</b>         | acute RITs | Alcohol intake frequency.   | 0.0022  | 0.0016 | 0.1571 |
| <b>ukb-a-32</b>           | acute RITs | Alcohol intake versus 10 years previously   | 0.0094  | 0.0051 | 0.0728 |
| <b>ukb-e-1628_CSA</b>     | acute RITs | Alcohol intake versus 10 years previously   | 0.0039  | 0.0079 | 0.6274 |

|                           |            |  |         |        |        |
|---------------------------|------------|--|---------|--------|--------|
| <b>ieu-b-4825</b>         | acute RITs | Cigarettes smoked per day  | -0.0083 | 0.0083 | 0.3313 |
| <b>ukb-b-1572</b>         | acute RITs | Difficulty not smoking for 1 day   | -0.0056 | 0.0067 | 0.4112 |
| <b>ukb-d-20541</b>        | acute RITs | Difficulty stopping worrying during worst period of anxiety                          | 0.0162  | 0.0091 | 0.0959 |
| <b>ukb-d-20425</b>        | acute RITs | Ever worried more than most people would in similar situation                        | 0.0027  | 0.0083 | 0.7436 |
| <b>ebi-a-GCST006944</b>   | acute RITs | Experiencing mood swings   | 0.0032  | 0.0036 | 0.3795 |
| <b>ieu-b-117</b>          | acute RITs | HOMA-B   | -0.0113 | 0.0113 | 0.3328 |
| <b>ukb-a-47</b>           | acute RITs | Irritability   | -0.0022 | 0.0044 | 0.6080 |
| <b>ebi-a-GCST90013875</b> | acute RITs | Irritability (UKB data field 1940) (Firth correction)                                | -0.0002 | 0.0036 | 0.9639 |
| <b>ebi-a-GCST90013925</b> | acute RITs | Irritability (UKB data field 1940) (SPA correction)                                  | -0.0002 | 0.0036 | 0.9543 |
| <b>ebi-a-GCST90013873</b> | acute RITs | Mood swings (UKB data field 1920) (Firth correction)                                 | -0.0027 | 0.0033 | 0.4171 |
| <b>ebi-a-GCST90013923</b> | acute RITs | Mood swings (UKB data field 1920) (SPA correction)                                   | -0.0027 | 0.0033 | 0.4178 |
| <b>ukb-a-342</b>          | acute RITs | Number of cigarettes currently smoked daily (current cigarette smokers)              | -0.0042 | 0.0074 | 0.5812 |
| <b>ukb-a-238</b>          | acute RITs | Pack years adult smoking as proportion of life span exposed to smoking PREVIEW ONLY  | -0.0055 | 0.0037 | 0.1458 |
| <b>ukb-a-237</b>          | acute RITs | Pack years of smoking PREVIEW ONLY   | -0.0032 | 0.0037 | 0.3954 |
| <b>ieu-a-1046</b>         | acute RITs | Pallidum volume  | -0.0227 | 0.0119 | 0.0861 |
| <b>ebi-a-GCST008027</b>   | acute RITs | Smoking behavior (cigarettes smoked per day)   | 0.0024  | 0.0054 | 0.6645 |
| <b>ukb-e-2010_AFR</b>     | acute RITs | Suffer from 'nerves'   | 0.0044  | 0.0134 | 0.7474 |
| <b>ebi-a-GCST90025968</b> | acute RITs | Systolic blood pressure  | 0.0000  | 0.0012 | 0.9718 |
| <b>ieu-b-38</b>           | acute RITs | systolic blood pressure  | -0.0010 | 0.0010 | 0.3260 |
| <b>ebi-a-GCST90014018</b> | acute RITs | Systolic blood pressure automated reading (UKB data field 4080)                      | -0.0018 | 0.0015 | 0.2485 |
| <b>ukb-e-SBP_p1_AFR</b>   | acute RITs | Systolic blood pressure, automated reading, adjusted by medication                   | 0.0047  | 0.0054 | 0.3925 |
| <b>ukb-e-SBP_p2_AFR</b>   | acute RITs | Systolic blood pressure, combined automated + manual reading                         | -0.0009 | 0.0074 | 0.9103 |
| <b>ukb-e-SBP_p3_AFR</b>   | acute RITs | Systolic blood pressure, combined automated + manual reading, adjusted by medication | 0.0080  | 0.0066 | 0.2439 |
| <b>ukb-e-6164_p6_CSA</b>  | acute RITs | Types of physical activity in last 4 weeks   | -0.0013 | 0.0124 | 0.9180 |
| <b>ukb-d-22612_2</b>      | acute RITs | Worked with materials containing asbestos: Often                                     | 0.0071  | 0.0083 | 0.4080 |
| <b>ukb-d-22609_0</b>      | acute RITs | Workplace very dusty: Rarely/never   | 0.0117  | 0.0102 | 0.2668 |
| <b>ieu-a-1010</b>         | acute RITs | Years of schooling   | -0.0044 | 0.0050 | 0.3841 |
| <b>ukb-e-Z88_AFR</b>      | acute RITs | Z88 Personal history of allergy to drugs, medicaments and biological substances      | -0.0109 | 0.0073 | 0.1559 |

**Table S5 Multivariable Mendelian randomization of biologically related traits**

| Exposure                            | SNPn | $\beta$ | Se    | lo_ci  | up_ci  | P value | OR    | OR_lci95 | OR_uci95 | Group              |
|-------------------------------------|------|---------|-------|--------|--------|---------|-------|----------|----------|--------------------|
| <b>Systolic blood pressure</b>      | 313  | 0.009   | 0.036 | -0.022 | 0.037  | 0.590   | 1.020 | 0.950    | 1.090    | Blood Pressure     |
| <b>Diastolic blood pressure</b>     | 1    | NA      | NA    | NA     | NA     | NA      | NA    | NA       | NA       | Blood Pressure     |
| <b>Systemic lupus erythematosus</b> | 13   | -0.013  | 0.010 | -0.018 | -0.004 | 0.010   | 0.970 | 0.960    | 0.990    | Autoimmune disease |
| <b>Inflammatory bowel disease</b>   | 99   | 0.000   | 0.000 | -0.009 | 0.009  | 0.970   | 1.000 | 0.980    | 1.020    | Autoimmune disease |

|   |     |        |       |        |       |       |       |       |       |                    |
|---|-----|--------|-------|--------|-------|-------|-------|-------|-------|--------------------|
| <b>Crohn's disease</b>  | 32  | 0.000  | 0.000 | -0.009 | 0.009 | 0.840 | 1.000 | 0.980 | 1.020 | Autoimmune disease |
| <b>Ulcerative colitis</b>   | 56  | 0.000  | 0.000 | -0.009 | 0.009 | 0.960 | 1.000 | 0.980 | 1.020 | Autoimmune disease |
| <b>Irritability (UKB data field 1940) (SPA correction)</b>                | 28  | 0.045  | 0.040 | 0.013  | 0.076 | 0.010 | 1.110 | 1.030 | 1.190 | Mental Problems    |
| <b>Experiencing mood swings</b>   | 34  | -0.013 | 0.076 | -0.102 | 0.057 | 0.690 | 0.970 | 0.790 | 1.140 | Mental Problems    |
| <b>Seen doctor (GP) for nerves anxiety tension or depression</b>          | 13  | -0.013 | 0.220 | -0.310 | 0.161 | 0.890 | 0.970 | 0.490 | 1.450 | Mental Problems    |
| <b>Low density lipoprotein cholesterol levels</b>                         | 125 | 0.004  | 0.020 | -0.013 | 0.017 | 0.660 | 1.010 | 0.970 | 1.040 | Cholesterol Levels |
| <b>High density lipoprotein cholesterol levels (UKB data field 30760)</b> | 106 | 0.029  | 0.030 | 0.000  | 0.053 | 0.040 | 1.070 | 1.000 | 1.130 | Cholesterol Levels |
| <b>Total cholesterol levels</b>   | 97  | -0.004 | 0.029 | -0.022 | 0.017 | 0.730 | 0.990 | 0.950 | 1.040 | Cholesterol Levels |

**Table S6 Associations of lipoprotein or cholesterol levels with acute radiation-induced toxicities**

| <b>Exposure ID</b>        | <b>Trait name</b>   | <b>Population</b> | <b>Method</b> | <b>b</b> | <b>Se</b> | <b>P value</b> | <b>OR</b> | <b>OR_lci95</b> | <b>OR_uci95</b> |
|---------------------------|---|-------------------|---------------|----------|-----------|----------------|-----------|-----------------|-----------------|
| <b>ukb-b-8909</b>         | Body fat percentage   | European          | IVW           | 0.071    | 0.034     | 0.036          | 1.074     | 1.005           | 1.148           |
| <b>ebi-a-GCST90002412</b> | Low density lipoprotein cholesterol levels  | European          | IVW           | 0.057    | 0.02      | 0.004          | 1.058     | 1.018           | 1.1             |
| <b>ebi-a-GCST90014007</b> | High density lipoprotein cholesterol levels (UKB data field 30760)                  | European          | IVW           | 0.055    | 0.022     | 0.013          | 1.057     | 1.012           | 1.103           |
| <b>ebi-a-GCST90025953</b> | Total cholesterol levels  | European          | IVW           | 0.055    | 0.023     | 0.018          | 1.057     | 1.01            | 1.106           |
| <b>ebi-a-GCST90092809</b> | Apolipoprotein B levels   | European          | IVW           | 0.061    | 0.025     | 0.014          | 1.063     | 1.012           | 1.116           |
| <b>ebi-a-GCST90092887</b> | Concentration of LDL particles  | European          | IVW           | 0.067    | 0.025     | 0.008          | 1.069     | 1.018           | 1.123           |
| <b>ieu-b-110</b>          | LDL cholesterol   | European          | IVW           | 0.066    | 0.024     | 0.006          | 1.068     | 1.019           | 1.119           |
| <b>ieu-b-4844</b>         | HDL cholesterol   | European          | IVW           | 0.052    | 0.02      | 0.009          | 1.053     | 1.013           | 1.095           |
| <b>met-d-HDL_C</b>        | HDL cholesterol   | European          | IVW           | 0.051    | 0.022     | 0.019          | 1.052     | 1.008           | 1.098           |
| <b>met-d-HDL_P</b>        | Concentration of HDL particles  | European          | IVW           | 0.066    | 0.025     | 0.009          | 1.068     | 1.017           | 1.122           |
| <b>met-d-LDL_P</b>        | Concentration of LDL particles  | European          | IVW           | 0.061    | 0.025     | 0.014          | 1.063     | 1.012           | 1.116           |
| <b>met-d-M_HDL_C</b>      | Cholesterol in medium HDL   | European          | IVW           | 0.062    | 0.025     | 0.012          | 1.064     | 1.014           | 1.117           |
| <b>met-d-M_HDL_P</b>      | Concentration of medium HDL particles   | European          | IVW           | 0.055    | 0.025     | 0.026          | 1.056     | 1.007           | 1.108           |
| <b>met-d-M_HDL_PL_pct</b> | Phospholipids to total lipids ratio in medium HDL                                   | European          | IVW           | -0.063   | 0.023     | 0.006          | 0.939     | 0.898           | 0.982           |
| <b>ebi-a-GCST90060571</b> | Fatty acid(16:1)_[M-H]1- levels   | South Asian       | IVW           | -0.104   | 0.035     | 0.003          | 0.902     | 0.842           | 0.965           |
| <b>ebi-a-GCST90060625</b> | Diacylglycerol(36:2)_[M+NH4]1+ levels   | South Asian       | IVW           | -0.134   | 0.047     | 0.004          | 0.874     | 0.798           | 0.958           |
| <b>ebi-a-GCST90060634</b> | Cholesteryl ester(18:3)_[M+NH4]1+ levels  | South Asian       | IVW           | 0.125    | 0.047     | 0.008          | 1.133     | 1.033           | 1.242           |
| <b>ebi-a-GCST90060671</b> | Phosphatidylcholine-O(32:0)_[M+H]1+/Phosphatidylethanolamine-O(35:0)_[M+H]1+ levels | South Asian       | IVW           | 0.141    | 0.059     | 0.017          | 1.151     | 1.026           | 1.292           |
| <b>ebi-a-GCST90060999</b> | Triacylglycerol(56:3)_[M+NH4]1+ levels  | South Asian       | IVW           | -0.125   | 0.039     | 0.001          | 0.882     | 0.817           | 0.953           |

**Table S7 Associations of circulating leptin levels with acute radiation-induced toxicities**

| <b>Exposure ID</b>        | <b>Trait name</b>                          | <b>Population</b> | <b>Method</b> | <b>b</b> | <b>Se</b> | <b>P value</b> | <b>OR</b> | <b>OR_lci95</b> | <b>OR_uci95</b> |
|---------------------------|--|-------------------|---------------|----------|-----------|----------------|-----------|-----------------|-----------------|
| <b>ebi-a-GCST90007322</b> | Circulating leptin levels adjusted for BMI | European          | IVW           | -0.18    | 0.069     | 0.009          | 0.835     | 0.73            | 0.956           |
| <b>ebi-a-GCST90007319</b> | Circulating leptin levels adjusted for BMI | Mixed             | IVW           | -0.173   | 0.065     | 0.008          | 0.841     | 0.74            | 0.955           |
| <b>ebi-a-GCST90007309</b> | Circulating leptin levels                  | Mixed             | IVW           | -0.179   | 0.07      | 0.01           | 0.836     | 0.729           | 0.959           |
| <b>ebi-a-GCST90007313</b> | Circulating leptin levels                  | Mixed             | IVW           | -0.141   | 0.056     | 0.012          | 0.869     | 0.779           | 0.969           |
| <b>ebi-a-GCST90007307</b> | Circulating leptin levels                  | Mixed             | IVW           | -0.156   | 0.059     | 0.008          | 0.856     | 0.762           | 0.961           |