

Supplementary table 1. Clinicopathologic factors of the gastric cancer patients from Sun Yat-sen University Cancer Center

Factor	Number (%)
Sex	
Male	1404 (66.64)
Female	703 (33.36)
Age	
Mean \pm SD	56.96 \pm 12.05
Location	
Cardia	218 (10.35)
Fundus	371 (17.61)
Body	320 (15.19)
Antrum	722 (34.27)
Others	476 (22.58)
Grade	
Poorly differentiated	1383 (65.63)
Moderated differentiated	506 (24.02)
High differentiated	218 (10.35)
T stage	
T1	181 (8.59)
T2	202 (9.59)
T3	326 (15.47)
T4a	810 (38.44)
T4b	212 (10.06)
Tx	376 (17.85)
N stage	
N0	525 (24.92)
N1	294 (13.95)
N2	359 (17.04)
N3a	347 (16.47)
N3b	150 (7.12)
Nx	432 (20.50)
TNM 7 th stage	
IA	105 (4.98)
IB	113 (5.36)
IIA	131 (6.22)
IIB	310 (14.71)
IIIA	195 (9.25)
IIIB	293 (13.91)
IIIC	308 (14.62)
IV	652 (30.94)
TNM 8 th stage	
IA	105 (4.98)

IB	113 (5.36)
IIA	131 (6.22)
IIB	310 (14.71)
IIIA	367 (17.42)
IIIB	287 (13.62)
IIIC	142 (6.74)
IV	652 (30.94)
New TNM stage	
IA	105 (4.98)
IB	113 (5.36)
IIA	131 (6.22)
IIB	310 (14.71)
IIIA	195 (9.25)
IIIB	459 (21.78)
IIIC	142 (6.74)
IV	652 (30.94)

Supplementary table 2. New TNM staging classification

	N0	N1	N2	N3a	N3b
T1	IA	IB	IIA	IIB	IIIB
T2	IB	IIA	IIB	IIIA	IIIB
T3	IIA	IIB	IIIA	IIIB	IIIC
T4a	IIB	IIIA	IIIB	IIIB	IIIC
T4b	IIIB	IIIB	IIIB	IIIC	IV

TxNxM1 was considered as stage IV.

Supplementary Table 3. Survival of gastric cancer patients in each stage category

	Number (%)	mOS (months)	5y-OS	95% CI
T1N0M0	1781 (9.83)	Not reached	85.45%	83.65%-87.07%
T1N1M0	248 (1.37)	Not reached	62.44%	55.77%-68.39%
T2N0M0	659 (3.64)	Not reached	76.78%	73.16%-79.98%
T1N2M0	118 (0.65)	Not reached	61.14%	51.33%-69.56%
T2N1M0	268 (1.48)	Not reached	61.56%	55.01%-67.44%
T3N0M0	919 (5.07)	Not reached	60.00%	56.61%-63.21%
T1N3aM0	30 (0.17)	31	49.82%	30.32%-66.58%
T2N2M0	161 (0.89)	55	48.38%	39.94%-56.31%
T3N1M0	680 (3.75)	44	44.69%	40.69%-48.61%
T4N0M0	425 (2.34)	57	49.59%	44.51%-54.45%
T1N3bM0	15 (0.08)	17	22.86%	5.71%-46.72%
T2N3aM0	76 (0.42)	40	39.16%	27.31%-50.81%
T3N2M0	741 (4.09)	30	33.95%	30.35%-37.57%
T4aN1M0	375 (2.07)	26	34.09%	29.11%-39.13%
T4bN0M0	160 (0.88)	25	37.84%	30.03%-45.60%
T2N3bM0	27 (0.15)	55	44.67%	23.41%-63.93%
T3N3aM0	677 (3.74)	21	24.42%	21.04%-27.94%
T4aN2M0	477 (2.63)	21	24.64%	20.56%-28.92%
T4bN1M0	162 (0.89)	16	20.57%	14.35%-27.57%
T3N3bM0	240 (1.32)	14	11.84%	7.91%-16.63%
T4aN3aM0	515 (2.84)	18	17.11%	13.76%-20.77%
T4bN2M0	151 (0.83)	15	21.63%	15.24%-28.76%
T4aN3bM0	282 (1.56)	12	9.89%	6.52%-14.07%
T4bN3aM0	166 (0.92)	14	9.83%	5.47%-15.70%
T4bN3bM0	107 (0.59)	7	2.44%	0.48%-7.6%
TxNxM1	8665 (47.81)	5	3.17%	2.77%-3.6%