Supplementrary materials Supplementrary Table Legends

Table S1. Methodological quality of the included studies based on the Newcastle-Ottawa Scale.

Table S2. (A) Subgroup analyses stratified by some of the baseline characteristics for associations between

 CCNE1 amplification and overall survival; **(B)** Subgroup analyses stratified by some of the baseline characteristics

 for associations between *CCNE1* amplification and progression free survival.

Table S3. (A) Subgroup analyses stratified by some of the baseline characteristics for associations between *CCNE1* overexpression and overall survival;(B) Subgroup analyses stratified by some of the baseline characteristics for associations between *CCNE1* overexpression and progression free survival;(C) Subgroup analyses stratified by some of the baseline characteristics for associations between *CCNE1* overexpression and recurrence free survival;(D) Subgroup analyses stratified by some of the baseline characteristics for associations between *CCNE1* overexpression and recurrence free survival;(D) Subgroup analyses stratified by some of the baseline characteristics for associations between *CCNE1* overexpression and cancer specific survival.(E)Subgroup analyses stratified by some of the baseline characteristics for associations between *CCNE1* overexpression and by some of the baseline characteristics for associations between *CCNE1* overexpression and by some of the baseline characteristics for associations between *CCNE1* overexpression and by some of the baseline characteristics for associations between *CCNE1* overexpression and by some of the baseline characteristics for associations between *CCNE1* overexpression and by some of the baseline characteristics for associations between *CCNE1* overexpression and by some of the baseline characteristics for associations between *CCNE1* overexpression and by some of the baseline characteristics for associations between *CCNE1* overexpression and distant metastasis free survival.

Study	Design	Selection	Comparability	Outcome/exposure	Overall quality(max=9)
Ayhan A(2016)	Cohort	$\star \star \star^a$	**	**	8
Nakayama K(2015)	Cohort	****	**	**	8
Pils D(2014)	Cohort	***	**	**	7
TCGA(2011)	Cohort	***	**	***	8
Nakayama N(2010)	Cohort	***	**	*	6
Luhtala S(2016)	Cohort	***	*	**	6
Zhou Z(2014)	Cohort	****	**	**	8
Wu S(2014)	Cohort	***	**	***	8
Farley J(2003)	Cohort	***	**	*	6
Shariat SF(2006)	Cohort	****	**	**	8
Chappuis PO(2005)	Cohort	***	*	**	6
Lotan Y(2013)	Cohort	****	**	**	8
Lundgren C(2015)	Case-control	****	**	*	7
Matsushita R(2015)	Cohort	***	**	*	6
Marchini S(2008)	Cohort	****	**	*	7
Sieuwerts AM(2006)	Cohort	***	**	***	8
Jansen MP(2011)	Cohort	***	*	**	6
Kreike B(2010)	Cohort	***	**	***	8
Desmedt C(2006)	Cohort	***	*	***	7
Fredholm H(2017)	Cohort	***	**	***	8

Table S1. Methodological quality of the included studies based on the Newcastle-Ottawa Scale

a: each asterisk represents if individual criterion within the subsection was fulfilled.

	IID	0.50/ 01	1	Degree of	f heterogeneity	No. of involved
	HR	95%CI	<i>p</i> value	I ² statistics	p value (Q test)	Studies
Total	1.59	1.05 to 2.40	0.027	75%	0.003	5
Tumor type						
ovarian cancer	1.46	0.98 to 2.18	0.064	76.5%	0.005	4
endometrial carcinomas	3.80	1.02 to 14.22	0.047	/	/	1
Analysis methods						
Univariate analysis	1.22	0.90 to 1.65	0.193	61.8%	0.073	3
Multivariate analysis	3.45	1.76 to 6.77	< 0.001	0	0.867	2
Method						
FISH	2.46	1.33 to 4.56	0.004	23.8%	0.269	3
PCR	1.03	0.90 to 1.17	0.659	/	/	1
Microarray	1.49	1.10 to 2.01	0.009	/	/	1
Region						
North America	1.49	1.10 to 2.01	0.009	/	/	1
Europe	1.03	0.90 to 1.17	0.659	/	/	1
Asia	3.45	1.76 to 6.77	< 0.001	0	0.867	2
Mixed	1.42	0.61 to 3.30	0.415	/	/	1
Source of HR						
Survival curve	1.49	1.10 to 2.01	0.009	/	/	1
Reported	1.83	0.91 to 3.67	0.090	75.7%	0.006	4
Research center						
Single	3.45	1.76 to 6.77	< 0.001	0	0.867	2
Multicenter	1.22	0.90 to 1.65	0.193	61.8%	0.073	3
Quality						
> 7	1.54	1.17 to 2.04	0.002	0	0.390	3
<=7	1.73	0.55 to 5.44	0.345	88.1%	0.004	2

Table S2A. Subgroup analyses stratified by some of the baseline characteristics for associations between *CCNE1* amplification and overall survival

	UD	0.50/ CI	1	Degree	e of heterogeneity	No. of involved Studies
	HR	95%CI	p value	I ² statistics	p value (Q test)	
Total	1.49	0.83 to 2.67	0.177	62.3%	0.07	3
Tumor type						
ovarian cancer	1.41	0.71 to 2.80	0.328	75.5%	0.043	2
endometrial carcinomas	2.20	0.63 to 7.73	0.219	/	/	1
Analysis methods						
Univariate analysis	1.07	0.98 to 1.17	0.134	/	/	1
Multivariate analysis	2.20	1.20 to 4.04	0.011	0	1	2
Method						
FISH	2.20	1.20 to 4.04	0.011	0	1	2
PCR	1.07	0.98 to 1.17	0.134	/	/	1
Region						
Europe	1.07	0.98 to 1.17	0.134	/	/	1
Asia	2.20	1.20 to 4.04	0.011	0	1	2
Source of HR						
Survival curve	/	/		/	/	0
Reported	1.49	0.83 to 2.67	0.177	62.3%	0.07	3
Research center						
Single	2.20	1.20 to 4.04	0.011	0	1	2
Multicenter	1.07	0.98 to 1.17	0.134	/	/	1
Quality						
> 7	2.20	0.63 to 7.73	0.219	/	/	1
<=7	1.41	0.83 to 2.67	0.328	75.5%	0.043	2

Table S2B. Subgroup analyses stratified by some of the baseline characteristics for associations between *CCNE1* amplification and progression free survival

	HR	95%CI	<i>p</i> value	Degree	e of heterogeneity	No. of involved
	пк	95%001	<i>p</i> value	I ² statistics	p value (Q test)	Studies
Total	1.52	1.05 to 2.20	0.027	78.5%	< 0.001	10
Tumor type						
bladder cancer	1.65	0.69 to 3.95	0.261	/	/	1
ovarian cancer	1.28	0.81 to 2.03	0.283	80.3%	< 0.001	5
breast cancer	1.95	1.43 to 2.65	< 0.001	/	/	1
endometrial carcinomas	1.90	0.68 to 5.28	0.218	/	/	1
esophageal adenocarcinoma	0.96	0.49 to 1.89	0.906	/	/	1
upper tract urothelial carcinoma	36.27	4.24 to 310.09	0.001	/	/	1
Analysis methods						
Univariate analysis	1.44	0.97 to 2.14	0.069	0	0.545	4
Multivariate analysis	1.59	0.95 to 2.67	0.076	87.3%	< 0.001	6
Method						
ІНС	1.97	1.14 to 3.40	0.015	64.3%	0.016	6
RT-qPCR	1.19	0.69 to 2.06	0.529	87.8%	< 0.001	4
Microarray	/	/	/	/	/	0
Expression level						
protein	1.97	1.14 to 3.40	0.015	64.3%	0.016	6
mRNA	1.19	0.69 to 2.06	0.529	87.8%	< 0.001	4
Region						
North America	1.28	0.93 to 1.78	0.133	0	0.338	2
Europe	1.11	0.59 to 2.09	0.736	91.6%	< 0.001	3
Asia	2.46	1.10 to 5.49	0.029	58.8%	0.064	4
Mixed	4	1.42 to 11.28	0.009	/	/	1
Source of HR						
Survival curve	1.18	0.69 to 2.01	0.552	0	0.337	2
Reported	1.62	1.05 to 2.50	0.029	82.9%	< 0.001	8
Research center						
Single	1.58	0.98 to 2.56	0.063	59.9%	0.029	6
Multicenter	1.47	0.76 to 2.81	0.250	89.8%	< 0.001	4
Quality						
> 7	1.52	1.05 to 2.20	0.013	69.6%	0.011	5
<=7	1.15	0.78 to 1.70	0.473	73.3%	0.005	5

 Table S3A. Subgroup analyses stratified by some of the baseline characteristics for associations between CCNE1

 overexpression and overall survival

	HR	95%CI	n value	Degree	e of heterogeneity	No. of involved Studies
	TIK 9370C	95%CI	<i>p</i> value	I ² statistics	p value (Q test)	
Total	1.20	1.07 to 1.34	0.001	41%	0.148	5
Tumor type						
ovarian cancer	1.14	0.97 to 1.34	0.109	65.6%	0.055	3
breast cancer	1.24	1.06 to 1.45	0.006	/	/	1
endometrial carcinomas	1.70	0.60 to 4.81	0.317	/	/	1
Analysis methods						
Univariate analysis	1.01	0.82 to 1.24	0.958	5.3%	0.348	3
Multivariate analysis	1.29	1.13 to 1.47	< 0.001	0	0.377	2
Method						
IHC	1.49	0.83 to 2.65	0.178	0	0.761	2
RT-qPCR	1.19	1.06 to 1.33	0.003	67.4%	0.047	3
Microarray	/	/	/	/	/	0
Expression level						
protein	1.49	0.83 to 2.65	0.178	0	0.761	2
mRNA	1.19	1.06 to 1.33	0.003	67.4%	0.047	3
Region						
Europe	1.19	1.06 to 1.33	0.003	67.4%	0.047	3
Asia	1.49	0.83 to 2.65	0.178	0	0.761	2
Source of HR						
Survival curve	/	/	/	/	/	0
Reported	1.20	1.07 to 1.34	0.001	41%	0.148	5
Research center						
Single	1.29	1.14 to 1.47	< 0.001	0	0.776	4
Multicenter	0.95	0.76 to 1.18	0.648	/	/	1
Quality						
> 7	1.70	0.60 to 4.81	0.317	/	/	1
<=7	1.19	1.07 to 1.33	0.002	52.7%	0.096	4

Table S3B. Subgroup analyses stratified by some of the baseline characteristics for associations between *CCNE1* overexpression and progression free survival

	HR	050/ CI	<i>p</i> value	Degree	e of heterogeneity	No. of involved Studies
	IIK	95%CI	<i>p</i> value	I ² statistics	p value (Q test)	
Total	1.68	0.81 to 3.50	0.164	83%	< 0.001	5
Tumor type						
breast cancer	2.01	1.08 to 3.71	0.027	48.4%	0.144	3
bladder cancer	1.25	0.29 to 5.43	0.766	86.6%	0.006	2
Analysis methods						
Univariate analysis	1.68	0.81 to 3.50	0.164	83%	< 0.001	5
Multivariate analysis	/	/	/	/	/	0
Method						
IHC	1.19	0.53 to 2.67	0.672	78%	0.011	3
RT-qPCR	2.26	1.44 to 3.56	< 0.001	/	/	1
Microarray	7.22	1.09 to 47.83	0.040	/	/	1
Expression level						
protein	1.19	0.53 to 2.67	0.672	78%	0.011	3
mRNA	2.77	1.17 to 6.58	0.021	27%	0.242	2
Region						
Europe	2.01	1.08 to 3.71	0.027	48.4%	0.144	3
North America	1.25	0.29 to 5.43	0.766	86.6%	0.006	2
Source of HR						
Survival curve	0.63	0.42 to 0.94	/	/	/	1
Reported	2.10	1.31 to 3.36	0.002	30.8%	0.228	4
Research center						
Single	1.68	0.81 to 3.50	0.164	83%	< 0.001	5
Multicenter	/	/	/	/	/	0
Quality						
> 7	1.93	0.46 to 8.08	0.366	84.1%	0.002	3
<=7	1.78	1.02 to 3.11	0.042	50%	0.157	2

Table S3C. Subgroup analyses stratified by some of the baseline characteristics for associations between *CCNE1* overexpression and recurrence free survival

	HR	050/ CI	<i>p</i> value	Degree	e of heterogeneity	No. of included
	IIK	95%CI	<i>p</i> value	I ² statistics	p value (Q test)	Studies
Total	1.54	0.74 to 3.18	0.246	90.4%	< 0.001	4
Tumor type						
bladder cancer	1.14	0.20 to 6.50	0.884	87.1%	0.005	2
breast cancer	2.10	1.03 to 4.25	0.040	84.6%	0.011	2
Analysis methods						
Univariate analysis	1.54	0.74 to 3.18	0.246	90.4%	< 0.001	4
Multivariate analysis	/	/	/	/	/	0
Method						
IHC	1.54	0.74 to 3.18	0.246	90.4%	< 0.001	4
RT-qPCR	/	/	/	/	/	0
Microarray	/	/	/	/	/	0
Expression level						
protein	1.54	0.74 to 3.18	0.246	90.4%	< 0.001	4
mRNA	/	/	/	/	/	0
Region						
North America	1.63	0.40 to 6.61	0.495	93.1%	< 0.001	3
Europe	1.53	1.33 to 1.77	< 0.001	/	/	1
Source of HR						
Survival curve	1.26	0.21 to 7.58	0.800	96.2%	< 0.001	2
Reported	1.66	1.07 to 2.57	0.022	21.8%	0.258	2
Research center						
Single	1.63	0.40 to 6.61	0.495	93.1%	< 0.001	3
Multicenter	1.53	1.33 to 1.77	< 0.001	/	/	1
Quality						
> 7	1.14	0.20 to 6.50	0.884	87.1%	0.005	2
<=7	2.10	1.03 to 4.25	0.040	84.6%	0.011	2

Table S3D. Subgroup analyses stratified by some of the baseline characteristics for associations between *CCNE1* overexpression and cancer specific survival

	UD		1	Degree	e of heterogeneity	No. of included Studies
	HR	95% CI	p value	I ² statistics	p value (Q test)	
Total	1.62	1.09 to 2.40	0.017	86.6%	0.001	3
Tumor type						
breast cancer	1.62	1.09 to 2.40	0.017	86.6%	0.001	3
Analysis methods						
Univariate analysis	1.33	1 to 1.77	0.051	69.8%	0.069	2
Multivariate analysis	2.65	1.89 to 3.71	< 0.001	/	/	1
Method						
IHC	1.33	1 to 1.77	0.051	69.8%	0.069	2
RT-qPCR	2.65	1.89 to 3.71	< 0.001	/	/	1
Expression level						
protein	1.33	1 to 1.77	0.051	69.8%	0.069	2
mRNA	2.65	1.89 to 3.71	< 0.001	/	/	1
Region						
Europe	1.62	1.09 to 2.40	0.017	86.6%	0.001	3
Source of HR						
Reported	1.62	1.09 to 2.40	0.017	86.6%	0.001	3
Research center						
Single	1.15	0.84 to 1.48	0.455	/	/	1
Multicenter	1.95	1.12 to 3.40	0.018	89.2%	0.002	2
Quality						
> 7	1.71	0.73 to 4.00	0.215	93.2%	< 0.001	2
<=7	1.50	1.30 to 1.73	< 0.001	/	/	1

Table S3E. Subgroup analyses stratified by some of the baseline characteristics for associations between *CCNE1* overexpression and distant metastasis free survival.