

**Supplementary Table 1 General characteristic of the eligible studies.**

Study source	Study design	Year	Country	Study period	Male/Female (N)	Age	Follow-up period (m)	Treatment	TNM Stage	Cut-off value (< CV/ $\geq$ CV)	Summary result	NOS score
Ock <i>et al</i> <sup>[35]</sup>	R	2017	South Korea	2004-2014	534/211 (745)	60 (20-89)	37.8 (1.6-117)	S	NA	2.42 (372/373)	Positive	7
Deng <i>et al</i> <sup>[22]</sup>	R	2015	China	2007-2009	282/107 (389)	65 (29-62)	24 (3-60)	S	I -IV	2.36 (132/257)	Negative	8
Kim EY <i>et al</i> <sup>[28]</sup>	P	2015	South Korea	2000-2009	1317/669 (1986)	59 (23-88)	NA	S	I -III	2 (1247/739)	Positive	6
Gonda <i>et al</i> <sup>[24]</sup>	R	2017	Japan	2013-2015	56/54 (110)	66.2 (35-80)	NA	C	IV	3 (53/47)	Positive	6
Cho IR <i>et al</i> <sup>[21]</sup>	R	2014	South Korea	2006-2009	175/93 (268)	55.4	11 (2-60)	C	III-IV	3 (130/138)	Positive	7
Kim JH <i>et al</i> <sup>[29]</sup>	R	2015	South Korea	2005-2011	401/200 (601)	59.5	49 (2.4-104.4)	S	I -III	1.7 (280/321)	Positive	7

Jeong <i>et al</i> <sup>[26]</sup>	R	2012	South Korea	2002-2009	69/35 (104)	52.5 (28-82)	11.9 (10.2-11.9)	C	IV	3 (49/55)	Positive	8
Jin <i>et al</i> <sup>[20]</sup>	R	2017	China	2004-2007	87/32 (119)	59 (34-78)	84	ML	I -III	2.23 (56/63)	Positive	8
Jung <i>et al</i> <sup>[27]</sup>	R	2011	South Korea	2004-2007	193/100 (293)	62 (27-96)	38.2 (4.2-65.5)	S	III-IV	2 (138/155)	Positive	7
el Aziz LM <i>et al</i> <sup>[23]</sup>	P	2014	Egypt	2010-2014	47/23 (70)	53 (30-70)	NA	C	III-IV	3 (30/40)	Positive	6
Lee DY <i>et al</i> <sup>[30]</sup>	R	2013	South Korea	2002-2006	149/71 (220)	57 (23-89)	NA	S	I -IV	2.15 (164/56)	Negative	6
Lieto <i>et al</i> <sup>[31]</sup>	P	2017	Italy	2000-2015	236/165 (401)	NA	23.3 (9.3-59.7)	S	I -IV	3.22 (215/82)	Positive	8
Liu <i>et al</i> <sup>[32]</sup>	R	2107	China	2000-2012	714/342 (1056)	58 (19-89)	33 (1-97)	S	I -III	2 (505/551)	Positive	8
Mao <i>et al</i> <sup>[33]</sup>	R	2017	China	2010	237/100 (337)	59 (19-89)	29.77 (0.43-59.7)	S	I -IV	3.41 (258/79)	Positive	7
Mohri <i>et al</i> <sup>[34]</sup>	P	2014	Japan	1999-2011	85/38 (123)	66 (18-94)	29.4 (12.2-60.2)	ML	IV	3.1 (64/59)	Positive	7

Qiu <i>et al</i> <sup>[36]</sup>	R	2015	China	2001-2008	481/225 (706)	59 (24-83)	48 (3-175)	S	I -IV	3 (497/209)	Positive	7
Qu <i>et al</i> <sup>[25]</sup>	R	2017	China	2007-2013	312/124 (436)	58 (26-82)	29 (6-67)	S	I - II	2.51 (326/110)	Positive	8
Tanaka <i>et al</i> <sup>[37]</sup>	R	2014	Japan	1997-2010	122/69 (191)	64	NA	S	IV	2.5 (94/97)	Negative	6
Ubukata <i>et al</i> <sup>[38]</sup>	R	2010	Japan	1996-2003	108/49 (157)	65.27 (29-84)	NA	S	I -IV	5 (70/87)	Positive	7

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TNM: Tumor-node-metastasis; NOS: Newcastle-Ottawa scale; NA: Not available.