

Supplementary Table 1: Basic characteristics and quality assessment of the included studies

Study	Country	Study design	Inclusion period	N	Sex (% men)	Age range (mean)	Median follow-up (range), months	Recurrence (%)	Median time to recurrence (range), months	NOS scores ^a
Bae et al,2015	Japan	Cohort	1996–2013	45	62.0	54.0	66.0 (9.0–174.0)	7 (15.6)	23.7 (0.8–35.9)	7
Campos-Varela et al, 2011	Spain	Cohort	1988–2008	49	88.0	52.0 ^b ± 9.8	45.0 (2.0–152.0)	8 (16.0)	47.01 (87.7–29.2)	8
Idilman et al, 2016	Turkey	Cohort	NA	296	83.0	52.0	46.0 (1.0–272.0)	8 (2.7)	24.5 (3.0–62.0)	7
Hwang et al, 2008	Korea	Cohort	1997–2004	639	79.5	47.9 ^b ± 7.9	53.0	38 (6.4)	20.0 (5.0–74.0)	8
Kim et al, 2013	Korea	Cohort	2005–2011	154	75.3	52.7 ^b ± 7.5	28.0 (1.0–57.8)	5 (3.2)	27.1 (9.4–57.8)	7
Kiyici et al, 2008	Turkey	Case-Control	1995–2007	287	81.0	47.8 ^b ± 8.37	31.7 ^b ± 24.7	29 (10.1)	39.5 ^b ± 28.5	6
Lens et al,2018	Spain	Cohort	1997–2013	338	83.0	NA	72.0	37 (11.0)	14.0 (0–164.0)	7
Yu et al, 2019	China	Cohort	2009–2017	357	11.8	48.0 (24.0–70.0)	36.6 (0.4–107.3)	48 (13.3)	11.7 (0.8–53.8)	9
Na et al, 2014	Korea	Cohort	2003–2011	315	77.5	50.4 ^b ± 7.8	49.0 (1.0–114.0)	10 (3.2)	30.5 ^b ± 26.7	9
Lee et al, 2013	Korea	Cohort	1996–2010	553	82.6	54.5	51.0	63 (11.4)	22.0	7
Xu et al, 2011	China	Case-Control	2006–2008	185	89.2	47.8 ^b ± 9.6	26.0 ^b ± 10.8	16 (8.6)	NA	8
Saab et al, 2009	USA	Cohort	1997–2008	175	78.3	52.8 ^b ± 10.2	43.0 ^b ± 42.0	12 (6.9)	28.7 ^b ± 26.4	9
Woo et al, 2008	Korea	Cohort	1999–2005	165	73.3	49.0 (32.0–64.0)	40.0 (21.0–96.0)	7 (4.2)	19.0 (5.0–36.0)	8
Faria et al, 2008	France	Cohort	1995–2004	99	84.8	49.0 (14.0–71.0)	43.0 (0.25–125.0)	14 (14.1)	15.0 (0.5–60.0)	8
Gane et al,2007	New Zealand	Cohort	1996–2004	147	86.0	49.0 (20.0–67.0)	62.0	5 (2.8)	6.0–19.0	6
Marzano et al, 2005	Italy	Cohort	1990–2002	177	82.5	48.0 (24.0–62.0)	44.0 (2.1–130.2)	15 (8.5)	NA	8
Shen et al, 2015	China	Cohort	2000–2009	5333	88.4	NA	42.1 ^b ± 30.3	187 (3.5)	NA	5
Wei-Chen et al, 2019	China	Cohort	2008–2015	232	85.8	54.0	42.2 (24.1–76.8)	28 (12.1)	NA	8
Vatansever et al, 2019	Turkey	Cohort	2009–2014	179	86	51.8 ^b ± 9.6	26.0 (2.0–65.0)	6 (3.4)	NA	9
Gao et al, 2014	China	Cohort	2005–2010	253	91.3	NA	NA	16 (6.3)	18.42 ^b ± 17.04	8
Jiang et al, 2013	China	Cohort	2002–2012	165	92	NA	38.3 ^b ± 28.9	8 (4.8)	15.8 ^b ± 11.0	8
Degertekin et al, 2010	USA	Cohort	2001–2007	187	NA	52.4	42.0 (1.0–81.0)	13 (6.9)	42.0 (1.0–81.0)	8
Yi et al, 2007	Korea	Cohort	1999–2002	203	79.8	46.9 ^b ± 8.0	28.3 ^b ± 13.1	21 (10.3)	16.3 ^b ± 9.4	7
Hu et al, 2014	China	Cohort	2006–2011	145	NA	NA	36.0	2 (1.4)	NA	8
Li et al, 2011	China	Cohort	2004–2008	340	86.8	47.08 ^b ± 11.36	30.1 ^b ± 20.4	33 (9.7)	10.0 (4.5–22.8)	7
Zhang et al, 2016	China	Cohort	2002–2013	907	89.9	48.6 ^b ± 9.1	50.9 (1.0–144.0)	56 (6.2)	NA	8

NA, not applicable; N, sample size; NOS, Newcastle Ottawa Scale; ^aLow-quality research, 0–3 points; medium-quality research, 4–5 points; high-quality research, 6–9 points. ^bMean ± standard deviation.