

Supplementary Table I. Summary of excluded studies with reasons

No	Study	Ref	Reasons
1	Thun 1993	[17]	Study is on gastric cancer death. No data for gastric cancer occurrence
2	Schreinemachers 1994	[18]	No specific data for GC
3	Wong 1999	[19]	Study on aspirin inducing apoptosis in GC
4	Coogan 2000	[20]	Data of aspirin was combined with other NSAIDs
5	Langman 2000	[21]	No data for aspirin. All data are on anti-inflammatory drugs
6	Nomura 2003	[22]	No specific data for aspirin
7	Sørensen 2003	[23]	Results are on non-aspirin NSAIDs
8	Gammon 2004	[24]	Results are on GC cardia only
9	Trivers 2005	[25]	Study was on survival of GC rather than risk
10	Hwang 2006	[26]	Study is on GC treatment rather than risk
11	Wu 2010	[27]	Study on NSAIDs, no specific data for aspirin
12	Rothwell 2011	[28]	Study on gastric cancer death rather than risk
13	Yang 2011	[29]	Study on aspirin on suppressing GC cells
14	Jacobs 2012	[30]	Results are on GC mortality rather than risk
15	Cook 2013	[31]	No data for gastric cancer
16	Shebl 2014	[32]	No specific data for gastric cancer
17	Coyle 2016	[33]	Results are on GC recurrence and survival
18	Mikami 2016	[34]	Study on all antiplatelet drugs on GC cells
19	Li 2016	[35]	Study on aspirin on proliferation and migration of GC cells
20	Michigami Y 2017	[36]	Results are on molecular alteration on precancerous gastric mucosa
21	Zhang 2017	[37]	Study on GC cell proliferation together with chemotherapy
22	Spence 2018	[38]	Study on GC survival rather than risk
23	Cheung 2019	[39]	Study on proton pump inhibitors on GC
24	Watari 2019	[40]	Study on microRNA gene methylator in GC
25	Watari 2019	[41]	Study on Metachronous Gastric Cancer after the Endoscopic Resection of GC

Supplementary Table II. Modified Newcastle - Ottawa quality assessment scale

Study	Selection				Comparability	Exposure			Total score
	Is the case definition adequate	Representativeness	Selection of control	Definition of control	Comparability of case & control	Ascertainment of exposure	Same methods for case & control	Non-response rate	
Akre 2001 [42]	*	*	*	*	*	*	*		7
Bertuccio 2010 [43]	*		*	*	*	*	*		6
Duan 2008 [44]	*	*	*		*	*	*	*	7
Farrow 1998 [45]	*		*	*	*		*	*	6
Figuroa 2009 [46]	*	*	*		*	*	*	*	7
Fortuny 2007 [47]	*	*	*		*	*	*	*	7
Gong 2013 [48]	*	*	*	*	*		*	*	7
Iqbal 2017 [49]	*		*	*	*	*	*		6
Lindblad 2005 [50]	*	*	*	*	*		*	*	7
Wang 2015 [51]	*	*	*		*	*	*	*	7
Zaridze 1999 [52]	*	*	*		*	*	*		6
Abnet 2009 [53]	*		*	*	*	*	*	*	7
Cheung 2018 [54]	*		*	*	*		*	*	6
Epplein 2009 [55]	*	*	*		*	*	*	*	7
Friis 2003 [56]	*	*	*	*	*		*	*	7
Kim 2016 [57]	*	*	*	*	*		*	*	7
Kim 2018 [58]	*	*	*	*	*	*	*	*	8
Lee 2012 [59]	*	*	*	*	*		*	*	7
Niikura 2018 [60]	*	*	*		*		*	*	6
Ratnasinghe 2004 [61]	*	*	*		*		*	*	6
Tsoi 2019 [62]	*	*	*		*	*	*	*	7