



Supplementary Figure 2 Three geographical divisions of China.

Supplementary Table 1 Characteristics of the included studies

ID	Study	Investigation time	Province	Questionnaire	Random sample	Quality score	Sample size	Number of cases	Number of Subgroup
1	Zhang <i>et al</i> , 2020 ^[1]	2014~2019	Jiangsu	GerdQ	No	6	4785	858	① ② ③ ④ ⑥ ⑦ ⑩ ⑪ ⑫ ⑮
2	Guo <i>et al</i> , 1997 ^[2]	1996	Beijing	Others	Yes	6	2500	176	—
3	Wu <i>et al</i> , 2004 ^[3]	2000~2003	Beijing	Others	Yes	6	1936	167	③
4	Pan <i>et al</i> , 1999 ^[4]	1999	Beijing, Shanghai	Others	Yes	7	4992	448	② ③ ⑤ ⑨
5	Jiang <i>et al</i> , 2010 ^[5]	2008	Beijing	RDQ	Yes	7	2615	220	② ③ ④ ⑤ ⑦ ⑩ ⑪ ⑬ ⑮
6	Ming <i>et al</i> , 2017 ^[6]	2015	Sichuan	GerdQ	Yes	7	787	116	① ③ ④
7	Xiong <i>et al</i> , 2006 ^[7]	2003	Guangdong	RDQ	Yes	7	3338	83	② ③ ⑤
8	Rong <i>et al</i> , 2013 ^[8]	2013	Xinjiang	GerdQ	Yes	7	2980	468	①
9	Li <i>et al</i> , 2015 ^[9]	2013	Shanghai	RDQ	Yes	6	3126	266	② ③ ⑩ ⑪
10	Jiang <i>et al</i> , 2016 ^[10]	2014	Fujian	GerdQ	Yes	7	936	89	① ② ③ ④ ⑩ ⑪ ⑫
11	Peng, 2008 ^[11]	2007	Guangdong	RDQ	Yes	6	3210	53	① ② ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑬ ⑮

12	Yao <i>et al</i> , 2018 ^[12]	2014~2015	Qinghai	RDQ	Yes	8	3015	284	①②③④
13	Cai <i>et al</i> , 2012 ^[13]	2010	Guangdong	RDQ	Yes	5	1834	43	—
14	Shen <i>et al</i> , 2010 ^[14]	2009	Fujian	RDQ	Yes	7	1347	118	②③⑨
15	Zhang <i>et al</i> , 2013 ^[15]	2009~2011	Shaanxi	RDQ	Yes	7	2879	259	②
16	Xiang <i>et al</i> , 2012 ^[16]	2011	Jilin	RDQ	No	4	2069	96	②③
17	Wei <i>et al</i> , 2013 ^[17]	2010	Fujian	GerdQ	Yes	7	203	10	②③
18	Zhan <i>et al</i> , 2013 ^[18]	2009	Fujian	RDQ	Yes	6	1982	134	②
19	Zhu <i>et al</i> , 2009 ^[19]	2006	Guizhou	RDQ	Yes	6	1692	116	②③
20	Li <i>et al</i> , 2014 ^[20]	2012	Henan	RDQ	Yes	7	508	28	②
21	Hu <i>et al</i> , 2018 ^[21]	2016	Shanghai	RDQ	Yes	7	2007	99	②③
22	Zhang <i>et al</i> , 2005 ^[22]	2004	Xinjiang	Others	Yes	8	4980	528	①②③⑨
23	Shen <i>et al</i> , 2010 ^[23]	2008	Beijing	Others	Yes	6	2502	207	②③④⑤⑪⑯
24	Zhang <i>et al</i> , 2013 ^[24]	2012	Shanxi	GerdQ	No	5	1210	116	②
25	Cai, 2008 ^[25]	2005	Hubei	RDQ	Yes	7	3563	77	②③⑤

26	Lin <i>et al</i> , 2019 ^[26]	2017	Hubei	GerdQ	Yes	7	3352	137	②③④⑦⑩⑪⑫⑯
27	Li <i>et al</i> , 2019 ^[27]	2017	Xinjiang	GerdQ	No	6	4987	887	①②③④⑩⑪⑫
28	Li <i>et al</i> , 1997 ^[28]	1997	Shanghai	Others	Yes	8	2500	192	②③⑨⑩⑪⑫
			Beijing, Guangdong,						②③④⑤⑥⑦⑧⑨
29	He <i>et al</i> , 2010 ^[29]	2007~2008	Hubei, Shanghai	Shaanxi, RDQ	Yes	8	16078	933	⑩⑪⑬⑮
30	Chen, 2016 ^[30]	2013~2014	Henan	RDQ	Yes	5	4856	345	②③⑤
31	Ji, 2018 ^[31]	2013	Gansu	Others	Yes	6	23297	1786	②
32	Wang, 2019 ^[32]	2017~2018	Shandong	GerdQ	Yes	8	5149	570	②③⑥⑦⑩⑪⑫
			Eight provinces(not grouped by province)						
33	Lin <i>et al</i> , 2018 ^[33]	2010~2012		by Others	Yes	5	24208	1074	—
34	Yin <i>et al</i> , 2013 ^[34]	2008~2009	Gansu, Shaanxi, Qinghai, Ningxia	RDQ	No	6	12265	1246	—
35	Wang <i>et al</i> , 2004 ^[35]	2004	Shaanxi	Others	Yes	6	2532	98	—
36	Wang <i>et al</i> , 2019 ^[36]	2012	Henan	GerdQ	Yes	8	2844	492	②③⑥⑩⑪⑭
37	Fang <i>et al</i> , 2019 ^[37]	1996, 2008	Beijing	Others	Yes	7	2378	211	—

38	Gong <i>et al</i> , 2019 ^[38]	2009~2016	Beijing	GerdQ	No	8	37442	7449	②③④⑩⑪⑬
39	Cai <i>et al</i> , 2015 ^[39]	2010~2011	Henan	GerdQ	Yes	6	2950	141	—
40	Zhang <i>et al</i> , 2019 ^[40]	2016~2017	Tibet	GerdQ	Yes	6	5680	614	①②③⑦⑩⑪
41	Zou <i>et al</i> , 2009 ^[41]	2009	Shanghai	Others	Yes	6	3135	84	—
42	Yan <i>et al</i> , 2009 ^[42]	2005~2006	Shanghai	RDQ	Yes	5	919	57	—
43	Li <i>et al</i> , 2019 ^[43]	2017~2018	Guangdong	GerdQ	No	5	1522	61	—
44	Chen <i>et al</i> , 2012 ^[44]	2007	Zhejiang	Others	No	6	8831	150	④
45	Peng <i>et al</i> , 2009 ^[45]	2006~2007	Guangdong	Others	No	5	2580	150	—
46	Li <i>et al</i> , 2018 ^[46]	2017~2018	Shaanxi	Others	No	5	887	23	—
47	Liu <i>et al</i> , 2019 ^[47]	2018	Liaoning	RDQ	Yes	7	986	82	—
48	Ma <i>et al</i> , 2009 ^[48]	2005~2006	Shanghai	RDQ	Yes	7	919	57	②③④⑤⑥⑦⑧⑨ ⑩⑪⑬
49	Niu <i>et al</i> , 2012 ^[49]	2011~2012	Xinjiang	GerdQ	No	6	1995	560	①
50	Ma <i>et al</i> , 2014 ^[50]	2014	Shanghai	RDQ	Yes	6	1021	48	—
51	Gao and Shi, 2017 ^[51]	2013	Beijing	Others	Yes	5	3410	751	②③⑦⑩⑪⑫

52	Qiao <i>et al</i> , 2014 ^[52]	2013	Jiangsu	RDQ	No	4	249	17	—
53	Zhong <i>et al</i> , 2012 ^[53]	2012	Sichuan	Others	No	4	360	20	—
54	Li <i>et al</i> , 2007 ^[54]	2007	Henan	RDQ	Yes	5	508	28	②
55	Mei <i>et al</i> , 2008 ^[55]	2008	Zhejiang	RDQ	Yes	5	3347	105	②③⑥
56	Jia, 2017 ^[56]	2015	Jiangsu	RDQ	No	4	221	20	—
57	Gansu Cancer	2013~2013	Gansu	Others	Yes	4	4000	345	—
58	Chen <i>et al</i> , 2011 ^[58]	2009~2011	Four provinces(not Others)	Others	No	4	2253	432	—
59	Liu <i>et al</i> , 2017 ^[59]	2015~2016	Shaanxi	Others	No	4	2483	205	—
60	Tang, 2011 ^[60]	2009~2010	Anhui	GerdQ	No	5	347	43	—
61	Lu <i>et al</i> , 2020 ^[61]	2016	Shandong	Others	No	4	2925	452	—
62	Ying <i>et al</i> , 2006 ^[62]	2006	Henan	RDQ	Yes	6	327	21	—
63	Chen <i>et al</i> , 2004 ^[63]	2002~2003	Tianjin	Others	Yes	5	7220	406	—
64	Yu, 2009 ^[64]	2008	Zhejiang	RDQ	No	7	1369	109	②④⑥
65	Guo, 2002 ^[65]	1996	Beijing	Others	Yes	5	2486	254	—
66	Xiang, 2014 ^[66]	2012	Hunan	RDQ	No	5	200	14	—
67	Yang, 2021 ^[67]	2019	Shaanxi	Others	Yes	7	2423	302	—
68	Chen, <i>et al</i> , 2021 ^[68]	2018	Inner Mongolia	GerdQ	Yes	6	1069	84	②③④⑩⑪⑫⑬
69	He, <i>et al</i> , 2013 ^[69]	2011	Shanghai	GerdQ	Yes	5	1428	85	—

70	Kahaer, 2021 ^[70]	2020	Xinjiang	GerdQ	Yes	7	5080	1187	①②③④⑨⑩⑪
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①Nation ②Sex ③Gender ④Body mass index (BMI) ⑤Residence ⑥Marital status ⑦Education ⑧Income ⑨Occupation ⑩Smoking
 ⑪Alcohol consumption ⑫Teadrinking ⑬Physical exercise ⑭Helicobacter pylori(HP) ⑮Life stress.

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