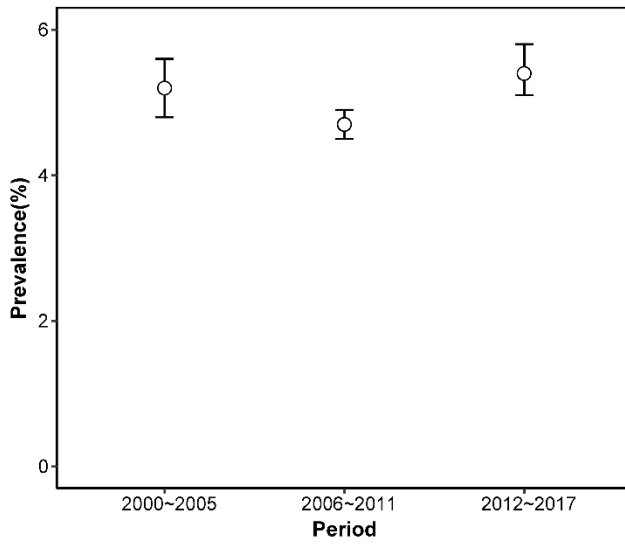


A) By period



B) By gender and period

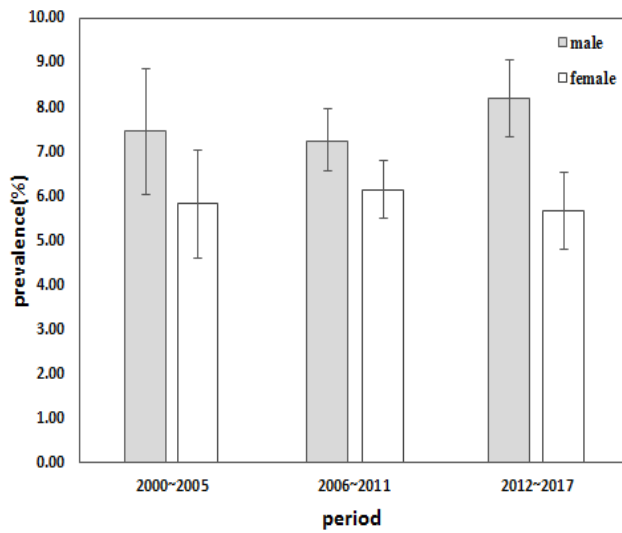


Figure S1. Meta-analysis of stroke prevalence (%) by age group and gender in the different period in China (2000-2017)

Table S1. Literature quality assessment criteria *

Quality score	Literature quality assessment criteria	References serial number
1	Included large nationally representative sample sizes ($\geq 10,000$) and that used random selection techniques	2,4,7,9,12,16,18,20,21,23, 25,26,28,29,31,32,34,37,39, 41,43,49,54,57,59,62,70,74, 77,80,82,83,84,92,93,95
2	Included large, randomly selected samples ($\geq 1,000$) from an entire province in the country	1,3,5,6,8,11,14,15,19,22,27, 30,35,36,38,40,45,46,47,48, 50,51,52,53,55,56,58,60,61, 63,66,68,69,71,72,73,75,76, 78,79,81,85,86,87,88,89,90,96
3	Used random selection techniques within a specified number of sampling units (i.e., two towns)	10
4	Included large sample sizes ($> 1,000$), even though the samples were not randomly selected	13,17,24,33,42,44,64,65,67, 91,94
5	Included small sample sizes ($< 1,000$), even though the samples were not randomly selected	none

Note: *based on the criteria proposed by Suriah ARCT, Yeoh BY , 1998 (14).

Table S2. List of the 96 studies included in this meta-analysis

1	Tang ZZ, Chen XL, Han Y, etc. Guangxi urban and rural adult residents stroke characteristics and risk factors. Practical Preventive Medicine. 2008, 15 (02):308-311. (Chinese thesis)
2	Zhang FL. Prevalence and Risk Factors of Stroke among Urban and Rural Residents over 40 Years in Jilin Province. Jilin University.2015. (Chinese thesis)
3	Wang GQ, Huang JY, Guo JP, et al. A baseline survey of stroke cohorts in rural communities in Shanghai. Chinese Journal of Epidemiology. 2006, 27 (01): 12-14. (Chinese thesis)
4	Cai Q. Study on prevalence of stroke and its influencing factors among residents over 40 in Xinzheng city. Zhengzhou University.2014. (Chinese thesis)
5	Han XJ, Gan ZJ, Zhong JM, et al. Prevalence and Risk Factors of Stroke in Hangzhou Community Residents. Zhejiang Preventive Medicine. 2006, 18 (12): 15-16. (Chinese thesis)
6	Zhong Yi . Epidemiology of Stroke in Middle-aged and Elderly Population in Changde City, Hunan Province, China. Central South University.2014. (Chinese thesis)
7	Ding F, Guo H, Guo XF. Survey on prevalence of hypertension, diabetes mellitus, coronary heart disease and stroke among rural residents over 30 years in Shouguang in 2012. Preventive Medicine Forum. 2013, (10): 716-777. (Chinese thesis)
8	Gao P, Chen X, Yao ZQ, et al. Prevalence of stroke and its risk factors in urban residents over 40 years old in a certain community in Anhui Province. China Journal of Clinical Medicine. 2016, 19 (02): 171-174. (Chinese thesis)
9	Wang LC, HU YH, Lu Y, et al. Comparison and analysis of prevalence and risk factors of stroke in Suzhou in 2000 and 2010. China Primary Health Care .2013, 27 (10): 76-78. (Chinese thesis)
10	Zheng JD, Wei H, Guo HM, et al. Investigation on the Prevalence of Chronic Diseases in Chaoyangmen Community in Beijing. Chinese Journal of Preventive Medicine. 2002, 3 (04): 307-309. (Chinese thesis)
11	Han DL, Feng YS, Liu RT, et al. Investigation of Hypertension, Coronary Heart Disease and Stroke among Rural Residents over 35 in Linyi City. Preventive Medicine Forum. 2007, 13 (3): 209-210. (Chinese thesis)

12	Xie Y, Hu XS, Qian XD, et al. Analysis of the prevalence and influential factors of chronic non-communicable diseases among residents over 35 in Yangzhou City. <i>Jiangsu Health Care</i> . 2009, 11 (4): 1-4. (Chinese thesis)
13	Bao CH, Feng CR, Zhou HL. Prevention and treatment of chronic diseases at chronic disease monitoring sites in Xicheng District, Beijing. <i>Modern Preventive Medicine</i> . 2005, 32 (03): 234-236. (Chinese thesis)
14	LI JH, Chen JY, Chen WJ, et al. Study on prevalence and information of chronic diseases in Liu Rong community in Guangzhou City. <i>South China Journal of Preventive Medicine</i> . 2014 (02): 127-131. (Chinese thesis)
15	Fang H, Tang Z, Xiang MJ, et al. Stroke morbidity and disability rates and their changing trends in people over 55 years old in Beijing in 1992 and 2000. <i>Chinese Journal of Elderly Cardiovascular and Cerebrovascular Diseases</i> . 2007, 9 (01): 32-35. (Chinese thesis)
16	Gu LH, Wang LN, Zhu HB, etc. Stroke situation and risk factors of stroke in over 35 years old people in Nanjing Xiaguan area. <i>China Clinical Research</i> . 2010, 23 (10): 945-946. (Chinese thesis)
17	Zhang Y, Shen L, Jing W, et al. Parity and Risk of Stroke among Chinese Women: Cross-sectional Evidence from the Dongfeng-Tongji Cohort Study. <i>Scientific Reports</i> . 2015, 5:16992.
18	Zhang C, Lan T, Zhe Y, et al. Epidemiology Investigation of stroke among Mongolian and Han population aged over 45 in Inner Mongolia. <i>Scientific Reports</i> . 2017, 7:45710.
19	Wang J, Ning X, Yang L, Tu J, Gu H, Zhan C, Zhang W, Su TC. Sex differences in trends of incidence and mortality of first-ever stroke in rural Tianjin, China, from 1992 to 2012. <i>Stroke</i> . 2014 Jun;45(6):1626-31.
20	Qi L, Hao W, Wei Y, et al. Prevalence of Stroke and Vascular Risk Factors in China: a Nationwide Community-based Study. <i>Scientific Reports</i> . 2017, 7(1).
21	Yue W. Prevalence and risk factors of stroke in Chinese population aged 40 years and above. Tianjin Medical University. 2016. (Chinese thesis)
22	Lin HC, Lin YJ, Liu TC, Chen CS, Chiu WT. Urbanization and stroke prevalence in Taiwan: analysis of a nationwide survey. <i>J Urban Health</i> . 2007 Jul;84(4):604-14.
23	Yi XF, Xu YJ, Xu Hao F, et al. Guangdong Province 15 years of age and above residents of stroke prevalence and classification of influential factors tree. <i>South China Preventive Medicine</i> . 2009 (4): 5-8. (Chinese thesis)

24	Li W, Han L, Huo F, et al. Investigation on the prevalence of stroke and related risk factors among residents in Haizhu District of Guangzhou in 2012[J]. Medical Journal, 2013, 13 (06): 712-715. (Chinese thesis)
25	Li H, Han LN, Huo FY, etc. Shanghai Haizhu District residents stroke prevalence and risk factors survey in 2012. Journal of Tropical Medicine. 2013, 13 (6): 712-715. (Chinese thesis)
26	Wu X, Zhao SG, Lu HW, et al. Investigation and Analysis of Prevalence of Hypertension and Stroke in Rural Areas of Inner Mongolia. Disease Surveillance and Control.2015, 9 (11): 770-772. (Chinese thesis)
27	Zhou GR, Liu AP, Ye C et al. Stroke prevalence and risk factors of middle-aged and elderly people in Mentougou district of Beijing. Chinese Public Health. 2014, 30 (4): 420-423. (Chinese thesis)
28	Wang HB, Li YL, Wang LQ, et al. Study on prevalence and influencing factors of stroke in ≥ 40 years old residents in Beijing Haidian District .Chinese Journal of Public Health.2014, 30 (5): 583-585. (Chinese thesis)
29	Zheng LQ, Sun ZQ, Li JJ, et al. Study on the prevalence of hypertension and stroke in rural areas of Liaoning Province and their correlation. Shanxi Medical Journal. 2007, 36 (19): 867-869.(Chinese thesis)
30	Zhao HY, Yu K, Zhang Y, et al. Prevalence and risk factors of stroke in over 50 years old in Shunyi District of Beijing. Occupation and Health.2013, 29 (24): 3315-3316. (Chinese thesis)
31	Dong Y, Liu S, Sun Z, et al.Study on the prevalence of stroke in the elderly in Fuxin rural areas of Liaoning Province[J].Shanxi Medical Journal,2010,39(05):404-406.
32	Xu F, Ah T L, Yin X, et al. Impact of socio-economic factors on stroke prevalence among urban and rural residents in Mainland China. BMC Public Health. 2008, 8(1):1-10.
33	Li SL, Guo H, Guo XF. Study on prevalence of stroke in urban residents of Shouguang in 2010. Preventive Medicine Tribune. 2012, 18 (07): 510-511. (Chinese thesis)
34	Lin JD, Liu J, AN XH. Investigation on prevalence and influential factors of chronic diseases among residents over the age of 35 in Xuzhou in 2000. Preventive Medicine Forum. 2006, 12 (1): 13-16. (Chinese thesis)
35	Chen MF, Xue AQ. Survey on Chronic Disease of Residents Aged 35 and Over in Hanjiang District, Yangzhou in 2005. Misdiagnosis of China. 2007, 7 (15): 3683-3683. (Chinese thesis)

36	Zhong D, Xiao J. Analysis of risk factors of stroke in middle- and old-aged residents in urban areas of Beijing. Chinese Journal of Nutrition & Nutrition. 2013 (12): 44-45. (Chinese thesis)
37	Zhang XB, Yan WH, Zhang J, et al. Investigation of stroke and its risk factors in middle-aged and elderly population in Beijing. Zhonghua Journal of Epidemiology. 2016, 37 (11): 1459-1462. (Chinese thesis)
38	Liu HJ, Fang XH, Zhang GF, et al. Comprehensive assessment of stroke in urban and rural elderly in Beijing in 2002. Zhonghua Journal of Epidemiology. 2005, 26 (10): 767-771. (Chinese thesis)
39	Ma AJ, Dong Z, Li G. Study on the prevalence and risk factors of stroke in 50~79-year-old population in Beijing. Zhonghua Journal of Epidemiology. 2012, 33 (7): 645-648. (Chinese thesis)
40	Wu BH, Zhou SF, Nie XQ, et al. Analysis of prevalence of hypertension, coronary heart disease, stroke and diabetes among rural residents in Daxing District, Beijing and its influencing factors. Chinese Health Education. 2008, 24 (11): 825-828. (Chinese thesis)
41	Ding SQ, Yang XJ, Xing LL, et al. Analysis of prevalence and risk factors of adult chronic diseases in Dongcheng District of Beijing. Chinese Health Education. 2012, 28 (3): 188-190. (Chinese thesis)
42	Wang X, Deng B, Liu CH, et al. Study on the prevalence and risk factors of stroke in Chongqing population. Journal of Chongqing Medical University. 2015, 44 (13): 1830-1832. (Chinese thesis)
43	Zhang WL, Gao JM. Investigation of chronic diseases and risk factors of residents in Huairou district of Beijing. Occupation and Health. 2014, 30 (23): 3418-3420. (Chinese thesis)
44	Zhang YQ, Zhang L, Yi D, et al. Study on prevalence and influencing factors of chronic diseases in community residents in Chongqing. Chinese Public Health. 2016, 32 (8): 1068-1073. (Chinese thesis)
45	Dong ZQ, Liu SJ, Wang XH, et al. Investigation and analysis of chronic non-communicable diseases among rural residents in Miaosi, Tongzhou District, Beijing in 2013. Chinese Journal of Rural Medicine. 2015, 22 (17): 67-69. (Chinese thesis)
46	Wang T. Epidemiological characteristics and risk factors investigation of stroke in elderly population in Wanshou Road, Beijing. PLA Military Academy. 2011. (Chinese thesis)
47	Wang W, Li NY, LI Wei. Survey of major chronic diseases among residents over 15 in Xuanwu District, Beijing. Tropical Medicine. 2009, 9 (9): 1842-1843. (Chinese thesis)
48	Chen T. Epidemiological survey of elderly population stroke in Beijing Wanshoulu. PLA General Hospital. 2003. (Chinese thesis)

49	Ma EC, Zhu YS. Investigation on the Prevalence of Chronic Diseases among Residents in Zhonglou District, Changzhou. Jiangsu Health Care. 2013, 15 (1): 8-9.(Chinese thesis)
50	Wu BQ, Gao YD, Yang RC, et al. Analysis on prevalence of major chronic diseases and related risk factors in residents aged 15 years and over in Dehong Prefecture. Soft Health Sciences. 2016, 30 (5): 312-316.(Chinese thesis)
51	Zhang HT, Gao L, Liu Y, et al. Investigation and Correlation Analysis of Diabetes and Stroke Events in Ganzi Tibetan Population. Sichuan Medicine. 2014 (6): 645-647.(Chinese thesis)
52	Yang J, Zheng M, Chen S, et al. A Survey of the Perceived Risk for Stroke among Community Residents in Western Urban China. Plos One. 2013, 8(9):274-274.
53	Shi JP, Teng WY, Wang HL, et al. Epidemiological survey of prevalence of stroke in population with high blood pressure .Chinese Health Statistics. 2006, 23 (1): 47-49.
54	Meng XJ, Lin Q, Tian S, et al. Study on prevalence and influencing factors of stroke in residents of three cities in Liaoning Province. J Chin Chem. 2011, 14 (26): 3003-3006.(Chinese thesis)
55	Yang MX. Study on Stroke Prevalence and Knowledge, Credit Investigation and Investigation of Community Residents in Hangzhou. Chinese Gerontology. 2016, 36 (6): 1477-1479.(Chinese thesis)
56	Yan YL, Li F, Gao SY, et al. Screening analysis of stroke and its risk factors among elderly residents in Renqiu City, Hebei Province. Zhonghua Elderly Cardiovascular and Cerebrovascular Diseases. 2013,15 (11): 1166-1169.(Chinese thesis)
57	Sun JX, Zhang JX, Zhang F, et al. Prevalence and financial burden of stroke among rural residents in Anxin County, Hebei Province. Hebei Medicine. 2013, 35 (1): 74-76.(Chinese thesis)
58	Wang HL, Li ZZ, Zhang JF, et al. Analysis of risk factors of ischemic stroke in some villages in Hebei Province. Clinical Metabolism. 2010, 25 (1): 42-43.(Chinese thesis)
59	Li B, Yu YQ, Kou CG, et al. Investigation and analysis of common chronic diseases among community residents in northern China. Journal of Jilin University Medicine Edition. 2003, 29 (6): 844-846.(Chinese thesis)
60	Yu L, Hao XZ. Study on prevalence of stroke and related risk factors in middle-aged and elderly population in Zhangjiakou area of Hebei province. Chinese Journal of Stroke. 2006, 1 (12): 856-858.(Chinese thesis)
61	Ding LY, Tang YM, Lu Q, et al. Status of Chronic Diseases and Its Influencing Factors among Community Residents in Hengyang. Occupation and Health. 2017 (21).(Chinese thesis)

62	Kong XH, Liu D, Lu G, et al. Studies on prevalence and risk factors of stroke in residents of Jingmen. Modern Preventive Medicine. 2015, 42 (10): 1736-1738.(Chinese thesis)
63	Yan F. Analysis of prevalence and socio-economic burden of cardiovascular diseases in rural guan du district of kunming. Kunming Medical College. 2010.(Chinese thesis)
64	Zhao YH, Zhao WL, Zhuo DG, et al. Epidemiological survey of prevalence of stroke in urban workers in Lhasa. Zhonghua Neuroending Journal. 2011, 10 (12): 1255-1258.(Chinese thesis)
65	Chen Y, Chen GF, Chen Y, et al. Study on the status of major chronic diseases among workers in Chongqing railway. Disease Surveillance and Control. 2016 (5): 378-379.(Chinese thesis)
66	Pan R, Qin JX, We XF, et al. Study on the status quo of chronic diseases and main lifestyles of community residents in Liubei district of Liuzhou city. Chinese Journal of Disease Control. 2012, 16 (10): 27-30.(Chinese thesis)
67	Liang M, Xu HM. Epidemiological Analysis of Main Chronic Diseases in Luocheng Community Residents and Control Measures.Chinese Community Physician. 2011, 13 (4): 206-206.(Chinese thesis)
68	Zhang YT. Four kinds of chronic non-communicable diseases Status and influencing factors Analysis in Midong. Xinjiang Medical University. 2013.(Chinese thesis)
69	Sun JI, Li XY, Guo JH, etc. A unit over the age of 20 in the prevalence of cerebrovascular disease and risk factors of investigation. Chinese Journal of Medicine. 2008,27 (7): 1-2.(Chinese thesis)
70	Xu H, Cai B, Huang C, et al. Study on prevalence of common chronic diseases among adults in Nantong City. Modern Preventive Medicine. 2015, 42 (3): 457-460.(Chinese thesis)
71	Ma Jp, Li DI, Liu Yh, et al. Study on the risk factors of stroke in 2577 residents in Tongliao, Inner Mongolia. Journal of Inner Mongolia University for Nationalities. 2015 (1): 73-76.(Chinese thesis)
72	Zhang CY, Zhao SG, Niu GM, et al. Study on the prevalence of stroke in Inner Mongolia Xilinguoleng people over 55 years old in Mongolia and Han nationality. Zhonghua Preventive Medicine. 2012, 46 (7): 653-654.(Chinese thesis)
73	Wen S. 4221 residents of high-risk stroke screening research in Yongning County. Ningxia Medical University. 2015.(Chinese thesis)
74	Xin HL, Sun JP, Cao GB, et al. Study on the prevalence of chronic diseases in 35~74-year-old residents in Qingdao. Chinese Journal of Chronic Disease Control and Prevention. 2013, 21 (1).(Chinese thesis)

75	Zhang Rong, Zhao XD, Li S, et al. Baseline survey on stroke cohort of middle-aged and elderly people in some communities in Shanghai. Chinese Journal of health medicine. 2015, 17 (6): 479-481.(Chinese thesis)
76	Li CL, Li P. Community-based chronic disease risk factors analysis. Chinese Journal of Modern Medicine. 2011, 21 (28): 3584-3586.(Chinese thesis)
77	Ji N, Dong Q, He ML, et al. Study on Epidemiology of Stroke in Rural Communities in North Jiangsu. Chinese Journal of Chronic Disease Control and Prevention. 2013, 21 (4): 422-424.(Chinese thesis)
78	GU QM. A survey of hypertension, diabetes and stroke among residents in Jinlv District, Suzhou City and related risk factors .University of Suzhou. 2009.(Chinese thesis)
79	Zhao ZQ, Wu YH, Tang ZY, et al. Investigation and analysis of risk factors of stroke in people over 50 in Suzhou .Beijing Bei Medical College. 2017, 32 (4).(Chinese thesis)
80	Ge XY, Hu YH. Analysis on prevalence and risk factors of stroke in Suzhou residents. China primary health care. 2011,25 (11): 77-79.(Chinese thesis)
81	Yu RK, Zhu YL, Le MG, et al. Chronic disease status and related factors in Mongolian people over 55 years old in Horqin district, Tongliao city.Health Industry in China. 2017,14 (8): 167-169.(Chinese thesis)
82	Zhang DY, Fan ZY, Wang AL, et al. Study on Epidemiology of Stroke in Middle-aged and Elderly Patients in Nanyang. Chinese Journal of Nutrition and Nutrition. 2013 (12): 640-641.(Chinese thesis)
83	He XY. Chinese middle-aged and elderly people stroke prevalence and its influencing factors. Huazhong University of Science and Technology. 2016.(Chinese thesis)
84	Zheng Y, Jiang Si, Guo YF, etc. Analysis of the main chronic diseases and risk factors in middle-aged and elderly population in China .Shanghai Preventive Medicine. 2016, 28 (6): 353-357.(Chinese thesis)
85	Cao ZW, Li JZ, Wu YZ. Study on Chronic Non-communicable Diseases among Community Residents in Shapingba District of Chongqing. Chinese Journal of Preventive Medicine.2011 (12): 1038-1040.(Chinese thesis)
86	Mo LM, Yu JY, Yan K, etc. Status analysis of chronic disease epidemic for Residents in Xishan District. Medical Information. 2014 (18): 98-99.(Chinese thesis)
87	Liu XH, Xu J, Zhang MT. Characteristics and distribution characteristics of chronic diseases among railway workers in Urumqi, Xinjiang. Disease Surveillance. 2016,31 (9): 771-775.(Chinese thesis)

88	Qiu HS, Jin MS, Li CH, et al. Chronic chronic diseases and their risk factors among residents in Yanbian Korean Autonomous Prefecture. <i>Chinese Journal of Health Engineering</i> . 2016 (2): 132-135.(Chinese thesis)
89	Deng YX, elderly stroke prevalence and risk factors of hypertension in Yueyang Lou District. Nanhua University. 2016.(Chinese thesis)
90	Cai L, Shu ZK, Ye HH, et al. Analysis on prevalence and influencing factors of major chronic diseases in Luoping County, Yunnan Province. <i>Modern Preventive Medicine</i> . 2012, 39 (16): 4063-4065.(Chinese thesis)
91	Gan Y, Wu J, Zhang S, Li L, et al. Prevalence and risk factors associated with stroke in middle-aged and older Chinese: A community-based cross-sectional study. <i>Sci Rep</i> . 2017 Aug 25;7(1):9501.
92	Venketasubramanian N, Tan LC, Sahadevan S, et al. Prevalence of stroke among Chinese, Malay, and Indian Singaporeans: a community-based tri-racial cross-sectional survey. <i>Stroke</i> . 2005 Mar;36(3):551-6.
93	Wang Wz, Jiang B, Sun H, et al. Prevalence, Incidence, and Mortality of Stroke in China: Results from a Nationwide Population-Based Survey of 480 687 Adults. <i>Circulation</i> . 2017 Feb 21; 135(8):759-771.
94	Zhang FL, Guo ZN, Wu YH, et al. Prevalence of stroke and associated risk factors: a population based cross sectional study from northeast China. <i>BMJ Open</i> . 2017 Sep 3; 7 (9):e015758.
95	Zhang S, Liu Z, Liu YL, et al. Prevalence of stroke and associated risk factors among middle-aged and older farmers in western China. <i>Environ Health Prev Med</i> . 2017 Mar 15; 22(1):6.
96	Xu X, Yu H, Wu T, Gao M, et al. Epidemiological survey of stroke in Hancunhe Town, Fangshan District, Beijing [J]. <i>Lingnan Cardiovascular Diseases</i> , 2012, 18(04): 387-389.

Table S3. The 96 studies covered different regions in China

Regions	Including provinces, autonomous regions and municipalities (n)	The number of study (n)	Number of the 96 studies included in this meta-analysis
1.North China	Beijing, Hebei, Inner Mongolia	30	13,15,18,19,26,27,28,30,36,37, 38,39,40,41,43,45,46,47,48,49, 57,58,59,60,71,72,76,81, 96,
2.Northeast China	Liaoning, Jilin	8	2, 25,29,31,53,55,88,93,
3.Northwest China	Ningxia, Xinjiang, Shaanxi	4	68,69,73,84,
4.Central China	Hubei, Hunan, Henan	8	4,6,17, 61,62,82,89,
5.East China	Shandong, Jiangsu, Anhui, Zhejiang, Shanghai	19	3,5,7,8,9,11,12,16,32,33,34,35, 56,70,74,75,77,78,79,80
6.Southwest China	Sichuan, Yunnan, Tibet,Chongqing	12	42,44,50,51,52,54,63,64,65, 85,86,90,
7.South China	Guangdong, Guangxi	7	1,14,24,23,66,67,91,
8. Taiwan	Taiwan	1	22,
9.Others*	China, Shaanxi and Sichuan	7	20,21,83,84,92,94,95,

*contains: 6 national multicenter studies and 1 studies in joint area (Shaanxi and Sichuan provinces).