

評価対象論文リスト(要因:能動喫煙、アウトカム:循環器病)

評価判定日:2023/12/20

1	Hozawa A, Okamura T, Murakami Y, et al. Joint impact of smoking and hypertension on cardiovascular disease and all-cause mortality in Japan: NIPPON DATA80, a 19-year follow-up. <i>Hypertens Res.</i> 2007;30(12):1169-1175. doi:10.1291/hypres.30.1169
2	Honjo K, Iso H, Tsugane S, et al. The effects of smoking and smoking cessation on mortality from cardiovascular disease among Japanese: pooled analysis of three large-scale cohort studies in Japan. <i>Tob Control.</i> 2010;19(1):50-57. doi:10.1136/tc.2009.029751
3	Mannami T, Iso H, Baba S, et al. Cigarette smoking and risk of stroke and its subtypes among middle-aged Japanese men and women: the JPHC Study Cohort I. <i>Stroke.</i> 2004;35(6):1248-1253. doi:10.1161/01.STR.0000128794.30660.e8
4	Hozawa A, Okamura T, Kadowaki T, et al. Is weak association between cigarette smoking and cardiovascular disease mortality observed in Japan explained by low total cholesterol? NIPPON DATA80. <i>Int J Epidemiol.</i> 2007;36(5):1060-1067. doi:10.1093/ije/dym169
5	Baba S, Iso H, Mannami T, et al. Cigarette smoking and risk of coronary heart disease incidence among middle-aged Japanese men and women: the JPHC Study Cohort I. <i>Eur J Cardiovasc Prev Rehabil.</i> 2006;13(2):207-213. doi:10.1097/01.hjr.0000194417.16638.3d
6	Takashima N, Miura K, Hozawa A, et al. Population attributable fraction of smoking and metabolic syndrome on cardiovascular disease mortality in Japan: a 15-year follow up of NIPPON DATA90. <i>BMC Public Health.</i> 2010;10:306. Published 2010 Jun 3. doi:10.1186/1471-2458-10-306
7	Iso H, Date C, Yamamoto A, et al. Smoking cessation and mortality from cardiovascular disease among Japanese men and women: the JACC Study. <i>Am J Epidemiol.</i> 2005;161(2):170-179. doi:10.1093/aje/kwi027
8	Kiyohara Y, Ueda K, Fujishima M. Smoking and cardiovascular disease in the general population in Japan. <i>J Hypertens Suppl.</i> 1990;8(5):S9-S15.
9	Kondo T, Osugi S, Shimokata K, et al. Smoking and smoking cessation in relation to all-cause mortality and cardiovascular events in 25,464 healthy male Japanese workers. <i>Circ J.</i> 2011;75(12):2885-2892. doi:10.1253/circj.cj-11-0416
10	Nakamura K, Nakagawa H, Sakurai M, et al. Influence of smoking combined with another risk factor on the risk of mortality from coronary heart disease and stroke: pooled analysis of 10 Japanese cohort studies. <i>Cerebrovasc Dis.</i> 2012;33(5):480-491. doi:10.1159/000336764
11	Higashiyama A, Okamura T, Ono Y, Watanabe M, Kokubo Y, Okayama A. Risk of smoking and metabolic syndrome for incidence of cardiovascular disease--comparison of relative contribution in urban Japanese population: the Suita study. <i>Circ J.</i> 2009;73(12):2258-2263.
12	Ueshima H, Choudhury SR, Okayama A, et al. Cigarette smoking as a risk factor for stroke death in Japan: NIPPON DATA80. <i>Stroke.</i> 2004;35(8):1836-1841. doi:10.1161/01.STR.0000131747.84423.74
13	Hara M, Sobue T, Sasaki S, Tsugane S. Smoking and risk of premature death among middle-aged Japanese: ten-year follow-up of the Japan Public Health Center-based prospective study on cancer and cardiovascular diseases (JPHC Study) cohort I. <i>Jpn J Cancer Res.</i> 2002;93(1):6-14.
14	Wang X, Dong JY, Cui R, et al. Smoking cessation, weight gain and risk of cardiovascular disease. <i>Heart.</i> 2022;108(5):375-381.
15	Akter S, Nakagawa T, Honda T, et al. Smoking, Smoking Cessation, and Risk of Mortality in a Japanese Working Population - Japan Epidemiology Collaboration on Occupational Health Study. <i>Circ J.</i> 2018;82(12):3005-3012. doi:10.1253/circj.CJ-18-0404
16	Hori A, Inoue Y, Kuwahara K, et al. Smoking and Long-Term Sick Leave in a Japanese Working Population: Findings of the Japan Epidemiology Collaboration on Occupational Health Study. <i>Nicotine Tob Res.</i> 2021;23(1):135-142. doi:10.1093/ntr/ntz204
17	Hozawa A. Attributable fractions of risk factors for cardiovascular diseases. <i>J Epidemiol.</i> 2011;21(2):81-86. doi:10.2188/jea.je20100081

18	Nakamura K, Nakagawa H, Murakami Y, et al. Smoking increases the risk of all-cause and cardiovascular mortality in patients with chronic kidney disease. <i>Kidney Int.</i> 2015;88(5):1144-1152. doi:10.1038/ki.2015.212
19	Higashi S, Shiga Y, Yano M, et al. Associations between smoking habits and major adverse cardiovascular events in patients who underwent coronary computed tomography angiography as screening for coronary artery disease. <i>Heart Vessels.</i> 2021;36(4):483-491. doi:10.1007/s00380-020-
20	Lee PN, Forey BA, Thornton AJ, Coombs KJ. The relationship of cigarette smoking in Japan to lung cancer, COPD, ischemic heart disease and stroke: A systematic review. <i>F1000Res.</i> 2018;7:204. Published 2018 Feb 19. doi:10.12688/f1000research.14002.1
21	Eshak ES, Iso H, Yamagishi K, et al. Modification of the excess risk of coronary heart disease due to smoking by seafood/fish intake. <i>Am J Epidemiol.</i> 2014;179(10):1173-1181. doi:10.1093/aje/kwu030
22	Hatanaka Y, Tamakoshi A, Tsushita K. <i>Sangyo Eiseigaku Zasshi.</i> 2015;57(3):67-76. doi:10.1539/sangyoeisei.B14008
23	Matsunaga M, Yatsuya H, Iso H, et al. Similarities and differences between coronary heart disease and stroke in the associations with cardiovascular risk factors: The Japan Collaborative Cohort Study. <i>Atherosclerosis.</i> 2017;261:124-130. doi:10.1016/j.atherosclerosis.2017.03.003
24	Woodward M, Lam TH, Barzi F, et al. Smoking, quitting, and the risk of cardiovascular disease among women and men in the Asia-Pacific region. <i>Int J Epidemiol.</i> 2005;34(5):1036-1045. doi:10.1093/ije/dyi104
25	Yatsuya H, Iso H, Yamagishi K, et al. Development of a point-based prediction model for the incidence of total stroke: Japan public health center study. <i>Stroke.</i> 2013;44(5):1295-1302. doi:10.1161/STROKEAHA.111.677534
26	Yatsuya H, Iso H, Li Y, et al. Development of a Risk Equation for the Incidence of Coronary Artery Disease and Ischemic Stroke for Middle-Aged Japanese - Japan Public Health Center-Based Prospective Study. <i>Circ J.</i> 2016;80(6):1386-1395. doi:10.1253/circj.CJ-16-0081
27	Arafa A, Kokubo Y, Sheerah HA, et al. Developing a Stroke Risk Prediction Model Using Cardiovascular Risk Factors: The Suita Study. <i>Cerebrovasc Dis.</i> 2022;51(3):323-330. doi:10.1159/000520100
28	Kokubo Y, Watanabe M, Higashiyama A, Nakao YM, Kusano K, Miyamoto Y. Development of a Basic Risk Score for Incident Atrial Fibrillation in a Japanese General Population - The Suita Study. <i>Circ J.</i> 2017;81(11):1580-1588. doi:10.1253/circj.CJ-17-0277
29	Nishimura K, Okamura T, Watanabe M, et al. Predicting coronary heart disease using risk factor categories for a Japanese urban population, and comparison with the framingham risk score: the suita study. <i>J Atheroscler Thromb.</i> 2014;21(8):784-798. doi:10.5551/jat.19356
30	Honda T, Chen S, Hata J, et al. Development and Validation of a Risk Prediction Model for Atherosclerotic Cardiovascular Disease in Japanese Adults: The Hisayama Study. <i>J Atheroscler Thromb.</i> 2022;29(3):345-361. doi:10.5551/jat.61960
31	Inoue-Choi M, Freedman ND, Saito E, et al. Low-intensity cigarette smoking and mortality risks: a pooled analysis of prospective cohort studies in Japan [published correction appears in <i>Int J Epidemiol.</i> 2022 Aug 10;51(4):1355. doi: 10.1093/ije/dyac027.]. <i>Int J Epidemiol.</i> 2022;51(4):1276-
32	Arima H, Yonemoto K, Doi Y, et al. Development and validation of a cardiovascular risk prediction model for Japanese: the Hisayama study. <i>Hypertens Res.</i> 2009;32(12):1119-1122. doi:10.1038/hr.2009.161
33	Ishikawa S, Matsumoto M, Kayaba K, et al. Risk charts illustrating the 10-year risk of stroke among residents of Japanese rural communities: the JMS Cohort Study. <i>J Epidemiol.</i> 2009;19(2):101-106. doi:10.2188/jea.je20080092
34	Harada A, Ueshima H, Kinoshita Y, et al. Absolute risk score for stroke, myocardial infarction, and all cardiovascular disease: Japan Arteriosclerosis Longitudinal Study. <i>Hypertens Res.</i> 2019;42(4):567-579. doi:10.1038/s41440-019-0220-z
35	Itoh H, Kaneko H, Fujii K, et al. Risk Factors and Lifestyles in the Development of Atrial Fibrillation Among Individuals Aged 20-39 Years. <i>Am J Cardiol.</i> 2021;155:40-44. doi:10.1016/j.amjcard.2021.06.010

36	Wang X, Qin LQ, Arafa A, Eshak ES, Hu Y, Dong JY. Smoking Cessation, Weight Gain, Cardiovascular Risk, and All-Cause Mortality: A Meta-analysis. <i>Nicotine Tob Res.</i> 2021;23(12):1987-1994. doi:10.1093/ntr/ntab076
37	Lee H, Son YJ. Influence of Smoking Status on Risk of Incident Heart Failure: A Systematic Review and Meta-Analysis of Prospective Cohort Studies. <i>Int J Environ Res Public Health.</i> 2019;16(15):2697. Published 2019 Jul 29. doi:10.3390/ijerph16152697
38	Huxley RR, Woodward M. Cigarette smoking as a risk factor for coronary heart disease in women compared with men: a systematic review and meta-analysis of prospective cohort studies. <i>Lancet.</i> 2011;378(9799):1297-1305. doi:10.1016/S0140-6736(11)60781-2
39	Hackshaw A, Morris JK, Boniface S, Tang JL, Milenković D. Low cigarette consumption and risk of coronary heart disease and stroke: meta-analysis of 141 cohort studies in 55 study reports [published correction appears in <i>BMJ.</i> 2018 Apr 11;361:k1611. doi: 10.1136/bmj.k1611.] [published correction appears in <i>BMJ.</i> 2018 Nov 28;363:k5035. doi: 10.1136/bmj.k5035.]. <i>BMJ.</i> 2018;360;j5855. Published 2018 Jan 24.
40	Luo J, Tang X, Li F, et al. Cigarette Smoking and Risk of Different Pathologic Types of Stroke: A Systematic Review and Dose-Response Meta-Analysis. <i>Front Neurol.</i> 2022;12:772373. Published 2022 Jan 25. doi:10.3389/fneur.2021.772373
41	Oono IP, Mackay DF, Pell JP. Meta-analysis of the association between secondhand smoke exposure and stroke. <i>J Public Health (Oxf).</i> 2011;33(4):496-502. doi:10.1093/pubmed/fdr025
42	Vidyasagaran AL, Siddiqi K, Kanaan M. Use of smokeless tobacco and risk of cardiovascular disease: A systematic review and meta-analysis. <i>Eur J Prev Cardiol.</i> 2016;23(18):1970-1981. doi:10.1177/2047487316654026
43	Gupta R, Gupta S, Sharma S, Sinha DN, Mehrotra R. Risk of Coronary Heart Disease Among Smokeless Tobacco Users: Results of Systematic Review and Meta-Analysis of Global Data. <i>Nicotine Tob Res.</i> 2019;21(1):25-31. doi:10.1093/ntr/nty002
44	Aune D, Schlesinger S, Norat T, Riboli E. Tobacco smoking and the risk of heart failure: A systematic review and meta-analysis of prospective studies. <i>Eur J Prev Cardiol.</i> 2019;26(3):279-288. doi:10.1177/2047487318806658
45	Pan A, Wang Y, Talaei M, Hu FB. Relation of Smoking With Total Mortality and Cardiovascular Events Among Patients With Diabetes Mellitus: A Meta-Analysis and Systematic Review. <i>Circulation.</i> 2015;132(19):1795-1804. doi:10.1161/CIRCULATIONAHA.115.017926

■コホート研究(コホートのプール解析含む)

Reference			Study subjects						Category	Number among cases	Relative risk (95%CI or p)	Confounding variables considered	Magnitude of association
Author	Title	Year	Study period	Number of subjects	Source of subjects	Event followed	Number of incident cases or deaths	Participant's race					
Honjo et al.	The effects of smoking and smoking cessation on mortality from cardiovascular disease among Japanese: pooled analysis of three large-scale cohort studies in Japan	2010	1980-1990	140,026 males and 156,810 females	JPHC Study I II, TPCStudy, JACCStudy: General population	CVDdeath	3131 stroke deaths, 1497 CHD deaths, and 4628 CVD deaths	Japan	1-1(日本人集団のプール解析)	Current Smoker vs never-smoker : Men all CVD 1.51 (1.38 to 1.64) CHD 2.19 (1.79, 2.67) All Stroke 1.24 (1.10,1.41) SAH 2.39(1.53-3.73) WOMEN all CVD 1.85 (1.65, 2.06) CHD 2.84 (2.24, 3.60) All Stroke 1.70 (1.44, 2.01) SAH 2.93(2.15-3.98)	age and cohort	All CVD:moderate ↑ ↑ CHD:strong ↑ ↑ ↑ Stroke:weak~moderate ↑ ↑ SAH:strong ↑ ↑ ↑	
Mannami et al.	Cigarette smoking and risk of stroke and its subtypes among middle-aged Japanese men and women: the JPHC Study Cohort I	2004	1990-2001	19 782 men and 21 500 women	JPHC Study : General population	Stroke incidence	MEN 702 WOMEN 447 MEN Ischemic327 SAH73 WOMEN Ischemic161 SAH92	Japan Asia Oseania	2(日本人集団のコホート研究)	Current Smoker vs never-smoker : Men All Stroke 1.27 (1.05-1.54) Ischemic 1.56 (1.17-2.10) SAH 3.60 (1.62-8.01) WOMEN All Stroke 1.98 (1.42-2.77) Ischemic 1.57 (0.86-2.87) SAH 2.70 (1.45-5.02)	age alcohol intake body mass index history of diabetes education level sports at leisure frequency of fruit, vegetable, and fish servings and public health centers	Stroke:weak~moderate ↑ ↑ Ischemic Stroke: moderate ↑ ↑ SAH:strong ↑ ↑ ↑	
Baba et al.	Cigarette smoking and risk of coronary heart disease incidence among middle-aged Japanese men and women: the JPHC Study Cohort I	2006	1990-2001	19 782 men and 21 500 women	JPHC Study Cohort I: General population	CHD incidence	MEN 260 WOMEN 66 MEN MI 174 SuddenDeath 63 WOMEN MI 43 SuddenDeath 16	Japan	2(日本人集団のコホート研究)	Current Smoker vs never-smoker : All CHD: Men 2.85 (1.98, 4.12) WOMEN 3.07 (1.48, 6.40)	age, alcohol intake, frequency of fruit, vegetable and fish servings, previous histories of hypertension and diabetes, treated hyperlipidemia, education years, and public health centre	CHD:strong ↑ ↑ ↑	
Iso et al.	Smoking Cessation and Mortality from Cardiovascular Disease among Japanese Men and Women: The JACC Study	2005	1988-1999	94,683 (41,782 men and 52,901 women)	JACC Study: General population	CVDdeath	CVD death: Men1,555 Women 1,155 MEN 698 stroke deaths, 348 CHD death, WOMEN 550 stroke deaths, 199CHD death	Japan	2(日本人集団のコホート研究)	Current Smoker vs non-smoker : Men all CVD 1.60 (1.39, 1.84) All Stroke 1.39 (1.13, 1.70) CHD 2.51 (1.79, 3.51) SAH 2.98 (1.34, 6.63) WOMEN all CVD 2.06 (1.69, 2.51) All Stroke 1.65 (1.21, 2.25) CHD 3.35 (2.23, 5.02) SAH 3.25 (1.92, 5.52)	age, body mass index, ethanol intake, hours of walking and exercise, hours of sleep, no. of years of education, perceived mental stress, frequencies of fruit and fish intake, and histories of hypertension and diabetes	All CVD:moderate ↑ ↑ CHD:strong ↑ ↑ ↑ Stroke:weak~moderate ↑ ↑ SAH:strong ↑ ↑ ↑	
Kondo et al.	Smoking and smoking cessation in relation to all-cause mortality and cardiovascular events in 25,464 healthy male Japanese workers	2011	2000-2008	25,464 healthy male Japanese workers	Male workers	CVD incidence	ALL CVD incidence115 stroke 73, MI 37	Japan	2(日本人集団のコホート研究)	Moderate smoker (11-20/day-) vs non-smoker : CVD2.94 (1.65 - 5.63) stroke 2.46 (1.26-5.25), MI 3.93 (1.29-17.0) Heavy smoker (21/day-)vs non-smoker : all CVD3.25 (1.69 - 6.54) stroke 2.21 (0.97-5.19), MI 5.82 (1.80-25.9)	age, systolic blood pressure, total cholesterol, fasting plasma glucose level depending on the status of smoking	All CVD, MI, STROKE: strong ↑ ↑ ↑	
Ueshima et al.	Cigarette smoking as a risk factor for stroke death in Japan: NIPPON DATA80	2004	1980-1994	8929 subjects (3972 men and 4957 women).	NIPPON DATA80: General population	Stroke Death	203 stroke deaths, 191 IHD deaths, and 413 CVD deaths	Japan	2(日本人集団のコホート研究)	Heavy smoker (21/day-)vs non-smoker : MEN : all CVD2.00 (1.24-3.31) stroke2.17 (1.09-4.30), IHD 4.25 (1.42-12.8) WOMEN:all CVD2.35 (0.85-6.50) stroke3.91 (1.18-12.90) IHD:N/A	age, systolic blood pressure, body mass index, serum total cholesterol, drinking habit, and diabetes.	All CVD, MI, STROKE: strong ↑ ↑ ↑	
Akter et al.	Smoking, Smoking Cessation, and Risk of Mortality in a Japanese Working Population - Japan Epidemiology Collaboration on Occupational Health Study	2018	2010-2017	79114 (men and women)	Japan Epidemiology Collaboration on Occupational Health Study: WORKERS	CVD death:	CVD death: 63	Japan	2(日本人集団のコホート研究)	Smoker (21/day-)vs non-smoker : all CVD :2.45 (1.01-5.91) Current smokers vs non-smoker : all CVD 1.79 (0.99-3.24)	age, sex, and worksite, BMI (kg/m2), hypertension, diabetes, and dyslipidemia	all CVD:moderate~strong ↑ ↑	

Woodward et al.	Smoking, quitting, and the risk of cardiovascular disease among women and men in the Asia-Pacific region	2005	1961-1999	463 674 Asians (33% female) and 98 664 Australasians (45% female).	MIXED	CVD, IHD, Stroke events (fatal or non-fatal)	8490 CVD deaths (3010 CHD death 3131 stroke death) 1173 non-fatal MI, 2799 non-fatal stroke	Japan Australia NewZealandChina Hong KongSingapore Taiwan South Korea	3(アジア集団のブール解析)	Current Smoker vs non-smoker : all CVD1.42(1.36-1.48) CHD 1.60 (1.49-1.72) STROKE1.19 (1.06-1.33)	age and systolic blood pressure after stratification by sex and study.	All CVD:weak ↑ MI:moderate ↑ ↑ STROKE: weak ↑
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■メタ解析

Reference		Include study			Design	Category	Relative risk (95% CI or p)	Magnitude of association			
Author	Title	Year	No of study included	Year	design	Study location	Event (*Definition)				
Lee et al.	The relationship of cigarette smoking in Japan to lung cancer, COPD, ischemic heart disease and stroke: A systematic review	2018	IHD :9study STROKE :7study	Published in 1990-2010	cohort or case-control(at least 100 CVD cases)	Japan only	IHD(CHD/AMI) and/or STROKE	random-effects meta-analysis	1-2(日本人集団のメタ解析、系統的レビュー)	CurrentSmoker vs Never-smoker:IHD 2.21 (1.96-2.50) STROKE 1.40 (1.25-1.57) Ex-Smoking vs Never-smoker: IHD 1.46 (1.24-1.71) STROKE 1.05 (0.96-1.15) IHD CurrentSmoker(5 cigs/day) vs Never-smoker:1.71 (1.50-1.94) CurrentSmoker(20 cigs/day) vs Never-smoker: 1.91 (1.55-2.35) CurrentSmoker(45 cigs/day) vs Never-smoker: 2.70 (2.16-3.39) Stroke CurrentSmoker(5 cigs/day) vs Never-smoker:1.38 (1.15-1.65) CurrentSmoker(20 cigs/day) vs Never-smoker: 1.29 (1.07-1.56) CurrentSmoker(45 cigs/day) vs Never-smoker: 1.64 (1.21-2.22)	IHD:strong ↑ ↑ ↑ STROKE:weak ↑