

Supplementary material 2. Excluded articles

	Article	Reason for exclusion
1	1 Morris JN, Heady JA, Raffle PA, Roberts CG, Parks JW. Coronary heart-disease and physical activity of work. <i>Lancet</i> . 1953;265(6796):1111-1120.	No LTPA assessment
2	2 Brand RJ, Paffenbarger RS Jr, Sholtz RI, Kampert JB. Work activity and fatal heart attack studied by multiple logistic risk analysis. <i>Am J Epidemiol</i> . 1979;110(1):52-62.	No LTPA assessment
3	3 Paffenbarger RS Jr, Laughlin ME, Gima AS, Black RA. Work activity of longshoremen as related to death from coronary heart disease and stroke. <i>N Engl J Med</i> . 1970;282(20):1109-1114.	No LTPA assessment
4	4 Paffenbarger RS Jr, Brand RJ, Sholtz RI, Jung DL. Energy expenditure, cigarette smoking, and blood pressure level as related to death from specific diseases. <i>Am J Epidemiol</i> . 1978;108(1):12-18.	No LTPA assessment
5	5 Paffenbarger RS, Gima AS, Laughlin E, Black RA. Characteristics of longshoremen related fatal coronary heart disease and stroke. <i>Am J Public Health</i> . 1971; 61(7): 1362-1370.	No LTPA assessment
6	6 Paffenbarger RS, Hale WE. Work activity and coronary heart mortality. <i>N Engl J Med</i> . 1975; 292(11):545-50.	No LTPA assessment
7	7 Paffenbarger RS, Hale WE, Brand RJ, Hyde RT. Work-energy level, personal characteristics, and fatal heart attack: a birth cohort effect. <i>Am J Epidemiol</i> , 1977; 105(3): 200-213	No LTPA assessment
8	8 Menotti A, Seccareccia F. Physical activity at work and job responsibility as risk factors for fatal coronary heart disease and other causes of death. <i>J Epidemiol Community Health</i> , 1985; 39(4):325-329.	No LTPA assessment
9	9 Menotti A, Puddu V. Ten-year mortality from coronary heart disease among 172,000 men classified by occupational physical activity. <i>Scand J Work Environ Health</i> 1979; 5(2):100-108.	No LTPA assessment
10	10 Menotti A, Puddu V. Death rates among the Italian railroad employees, with special reference to coronary heart disease and physical activity at work'. <i>Environ Res</i> , 1976; 11, 331-342.	No LTPA assessment
11	11 Ferrario MM, Veronesi G, Chambless LE, Segal R, Fornari C, Bonzini M, Cesana G. The contribution of major risk factors and job strain to occupational class differences in coronary heart disease incidence: the MONICA Brianza and PAMELA population-based cohorts. <i>Occup Environ Med</i> . 2011; 68(10):717-722	No OPA assessment
12	12 Östlin P. Occupational history, self-reported chronic illness, and mortality: A follow up of 25 586 Swedish men and women. <i>J Epidemiol Community Health</i> , 1990; 44(1): 12-16	No LTPA assessment
13	13 Menotti A, Lanti M, Seccareccia F, Giampaoli S, Dima F. Multivariate prediction of the first major cerebrovascular event in an Italian population sample of middle-aged men followed up for 25 years, <i>Stroke</i> ; 1993; 24(1):42-48.	No LTPA assessment
14	14 Italian research group of the seven countries study. Incidence and prediction of coronary heart disease in two Italian rural population samples followed-up for 20 years. <i>Acta Cardiologica</i> , 1982; 37(2): 129-145.	No LTPA assessment
15	15 Menotti A, Puddu PE, Maiani G, Catasta G. Cardiovascular and other causes of death as a function of lifestyle habits in a quasi extinct middle-aged male population. A 50-year follow-up study. <i>Int J Cardiol</i> . 2016; 1(210):173-178	No LTPA assessment
16	16 Seccareccia F, Menotti A. Physical activity, physical fitness and mortality in a sample of middle aged men followed-up 25 years. <i>J Sports Med Phys Fitness</i> . 1992; 32(2):206-213.	No LTPA assessment
17	17 Menotti A, Lanti M. Coronary risk factors predicting early and late coronary deaths, <i>Heart</i> ; 2003; 89(1):19-24.	No LTPA assessment
18	18 Menotti A, Puddu PE, Lanti M, Maiani G, Catasta G, Fidanza AA. Lifestyle habits and mortality from all and specific causes of death: 40-year follow-up in the Italian Rural Areas of the Seven Countries Study, <i>J Nutr Health Aging</i> ; 2014; 18(3):314-321.	No LTPA assessment

19	19	Menotti A, Lanti M, Maiani G, Kromhout D. Forty-year mortality from cardiovascular diseases and their risk factors in men of the Italian rural areas of the Seven Countries Study. <i>Acta Cardiol</i> , 2005; 60(5):521-531	No LTPA assessment
20	20	Menotti A, Lanti M, Maiani G, Kromhout D. Determinants of longevity and all-cause mortality among middle-aged men. Role of 48 personal characteristics in a 40-year follow-up of Italian Rural Areas in the Seven Countries Study. <i>Aging Clin Exp Res</i> , 2006; 18(5):394-406.	No LTPA assessment
21	21	Hemmingsson T, Lundberg I. Can large relative mortality differences between socio-economic groups among Swedish men be explained by risk indicator-associated social mobility? <i>Eur J Public Health</i> , 2005; 15(5): 518–522	No LTPA assessment
22	22	Marti B, Minder CE. [Physical occupational activity and colonic carcinoma mortality in Swiss men 1979-1982]. <i>Soz Praventivmed</i> , 1989; 34(1): 30-37	No LTPA assessment
23	23	Marti B, Minder CE. Occupational physical activity and colon cancer mortality of Swiss men 1979-1982. <i>Soz Praventivmed</i> , 1989; 34(1): 30-37	No LTPA assessment
24	24	Norman A, Moradi T, Gridley G, Dosemeci M, Rydh B, Nyren O, Wolk A. Occupational physical activity and risk for prostate cancer in a nationwide cohort study in Sweden. <i>Br J Cancer</i> , 2002; 86(1):70-75	No LTPA assessment
25	25	Tatishvili S, Esquirol Y, Ruidavets JB, Ferrieres J. Does leisure physical activity efficiently decrease the consequences of occupational social inequalities on cardiovascular diseases? <i>Arch Cardiovasc Dis</i> , 2016; 8(1):97-98	No LTPA assessment
26	1	Albert MA, Glynn RJ, Buring J, Ridker PM. Impact of traditional and novel risk factors on the relationship between socioeconomic status and incident cardiovascular events. <i>Circulation</i> , 2006; 114(24):2619-2626	No OPA assessment
27	2	Armstrong DL, Castorina J. Community occupational structure, basic services, and coronary mortality in Washington state, 1980-1994. <i>Ann Epidemiol</i> , 1998; 8(6):370-377	No OPA assessment
28	3	Arndt V, Rothenbacher D, Zschenderlein B, Schuberth S, Brenner H. Body mass index and premature mortality in physically heavily working men—a ten-year follow-up of 20,000 construction workers. <i>J Occup Environ Med</i> , 2007; 49(8):913-921	No OPA assessment
29	4	Blair A, Sandler DP, Tarone R, Lubin J, Thomas K, Hoppin JA, Samanic C, Coble J, Kamel F, Knott C, Dosemeci M, Zahm SH, Lynch CF, Rothman N, Alavanja MC. Mortality among participants in the agricultural health study. <i>Ann Epidemiol</i> , 2005; 15(4):279-285	No OPA assessment
30	5	Boice JD, Mandel JS, Doody MM, Yoder RC, McGowan R. A health survey of radiologic technologists. <i>Cancer</i> , 1992; 69(2):586-598	No OPA assessment
31	6	Calle EE, Murphy TK, Rodriguez C, Thun MJ, Heath CW. Occupation and breast cancer mortality in a prospective cohort of US women. <i>Am J Epidemiol</i> , 1998; 148(2):191-197	No OPA assessment
32	7	Damlund M, Goth S, Hasle P, Jeune B, Munk K. The incidence of disability pensions and mortality among semi-skilled construction workers in Copenhagen. A retrospective cohort study with two control groups. <i>Scand J Soc Med</i> , 1982; 10(2):43-47	No OPA assessment
33	8	Farioli A, Yang J, Teehan D, Baur DM, Smith DL, Kales SN. Duty-related risk of sudden cardiac death among young US firefighters. <i>Occup Med</i> , 2014; 64(6): 428-435	No OPA assessment
34	9	Hara M, Mori M, Nishizumi M. Differences in lifestyle-related risk factors for death by occupational groups, a prospective study. <i>J Occup Health</i> , 1999; 41(3):137-143	No OPA assessment
35	10	Kjeldsen SE, Mundal R, Sandvik L, Erikssen G, Thaulow E, Erikssen J. Supine and exercise systolic blood pressure predict cardiovascular death in middle-aged men. <i>J Hypertens</i> , 2001; 19(8):1343-1348	No OPA assessment
36	11	Shirom A, Toker S, Jacobson O, Balicer RD. Feeling vigorous and the risks of all-cause mortality, ischemic heart disease, and diabetes: a 20-year follow-up of healthy employees. <i>Psychosom Med</i> , 2010; 72(8):727-733	No OPA assessment
37	12	Singer S, Bartels M, Briest S, Einenkel J, Niederwieser D, Papsdorf K, Stolzenburg JU, Künstler S, Taubenheim S, Krauß O. Socio-economic disparities in long-term cancer survival—10 year follow-up with individual patient data. <i>Support Care Cancer</i> , 2017; 25(5):1391-1399	No OPA assessment

38	13	Matthews CE, Moore SC, Sampson J, Blair A, Xiao Q, Keadle SK, Hollenbeck A., Park Y. Mortality Benefits for Replacing Sitting Time with Different Physical Activities. <i>Med Sci Sports Exerc</i> , 2015; 47(9):1833-1839	No OPA assessment
39	14	Byrne DW, Rolando LA, Aliyu MH, McGown PW, Connor LR, Awalt BM, Holmes MC, Wang L, Yarbrough MI. Modifiable healthy lifestyle behaviors: 10-year health outcomes from a health promotion program. <i>Am J Prev Med</i> , 2016; 51(6):1027-1037.	No OPA assessment
40	15	Berstad P, Botteri E, Larsen IK, Loberg M, Kalager M, Holme O, Bretthauer M, Hoff G. Lifestyle changes at middle age and mortality: a population-based prospective cohort study <i>J Epidemiol Community Health</i> , 2017; 71(1):59-66	No OPA assessment
41	16	Kittel F, de Smet P, Leynen F, Dramaix M, de Backer G, Kornitzer, M. Socio-professional level and long-term mortality in three Belgian large-scale studies. <i>Arch Public Health</i> , 2003; 61(1-2): 3-14	No OPA assessment
42	17	Pocock SJ, Shaper AG, Cook DG, Phillips AN, Walker M. Social class differences in ischaemic heart disease in British men. <i>Lancet</i> , 1987; 2(8552): 197-201	No OPA assessment
43	18	Virtanen SV, Notkola V. Socioeconomic inequalities in cardiovascular mortality and the role of work: a register study of Finnish men. <i>Int J Epidemiol</i> , 2002; 31(3):614-621	No OPA assessment
44	19	Blair S. Physical inactivity: A major public health problem. <i>Obesity Reviews</i> , 2014; 15:5	No OPA assessment
45	20	Blair S. Physical activity: Impact on mortality and morbidity. <i>Ann Nutr Metab</i> , 2013; 63:27	No OPA assessment
46	21	Robsahm TE, Falk RS, Heir T, Sandvik L, Vos L, Erikssen JE, Tretli S. Measured cardiorespiratory fitness and self-reported physical activity: associations with cancer risk and death in a long-term prospective cohort study. <i>Cancer Med</i> , 2016; 5(8):2136-2144	No OPA assessment
47	1	Virtanen SV, Notkola V. Socioeconomic inequalities in cardiovascular mortality and the role of work: a register study of Finnish men. <i>Int J Epidemiol</i> . 2002; 31(3):614-621.	OPA has not been assessed properly
48	1	Kannel WB, Belanger A, D'Agostino R, Israel I. Physical activity and physical demand on the job and risk of cardiovascular disease and death: the Framingham Study. <i>Am Heart J</i> , 1986; 112(4):820-825.	No differentiation between LTPA and OPA
49	2	Kannel WB, Sorlie P. Some health benefits of physical activity. The Framingham Study. <i>Arch Intern Med</i> , 1979; 139(8):857-861.	No differentiation between LTPA and OPA
50	3	Kwak L, Berrigan D, Van Domelen D, Sjöström M, Hagströmer M. Examining differences in physical activity levels by employment status and/or job activity level: Gender-specific comparisons between the United States and Sweden. <i>J Sci Med Sport</i> , 2016; 19(6):482-427.	No differentiation between LTPA and OPA
51	4	Dohrn IM, Sjöström M, Kwak L, Oja P, Hagströmer M. Accelerometer-measured sedentary time and physical activity-A 15 year follow-up of mortality in a Swedish population-based cohort. <i>J Sci Med Sport</i> , 2017; 7: S1440-2440	No differentiation between LTPA and OPA
52	5	Hinkle LE, Thaler HT, Merke DP, Renier-Berg D, Morton NE. The risk factors for arrhythmic death in a sample of men followed for 20 years. <i>Am J Epidemiol</i> , 1988; 127(3):500-515	No differentiation between LTPA and OPA
53	6	Inoue M, Iso H, Yamamoto S, Kurahashi N, Iwasaki M, Sasazuki S, Tsugane S. Daily total physical activity level and premature death in men and women: results from a large-scale population-based cohort study in Japan (JPHC study). <i>Ann Epidemiol</i> , 2008; 18(7):522-530	No differentiation between LTPA and OPA
54	7	Siscovick DS, Ekelund LG, Hyde JS, Johnson JL, Gordon DJ, LaRosa JC. Physical activity and coronary heart disease among asymptomatic hypercholesterolemic men (the Lipid Research Clinics Coronary Primary Prevention Trial). <i>Am J Public Health</i> , 1988; 78(11):1428-1431	No differentiation between LTPA and OPA
55	8	Hart CL, Smith GD, Blane D. Social mobility and 21 year mortality in a cohort of Scottish men. <i>Soc Sci Med</i> , 1998; 47(8): 1121-1130	No differentiation between LTPA and OPA
56	9	Singh P, Almarzooq Z, Roman M, Devereux R. Gender differences in physical activity levels on cardiovascular events in diabetes: The strong heart study. <i>Circulation</i> , 2016; 133: 2016	No differentiation between LTPA and OPA
57	10	Andersen S, Zheng W, Sonderman J, Shu XO, Matthews CE, Yu D, Steinwandel M, McLaughlin JK, Hargreaves MK, Blot WJ. Combined	No differentiation

		impact of health behaviors on mortality in low-income Americans. <i>Am J Prev Med</i> , 2016;51(3):344-355	between LTPA and OPA
58	1	Clays E, de Bacquer D, Janssens H, de Clercq B, Casini A, Braeckman L, Kittel F. The association between leisure time physical activity and coronary heart disease among men with different physical work demands: a prospective cohort study. <i>Eur J Epidemiol</i> , 2013; 28: 241–247	Not about all-cause or CVD mortality
59	2	Clays E, Casini A, van Herck K, de Bacquer D, Kittel F, de Backer G, Holtermann A. Do psychosocial job resources buffer the relation between physical work demands and coronary heart disease? A prospective study among men <i>Int Arch Occup Environ Health</i> , 2016; 89:1299–1307	Not about all-cause or CVD mortality
60	1	Jayasekara H; English DR, Haydon A, Hodge AM, Lynch BM, Rosty C, Williamson EJ, Clendenning M, Southey MC, Jenkins MA, Room R, Hopper JL, Milne RL, Buchanan DD, Giles GG, MacInnis RJ. Associations of alcohol intake, smoking, physical activity and obesity with survival following colorectal cancer diagnosis by stage, anatomic site and tumor molecular subtype. <i>Int J Cancer</i> , 2018; 142(2):238-250.	Clinical population
61	2	Pinelli L, Marini A, Voronovitsky G, Lugo M. Habitual physical activity and survival of patients in hemodialysis. <i>NDT Plus</i> , 2010; 3:86	Clinical Population
62	3	Sone H, Tanaka S, Tanaka S, Suzuki S, Seino H, Hanyu O, Sato A, Toyonaga T, Okita K, Ishibashi S, Kodama S, Akanuma Y, Yamada N. Leisure-time physical activity is a significant predictor of stroke and total mortality in Japanese patients with type 2 diabetes: analysis from the Japan Diabetes Complications Study (JDCS). <i>Diabetologia</i> , 2013; 56(5): 1021-1230.	Clinical Population
63	4	Sternfeld B, Weltzien E, Quesenberry CP, Castillo AL, Kwan M, Slattery ML, Caan BJ. Physical activity and risk of recurrence and mortality in breast cancer survivors: findings from the LACE study. <i>Cancer Epidemiol Biomarkers Prev</i> , 2009; 18(1): 87-95	Clinical Population
64	5	Zelle DM, Corpeleijn E, Stolk RP, de Greef MH, Gans RO, van der Heide JJ, Navis G, Bakker SJ. Low physical activity and risk of cardiovascular and all-cause mortality in renal transplant recipients. <i>Clin J Am Soc Nephrol</i> , 2011; 6(4): 898-905	Clinical Population
65	6	Friedenreich CM, Gregory J, Kopciuk KA, Mackey JR, Courneya KS. Prospective cohort study of lifetime physical activity and breast cancer survival. <i>Int J Cancer</i> , 2009; 124(8): 1954-1962	Clinical Population
66	7	Iijima K, Iimuro S, Shinozaki T, Ohashi Y, Sakurai T, Umegaki H, Araki A, Ouchi Y, Ito H. Lower physical activity is a strong predictor of cardiovascular events in elderly patients with type 2 diabetes mellitus beyond traditional risk factors: the Japanese Elderly Diabetes Intervention Trial. <i>Geriatr Gerontol Int</i> , 2012; 12(Suppl 1): 77-87	Clinical Population
67	8	Dorn JM, Hovey K, Trevisan M. Meeting 2008 physical activity guidelines for americans reduces risk of recurrent CVD events in MI survivors: The western new york acute MI study (1996-2006). <i>Circulation</i> , 2012; 125(10): 264.	Clinical population
68	9	Friedenreich C, Kopciuk K, Wang Q, McGregor S, Angyalfi S, Courneya K. Pre- and post-diagnosis physical activity and survival after prostate cancer. <i>J Sci Med Sport</i> , 2012; 15:S334-S335	Clinical population
69	10	Kokkinos, P, Faselis, C, Myers, J, Manolis, T, Pittaras, A, Kyritsi, F, Doulas, M, Papademetriou, V. Mortality risk and exercise capacity associations in hypertensives according to BMI levels. <i>J Hypertens</i> , 2010; 28:e229	Clinical population
70	11	Sone H, Tanaka S, Tanaka S, Suzuki S, Seino H, Sato A, Araki A, Ishibashi S, Ohashi Y, Akanuma Y, Yamada N. Leisure-time physical activity is a significant predictor for total mortality and stroke among Japanese patients with type 2 diabetes: The Japan Diabetes Complications Study. <i>Diabetologia</i> , 2012; 55:S139	Clinical population
71	1	Chen LJ, Fox KR, Ku PW, Sun WJ, Chou P. Prospective associations between household-, work-, and leisure-based physical activity and all-cause mortality among older Taiwanese adults. <i>Asia Pac J Public Health</i> , 2012; 24(5): 795-805	Non adult (18-65) population
72	2	Glass TA, Mendes De Leon C, Marottoli RA, Berkman LF. Population based study of social and productive activities as predictors of survival among elderly Americans. <i>BMJ</i> , 1999; 319(7208):478-483	Non adult (18-65) population
73	3	Tobiasz-Adamczyk B, Brzyski P, Florek M, Brzyska M. Job stress and mortality in older age. <i>Int J Occup Med Environ Health</i> , 2013; 26(3):	Non adult (18-65)

74	1	Hennekens CH, Rosner B, Jesse MJ, Drolette ME, Speizer FE. A retrospective study of physical activity and coronary deaths. <i>Int J Epidemiol</i> , 1977; 6(3):243-246	Retrospective study
75	1	Hu GC, Chien KL, Hsieh SF, Chen CY, Tsai WH, Su TC. Occupational versus leisure-time physical activity in reducing cardiovascular risks and mortality among ethnic Chinese adults in Taiwan. <i>Asia Pac J Public Health</i> , 2014; 26(6): 604-613	Duplicate
76	1	Punsar S, Karvonen MJ. Physical activity and coronary heart disease in populations from East and West Finland. <i>Advances in Cardiology</i> 1976, 18:196-207	Conference abstract could not be retrieved

OPA = Occupational physical activity

LTPA = Leisure-time physical activity

CVD = Cardiovascular disorders
