

**Table S1.** The information and odds ratios of the 46 papers (sorted in year of publication).

First author (published year)	Country of origin	Number of participants	Gender	Study design	Diagnosis method	Working class	Health measure	Reference working hours	Working hours	Occupational health condition	OR	95% CI
Sokejima (1998) <sup>a</sup> [1]	Japan	526	Male	Case-control study	HME	Yes	Acute myocardial infarction	≤7-9h/d	9-11h/d	PH	0.960	0.578-1.594
									>11h/d	PH	2.940	0.139-6.234
Nakanishi (2001) <sup>a</sup> [2]	Japan	1266	Male	Prospective cohort study (5 years)	HME	Yes	Type 2 diabetes	<8h/d	8-8.9h/d	PH	0.947	0.496-1.808
									9-9.9h/d	PH	0.447	0.177-1.132
									10-10.9h/d	PH	0.469	0.173-1.272
									≥11h/d	PH	0.375	0.126-1.116
Nakanishi (2001) <sup>a</sup> [3]	Japan	941	Male	Prospective cohort study (5 years)	HME	Yes	Hypertension	<8h/d	8-8.9h/d	PH	0.769	0.435-1.361
									9-9.9h/d	PH	1.001	0.550-1.823
									10-10.9h/d	PH	0.534	0.254-1.123
									≥11h/d	PH	0.223	0.077-0.647
Liu (2002) <sup>a</sup> [4]	Japan	705	Male	Case-control study	HME	Yes	Acute myocardial infarction	≤40 h/w	41-60h/w	PH	-	-
									>61h/w	PH	1.800	0.991-3.270
Akerstedt (2002) <sup>a</sup> [5]	Sweden	58115 (M:30524; F:27591)	Male and female	Prospective cohort study (20 years)	SR	Yes	Disturbed sleep Fatigue	≤50 h/w	>50 h/w	RH	1.050	0.911-1.211
									>50 h/w	RH	1.350	1.231-1.481
Tarumi (2003) [6]	Japan	867 (M:778; F:89)	Male and female	Prospective cohort study (3.6 years)	SR	Yes	Mental disorders	≤44h/w	45-49.9h/w	MH	1.333	0.442-4.013
									≥50h/w	MH	1.321	0.439-3.980
							Circulatory disorders		45-49.9h/w	PH	1.553	0.744-3.240
									≥50h/w	PH	1.220	0.560-2.655
Fukuoka (2005) <sup>a</sup> [7]	Japan	94 (M:92; F:2)	Male and female	Cross-sectional study	HME	Yes	Acute myocardial infarction	<55h/w	≥55h/w	PH	0.870	0.236-3.206
Uchiyama (2005) <sup>a</sup> [8]	Japan	1615 (M:908; F:707)	Male	Prospective cohort study (5.6 years)	HME	Yes	Cardiovascular heart disease	≤9h/d	≥10h/d	PH	1.204	0.561-2.582
									≥10h/d	PH	0.388	0.022-6.727
Grosch (2006) <sup>a</sup> [9]	The US				SR	Yes	Job stress	≤40h/w	41-48h/w	MH	1.160	0.840-1.601
									49-69h/w	MH	1.790	1.351-2.372

		1744 (M:849; F:895)	Male and female	Cross- sectional study					≥70h/w	MH	2.490	1.561-3.972
							Hurt		41-48h/w	RH	0.860	0.515-1.436
									49-69h/w	RH	1.240	0.810-1.899
							General Health		≥70h/w	RH	1.870	0.993-3.521
									41-48h/w	NH	0.900	0.570-1.421
									49-69h/w	NH	0.540	0.338-0.864
							Poor mental health		≥70h/w	NH	1.940	1.071-3.514
									41-48h/w	MH	1.050	0.671-1.643
									49-69h/w	MH	1.020	0.676-1.540
							Poor physical health		≥70h/w	MH	1.590	0.851-2.972
									41-48h/w	PH	0.820	0.429-1.567
									49-69h/w	PH	0.740	0.398-1.374
									≥70h/w	PH	5.020	2.488-10.130
Sekine (2006) <sup>a</sup> [10]	Japan	3556 (M:2397; F:1159)	Male  Female	Cross- sectional study	SR	Yes	Poor sleep quality	7-9h/d	9-11h/d	RH	1.110	0.839-1.468
									<11h/d	RH	1.490	1.031-2.153
									9-11h/d	RH	1.320	0.948-1.837
									<11h/d	RH	2.020	1.236-3.300
Yang (2006) <sup>a</sup> [11]	The US	24205 (M:13724; F:10481)	Male and female	Cross- sectional study	SR	Yes	Hypertension	11-39h/w	41-50h/w	PH	1.170	1.035-1.323
									≥51h/w	PH	1.290	1.097-1.516
Nagashima (2007) <sup>a</sup> [12]	Japan	715	Male	Cross- sectional study	SR	No	Fatigue	<50h/w	50- <50h/w	RH	0.900	0.570-1.421
									<55h/w- <60h/w	RH	0.810	0.450-1.459
									60- <65h/w	RH	1.070	0.586-1.955
									65- <70h/w	RH	1.890	0.983-3.632
							Physical disorder		≥70h/w	RH	2.320	1.208-4.454
									50- <50h/w	PH	1.410	0.821-2.422
									<55h/w- <60h/w	PH	1.090	0.541-2.195
									60- <65h/w	PH	0.770	0.321-1.846
									65- <70h/w	PH	1.850	0.832-4.112
									≥70h/w	PH	2.430	1.103-5.354



			Female				Unhealthy food habits			HB	1.030	0.774-1.370
							Physical inactivity			HB	1.050	0.836-1.319
							Heavy drink			HB	0.980	0.706-1.361
							Smoking			HB	1.030	0.834-1.271
			Male				Obesity			PH	1.080	0.854-1.366
	Japan	2213					Physical inactivity			HB	0.980	0.681-1.411
							Heavy drink			HB	0.830	0.584-1.179
							Smoking			HB	0.670	0.494-0.908
							Obesity			PH	0.860	0.611-1.211
			Female				Physical inactivity			HB	0.950	0.490-1.841
							Heavy drink			HB	0.770	0.227-2.609
							Smoking			HB	1.470	0.341-6.343
							Obesity			PH	0.640	0.350-1.170

Artazcoz (2009) <sup>a</sup> [14]	Spain	7085 (M: 3950; F:3135)	Male	Cross-sectional study	SR	Yes	Poor self-perceived health status	30-40h/w	41-50h/w	NH	0.960	0.747-1.234
									51-60h/w	NH	1.430	0.977-2.093
							Poor mental health status		41-50h/w	MH	1.240	0.905-1.700
									51-60h/w	MH	2.060	1.310-3.240
							Hypertension		41-50h/w	PH	1.190	0.947-1.495
									51-60h/w	PH	1.600	1.119-2.288
							Smoking		41-50h/w	HB	1.110	0.953-1.293
									51-60h/w	HB	1.330	1.029-1.719
							Physical inactivity		41-50h/w	HB	1.730	1.314-2.277
									51-60h/w	HB	2.430	1.640-3.600
							Insufficient sleep		41-50h/w	RH	1.300	1.111-1.521
									51-60h/w	RH	1.420	1.090-1.850
			Female				Poor self-perceived health status		41-50h/w	NH	1.020	0.749-1.389
									51-60h/w	NH	1.380	0.743-2.562
							Poor mental health status		41-50h/w	MH	0.990	0.728-1.346
									51-60h/w	MH	1.430	0.771-2.653
							Hypertension		41-50h/w	PH	0.660	0.426-1.021
									51-60h/w	PH	1.060	0.458-2.451

							Smoking		41-50h/w	HB	0.840	0.663-1.065
									51-60h/w	HB	2.270	1.391-3.704
							Physical inactivity		41-50h/w	HB	1.380	0.961-1.982
									51-60h/w	HB	1.530	0.690-3.391
							Insufficient sleep		41-50h/w	RH	1.000	0.781-1.281
									51-60h/w	RH	2.210	1.343-3.637
Pimenta (2009)* [15]	Spain	8779 (M:3528; F:5251)	Male	Prospective cohort study (4.2 years)	SR	Yes	Hypertension	≤39h/w	40-49h/w	PH	1.030	0.746-1.422
			Female						50-60h/w	PH	1.030	0.754-1.407
									≥60h/w	PH	0.980	0.633-1.517
									40-50h/w	PH	1.220	0.760-1.959
									≥50h/w	PH	1.080	0.590-1.978
Virtanen (2009) [16]	London, the UK	2470 (M:1872; F:598)	Male and female	Prospective cohort study (3 years)	SR	Yes	Insufficient sleep (<7h/d)	35-40h/w	41-55h/w	RH	1.550	1.031-2.331
									>55h/w	RH	2.800	1.200-6.532
Driesen (2010)* [17]	Italy	7217	Male	Cross-sectional study	SR	No	Depressive symptoms	<45h/w	45-50h/w	MH	1.250	0.845-1.850
			Female						51-60h/w	MH	1.420	0.779-2.588
									>60/w	MH	2.360	0.752-7.408
									>45h/w	MH	1.180	0.440-3.162
Holtermann (2010)* [18]	Copenhagen, Denmark	4964	Male	Prospective cohort study (30 years)	HME	No	Ischaemic heart disease	≤40h/w	45-49.5h/w	PH	1.610	1.197-2.164
									≥50h/w	PH	1.257	0.886-1.783
							All-cause mortality	≤40h/w	45-49.5h/w	PH	1.055	0.890-1.250
									≥50h/w	PH	0.789	0.644-0.966
Nash (2010)* [19]	Australia	2953 (M:2085; F:868)	Male and female	Cross-sectional study	SR	Yes	Psychiatric morbidity	<40h/w	40-49h/w	MH	1.230	0.932-1.623
									50-59h/w	MH	1.410	1.051-1.892
									≥60h/w	MH	1.650	1.202-2.264
							Hazardous alcohol use	<40h/w	40-49h/w	HB	1.130	0.809-1.578
									50-59h/w	HB	1.150	0.818-1.616
									≥60h/w	HB	0.670	0.452-0.994
Netterstrøm (2010)* [20]	Copenhagen, Denmark	1146 (M:551; F:595)	Male	Prospective cohort study (14 years)	HME	Yes	Ischaemic heart disease	<50h/w	>50h/w	PH	0.700	0.191-2.572
			Female						<50h/w	PH	0.800	0.091-7.065
Virtanen (2010) [21]	The UK	6014 (M:4262; F:1752)	Male and female	Prospective cohort study (11 years)	SR	Yes	Coronary heart disease	7-8 h/d	9h/d	PH	0.951	0.716-1.262
									10h/d	PH	1.167	0.865-1.576
									11-12h/d	PH	1.462	1.060-2.018

Kivimäki (2011) [22]	London, the UK	7095 (M:4986; F:2109)	Male and female	Prospective cohort study (12.3 years)	HME	No	Coronary heart disease	<11h/d	≥11h/d	PH	1.670	1.097-2.543
Nakashima (2011) <sup>a</sup> [23]	Japan	1510	Male	Cross-sectional study	SR	Yes	Poor sleep quality	<46.5h/w	≥46.5- <50h/w	RH	0.900	0.600-1.350
									≥50- <52.5h/w	RH	1.220	0.826-1.802
									≥52.5- <57.75h/w	RH	1.380	0.937-2.033
									≥57.75h/w	RH	1.380	0.929-2.049
								Short sleep duration	≥46.5- <50h/w	RH	1.430	1.024-1.997
									≥50- <52.5h/w	RH	1.510	1.080-2.111
									≥52.5- <57.75h/w	RH	1.750	1.250-2.450
	≥57.75h/w	RH	3.680	2.587-5.234								
Virtanen (2011) <sup>a</sup> [24]	The UK	2960 (M:2248; F:712)	Male	Prospective cohort study (5 years)	SR	Yes	Depression	≤40h/w	41-55h/w	MH	0.844	0.618-1.152
									>55h/w	MH	1.035	0.624-1.719
									41-55h/w	MH	0.947	0.704-1.275
							>55h/w	MH	1.228	0.769-1.962		
							Female	Depression	41-55h/w	MH	1.855	1.117-3.082
								>55h/w	MH	1.874	0.770-4.559	
			Anxiety					41-55h/w	MH	1.316	0.819-2.113	
	>55h/w	MH	2.093	0.967-4.533								
Kobayashi (2012) <sup>a</sup> [25]	Japan	911	Male	Cross-sectional study	HME	Yes	Metabolic syndrome	≤7 to 8 h/d	>8-9h/d	PH	1.660	0.913-3.019
									>9-10h/d	PH	1.480	0.753-2.910
									>10h/d	PH	2.320	1.042-5.168
Schluter (2012) <sup>a</sup> [26]	Australia and New Zealand	4419 (M:3552; F:867)	Male and female	Cross-sectional study	SR	Yes	Alcohol use	<40h/w	40-49h/w	HB	1.260	1.006-1.579
									≥50h/w	HB	1.460	1.020-2.090
Virtanen (2012) <sup>a</sup> [27]	London, the UK	2123 (M:1626; F:497)	Male and female	Prospective Cohort Study (5 years)	SR	Yes	Depressive symptoms	7-8h/d	9h/d	MH	0.620	0.279-1.376
									10h/d	MH	1.180	0.557-2.498
									11-12/d	MH	2.300	1.048-5.049
Wirtz (2012) <sup>a</sup> [28]	The US	96915 (M: 48816; F:48099)	Male and Female	Cross-sectional study	HME	Yes	Injury	31-40h/w	41/50h/w	RH	1.210	0.923-1.586
									>50h/w	RH	1.120	0.799-1.569
									41/50h/w	RH	1.510	1.031-2.212

									>50h/w	RH	1.690	1.059-2.697
Jang (2013) <sup>a</sup> [29]	Korea	8889 (M:5241; F:3648)	Male	Cross-sectional study	HME	Yes	Obesity	40-48h/w	49-60h/w	PH	1.115	0.856-1.452
									>60h/w	PH	1.647	1.262-2.150
			Female						49-60h/w	PH	0.878	0.650-1.186
									>60h/w	PH	1.059	0.699-1.604
									49-60h/w	PH	0.961	0.687-1.345
									>60h/w	PH	0.863	0.624-1.194
									49-60h/w	PH	1.340	0.781-2.299
									>60h/w	PH	0.916	0.363-2.310
Jeong (2013) <sup>a</sup> [30]	Korea	1117 (M:926; F:121)	Male and female	Case-control study	HME	Yes	Cardiovascular heart disease	40-48h/w	48.1-52h/w	PH	1.730	1.031-2.903
									>52h/w	PH	3.460	2.380-5.030
Lee (2013) <sup>a</sup> [31]	Korea	561 (M:417; F:144)	Male and female	Cross-sectional study	SR	No	Low mood	35-47h/w	48-52h/w	MH	0.820	0.530-1.260
									53-60h/w		1.260	0.780-2.050
							Depression		≥60h/w		1.030	0.410-2.580
									48-52h/w	MH	1.36	0.820-2.260
									53-60h/w		2.94	1.540-5.590
									≥60h/w		4.35	2.180-8.67
Ohtsu (2013) <sup>a</sup> [32]	Japan	662 (M:372; F:290)	Male	Cross-sectional study	SR	No	Short sleep (<6h/d)	7-<9h/d	≥9-<11h/d	RH	2.760	1.569-4.856
			Female						≥11h/d	RH	8.620	3.940-18.859
									≥9-<11h/d	RH	2.510	1.169-5.387
O' Reilly (2013) <sup>a</sup> [33]	North Ireland, the UK	414949 (M:270011; F:144938)	Male	Prospective Cohort Study (8.7 years)	HME	Yes	All-cause mortality	35-40h/w	41-48h/w	PH	0.960	0.879-1.049
									49-54h/w	PH	1.020	0.920-1.130
			Female						≥55h/w	PH	0.970	0.880-1.070
									41-48h/w	PH	0.980	0.797-1.205
									49-54h/w	PH	1.170	0.871-1.572
									≥55h/w	PH	0.860	0.631-1.172
Cheng (2014) <sup>a</sup> [34]	Taiwan, China	966	Male	Case-control study	HME	No	Acute myocardial infarction	40-48h/w	>48-60h/w	PH	1.600	1.012-2.530
									>60h/w	PH	2.400	1.470-3.919
									>48-60h/w	PH	1.600	1.209-2.117
									>60h/w	PH	2.300	1.703-3.106
Tayama (2014) <sup>a</sup> [35]	China and Japan	2228 (M:1426; F:802)	Male	Cross-sectional study	HME	Yes	Diabetes	<45 h/w	45-54h/w	PH	1.130	0.736-1.735
			Female						≥55h/w	PH	2.200	1.391-3.479
									45-54h/w	PH	-	-
									≥55h/w	PH	-	-

Bannai (2015) <sup>a</sup> [36]	Japan	515 (M:335; F:180)	Male	Cross-sectional study	SR	Yes	Sleep problem	≤40h/w	>40-≤50h/w	RH	1.140	0.470-2.768
			Female						>50-≤60h/w	RH	1.200	0.547-2.634
									>60h/w	RH	2.050	0.994-4.230
									>40-≤50h/w	RH	0.640	0.169-2.430
									>50-≤60h/w	RH	0.650	0.187-2.262
			>60h/w						RH	1.260	0.365-4.345	
Cho (2015) <sup>a</sup> [37]	Korea	1578 (M:1072; F:506)	Male	Prospective cohort study (7 years)	SR	Yes	Poor self-rated health	36-40h/w	41-52h/w	NH	0.890	0.745-1.063
			Female						52-68h/w	NH	0.930	0.754-1.147
									≥69h/w	NH	1.020	0.787-1.322
									41-52h/w	NH	1.000	0.767-1.304
									52-68h/w	NH	1.170	0.853-1.605
			≥69h/w						NH	1.630	1.050-2.530	
Hino (2015) [38]	Japan	1198 (M:457; F:741)	Male and female	Cross-sectional study	SR	Yes	Psychological distress	≤55h/w	>45-79h/w	MH	1.260	0.800-1.980
			>80h/w						MH	1.380	0.730-2.600	
Kim (2015) <sup>a</sup> [39]	Korea	34783 (M: 20543; F: 14240)	Male	Cross-sectional study	SR	Yes	Sleep disturbance	≥40- <48h/w	≥49-≤60h/w	RH	2.389	1.807-3.158
			Female						>60h/w	RH	3.017	1.956-4.653
									≥49-≤60h/w	RH	1.041	0.766-1.415
									>60h/w	RH	1.418	1.003-2.005
									≥49-≤60h/w	RH	1.525	1.034-2.249
									>60h/w	RH	0.994	0.398-2.484
									≥49-≤60h/w	RH	0.826	0.540-1.263
									>60h/w	RH	1.241	0.721-2.136
			Kim (2016) <sup>a</sup> [40]						South Korea	6805 (M:4319; F:2486)	Male and female	Cross-sectional study
53-68h/w	MH	1.000		0.743-1.346								
>68h/w	MH	1.570		1.052-2.344								
Yoon (2016) <sup>a</sup> [41]	Korea	42234	Female	Cross-sectional study	HME	Yes	Obesity	<40h/w	50-54h/w	PH	1.080	0.859-1.358
			55-59h/w						PH	1.020	0.724-1.437	
			≥60h/w						PH	1.280	1.042-1.573	

			Female						50-54h/w	PH	0.990	0.869-1.128
									55-59h/w	PH	1.110	0.966-1.275
									≥60h/w	PH	1.080	0.859-1.358
Lee (2017) <sup>a</sup> [42]	South Korea	1030	Male	Cross-sectional study	SR	Yes	Psychological stress	40-44 h/w	45-49h/w	MH	0.940	0.520-1.700
									50-54h/w	MH	0.990	0.533-1.840
									55-59h/w	MH	1.330	0.666-2.655
									≥60 h/w	MH	3.000	1.381-6.516
Ma (2017) <sup>a</sup> [43]	China	595 (M:406; F:189)	Male and female	Case-control study	SR	No	Cardiovascular heart disease	Not given	35-40h/w	PH	0.977	0.544-1.754
									41-48h/w	PH	1.439	0.759-2.729
									49-54h/w	PH	1.383	0.669-2.858
									≥55h/w	PH	2.213	1.125-4.354
Nakata (2017) [44]	Japan	2375 (M:1739; F:636)	Male and female	Cross-sectional study	SR	Yes	Depressive symptoms	6-8h/d	>8-10h/d	MH	1.120	0.893-1.405
									>10h/d	MH	1.490	1.069-2.077
Cho (2018) <sup>a</sup> [45]	Korea	32867 (M:20200; F:12667)	Male and female	Cross-sectional study	SR	Yes	Poor self-rated health	≤52h/w	>52h/w	NH	1.300	1.220-1.400
Ogawa (2018) <sup>a</sup> [46]	Japan	973 (M:812; F:161)	Male and female	Cross-sectional study	SR	Yes	Depressive symptoms	<60h/w	60- <80h/w	MH	1.900	0.911-3.962
									80- 100h/w	MH	2.830	1.361-5.884
									≥100h/w	MH	6.960	3.048-15.891

Note. <sup>a</sup>: The study was included in the moderator analysis for gender

OR = odds ratio; PH = physiological health; MH = mental health; HB = health behaviours; RH = related health; NH = non-specified health; M = male; F = female; CI = confidence interval; N/A = not applicable; h = hours; w = week; d = day; SR = self-report; HME = health or medical examination

## References

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