

Supplemental Online Content

Gao W, Sanna M, Chen YH, Tsai MK, Wen CP. Occupational sitting time, leisure physical activity, and all-cause and cardiovascular disease mortality. *JAMA Network Open*. 2024;7(1):e2350680. doi:10.1001/jamanetworkopen.2023.50680

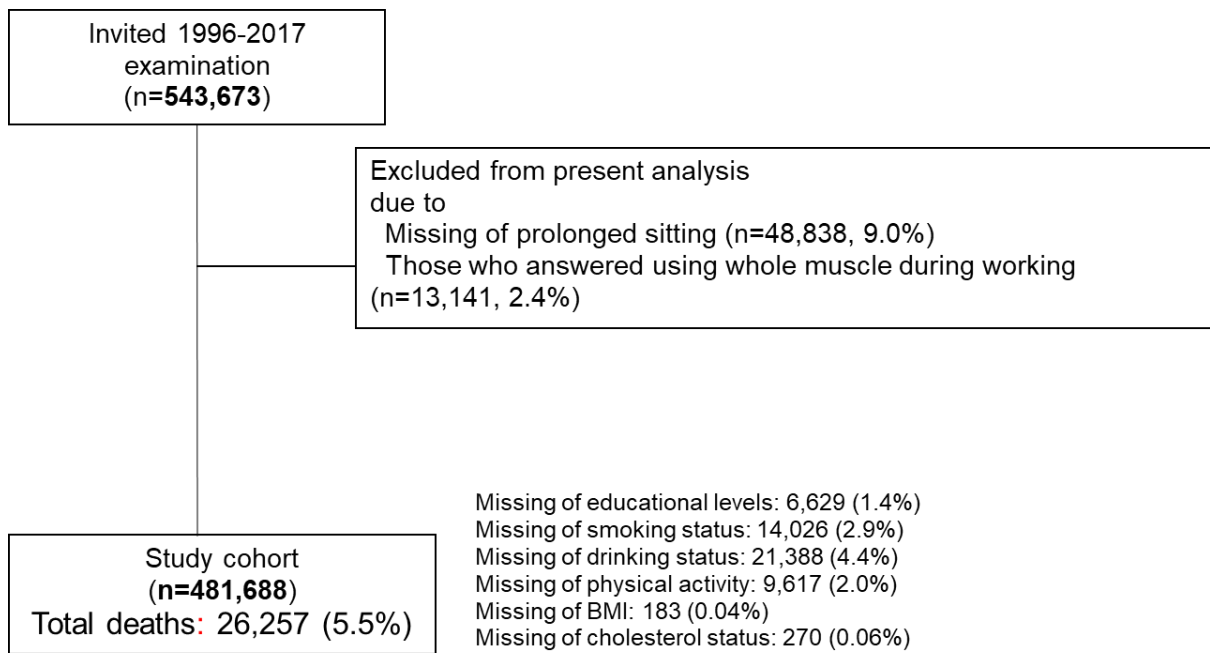
eFigure 1. Data Flow Diagram Including Excluded and Missing Data

eFigure 2. Percentage of Participants Physically Active and Percentage of Participants Mostly Sitting at Work in the MJ Cohort Between 1996 and 2017

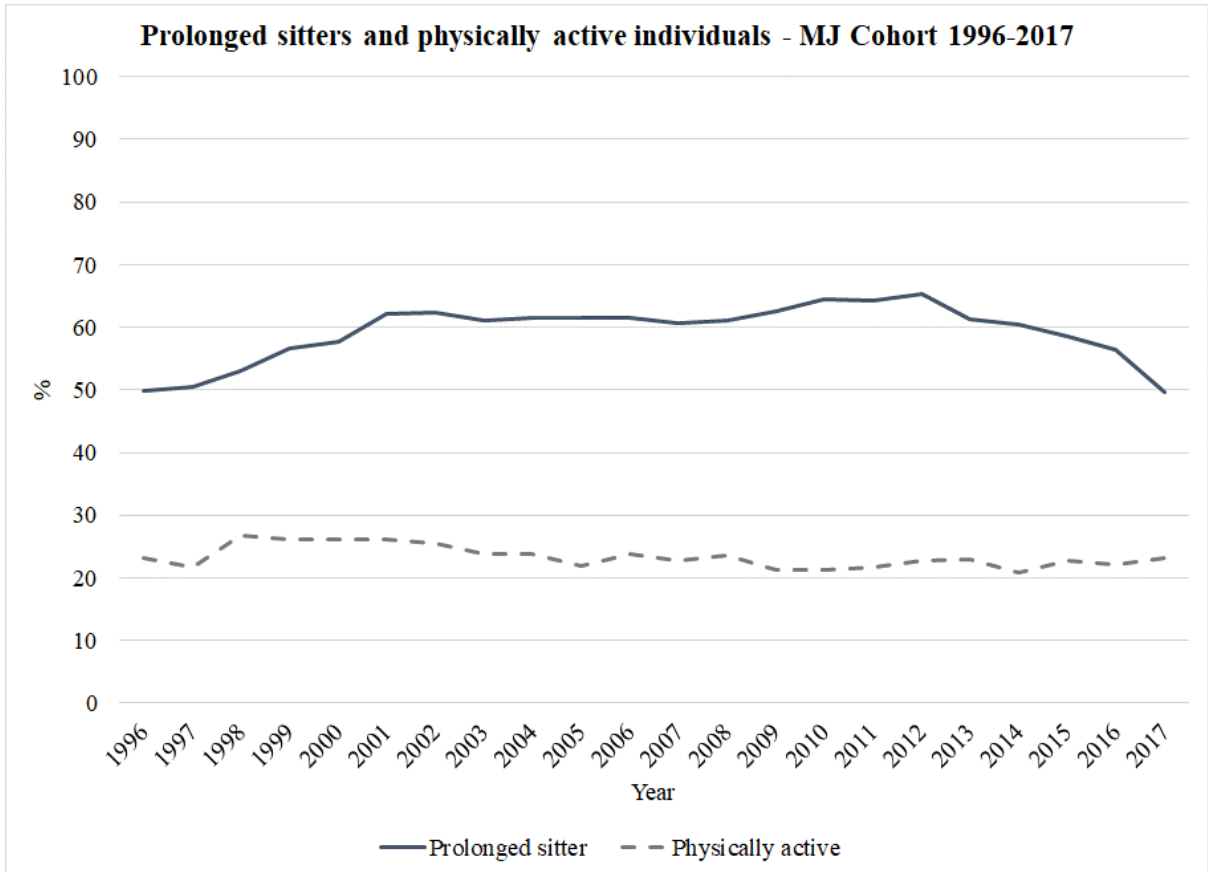
eTable 1. Occupational Sitting Status Distribution at First and at Second Visit, MJ Cohort 1996-2017

eTable 2. Adjusted Hazard Ratios (HRs) for Expanded CVD Mortality by Occupational Sitting Status Across Subgroups

This supplemental material has been provided by the authors to give readers additional information about their work.



eFigure 1 Data Flow Diagram Including Excluded and Missing Data



eFigure 2 Percentage of Participants Physically Active and Percentage of Participants Mostly Sitting at Work in the MJ Cohort Between 1996 and 2017

eTable 1 Occupational Sitting Status Distribution at First and at Second Visit, MJ Cohort 1996-2017

First visit Second visit	Mostly sitting [N, (%)]	Alternating sitting and non-sitting [N, (%)]	Mostly non- sitting [N, (%)]	Total [N, (%)]
Mostly sitting [N, (%)]	106,994 (53.9%)	18,439 (9.3%)	2,778 (1.4%)	128,211 (64.5%)
Alternating sitting and non-sitting [N, (%)]	14,708 (7.4%)	32,515 (16.4%)	6,101 (3.1%)	53,324 (26.8%)
Mostly non-sitting [N, (%)]	2,228 (1.1%)	5,632 (2.8%)	9,270 (4.7%)	17,130 (8.6%)
Total [N, (%)]	123,930 (62.4%)	56,586 (28.5%)	18,149 (9.1%)	198,665 (100%)

The Spearman's rank correlation coefficient between occupational sitting status at the first visit and occupational sitting status at the second visit was equal to 0.61 ($p < 0.001$).

eTable 2 Adjusted Hazard Ratios (HRs) for Expanded CVD Mortality by Occupational Sitting

Status Across Subgroups

	Population	Expanded CVD		
		Deaths	HR*	[95% CI]
All participants	Mostly sitting	4,646	1.46	[1.35, 1.58]
	Alternating sitting and non-sitting	1,928	1.13	[1.04, 1.23]
	Mostly non-sitting	962		Ref.
Men	Mostly sitting	2,426	1.42	[1.29, 1.55]
	Alternating sitting and non-sitting	946	1.14	[1.03, 1.26]
	Mostly non-sitting	726		Ref.
Women	Mostly sitting	2,220	1.42	[1.22, 1.66]
	Alternating sitting and non-sitting	982	1.06	[0.91, 1.25]
	Mostly non-sitting	236		Ref.
Age<60	Mostly sitting	1,288	1.44	[1.26, 1.63]
	Alternating sitting and non-sitting	787	1.19	[1.04, 1.35]
	Mostly non-sitting	409		Ref.
Age≥60	Mostly sitting	3,358	1.47	[1.33, 1.63]
	Alternating sitting and non-sitting	1,141	1.09	[0.98, 1.22]
	Mostly non-sitting	553		Ref.
Smokers	Mostly sitting	1,675	1.43	[1.28, 1.59]
	Alternating sitting and non-sitting	653	1.09	[0.97, 1.23]
	Mostly non-sitting	503		Ref.
Never-smokers	Mostly sitting	2,722	1.47	[1.31, 1.65]
	Alternating sitting and non-sitting	1,165	1.15	[1.02, 1.30]
	Mostly non-sitting	391		Ref.
BMI≥25	Mostly sitting	2,061	1.50	[1.32, 1.71]
	Alternating sitting and non-sitting	867	1.17	[1.02, 1.34]
	Mostly non-sitting	363		Ref.
BMI≥30	Mostly sitting	376	1.47	[1.07, 2.00]
	Alternating sitting and non-sitting	147	1.08	[0.77, 1.51]
	Mostly non-sitting	57		Ref.
Non-hypertensives	Mostly sitting	1,393	1.42	[1.25, 1.61]
	Alternating sitting and non-sitting	653	1.08	[0.94, 1.24]
	Mostly non-sitting	395		Ref.
Hypertensives	Mostly sitting	3,253	1.42	[1.28, 1.57]

	Alternating sitting and non-sitting	1,275	1.08	[0.97, 1.20]
	Mostly non-sitting	567		Ref.
Non-diabetics	Mostly sitting	2,653	1.32	[1.21, 1.45]
	Alternating sitting and non-sitting	1,389	1.11	[1.00, 1.22]
	Mostly non-sitting	729		Ref.
Diabetics	Mostly sitting	1,693	1.47	[1.27, 1.71]
	Alternating sitting and non-sitting	539	1.04	[0.88, 1.23]
	Mostly non-sitting	233		Ref.

*All HRs are adjusted for gender, age, education, smoking, drinking, and body mass index (BMI).