

SUPPLEMENTAL MATERIAL

Table S1. Dose-response association between frequency of moderate to vigorous physical activity (MVPA) and lower respiratory tract infection outcomes (mortality and hospitalization)

Frequency of MVPA (times/week)	Age- and sex-adjusted		Multivariate-adjusted*		Multivariate-adjusted†	
	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value
Mortality						
0	1 (reference)	-	1 (reference)	-	1 (reference)	-
1-2	0.71 (0.65-0.76)	<0.001	0.73 (0.68-0.79)	<0.001	0.74 (0.69-0.81)	<0.001
3-4	0.58 (0.53-0.64)	<0.001	0.60 (0.55-0.66)	<0.001	0.62 (0.56-0.68)	<0.001
≥5	0.57 (0.53-0.61)	<0.001	0.59 (0.55-0.63)	<0.001	0.61 (0.56-0.65)	<0.001
Hospitalization						
0	1 (reference)	-	1 (reference)	-	1 (reference)	-
1-2	0.82 (0.81-0.84)	<0.001	0.85 (0.83-0.87)	<0.001	0.86 (0.84-0.87)	<0.001
3-4	0.73 (0.71-0.75)	<0.001	0.76 (0.74-0.77)	<0.001	0.77 (0.75-0.78)	<0.001
≥5	0.74 (0.73-0.75)	<0.001	0.76 (0.75-0.78)	<0.001	0.77 (0.76-0.79)	<0.001

Abbreviations: CI, confidence interval; HR, hazard ratio; MET, metabolic equivalents of task.

*HRs were calculated by Cox models, after adjusting for age at baseline, sex, smoking status, alcohol consumption frequency, and household income.

†HRs were calculated by Cox models, after adjusting for age at baseline, sex, smoking status, alcohol consumption frequency, household income, blood pressure status, fasting glucose status, body mass index, known chronic obstructive lung disease, and previous history of admission due to lower respiratory tract infection.

Table S2. Association between physical activity and mortality from lower respiratory tract infection by subgroup

Subgroups	Amount of physical activity (MET min/week)	No. of events	Event rate, n/100,000 person-year	Age- and sex-adjusted		Multivariate-adjusted*		Multivariate-adjusted†	
				HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value
Age strata, yrs									
18-64	0	195	16	1 (reference)	-	1 (reference)	-	1 (reference)	-
	<500	155	11	0.75 (0.61-0.93)	0.009	0.83 (0.67-1.03)	0.089	0.85 (0.69-1.06)	0.145
	500-999	152	12	0.70 (0.57-0.87)	0.001	0.79 (0.64-0.98)	0.029	0.80 (0.65-0.99)	0.040
	1,000-1,499	61	11	0.62 (0.46-0.82)	0.001	0.71 (0.53-0.95)	0.023	0.75 (0.56-1.00)	0.048
	≥1,500	48	15	0.73 (0.53-1.00)	0.052	0.82 (0.60-1.13)	0.230	0.84 (0.61-1.15)	0.274
65-74	0	1193	143	1 (reference)	-	1 (reference)	-	1 (reference)	-
	<500	709	102	0.71 (0.65-0.78)	<0.001	0.74 (0.67-0.81)	<0.001	0.74 (0.68-0.82)	<0.001
	500-999	686	97	0.63 (0.57-0.69)	<0.001	0.65 (0.59-0.71)	<0.001	0.65 (0.60-0.72)	<0.001
	1,000-1,499	218	81	0.50 (0.43-0.58)	<0.001	0.53 (0.46-0.62)	<0.001	0.54 (0.47-0.62)	<0.001
	≥1,500	163	83	0.47 (0.40-0.56)	<0.001	0.50 (0.42-0.59)	<0.001	0.51 (0.43-0.60)	<0.001
75-99	0	2363	606	1 (reference)	-	1 (reference)	-	1 (reference)	-
	<500	1104	429	0.70 (0.65-0.75)	<0.001	0.71 (0.66-0.76)	<0.001	0.72 (0.67-0.78)	<0.001
	500-999	869	407	0.62 (0.57-0.67)	<0.001	0.63 (0.58-0.68)	<0.001	0.65 (0.60-0.70)	<0.001
	1,000-1,499	168	287	0.43 (0.36-0.50)	<0.001	0.44 (0.37-0.51)	<0.001	0.46 (0.39-0.54)	<0.001
	≥1,500	153	365	0.50 (0.42-0.59)	<0.001	0.51 (0.44-0.61)	<0.001	0.53 (0.45-0.63)	<0.001
Sex									
Men	0	1979	193	1 (reference)	-	1 (reference)	-	1 (reference)	-
	<500	1213	110	0.74 (0.69-0.80)	<0.001	0.77 (0.72-0.83)	<0.001	0.78 (0.73-0.84)	<0.001

	500–999	1215	103	0.65 (0.61-0.70)	<0.001	0.68 (0.63-0.73)	<0.001	0.69 (0.64-0.75)	<0.001	
	1,000–1,499	345	67	0.49 (0.44-0.55)	<0.001	0.52 (0.46-0.58)	<0.001	0.54 (0.48-0.61)	<0.001	
	≥1,500	302	86	0.52 (0.46-0.58)	<0.001	0.55 (0.48-0.62)	<0.001	0.56 (0.50-0.63)	<0.001	
Women	0	1772	125	1 (reference)	-	1 (reference)	-	1 (reference)	-	
	<500	755	63	0.66 (0.61-0.72)	<0.001	0.67 (0.61-0.73)	<0.001	0.68 (0.63-0.74)	<0.001	
	500–999	492	48	0.60 (0.54-0.66)	<0.001	0.60 (0.54-0.66)	<0.001	0.61 (0.55-0.67)	<0.001	
	1,000–1,499	102	28	0.46 (0.38-0.57)	<0.001	0.47 (0.38-0.57)	<0.001	0.48 (0.39-0.59)	<0.001	
	≥1,500	62	30	0.50 (0.38-0.64)	<0.001	0.50 (0.39-0.65)	<0.001	0.51 (0.40-0.66)	<0.001	
CVD subtype										
IHD	0	996	113	1 (reference)	-	1 (reference)	-	1 (reference)	-	
		<500	615	68	0.76 (0.69-0.85)	<0.001	0.79 (0.71-0.87)	<0.001	0.80 (0.72-0.89)	<0.001
		500–999	557	65	0.69 (0.62-0.77)	<0.001	0.71 (0.64-0.79)	<0.001	0.72 (0.65-0.80)	<0.001
		1,000–1,499	159	45	0.55 (0.46-0.65)	<0.001	0.57 (0.48-0.67)	<0.001	0.59 (0.50-0.70)	<0.001
		≥1,500	127	58	0.58 (0.48-0.69)	<0.001	0.60 (0.50-0.72)	<0.001	0.61 (0.51-0.74)	<0.001
HF	0	1216	143	1 (reference)	-	1 (reference)	-	1 (reference)	-	
		<500	577	73	0.66 (0.60-0.73)	<0.001	0.67 (0.61-0.74)	<0.001	0.68 (0.62-0.75)	<0.001
		500–999	513	70	0.65 (0.58-0.72)	<0.001	0.66 (0.60-0.74)	<0.001	0.68 (0.61-0.75)	<0.001
		1,000–1,499	120	41	0.46 (0.38-0.55)	<0.001	0.47 (0.39-0.57)	<0.001	0.49 (0.41-0.60)	<0.001
		≥1,500	106	59	0.53 (0.43-0.65)	<0.001	0.55 (0.45-0.67)	<0.001	0.57 (0.47-0.70)	<0.001
Stroke	0	1765	257	1 (reference)	-	1 (reference)	-	1 (reference)	-	
		<500	839	146	0.68 (0.62-0.73)	<0.001	0.70 (0.64-0.76)	<0.001	0.72 (0.66-0.78)	<0.001
		500–999	700	123	0.56 (0.51-0.61)	<0.001	0.58 (0.53-0.63)	<0.001	0.60 (0.55-0.65)	<0.001
		1,000–1,499	170	79	0.42 (0.36-0.49)	<0.001	0.44 (0.37-0.51)	<0.001	0.46 (0.39-0.54)	<0.001

≥1,500	146	97	0.45 (0.38-0.53)	<0.001	0.47 (0.39-0.56)	<0.001	0.48 (0.41-0.57)	<0.001
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Abbreviations: CI, confidence interval; CVD, cardiovascular disease; HF, heart failure; HR, hazard ratio; IHD, ischemic heart disease; MET, metabolic equivalents of task; n/a, not applicable.

*HRs were calculated by Cox models, after adjusting for age at baseline, sex, smoking status, alcohol consumption frequency, and household income.

†HRs were calculated by Cox models, after adjusting for age at baseline, sex, smoking status, alcohol consumption frequency, household income, blood pressure status, fasting glucose status, known chronic obstructive lung disease, and previous history of admission due to lower respiratory tract infection.

Table S3. Association between physical activity and hospitalization from lower respiratory tract infection by subgroup

Subgroups	Amount of physical activity (MET min/week)	No. of events	Event rate, n/10,000 person-year	Age- and sex-adjusted		Multivariate-adjusted*		Multivariate-adjusted†	
				HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value
Age strata, yrs									
18-64	0	10,531	80	1 (reference)	-	1 (reference)	-	1 (reference)	-
	<500	9,129	62	0.81 (0.79-0.83)	<0.001	0.84 (0.82-0.87)	<0.001	0.85 (0.83-0.87)	<0.001
	500-999	8,321	60	0.77 (0.75-0.79)	<0.001	0.81 (0.79-0.83)	<0.001	0.82 (0.79-0.84)	<0.001
	1,000-1,499	3,416	57	0.72 (0.70-0.75)	<0.001	0.77 (0.74-0.80)	<0.001	0.78 (0.75-0.81)	<0.001
	≥1,500	2,095	61	0.75 (0.72-0.79)	<0.001	0.79 (0.76-0.83)	<0.001	0.80 (0.76-0.83)	<0.001
65-74	0	17,133	199	1 (reference)	-	1 (reference)	-	1 (reference)	-
	<500	11,774	163	0.82 (0.80-0.84)	<0.001	0.84 (0.82-0.86)	<0.001	0.84 (0.82-0.86)	<0.001
	500-999	11,309	152	0.75 (0.73-0.77)	<0.001	0.77 (0.75-0.79)	<0.001	0.77 (0.75-0.79)	<0.001
	1,000-1,499	3,927	138	0.67 (0.65-0.69)	<0.001	0.70 (0.67-0.72)	<0.001	0.71 (0.68-0.73)	<0.001
	≥1,500	2,924	141	0.66 (0.64-0.69)	<0.001	0.69 (0.66-0.72)	<0.001	0.70 (0.67-0.73)	<0.001
75-99	0	16,484	435	1 (reference)	-	1 (reference)	-	1 (reference)	-
	<500	9,089	358	0.81 (0.79-0.84)	<0.001	0.82 (0.80-0.84)	<0.001	0.83 (0.81-0.86)	<0.001
	500-999	7,030	329	0.72 (0.70-0.74)	<0.001	0.73 (0.71-0.75)	<0.001	0.74 (0.72-0.76)	<0.001
	1,000-1,499	1,810	308	0.66 (0.63-0.69)	<0.001	0.67 (0.64-0.70)	<0.001	0.69 (0.66-0.72)	<0.001
	≥1,500	1,309	312	0.64 (0.60-0.67)	<0.001	0.65 (0.61-0.69)	<0.001	0.66 (0.63-0.70)	<0.001
Sex									
Men	0	19,248	179	1 (reference)	-	1 (reference)	-	1 (reference)	-
	<500	13,858	118	0.78 (0.76-0.80)	<0.001	0.81 (0.79-0.83)	<0.001	0.83 (0.81-0.84)	<0.001

	500–999	14,806	118	0.72 (0.71-0.74)	<0.001	0.76 (0.74-0.78)	<0.001	0.77 (0.76-0.79)	<0.001
	1,000–1,499	5,414	98	0.64 (0.62-0.66)	<0.001	0.68 (0.66-0.70)	<0.001	0.70 (0.68-0.71)	<0.001
	≥1,500	4,195	112	0.63 (0.61-0.65)	<0.001	0.67 (0.65-0.69)	<0.001	0.68 (0.66-0.71)	<0.001
Women	0	24,900	168	1 (reference)	-	1 (reference)	-	1 (reference)	-
	<500	16,134	126	0.84 (0.82-0.85)	<0.001	0.84 (0.83-0.86)	<0.001	0.85 (0.83-0.86)	<0.001
	500–999	11,854	109	0.75 (0.73-0.76)	<0.001	0.75 (0.73-0.77)	<0.001	0.76 (0.74-0.77)	<0.001
	1,000–1,499	3,739	95	0.71 (0.69-0.74)	<0.001	0.72 (0.69-0.74)	<0.001	0.73 (0.70-0.75)	<0.001
	≥1,500	2,133	97	0.71 (0.68-0.74)	<0.001	0.72 (0.68-0.75)	<0.001	0.72 (0.69-0.76)	<0.001
CVD subtype									
IHD	0	14,844	161	1 (reference)	-	1 (reference)	-	1 (reference)	-
	<500	11,099	116	0.82 (0.80-0.84)	<0.001	0.84 (0.82-0.86)	<0.001	0.85 (0.83-0.87)	<0.001
	500–999	10,259	113	0.77 (0.75-0.79)	<0.001	0.80 (0.78-0.82)	<0.001	0.80 (0.78-0.82)	<0.001
	1,000–1,499	3,727	98	0.71 (0.68-0.73)	<0.001	0.74 (0.71-0.77)	<0.001	0.75 (0.72-0.78)	<0.001
	≥1,500	2,542	109	0.72 (0.69-0.75)	<0.001	0.74 (0.71-0.78)	<0.001	0.75 (0.72-0.78)	<0.001
HF	0	13,953	157	1 (reference)	-	1 (reference)	-	1 (reference)	-
	<500	9,601	114	0.86 (0.84-0.88)	<0.001	0.87 (0.85-0.90)	<0.001	0.88 (0.86-0.91)	<0.001
	500–999	8,150	103	0.78 (0.76-0.81)	<0.001	0.80 (0.78-0.82)	<0.001	0.82 (0.80-0.84)	<0.001
	1,000–1,499	2,679	84	0.70 (0.67-0.73)	<0.001	0.73 (0.70-0.76)	<0.001	0.75 (0.72-0.78)	<0.001
	≥1,500	1,776	93	0.69 (0.66-0.73)	<0.001	0.72 (0.68-0.75)	<0.001	0.73 (0.70-0.77)	<0.001
Stroke	0	16,578	235	1 (reference)	-	1 (reference)	-	1 (reference)	-
	<500	9,798	162	0.78 (0.76-0.80)	<0.001	0.79 (0.77-0.81)	<0.001	0.81 (0.79-0.83)	<0.001
	500–999	8,796	147	0.70 (0.68-0.72)	<0.001	0.71 (0.69-0.73)	<0.001	0.73 (0.71-0.75)	<0.001
	1,000–1,499	2,845	124	0.64 (0.61-0.67)	<0.001	0.66 (0.64-0.69)	<0.001	0.68 (0.65-0.71)	<0.001

≥1,500	2,061	129	0.61 (0.58-0.64)	<0.001	0.63 (0.60-0.66)	<0.001	0.64 (0.61-0.67)	<0.001
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Abbreviations: CI, confidence interval; CVD, cardiovascular disease; HF, heart failure; HR, hazard ratio; IHD, ischemic heart disease; MET, metabolic equivalents of task.

*HRs were calculated by Cox models, after adjusting for age at baseline, sex, smoking status, alcohol consumption frequency, and household income.

†HRs were calculated by Cox models, after adjusting for age at baseline, sex, smoking status, alcohol consumption frequency, household income, blood pressure status, fasting glucose status, known chronic obstructive lung disease, and previous history of admission due to lower respiratory tract infection

Table S4. Association between physical activity and outcomes from lower respiratory tract infection by subgroups after excluding the first 2 years of follow-up (sensitivity analyses)

Subgroups	Amount of physical activity (MET min/week)	Mortality		Hospitalization	
		MV-adjusted HR* (95% CI)	P-value	MV-adjusted HR* (95% CI)	P-value
Overall population					
	0	1 (reference)	-	1 (reference)	-
	<500	0.77 (0.73-0.81)	<0.001	0.86 (0.85-0.87)	<0.001
	500-999	0.68 (0.64-0.72)	<0.001	0.80 (0.78-0.81)	<0.001
	1000-1499	0.54 (0.48-0.59)	<0.001	0.74 (0.72-0.76)	<0.001
	≥1500	0.57 (0.51-0.63)	<0.001	0.73 (0.71-0.75)	<0.001
Age strata, yrs					
18-64	0	1 (reference)	-	1 (reference)	-
	<500	0.91 (0.73-1.14)	0.409	0.86 (0.83-0.89)	<0.001
	500-999	0.79 (0.63-0.99)	0.040	0.83 (0.81-0.86)	<0.001
	1000-1499	0.77 (0.57-1.05)	0.095	0.79 (0.76-0.82)	<0.001
	≥1500	0.87 (0.62-1.21)	0.398	0.81 (0.77-0.85)	<0.001
65-74	0	1 (reference)	-	1 (reference)	-
	<500	0.76 (0.69-0.84)	<0.001	0.86 (0.84-0.88)	
	500-999	0.67 (0.60-0.74)	<0.001	0.80 (0.77-0.82)	
	1000-1499	0.56 (0.49-0.65)	<0.001	0.73 (0.70-0.76)	

	≥ 1500	0.53 (0.45-0.63)	<0.001	0.72 (0.69-0.75)	<0.001
75-99	0	1 (reference)	-	1 (reference)	-
	<500	0.76 (0.71-0.82)	<0.001	0.86 (0.83-0.89)	<0.001
	500-999	0.68 (0.63-0.74)	<0.001	0.77 (0.75-0.80)	<0.001
	1000-1499	0.47 (0.39-0.55)	<0.001	0.72 (0.68-0.76)	<0.001
	≥ 1500	0.55 (0.46-0.66)	<0.001	0.70 (0.66-0.74)	<0.001

Sex

Men	0	1 (reference)	-	1 (reference)	-
	<500	0.82 (0.76-0.88)	<0.001	0.85 (0.83-0.87)	<0.001
	500-999	0.71 (0.66-0.77)	<0.001	0.80 (0.78-0.82)	<0.001
	1000-1499	0.55 (0.49-0.63)	<0.001	0.73 (0.70-0.75)	<0.001
	≥ 1500	0.58 (0.52-0.66)	<0.001	0.71 (0.69-0.74)	<0.001
Women	0	1 (reference)	-	1 (reference)	-
	<500	0.71 (0.65-0.78)	<0.001	0.86 (0.84-0.88)	<0.001
	500-999	0.65 (0.58-0.72)	<0.001	0.78 (0.76-0.80)	<0.001
	1000-1499	0.52 (0.42-0.64)	<0.001	0.74 (0.71-0.77)	<0.001
	≥ 1500	0.54 (0.42-0.70)	<0.001	0.74 (0.70-0.77)	<0.001

CVD subtype

IHD	0	1 (reference)	-	1 (reference)	-
	<500	0.84 (0.75-0.93)	<0.001	0.86 (0.83-0.88)	<0.001
	500-999	0.73 (0.66-0.82)	<0.001	0.82 (0.79-0.84)	<0.001

	1000-1499	0.60 (0.50-0.72)	<0.001	0.76 (0.73-0.79)	<0.001
	≥1500	0.63 (0.52-0.76)	<0.001	0.76 (0.73-0.80)	<0.001
HF	0	1 (reference)	-	1 (reference)	-
	<500	0.72 (0.65-0.79)	<0.001	0.90 (0.87-0.93)	<0.001
	500-999	0.70 (0.63-0.78)	<0.001	0.84 (0.82-0.87)	<0.001
	1000-1499	0.50 (0.41-0.61)	<0.001	0.77 (0.73-0.80)	<0.001
	≥1500	0.59 (0.48-0.72)	<0.001	0.75 (0.71-0.80)	<0.001
Stroke	0	1 (reference)	-	1 (reference)	-
	<500	0.75 (0.68-0.81)	<0.001	0.84 (0.82-0.87)	<0.001
	500-999	0.63 (0.57-0.69)	<0.001	0.77 (0.74-0.80)	<0.001
	1000-1499	0.48 (0.41-0.57)	<0.001	0.70 (0.66-0.74)	<0.001
	≥1500	0.51 (0.43-0.61)	<0.001	0.70 (0.66-0.74)	<0.001

Abbreviations: CI, confidence interval; CVD, cardiovascular disease; HF, heart failure; HR, hazard ratio; IHD, ischemic heart disease; n/a, non-applicable; MET, metabolic equivalents of task; MV, multivariate.

*HRs were calculated by Cox models, after adjusting for age at baseline, sex, smoking status, alcohol consumption frequency, household income, blood pressure status, fasting glucose status, known chronic obstructive lung disease, and previous history of admission due to lower respiratory tract infection.

Table S5. Dose-response association between the amount of physical activity and lower respiratory tract infection mortality and hospitalization rates (sensitivity analysis)

Amount of physical activity (MET-min/week)	No. of events	Event rate, n/10,000 person-year	Multivariate-adjusted*		Multivariate-adjusted†	
			(Main analysis) HR (95% CI)	P-value	(Sensitivity analysis) HR (95% CI)	P-value
Mortality						
0	3,751	15.4	1 (reference)	-	1 (reference)	-
<500	1,968	8.5	0.74 (0.70-0.78)	<0.001	0.74 (0.70-0.78)	<0.001
500–999	1,707	7.8	0.66 (0.62-0.70)	<0.001	0.66 (0.62-0.70)	<0.001
1,000–1,499	447	5.1	0.52 (0.47-0.57)	<0.001	0.52 (0.47-0.57)	<0.001
≥1,500	364	6.6	0.54 (0.49-0.60)	<0.001	0.54 (0.49-0.61)	<0.001
Hospitalization						
0	44,148	172.8	1 (reference)	-	1 (reference)	-
<500	29,992	122.1	0.84 (0.83-0.85)	<0.001	0.84 (0.83-0.85)	<0.001
500–999	26,660	113.7	0.77 (0.76-0.79)	<0.001	0.78 (0.76-0.79)	<0.001
1,000–1,499	9,153	96.6	0.72 (0.70-0.73)	<0.001	0.72 (0.70-0.73)	<0.001
≥1,500	6,328	106.7	0.71 (0.69-0.73)	<0.001	0.71 (0.69-0.73)	<0.001

Abbreviations: CI, confidence interval; HR, hazard ratio; MET, metabolic equivalents of task.

*HRs were calculated by Cox models, after adjusting for age at baseline, sex, smoking status, alcohol consumption frequency, household income, blood pressure status, fasting glucose status, body mass index, known chronic obstructive lung disease, and previous history of admission due to lower respiratory tract infection.

†HRs were calculated by Cox models, after adjusting for all variables in main analysis, prevalent asthma, outpatient clinic visit due to influenza and pneumonia, and steroid use within 1 year before the health examination date.

Table S6. Association of a 500 MET-min/week increase in physical activity and lower respiratory tract infection outcomes among individuals with \leq 2000 MET-min/week

	Age- and sex-adjusted			Multivariate-adjusted*			Multivariate-adjusted†		
	HR (95% CI)	P-value	P for interaction (age)	HR (95% CI)	P-value	P for interaction (age)	HR (95% CI)	P-value	P for interaction (age)
Mortality									
Overall population	0.75 (0.73-0.77)	<0.001		0.77 (0.75-0.79)	<0.001		0.78 (0.75-0.80)	<0.001	
Age strata, yrs									
18-64	0.84 (0.77-0.92)	<0.001	0.027	0.89 (0.81-0.97)	0.009	0.002	0.90 (0.82-0.98)	0.017	0.003
65-74	0.76 (0.72-0.79)	<0.001		0.77 (0.74-0.81)	<0.001		0.78 (0.74-0.81)	<0.001	
75-99	0.73 (0.70-0.77)	<0.001		0.74 (0.71-0.77)	<0.001		0.75 (0.72-0.79)	<0.001	
Hospitalization									
Overall population	0.85 (0.85-0.86)	<0.001		0.87 (0.86-0.87)	<0.001		0.87 (0.87-0.88)	<0.001	
Age strata, yrs									
18-64	0.89 (0.88-0.90)	<0.001	<0.001	0.91 (0.90-0.92)	<0.001	<0.001	0.91 (0.90-0.92)	<0.001	<0.001
65-74	0.85 (0.84-0.86)	<0.001		0.87 (0.86-0.88)	<0.001		0.87 (0.86-0.88)	<0.001	
75-99	0.83 (0.82-0.84)	<0.001		0.83 (0.82-0.85)	<0.001		0.84 (0.83-0.86)	<0.001	

Abbreviations: CI, confidence interval; HR, hazard ratio; MET, metabolic equivalents of task.

*HRs were calculated by Cox models, after adjusting for age at baseline, sex, smoking status, alcohol consumption frequency, and household income.

†HRs were calculated by Cox models, after adjusting for age at baseline, sex, smoking status, alcohol consumption frequency, household income, blood pressure status, fasting glucose status, body mass index, prevalent chronic obstructive lung disease, and previous history of admission due to lower respiratory tract infection.