

Supplemental Table S2. HR (95% CI) of Study Outcomes According to Quartiles of Variability Indices for BW and WC

Variable	Events	Person-yr	IR ^a	HR (95% CI)		
				Model 1 ^b	Model 2 ^c	Model 3 ^d
Myocardial infarction						
SD for BW						
Q1	3,389	4,258,806	0.80	1 (reference)	1 (reference)	1 (reference)
Q2	4,439	4,959,586	0.90	1.12 (1.07–1.17)	1.11 (1.06–1.16)	1.09 (1.04–1.14)
Q3	4,275	4,706,211	0.91	1.18 (1.13–1.24)	1.17 (1.12–1.22)	1.10 (1.05–1.15)
Q4	3,992	4,647,033	0.86	1.33 (1.27–1.39)	1.29 (1.23–1.35)	1.17 (1.12–1.22)
<i>P</i> for trend				<0.001	<0.001	<0.001
CV for BW						
Q1	4,103	4,648,089	0.88	1 (reference)	1 (reference)	1 (reference)
Q2	4,099	4,646,880	0.88	1.05 (1.01–1.10)	1.04 (1.00–1.09)	1.05 (1.01–1.10)
Q3	3,946	4,644,782	0.85	1.07 (1.02–1.12)	1.05 (1.003–1.10)	1.07 (1.02–1.11)
Q4	3,947	4,631,886	0.85	1.21 (1.15–1.26)	1.16 (1.11–1.21)	1.17 (1.12–1.22)
<i>P</i> for trend				<0.001	<0.001	<0.001
ARV for BW						
Q1	4,494	5,384,123	0.83	1 (reference)	1 (reference)	1 (reference)
Q2	3,751	4,381,455	0.86	1.07 (1.02–1.11)	1.06 (1.02–1.11)	1.06 (1.01–1.10)
Q3	3,729	4,041,349	0.92	1.15 (1.10–1.21)	1.14 (1.09–1.19)	1.09 (1.05–1.14)
Q4	4,121	4,764,709	0.86	1.24 (1.19–1.30)	1.21 (1.16–1.27)	1.12 (1.07–1.17)
<i>P</i> for trend				<0.001	<0.001	<0.001
SD for WC						
Q1	4,057	4,690,811	0.86	1 (reference)	1 (reference)	1 (reference)
Q2	4,081	4,680,778	0.87	1.01 (0.97–1.06)	1.01 (0.97–1.05)	1.01 (0.97–1.05)
Q3	3,947	4,598,901	0.86	1.00 (0.96–1.04)	0.99 (0.95–1.04)	0.98 (0.94–1.02)
Q4	4,010	4,601,146	0.87	1.08 (1.03–1.13)	1.06 (1.02–1.11)	1.02 (0.98–1.07)
<i>P</i> for trend				0.003	0.023	0.580
CV for WC						
Q1	4,357	4,648,644	0.94	1 (reference)	1 (reference)	1 (reference)
Q2	4,274	4,642,665	0.92	1.01 (0.97–1.05)	1.00 (0.96–1.05)	1.02 (0.97–1.06)
Q3	3,838	4,643,617	0.83	0.95 (0.91–0.99)	0.94 (0.90–0.98)	0.96 (0.92–1.01)
Q4	3,626	4,636,710	0.78	1.00 (0.95–1.04)	0.98 (0.94–1.03)	1.02 (0.97–1.06)
<i>P</i> for trend				0.280	0.060	0.861
ARV for WC						
Q1	4,493	5,249,328	0.86	1 (reference)	1 (reference)	1 (reference)
Q2	3,352	3,869,365	0.87	1.01 (0.97–1.06)	1.01 (0.97–1.06)	1.01 (0.96–1.05)
Q3	4,038	4,720,539	0.86	1.01 (0.97–1.06)	1.01 (0.97–1.05)	1.00 (0.96–1.04)
Q4	4,212	4,732,404	0.89	1.07 (1.03–1.12)	1.06 (1.01–1.10)	1.02 (0.98–1.06)
<i>P</i> for trend				0.003	0.021	0.476

(Continued to the next page)

Supplemental Table S2. Continued

Variable	Events	Person-yr	IR ^a	HR (95% CI)		
				Model 1 ^b	Model 2 ^c	Model 3 ^d
Stroke						
SD for BW						
Q1	4,157	4,257,182	0.98	1 (reference)	1 (reference)	1 (reference)
Q2	5,261	4,957,802	1.06	1.06 (1.01–1.10)	1.05 (1.01–1.09)	1.03 (0.99–1.08)
Q3	4,901	4,704,617	1.04	1.12 (1.08–1.17)	1.11 (1.07–1.16)	1.06 (1.02–1.11)
Q4	4,638	4,645,649	1.00	1.30 (1.25–1.36)	1.28 (1.23–1.34)	1.19 (1.14–1.24)
<i>P</i> for trend				<0.001	<0.001	<0.001
CV for BW						
Q1	4,770	4,646,630	1.03	1 (reference)	1 (reference)	1 (reference)
Q2	4,672	4,645,500	1.01	1.03 (0.99–1.07)	1.02 (0.98–1.06)	1.03 (0.99–1.08)
Q3	4,692	4,643,114	1.01	1.09 (1.05–1.14)	1.08 (1.04–1.12)	1.09 (1.05–1.13)
Q4	4,823	4,630,006	1.04	1.23 (1.19–1.28)	1.20 (1.16–1.25)	1.20 (1.16–1.25)
<i>P</i> for trend				<0.001	<0.001	<0.001
ARV for BW						
Q1	5,530	5,381,901	1.03	1 (reference)	1 (reference)	1 (reference)
Q2	4,260	4,380,210	0.97	1.01 (0.97–1.06)	1.01 (0.97–1.05)	1.01 (0.97–1.05)
Q3	4,333	4,039,909	1.07	1.10 (1.06–1.14)	1.09 (1.05–1.13)	1.06 (1.01–1.10)
Q4	4,834	4,763,230	1.01	1.24 (1.19–1.28)	1.22 (1.17–1.27)	1.15 (1.11–1.20)
<i>P</i> for trend				<0.001	<0.001	<0.001
SD for WC						
Q1	4,618	4,689,592	0.98	1 (reference)	1 (reference)	1 (reference)
Q2	4,605	4,679,478	0.98	1.00 (0.96–1.04)	1.00 (0.96–1.04)	1.00 (0.96–1.05)
Q3	4,760	4,597,124	1.04	1.03 (0.99–1.07)	1.03 (0.98–1.07)	1.02 (0.98–1.06)
Q4	4,974	4,599,055	1.08	1.10 (1.06–1.15)	1.09 (1.05–1.14)	1.07 (1.03–1.12)
<i>P</i> for trend				<0.001	<0.001	0.001
CV for WC						
Q1	4,952	4,647,280	1.07	1 (reference)	1 (reference)	1 (reference)
Q2	4,730	4,641,582	1.02	0.98 (0.94–1.02)	0.98 (0.94–1.02)	0.99 (0.95–1.03)
Q3	4,657	4,641,778	1.00	0.99 (0.96–1.03)	0.99 (0.95–1.03)	1.01 (0.97–1.05)
Q4	4,618	4,634,610	1.00	1.05 (1.01–1.10)	1.04 (1.00–1.08)	1.08 (1.04–1.12)
<i>P</i> for trend				0.016	0.067	<0.001
ARV for WC						
Q1	5,090	5,248,037	0.97	1 (reference)	1 (reference)	1 (reference)
Q2	3,875	3,868,124	1.00	1.03 (0.98–1.07)	1.02 (0.98–1.07)	1.02 (0.98–1.07)
Q3	4,779	4,718,828	1.01	1.04 (1.00–1.08)	1.03 (0.99–1.07)	1.03 (0.99–1.07)
Q4	5,213	4,730,260	1.10	1.09 (1.04–1.13)	1.08 (1.03–1.12)	1.05 (1.01–1.10)
<i>P</i> for trend				<0.001	<0.001	0.009

(Continued to the next page)

Supplemental Table S2. Continued

Variable	Events	Person-yr	IR ^a	HR (95% CI)		
				Model 1 ^b	Model 2 ^c	Model 3 ^d
All-cause mortality						
SD for BW						
Q1	5,906	4,265,190	1.38	1 (reference)	1 (reference)	1 (reference)
Q2	7,742	4,967,792	1.56	1.10 (1.06–1.14)	1.09 (1.05–1.13)	1.07 (1.03–1.10)
Q3	7,732	4,714,020	1.64	1.22 (1.18–1.26)	1.20 (1.16–1.24)	1.21 (1.17–1.25)
Q4	8,820	4,654,497	1.89	1.71 (1.66–1.77)	1.67 (1.62–1.73)	1.66 (1.60–1.71)
<i>P</i> for trend				<0.001	<0.001	<0.001
CV for BW						
Q1	6,546	4,655,813	1.41	1 (reference)	1 (reference)	1 (reference)
Q2	6,716	4,654,461	1.44	1.08 (1.05–1.13)	1.08 (1.04–1.11)	1.07 (1.03–1.11)
Q3	7,463	4,652,033	1.60	1.29 (1.24–1.33)	1.26 (1.22–1.31)	1.24 (1.20–1.28)
Q4	9,475	4,639,194	2.04	1.83 (1.77–1.89)	1.77 (1.72–1.83)	1.66 (1.61–1.71)
<i>P</i> for trend				<0.001	<0.001	<0.001
ARV for BW						
Q1	7,837	5,392,542	1.45	1 (reference)	1 (reference)	1 (reference)
Q2	6,413	4,388,352	1.46	1.06 (1.03–1.10)	1.06 (1.02–1.09)	1.08 (1.05–1.12)
Q3	6,905	4,048,132	1.71	1.22 (1.18–1.26)	1.21 (1.17–1.25)	1.21 (1.17–1.25)
Q4	9,045	4,772,474	1.90	1.60 (1.55–1.65)	1.57 (1.52–1.61)	1.57 (1.53–1.62)
<i>P</i> for trend				<0.001	<0.001	<0.001
SD for WC						
Q1	7,012	4,698,496	1.49	1 (reference)	1 (reference)	1 (reference)
Q2	7,175	4,688,307	1.53	1.03 (1.00–1.07)	1.03 (1.00–1.06)	1.05 (1.01–1.08)
Q3	7,573	4,606,214	1.64	1.10 (1.06–1.13)	1.09 (1.06–1.13)	1.10 (1.06–1.13)
Q4	8,440	4,608,482	1.83	1.30 (1.26–1.34)	1.28 (1.24–1.32)	1.28 (1.24–1.32)
<i>P</i> for trend				<0.001	<0.001	<0.001
CV for WC						
Q1	7,302	4,656,886	1.57	1 (reference)	1 (reference)	1 (reference)
Q2	7,349	4,650,603	1.58	1.04 (1.01–1.08)	1.04 (1.01–1.07)	1.05 (1.02–1.08)
Q3	7,447	4,650,688	1.60	1.11 (1.07–1.15)	1.10 (1.07–1.14)	1.11 (1.07–1.14)
Q4	8,102	4,643,323	1.74	1.36 (1.32–1.41)	1.34 (1.30–1.38)	1.31 (1.27–1.36)
<i>P</i> for trend				<0.001	<0.001	<0.001
ARV for WC						
				1 (reference)	1 (reference)	1 (reference)
Q1	7,729	5,257,835	1.47	1.04 (1.01–1.08)	1.04 (1.01–1.08)	1.05 (1.02–1.09)
Q2	5,969	3,875,544	1.54	1.12 (1.08–1.15)	1.11 (1.08–1.15)	1.12 (1.09–1.16)
Q3	7,709	4,727,984	1.63	1.27 (1.23–1.31)	1.25 (1.21–1.29)	1.24 (1.20–1.28)
Q4	8,793	4,740,137	1.86	1.04 (1.01–1.08)	1.04 (1.01–1.08)	1.05 (1.02–1.09)
<i>P</i> for trend				<0.001	<0.001	<0.001

HR, hazard ratio; CI, confidence interval; BW, body weight; WC, waist circumference; IR, incidence rate; SD, standard deviation; CV, coefficient of variance; ARV, average real variability.

^aIncidence per 1,000 person-years; ^bModel 1 was adjusted for age and sex; ^cModel 2 was adjusted for age, sex, smoking status, alcohol intake, physical activity, and income; ^dModel 3 was adjusted for age, sex, smoking status, alcohol intake, physical activity, income, hypertension, diabetes mellitus, dyslipidemia, chronic kidney disease, number of measurement, and baseline body mass index (or baseline WC).