

Supplemental Material

Table S1. Cardiovascular mortality cases (and person years) according to quintiles of calcium, potassium, sodium, and magnesium intakes.

	Quintiles of minerals				
	Q1	Q2	Q3	Q4	Q5
Calcium					
Median, mg/d (IQR)	242 (194-269)	319 (305-333)	373 (359-389)	449 (425-482)	646 (586-746)
Cases/person-years					
CVD mortality	1107/195779	1112/195526	944/197782	827/197576	873/193528
CAD mortality	615/195779	588/195526	486/197782	448/197576	472/193528
Stroke mortality	306/195779	337/195526	282/197782	232/197576	250/193528
Magnesium					
Median, mg/d (IQR)	205 (193-212)	226 (222-230)	242 (238-246)	259 (254-265)	290 (280-308)
Cases/person-years					
CVD mortality	1036/195766	1012/197116	1007/198002	949/196436	867/194661
CAD mortality	574/195766	542/197116	521/198002	516/196436	457/194661
Stroke mortality	296/195766	294/197116	287/198002	275/196436	261/194661
Sodium					
Median, mg/d (IQR)	702 (539-800)	955 (913-994)	1102 (1067-1137)	1252 (1211-1298)	1507 (1417-1662)
Cases/person-years					
CVD mortality	979/197009	1021/197371	978/196275	967/196114	926/195213
CAD mortality	521/197009	548/197371	514/196275	523/196114	504/195213
Stroke mortality	276/197009	302/197371	291/196275	275/196114	269/195213
Potassium					
Median, mg/d (IQR)	1301 (1132-1400)	1579 (1528-1625)	1755 (1712-1801)	1955 (1901-2017)	2306 (2182-2513)
Cases/person-years					
CVD mortality	1186/190639	1150/194429	937/197871	879/198913	719/200131
CAD mortality	663/190639	599/194429	511/197871	460/198913	377/200131
Stroke mortality	321/190639	346/194429	288/197871	249/198913	209/200131

IQR: interquartile range, Ca: calcium, Mg: magnesium, Na: sodium, K: potassium, CVD: cardiovascular disease, CAD: coronary artery disease.

Table S2. Hazard ratio (95% Confidence Interval) of cardiovascular mortality according to calcium, sodium, potassium, and magnesium intakes in simpler multivariable models.

Quintiles	Ca		Mg		Na		K	
	Model 1	Model 2	Model 1	Model 2	Model 1	Model 2	Model 1	Model 2
CVD mortality								
Q1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Q2	1.01 (0.93-1.10)	0.97 (0.89-1.06)	0.98 (0.90-1.07)	0.93 (0.85-1.01)	1.08 (0.99-1.18)	1.00 (0.92-1.10)	1.00 (0.92-1.08)	0.95 (0.88-1.04)
Q3	0.92 (0.84-1.00)	0.88 (0.80-0.96)	0.98 (0.90-1.07)	0.93 (0.85-1.02)	1.08 (0.99-1.18)	0.99 (0.91-1.09)	0.88 (0.81-0.96)	0.83 (0.76-0.91)
Q4	0.86 (0.79-0.94)	0.83 (0.76-0.91)	0.95 (0.87-1.04)	0.90 (0.82-0.99)	1.18 (1.07-1.29)	1.04 (0.95-1.14)	0.89 (0.81-0.97)	0.85 (0.78-0.93)
Q5	0.91 (0.83-0.99)	0.91 (0.83-1.00)	0.89 (0.81-0.98)	0.87 (0.79-0.95)	1.26 (1.15-1.38)	1.11 (1.02-1.22)	0.81 (0.74-0.89)	0.80 (0.73-0.88)
<i>P-trend</i>	0.01	0.02	0.01	0.003	<0.001	0.01	<0.001	<0.001
CAD mortality								
Q1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Q2	1.00 (0.89-1.12)	0.95 (0.84-1.07)	0.97 (0.86-1.09)	0.91 (0.80-1.02)	1.11 (0.99-1.26)	1.04 (0.92-1.17)	0.95 (0.85-1.06)	0.91 (0.81-1.02)
Q3	0.88 (0.78-1.00)	0.84 (0.74-0.95)	0.94 (0.83-1.06)	0.89 (0.78-1.00)	1.10 (0.97-1.24)	1.00 (0.88-1.13)	0.88 (0.79-0.99)	0.83 (0.73-0.93)
Q4	0.87 (0.77-0.98)	0.83 (0.73-0.94)	0.96 (0.85-1.09)	0.90 (0.80-1.02)	1.23 (1.08-1.39)	1.07 (0.94-1.21)	0.85 (0.75-0.96)	0.81 (0.71-0.91)
Q5	0.93 (0.82-1.05)	0.91 (0.80-1.03)	0.88 (0.77-0.99)	0.83 (0.73-0.94)	1.30 (1.15-1.47)	1.12 (0.99-1.27)	0.78 (0.68-0.88)	0.76 (0.66-0.86)
<i>P-trend</i>	0.12	0.11	0.05	0.01	0.00	0.07	<0.001	<0.001
Stroke mortality								
Q1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Q2	1.05 (0.90-1.23)	1.00 (0.85-1.18)	0.96 (0.82-1.13)	0.91 (0.77-1.07)	1.08 (0.92-1.28)	1.01 (0.85-1.19)	1.06 (0.91-1.24)	1.02 (0.87-1.20)
Q3	0.94 (0.79-1.10)	0.90 (0.76-1.06)	0.93 (0.79-1.09)	0.89 (0.75-1.05)	1.09 (0.92-1.29)	1.01 (0.85-1.20)	0.97 (0.83-1.14)	0.93 (0.79-1.09)
Q4	0.83 (0.70-0.99)	0.82 (0.69-0.97)	0.92 (0.78-1.08)	0.88 (0.74-1.04)	1.14 (0.96-1.35)	1.03 (0.87-1.23)	0.91 (0.77-1.08)	0.88 (0.74-1.05)
Q5	0.88 (0.74-1.05)	0.90 (0.76-1.08)	0.90 (0.76-1.06)	0.89 (0.75-1.06)	1.28 (1.08-1.52)	1.18 (0.99-1.40)	0.87 (0.73-1.04)	0.88 (0.73-1.05)
<i>P-trend</i>	0.03	0.10	0.17	0.21	0.00	0.06	0.04	0.05

Ca: calcium, Mg: magnesium, Na: sodium, K: potassium, CVD: cardiovascular disease, CAD: coronary artery disease.

Multivariable model 1: adjusted for age, sex, dialect, year of interview, educational level;

Multivariable model 2: further adjusted for body mass index, physical activity, smoking status, alcohol use, history of diabetes, history of hypertension, total energy intake, and dietary supplements use.