

## Supplementary Online Content

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

**eTable 1A. Sociodemographic Characteristics of Study Participants in the Americans of African Descent in the Southern Community Cohort Study (SCCS), by Quintile of Nut & Peanut Butter**

Characteristics	Quintile 1	Quintile 2	Quintile 3	Quintile 4	Quintile 5	P-value
	(n=10,361)	(n=10,397)	(n=8,661)	(n=9,648)	(n=9,380)	
Age at baseline (Mean±SE)	51.7±0.08	51.5±0.008	51.7±0.09	51.5±0.09	51.4±0.09	0.01
40-49	47.0	47.9	46.8	47.8	47.9	0.003
50-59	34.0	34.3	35.2	34.9	35.2	
60-69	14.1	13.5	13.8	13.4	13.3	
70-79	4.8	4.3	4.2	3.9	3.6	
Education						
≤high school	37.8	32.2	27.8	28.4	27.2	<0.0001
High/vocational school	39.7	40.2	38.9	39.5	37.8	
Some or completed college	20.7	24.8	29.4	28.0	30.3	
>College	1.8	2.7	4.0	4.0	4.7	
Income <sup>a</sup>						
Low	65.3	59.9	55.5	56.9	54.7	<0.0001
Lower-middle	22.0	22.7	23.0	22.8	22.4	
Middle	9.5	12.7	14.5	14.2	15.1	
Upper-middle	2.8	3.9	5.9	5.1	6.2	
High	0.5	0.8	1.2	1.0	1.5	
Occupation						
Professional	20.3	21.3	25.4	23.6	24.9	<0.0001
Clerical	64.2	64.9	58.3	61.7	62.1	
Manual laborer/Housewife	7.4	7.3	9.8	8.8	7.6	
Never worked/Other	8.1	6.4	6.4	5.9	5.4	
Smoking						
Ever smoked regularly	58.4	63.0	60.3	62.8	65.3	<0.0001
Pack-years (Mean±SE)	18.9±0.2	18.8±0.2	18.6±0.2	17.9±0.2	18.6±0.2	0.02
None	42.1	37.5	40.2	37.8	35.3	<0.0001
0-less than 13 pack-years	26.7	28.3	27.8	29.9	29.5	
13-less than 22 pack-years	13.0	14.5	14.1	14.3	15.5	
22-less than 32 pack-years	7.7	8.7	7.8	8.6	9.0	
≥32 pack-years	10.5	11.0	10.1	9.5	10.7	
Alcohol consumption						
Number of drinks/day (Mean±SE)	1.0±0.03	1.4±0.03	1.1±0.04	1.2±0.03	1.4±0.03	<0.0001
Heavy (>3 drinks/day)	9.2	12.9	10.4	11.3	13.7	<0.0001
Moderate (≤3 drinks/day)	38.5	42.1	44.1	43.3	43.8	
None	52.3	45.0	45.4	45.3	42.5	
Body mass index (BMI-kg/m <sup>2</sup> ) (Mean±SE)	31.6±0.07	30.6±0.07	31.0±0.08	30.4±0.08	29.6±0.08	<0.0001
Underweight	1.2	1.0	1.1	1.1	1.1	<0.0001

(<18.5)						
Normal (18.5-24.9)	18.8	23.8	21.0	24.2	26.0	
Overweight (25-29.9)	27.3	29.1	28.7	29.4	32.5	
Obese (30-39.9)	38.3	35.1	36.5	34.2	31.9	
Morbidly obese (≥40)	14.4	11.0	12.7	11.1	8.4	
Use of vitamin supplements	37.6	40.0	43.3	44.8	48.9	<0.0001
Physical activity, MET-hours (Mean±SE)	0.8±0.01	0.9±0.01	0.9±0.01	1.0±0.01	1.1±0.01	<0.0001
Charles comorbidity index <sup>b</sup> (Mean±SE)	2.0±0.01	1.8±0.01	1.9±0.01	1.8±0.01	1.8±0.02	<0.0001
Other chronic diseases	76.0	71.4	74.3	72.4	72.1	<0.0001
Hypertension <sup>c  </sup>	63.3	59.2	58.0	56.3	53.2	<0.0001
Diabetes <sup>  </sup>	24.5	22.5	23.8	22.1	19.8	<0.0001
Heart attack/coronary bypass surgery <sup>  </sup>	6.5	5.9	5.4	5.4	5.5	0.002
High cholesterol <sup>c  </sup>	32.5	29.7	31.3	29.1	28.7	<0.0001
Stroke <sup>  </sup>	7.0	6.4	5.7	5.5	6.0	<0.0001
Anti-hypertension medication	25.4	24.5	24.4	23.5	22.3	<0.0001
Anti-diabetes medication	21.2	19.6	20.4	19.2	16.7	<0.0001
Total energy intake (Kcal/day) (Mean±SE)	2,116.9±12.0	2,185.5±12.0	2,301.8±13.2	2,743.9±125	3,444.0±12.6	<0.0001
Dietary intake (grams/day) (Mean±SE)						
Red meat	52.2±0.8	54.7±0.8	58.2±0.8	68.4±0.8	79.6±0.8	<0.0001
Chicken	62.9±0.6	61.2±0.6	65.3±0.7	72.2±0.7	83.6±0.7	<0.0001
Seafood	43.6±0.6	42.6±0.6	46.9±0.7	54.9±0.6	67.1±0.6	<0.0001
Vegetables	158.6±1.5	152.3±1.5	168.0±1.6	183.6±1.5	214.9±1.5	<0.0001
Fruits	431.6±4.2	431.6±4.2	448.2±4.6	505.9±4.4	575.7±4.4	<0.0001
Family history of cancer	42.8	42.8	43.4	43.7	43.8	0.41
Family history of heart diseases/diabetes	65.0	62.7	64.9	63.8	63.5	0.004
Peanuts (Mean±SE) (Range)	0.44±0.09 (0.0-0.87)	1.86±0.09 (0.95-3.08)	5.25±0.10 (3.12-7.21)	11.85±0.10 (7.30-18.34)	38.43±0.10 (18.71-173.2)	<0.0001
Metabolic conditions <sup>d</sup>	82.3	77.9	78.3	76.1	73.7	<0.0001

Abbreviations: MET: metabolic equivalent; SE: standard error

Nut intake quintile cut-points (grams/day):

SCCS data:

Total nuts & peanut butter: Q1 (<0.95); Q2 (0.95-less than 3.08); Q3 (3.08-less than 7.30); Q4 (7.30-less than 18.45); Q5 (≥18.45)

Nut only: Q1 (<0.36); Q2 (0.36-less than 0.66); Q3 (0.66-less than 4.14); Q4 (4.14-less than 8.63); Q5 (≥8.63)

Peanut butter only: Q1 (<0.19); Q2 (0.19-less than 0.59); Q3 (0.59-less than 2.18); Q4 (2.18-less than 6.32); Q5 (≥6.32)

<sup>a</sup>Income:

Low (<\$15,000/year per household); lower-middle (\$15,000-\$24,999/year per household); middle (\$25,000-\$49,999/year per household); upper-middle (\$50,000-\$99,999/year per household), high (≥\$100,000/year per household)

<sup>b</sup>Charles comorbidity index: calculated based on number of existing chronic diseases.

<sup>c</sup>Self-reported.

<sup>d</sup>Metabolic condition: a person has one or more of the following conditions: history of hypertension, diabetes, history of heart disease, BMI $\geq$ 30, or hypercholesterolemia.

<sup>f</sup>Prevalence of disease conditions

**eTable 1B. Sociodemographic Characteristics of Study Participants in the Americans of European Descent in the Southern Community Cohort Study (SCCS), by Quintile of Nut & Peanut Butter**

Characteristics	Quintile 1	Quintile 2	Quintile 3	Quintile 4	Quintile 5	P-value
	(n=3,812)	(n=4,504)	(n=4,951)	(n=5,194)	(n=4,956)	
Age at baseline (Mean±SE)	53.7±0.15	53.5±0.13	53.7±0.13	54.1±0.13	55.3±0.13	<0.0001
40-49	38.6	38.4	38.7	36.4	31.7	<0.0001
50-59	34.9	35.9	35.4	35.7	35.7	
60-69	20.4	20.3	19.8	21.8	25.0	
≥70	6.0	5.3	6.0	6.2	7.6	
Education						
≤high school	36.9	27.1	20.0	18.5	15.2	<0.0001
High/vocational school	36.9	40.2	38.6	37.0	32.7	
Some or completed college	22.5	28.2	32.4	34.0	37.0	
>College	3.6	4.4	8.9	10.5	15.1	
Income <sup>a</sup>						
Low	60.4	51.1	43.0	41.2	34.8	<0.0001
Lower-middle	18.9	20.6	19.1	18.4	16.2	
Middle	12.3	15.8	18.2	18.3	19.3	
Upper-middle	6.2	9.6	14.2	15.5	19.5	
High	2.3	2.9	5.4	6.6	10.2	
Occupation						
Professional	21.5	25.8	32.2	34.5	39.5	<0.0001
Clerical	62.2	54.8	51.7	50.8	47.4	
Manual laborer/Housewife	10.2	14.0	11.4	10.2	8.5	
Never worked/Other	6.1	5.4	4.7	4.5	4.5	
Smoking						
Ever smoked regularly	69.1	66.0	66.1	65.0	65.8	0.0009
Pack-years (Mean±SE)	35.2±0.5	33.2±0.5	31.2±0.5	30.4±0.5	31.6±0.5	<0.0001
None	31.3	34.4	34.5	35.7	36.3	<0.0001
0-less than 13 pack-years	14.4	15.5	16.3	17.4	17.2	
13-less than 22 pack-years	10.7	10.0	11.0	10.8	9.9	
22-less than 32 pack-years	12.3	10.3	11.9	10.6	10.3	
≥32 pack-years	31.2	29.7	26.4	25.5	26.2	
Alcohol consumption						
Number of drinks/day (Mean±SE)	0.9±0.04	0.6±0.04	0.8±0.04	0.8±0.04	1.0±0.04	<0.0001
Heavy (>3 drinks/day)	7.4	5.1	6.9	6.9	8.6	<0.0001
Moderate (≤3 drinks/day)	33.5	39.1	45.1	46.8	48.4	
None	59.1	55.7	48.0	46.3	42.9	
Body mass index (BMI-kg/m <sup>2</sup> ) (Mean±SE)	30.5±0.12	30.7±0.11	29.9±0.11	29.7±0.10	28.9±0.10	<0.0001
Underweight (<18.5)	1.5	1.5	1.1	1.5	1.4	<0.0001
Normal (18.5-24.9)	23.9	23.6	25.9	25.8	28.6	
Overweight (25-29.9)	28.5	29.0	30.4	32.0	34.2	
Obese (30-39.9)	34.9	33.4	33.0	31.6	28.6	
Morbidly obese (≥40)	11.2	12.6	9.7	9.0	7.2	
Use of vitamin supplements	42.0	49.0	55.1	59.9	65.3	<0.0001

Physical activity, MET-hours (Mean±SE)	0.8±0.01	0.9±0.01	0.9±0.01	0.9±0.01	0.9±0.01	<0.0001
Charles comorbidity index <sup>b</sup> (Mean±SE)	2.3±0.03	2.2±0.02	2.0±0.02	2.0±0.02	2.0±0.02	<0.0001
Other chronic diseases	86.3	87.3	85.3	84.4	83.1	<0.0001
Hypertension <sup>c†</sup>	54.7	51.3	46.1	48.7	45.2	<0.0001
Diabetes <sup>†</sup>	21.6	20.3	18.0	19.2	18.0	<0.0001
Heart attack/coronary bypass surgery <sup>†</sup>	12.3	8.7	9.0	9.0	9.0	<0.0001
High cholesterol <sup>c†</sup>	43.1	41.9	41.2	41.9	42.4	0.48
Stroke <sup>†</sup>	10.0	7.4	6.2	5.9	5.5	<0.0001
Anti-hypertension medication	30.9	28.4	27.7	29.7	28.6	<0.0001
Anti-diabetes medication	17.7	16.3	14.1	15.3	13.7	<0.0001
Total energy intake (Kcal/day) (Mean±SE)	1,899.9±16.7	1,823.9±15.4	2,057.2±14.7	2,341.2±14.3	2,775.6±14.7	<0.0001
Dietary intake (grams/day) (Mean±SE)						
Red meat	58.4±1.2	56.9±1.1	63.0±1.1	70.0±1.0	74.9±1.1	<0.0001
Chicken	50.0±0.9	50.2±0.8	53.2±0.8	60.1±0.8	62.9±0.8	<0.0001
Seafood	25.7±0.6	26.1±0.6	28.6±0.5	33.5±0.5	39.6±0.5	<0.0001
Vegetables	141.0±1.9	139.4±1.7	147.8±1.6	164.0±1.6	190.6±1.6	<0.0001
Fruits	244.1±4.5	244.0±4.2	259.4±4.0	287.4±3.9	330.6±4.0	<0.0001
Family history of cancer	60.4	62.1	61.6	60.5	62.4	0.18
Family history of heart diseases/diabetes	71.1	69.8	68.9	68.8	65.7	<0.0001
Peanuts (Mean±SE) (Range)	0.42±0.14 (0.0-0.90)	2.0±0.12 (0.96-3.03)	5.27±0.12 (3.17-7.29)	12.86±0.12 (7.43-18.45)	36.43±0.12 (18.52-164.0)	<0.0001
Metabolic conditions <sup>d</sup>	79.2	77.7	74.2	74.7	72.8	<0.0001

Abbreviations: MET: metabolic equivalent; SE: standard error

Nut intake quintile cut-points (grams/day):

SCCS data:

Total nuts & peanut butter: Q1 (<0.95); Q2 (0.95-less than 3.08); Q3 (3.08-less than 7.30); Q4 (7.30-less than 18.45); Q5 (≥18.45)

Nut only: Q1 (<0.36); Q2 (0.36-less than 0.66); Q3 (0.66-less than 4.14); Q4 (4.14-less than 8.63); Q5 (≥8.63)

Peanut butter only: Q1 (<0.19); Q2 (0.19-less than 0.59); Q3 (0.59-less than 2.18); Q4 (2.18-less than 6.32); Q5 (≥6.32)

<sup>a</sup>Income:

Low (<\$15,000/year per household); lower-middle (\$15,000-\$24,999/year per household); middle (\$25,000-\$49,999/year per household); upper-middle (\$50,000-\$99,999/year per household), high (≥\$100,000/year per household)

<sup>b</sup>Charles comorbidity index: calculated based on number of existing chronic diseases.

<sup>c</sup>Self-reported.

<sup>d</sup>Metabolic condition: a person has one or more of the following conditions: history of hypertension, diabetes, history of heart disease, BMI≥30, or hypercholesterolemia.

<sup>†</sup>Prevalence of disease conditions

**eTable 2. Sociodemographic Characteristics of Study Participants in the Shanghai Men's Health Study (SMHS) and Shanghai Women's Health Study (SWHS) by Quintile of Peanut**

Characteristics	Quintile 1	Quintile 2	Quintile 3	Quintile 4	Quintile 5	P-value
	(n=26,236)	(n=21,853)	(n=28,049)	(n=32,438)	(n=25,689)	
Age at baseline (Mean±SE)	55.0±0.06	51.5±0.06	52.7±0.05	54.3±0.05	55.2±0.06	<0.0001
40-49	41.0	54.3	48.2	40.9	36.5	<0.0001
50-59	24.1	24.6	27.7	29.4	30.4	
60-69	26.4	18.6	20.4	23.8	26.3	
≥70	8.5	2.4	3.7	5.9	6.9	
Education <sup>a</sup>						
Elementary or less	20.3	14.3	13.7	13.7	11.6	<0.0001
Middle school	36.3	37.8	36.2	35.1	32.6	
≤high school	29.3	32.6	32.3	31.6	32.2	
Some or completed college	14.1	15.3	17.5	19.6	23.5	
Income <sup>b</sup>						
Low	17.9	14.3	13.9	13.5	13.0	<0.0001
Lower-middle	42.5	39.2	39.3	40.8	39.0	
Upper-middle	28.3	30.7	31.7	31.8	33.8	
High	11.3	15.8	15.1	13.9	14.1	
Occupation						
Professional	23.2	26.9	27.7	28.3	31.6	<0.0001
Clerical	21.3	21.4	21.6	20.9	21.3	
Manual laborer/Housewife	55.4	51.7	50.7	50.7	47.1	
Smoking <sup>b</sup>						
Ever smoked regularly	71.5	70.9	68.7	68.5	69.5	<0.0001
Pack-years (Mean±SE)	24.1±0.2	21.4±0.2	21.3±0.2	22.1±0.1	22.9±0.1	<0.0001
None	28.5	29.1	31.3	31.5	30.5	<0.0001
0-less than 13 pack-years	1.2	1.5	1.4	1.6	1.4	
13-less than 22 pack-years	5.8	8.3	6.9	6.4	6.1	
22-less than 32 pack-years	32.3	39.7	36.7	32.4	30.9	
≥32 pack-years	32.2	21.5	23.6	28.1	31.0	
Alcohol consumption <sup>d</sup>						
Ever consumed alcohol regularly	32.9	29.4	29.2	33.4	39.7	<0.0001
Number of drinks/day (Mean±SE)	1.0±0.02	0.8±0.01	0.7±0.01	0.7±0.02	0.9±0.02	<0.0001
Heavy (>3 drinks/day)	10.8	7.8	7.2	8.2	11.5	<0.0001
Moderate (≤3 drinks/day)	21.6	21.3	21.7	24.8	27.9	
None	67.5	70.9	71.1	66.9	60.6	
Regular tea consumption	43.5	39.3	44.5	50.1	55.2	<0.0001
Body mass index	23.4±0.02	23.7±0.01	23.9±0.02	24.0±0.02	24.1±0.02	<0.0001

(BMI-kg/m <sup>2</sup> ) (Mean±SE)						
Underweight (<18.5)	5.3	4.0	3.6	3.1	3.0	<0.0001
Normal (18.5-24.9)	61.9	64.4	62.3	61.2	60.4	
Overweight (25-29.9)	28.8	27.5	30.3	31.7	32.7	
Obese (30-39.9)	4.0	4.0	3.8	4.0	3.8	
Morbidly obese (≥40)	0.03	0.03	0.03	0.01	0.03	
Use of vitamin supplements	15.9	17.2	17.4	17.8	19.2	<0.0001
Physical activity, MET-hours (Mean±SE)	1.0±0.01	0.9±0.01	0.7±0.01	0.6±0.01	0.8±0.01	<0.0001
Charles comorbidity index <sup>c</sup> (Mean±SE)	0.6±0.01	0.4±0.01	0.5±0.01	0.5±0.01	0.6±0.01	<0.0001
Other chronic diseases	36.4	31.8	34.2	36.5	39.1	<0.0001
Hypertension <sup>d</sup>	28.9	22.8	24.8	27.0	27.9	<0.0001
Diabetes <sup>d</sup>	5.8	3.3	4.3	5.4	6.8	<0.0001
Ischemic heart disease <sup>d</sup>	7.3	5.2	5.7	6.2	6.9	<0.0001
Stroke <sup>d</sup>	3.7	1.8	1.8	2.1	2.2	<0.0001
Anti-hypertension medication	21.2	15.6	17.8	19.7	20.6	<0.0001
Anti-diabetes medication	-	-	-	-	-	-
Total energy intake (Kcal/day) (Mean±SE)	1,711.3±2.8	1,647.4±2.7	1,748.8±2.5	1,834.4±2.4	1,933.9±3.0	<0.0001
Dietary intake (grams/day) (Mean±SE)						
Red meat	50.7±0.2	49.3±0.2	54.6±0.2	59.6±0.2	66.6±0.3	<0.0001
Chicken/duck	14.0±0.1	13.5±0.1	15.2±0.1	16.4±0.1	18.6±0.1	<0.0001
Seafood	46.8±0.3	45.4±0.3	49.7±0.2	53.7±0.2	58.8±0.3	<0.0001
Vegetables	291.2±1.1	267.5±1.0	303.8±1.0	337.8±1.0	378.3±1.3	<0.0001
Fruits	186.3±1.0	216.3±1.1	218.7±1.0	218.4±0.9	225.4±1.1	<0.0001
Family history of cancer	25.3	26.9	27.3	28.4	28.6	<0.0001
Peanuts (Mean±SE) (Range)	0.002±0.02 (0.0-0.07)	0.3±0.02 (0.15-0.65)	0.8±0.02 (0.7-1.31)	1.7±0.02 (1.05-2.54)	6.9±0.04 (2.6-132.5)	<0.0001
Metabolic conditions <sup>e</sup>	35.4	28.1	30.5	33.5	35.2	<0.0001

Abbreviations: MET: metabolic equivalent; SE: standard error

Nut/Peanut intake quintile cut-points (grams/day):

SMHS/SWHS data: Q1 (<0.14); Q2 (0.14- less than 0.72); Q3 (0.72-less than 1.45); Q4 (1.45-less than 2.54); Q5 (≥2.54)

<sup>a</sup>Income:

SMHS: low (<500 *yuan*/month per capita); lower-middle (500-999 *yuan*/moth per capita); upper-middle (1,000-1,999 *yuan*/month per capita); and high (>2,000 *yuan*/month per capita)

SWHS: low (<10,000 *yuan*/year per household); lower-middle (10,000-19,999 *yuan*/year per household); upper-middle (20,000-29,999 *yuan*/year per household); and high (≥30,000 *yuan*/year per household).

<sup>b</sup>Analysis in SMHS only.

<sup>c</sup>Charles comorbidity index: calculated based on number of existing chronic diseases.

<sup>d</sup>Self-reported.

<sup>e</sup>Metabolic condition: a person has one or more of the following conditions: history of hypertension, diabetes, history of heart disease, BMI≥30, unspecified dyslipidemia.

-: Data not available. Prevalence of disease conditions



**eTable 3. Association of Nut/Peanut Intake with Cause-specific Mortality, by Race/Ethnicity and Gender**

Causes of Death and Quintiles	Americans of African Descent (SCCS) <sup>a</sup>				Americans of European Descents (SCCS) <sup>a</sup>				Asian Ancestry (SMHS/SWHS) <sup>b</sup>			
	Men		Women		Men		Women		Men		Women	
	# of deaths	aHR (95% CI)	# of deaths	aHR (95% CI)	# of deaths	aHR (95% CI)	# of deaths	aHR (95% CI)	# of deaths	aHR (95% CI)	# of deaths	aHR (95% CI)
<b>Cancer</b>												
Quintile 1	105	Ref.	143	Ref.	45	Ref.	53	Ref.	390	Ref.	455	Ref.
Quintile 2	129	0.78 (0.59-1.02)	106	1.03 (0.78-1.35)	27	0.71 (0.41-1.23)	72	1.19 (0.81-1.75)	112	0.91 (0.72-1.13)	364	<b>0.87 (0.76-1.00)</b>
Quintile 3	84	<b>0.73 (0.54-0.99)</b>	91	0.99 (0.75-1.31)	43	0.70 (0.44-1.12)	60	1.07 (0.70-1.62)	212	0.88 (0.74-1.05)	434	0.83 (0.81-1.06)
Quintile 4	111	0.81 (0.61-1.08)	106	1.02 (0.77-1.34)	43	<b>0.61 (0.37-0.99)</b>	43	0.78 (0.49-1.24)	403	1.01 (0.88-1.17)	444	0.92 (0.81-1.06)
Quintile 5	111	<b>0.67 (0.50-0.90)</b>	66	0.83 (0.60-1.15)	78	0.79 (0.52-1.22)	35	1.03 (0.63-1.68)	375	0.96 (0.83-1.11)	343	0.97 (0.84-1.12)
P-trend		0.58		0.27		0.31		0.24		0.95		0.79
<b>CVD</b>												
Quintile 1	132	Ref.	190	Ref.	71	Ref.	62	Ref.	378	Ref.	445	Ref.
Quintile 2	184	0.87 (0.69-1.10)	115	0.84 (0.66-1.07)	39	0.96 (0.64-1.45)	60	0.75 (0.51-1.09)	107	0.94 (0.75-1.17)	257	<b>0.79 (0.67-0.92)</b>
Quintile 3	125	0.97 (0.75-1.25)	89	<b>0.69 (0.53-0.91)</b>	54	<b>0.60 (0.41-0.90)</b>	58	0.94 (0.64-1.37)	147	<b>0.70 (0.57-0.85)</b>	289	<b>0.78 (0.67-0.91)</b>
Quintile 4	135	0.82 (0.63-1.06)	101	0.83 (0.64-1.07)	57	<b>0.65 (0.44-0.96)</b>	44	0.71 (0.47-1.09)	226	<b>0.66 (0.56-0.79)</b>	283	<b>0.71 (0.61-0.83)</b>
Quintile 5	152	<b>0.72 (0.55-0.93)</b>	86	0.91 (0.68-1.22)	82	<b>0.67 (0.46-0.98)</b>	21	<b>0.54 (0.31-0.94)</b>	250	<b>0.78 (0.66-0.93)</b>	205	<b>0.72 (0.61-0.86)</b>
P-trend		<b>0.005</b>		0.95		0.15		<b>0.03</b>		<b>&lt;0.0001</b>		<b>&lt;0.0001</b>
<b>Ischemic Heart Disease</b>												
Quintile 1	52	Ref.	82	Ref.	37	Ref.	36	Ref.	100	Ref.	96	Ref.
Quintile 2	63	0.79 (0.53-1.16)	37	<b>0.59 (0.39-0.89)</b>	26	1.27 (0.74-2.18)	31	0.65 (0.39-1.09)	28	0.93 (0.60-1.44)	64	0.91 (0.66-1.26)
Quintile 3	58	1.22 (0.82-1.83)	39	0.76 (0.51-1.14)	33	0.74 (0.44-1.27)	28	0.74 (0.44-1.27)	37	<b>0.66 (0.44-0.97)</b>	67	0.83 (0.61-1.14)
Quintile 4	56	0.90 (0.60-1.36)	32	<b>0.61 (0.39-0.94)</b>	30	0.77 (0.45-1.32)	21	0.57 (0.31-1.04)	72	0.81 (0.59-1.10)	61	<b>0.70 (0.50-0.97)</b>
Quintile 5	53	<b>0.65 (0.43-1.00)</b>	29	0.66 (0.40-1.09)	39	0.67 (0.39-1.16)	11	0.58 (0.28-1.19)	69	0.80 (0.58-1.11)	37	<b>0.58 (0.39-0.87)</b>
P-trend		<b>0.05</b>		0.14		0.15		0.25		0.12		<b>0.002</b>
<b>Ischemic Stroke</b>												
Quintile 1	11	Ref.	17	Ref.	3	Ref.	6	Ref.	82	Ref.	106	Ref.
Quintile 2	16	1.10 (0.48-2.50)	5	0.58 (0.21-1.62)	1	0.73 (0.07-8.18)	2	0.23 (0.03-1.57)	28	1.22 (0.79-1.90)	60	0.80 (0.58-1.10)
Quintile 3	7	0.78 (0.28-2.14)	6	0.59 (0.21-1.67)	1	0.30 (0.03-3.31)	2	0.41 (0.06-2.97)	30	0.72 (0.47-1.10)	71	0.84 (0.62-1.14)
Quintile 4	7	0.65 (0.23-1.78)	10	1.18 (0.49-2.85)	3	0.70 (0.02-4.06)	2	0.22 (0.02-2.89)	42	<b>0.58 (0.39-0.86)</b>	68	<b>0.71 (0.52-0.97)</b>
Quintile 5	8	0.64 (0.24-1.73)	9	1.36 (0.53-3.53)	5	0.67 (0.12-3.83)	0	- <sup>  </sup>	52	0.79 (0.54-1.14)	49	0.72 (0.51-1.03)
P-trend		0.08		0.47		0.43		0.35		<b>0.02</b>		<b>0.03</b>
<b>Hemorrhagic Stroke</b>												
Quintile 1	3	Ref.	12	Ref.	3	Ref.	2	Ref.	75	Ref.	105	Ref.
Quintile 2	5	1.11 (0.26-4.75)	7	0.78 (0.30-2.01)	1	0.60 (0.05-7.78)	4	- <sup>  </sup>	33	1.38 (0.90-2.12)	62	<b>0.74 (0.54-1.01)</b>
Quintile 3	4	1.25 (0.27-5.86)	8	0.88 (0.35-2.19)	2	0.49 (0.05-4.76)	0	- <sup>  </sup>	37	0.85 (0.56-1.27)	60	<b>0.63 (0.44-0.86)</b>
Quintile 4	6	1.36 (0.30-6.04)	7	0.69 (0.26-1.81)	5	0.73 (0.09-5.91)	1	- <sup>  </sup>	49	0.74 (0.51-1.07)	68	<b>0.66 (0.49-0.91)</b>
Quintile 5	14	2.98 (0.76-11.58)	9	0.89 (0.35-2.26)	2	0.62 (0.06-6.14)	1	- <sup>  </sup>	51	0.80 (0.55-1.16)	57	0.77 (0.55-1.07)
P-trend		<b>0.02</b>		0.25		0.90		- <sup>  </sup>		<b>0.05</b>		<b>0.03</b>
<b>Other CVD</b>												
Quintile 1	44	Ref.	60	Ref.	26	Ref.	13	Ref.	121	Ref.	138	Ref.
Quintile 2	73	0.94 (0.64-1.38)	50	1.15 (0.18-1.69)	8	0.49 (0.22-1.12)	18	0.97 (0.46-2.04)	18	<b>0.48 (0.29-0.80)</b>	71	<b>0.72 (0.54-0.97)</b>
Quintile 3	39	0.79 (0.50-1.24)	29	0.63 (0.39-1.02)	14	<b>0.34 (0.16-0.74)</b>	20	1.63 (0.79-3.37)	43	<b>0.64 (0.44-0.91)</b>	91	0.83 (0.63-1.09)
Quintile 4	46	0.77 (0.50-1.19)	43	1.06 (0.70-1.61)	14	<b>0.38 (0.18-0.78)</b>	14	1.22 (0.55-2.71)	63	<b>0.55 (0.40-0.76)</b>	86	<b>0.74 (0.56-0.98)</b>
Quintile 5	51	<b>0.65 (0.42-1.00)</b>	27	0.96 (0.58-1.57)	26	<b>0.51 (0.27-0.98)</b>	7	0.73 (0.25-2.18)	78	0.77 (0.57-1.03)	62	0.79 (0.58-1.08)
P-trend		<b>0.04</b>		0.82		0.32		0.28		<b>0.02</b>		0.09
<b>Diabetes</b>												
Quintile 1	30	Ref.	40	Ref.	7	Ref.	11	Ref.	34	Ref.	108	Ref.
Quintile 2	30	0.65 (0.57-1.12)	27	1.02 (0.61-1.71)	5	1.73 (0.48-6.24)	10	0.75 (0.31-1.84)	13	1.43 (0.74-2.74)	50	<b>0.71 (0.51-1.00)</b>
Quintile 3	22	0.76 (0.42-1.39)	23	0.92 (0.53-1.59)	6	1.02 (0.28-3.71)	6	0.48 (0.16-1.43)	19	1.02 (0.56-1.85)	36	<b>0.48 (0.33-0.70)</b>
Quintile 4	22	0.61 (0.34-1.10)	25	0.96 (0.55-1.65)	14	2.15 (0.72-6.40)	10	0.92 (0.36-2.37)	25	0.86 (0.50-1.47)	71	0.91 (0.67-1.25)

Quintile 5	26	<b>0.54 (0.30-0.99)</b>	10	0.51 (0.24-1.10)	10	1.06 (0.33-3.45)	4	0.59 (0.17-2.07)	34	1.38 (0.83-2.30)	49	0.84 (0.59-1.20)
<i>P</i> -trend		0.70		<b>0.04</b>		0.86		0.97		0.58		0.38

Abbreviation: aHR: adjusted hazard ratio; CI: confidence interval; CVD: cardiovascular disease

Nut/Peanut intake quintile cut-points (grams/day):

SMHS/SWHS data (Peanut intake): Q1 (<0.14); Q2 (0.14- less than 0.72); Q3 (0.72-less than 1.45); Q4(1.45-less than 2.54); Q5 (≥2.54)

SCCS data (Total nut and peanut butter intake): Q1 (<0.95); Q2 (0.95-less than 3.08); Q3 (3.08-less than 7.30); Q4 (7.30-less than 18.45); Q5 (≥18.45)

Model adjusted for:

<sup>a</sup>Age, education, occupation, household income, marital status, smoking pack-years, alcohol consumption, BMI, physical activity, vitamin supplement use, Charles comorbidity index, metabolic conditions, total energy intake, red meat intake, chicken intake, seafood intake, vegetable intake, and fruit intake.

<sup>b</sup>Age, education, occupation, household income (SMHS) or income per capita (SWHS), smoking status, alcohol consumption (tertile-SMHS; ever/never-SWHS), BMI, physical activity, regular tea consumption, Charles comorbidity index, metabolic conditions, total energy intake, red meat intakes, chicken/duck intake, seafood intake, vegetable intake, and fruit intake.

<sup>c</sup>Small number, estimate could not be calculated.

Metabolic Condition: Participant had at least one of the following conditions: hypertension, obesity, history of heart disease, BMI≥30, unspecified dyslipidemia (SMHS and SWHS only) or hypercholesterolemia (SCCS only)

**eTable 4A. Sensitivity Analysis: Association of Nut and Peanut Butter Intake With Total Mortality in the SCCS and Peanut Intake with Total Mortality in the SMHS/SWHS (After Excluding Participants With a Follow-up Time of 2 Years of Less)**

	Total <sup>a</sup>		Men <sup>b</sup>		Women <sup>b</sup>	
	# of deaths	aHR (95% CI)	# of deaths	aHR (95% CI)	# deaths	aHR (95% CI)
<b>SCCS</b>						
<b>Americans of African &amp; European descent</b>						
<b>Total Nut and Peanut butter Intake</b>						
Total Mortality						
Quintile 1*	1,250	Ref.	526	Ref.	724	Ref.
Quintile 2	1,138	<b>0.87 (0.80-0.94)</b>	597	<b>0.86 (0.76-0.98)</b>	541	<b>0.87 (0.77-0.98)</b>
Quintile 3	928	<b>0.82 (0.74-0.89)</b>	487	<b>0.84 (0.73-0.96)</b>	441	<b>0.80 (0.70-0.91)</b>
Quintile 4	1,045	<b>0.83 (0.76-0.90)</b>	560	<b>0.79 (0.69-0.90)</b>	485	<b>0.88 (0.78-1.00)</b>
Quintile 5	1,005	<b>0.77 (0.70-0.85)</b>	681	<b>0.76 (0.67-0.86)</b>	324	<b>0.80 (0.69-0.92)</b>
P-trend		<b>&lt;0.001</b>		<b>0.003</b>		0.09
<b>Peanut Intake-- SMHS/SWHS</b>						
<b>Asian Ancestry</b>						
Total Mortality						
Quintile 1						
Quintile 2	2,120	Ref.	892	Ref.	1,228	Ref.
Quintile 3	1,040	<b>0.81 (0.75-0.88)</b>	247	<b>0.88 (0.76-1.02)</b>	793	<b>0.79 (0.72-0.86)</b>
Quintile 4	1,298	<b>0.79 (0.74-0.85)</b>	407	<b>0.77 (0.69-0.87)</b>	891	<b>0.80 (0.73-0.87)</b>
Quintile 5	1,656	<b>0.81 (0.76-0.87)</b>	722	<b>0.83 (0.75-0.92)</b>	934	<b>0.80 (0.73-0.87)</b>
P-trend	1,417	<b>0.84 (0.78-0.90)</b>	722	<b>0.87 (0.78-0.96)</b>	695	<b>0.82 (0.75-0.91)</b>
		<b>&lt;0.001</b>		<b>0.001</b>		<b>&lt;0.001</b>

Abbreviations: aHR: adjusted hazard ratio; CI: confidence interval

\*Nut/Peanut intake quintile cut-points (grams/day):

SMHS/SWHS data: Q1 (<0.14); Q2 (0.14- less than 0.72); Q3 (0.72-less than 1.45); Q4 (1.45-less than 2.54); Q5 (≥2.54)

SCCS data:

Total nuts & peanut butter: Q1 (<0.95); Q2 (0.95-less than 3.08); Q3 (3.08-less than 7.30); Q4 (7.30-less than 18.45); Q5 (≥18.45)

Nut only: Q1 (<0.36); Q2 (0.36-less than 0.66); Q3 (0.66-less than 4.14); Q4 (4.14-less than 8.63); Q5 (≥8.63)

Peanut butter only: Q1 (<0.19); Q2 (0.19-less than 0.59); Q3 (0.59-less than 2.18); Q4 (2.18-less than 6.32); Q5 (≥6.32)

Model adjusted for:

<sup>a</sup>Age, sex, race, education, occupation, household income, marital status, smoking pack-years, alcohol consumption, BMI, physical activity, vitamin supplement use, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken intake, seafood intake, vegetable intake, and fruit intake.

<sup>b</sup>Age, race, education, occupation, household income, marital status, smoking pack-years, alcohol consumption, BMI, physical activity, vitamin supplement use, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken intake, seafood intake, vegetable intake, and fruit intake.

<sup>c</sup>Age, sex, education, occupation, household income (SMHS) or income per capita (SWHS), smoking status, alcohol consumption (ever/never), BMI, physical activity, regular tea consumption, metabolic conditions\*\*, Charlson comorbidity index, total energy intake, red meat intake, chicken/duck intake, seafood intake, vegetable intake, and fruit intake.

<sup>d</sup>Age, education, occupation, household income (SMHS) or income per capita (SWHS), smoking status, alcohol consumption (tertile-SMHS; ever/never-SWHS), BMI, physical activity, regular tea consumption, metabolic conditions\*\*, Charlson comorbidity index, total energy intake, red meat intake, chicken/duck intake, seafood intake, vegetable intake, and fruit intake.

\*\*One or more of the following conditions: history of hypertension, diabetes, history of heart disease, BMI≥30, unspecified dyslipidemia (SMHS and SWHS only), or hypercholesterolemia (SCCS only)

**eTable 4B. Sensitivity Analysis: Association of Nut/Peanut Intake with Cause-specific Mortality, by Race/Ethnicity (After Excluding Participants With a Follow-up Time of 2 Years of Less)**

Causes of Death and Quintiles*	Americans of African Descent (SCCS) <sup>a</sup>		Americans of European Descent (SCCS) <sup>a</sup>		Asian Ancestry (SMHS/SWHS) <sup>b</sup>	
	# of Deaths	aHR (95% CI)	# of Deaths	aHR (95% CI)	# of Deaths	aHR (95% CI)
<b>Cancer</b>						
Quintile 1	208	Ref.	66	Ref.	845	Ref.
Quintile 2	202	0.95 (0.77-1.17)	61	0.91 (0.65-1.28)	476	0.91 (0.80-1.02)
Quintile 3	150	0.90 (0.72-1.13)	57	0.83 (0.59-1.17)	646	0.92 (0.83-1.03)
Quintile 4	184	0.94 (0.76-1.18)	55	<b>0.70 (0.49-1.00)</b>	847	0.98 (0.88-1.09)
Quintile 5	154	<b>0.78 (0.62-0.99)</b>	74	0.99 (0.70-1.40)	718	0.96 (0.87-1.08)
P-trend		0.58		0.51		0.86
<b>CVD</b>						
Quintile 1	280	Ref.	108	Ref.	823	Ref.
Quintile 2	249	<b>0.80 (0.67-0.96)</b>	88	0.90 (0.67-1.21)	364	<b>0.81 (0.71-0.93)</b>
Quintile 3	185	<b>0.80 (0.66-0.97)</b>	98	0.82 (0.61-1.11)	436	<b>0.76 (0.68-0.86)</b>
Quintile 4	209	<b>0.80 (0.66-0.98)</b>	87	<b>0.70 (0.51-0.96)</b>	509	<b>0.70 (0.62-0.78)</b>
Quintile 5	206	<b>0.75 (0.61-0.91)</b>	89	<b>0.69 (0.49-0.95)</b>	455	<b>0.77 (0.68-0.87)</b>
P-trend		<b>0.04</b>		<b>0.05</b>		<b>&lt;0.001</b>
<b>Ischemic Heart Disease</b>						
Quintile 1	115	Ref.	61	Ref.	179	Ref.
Quintile 2	83	<b>0.64 (0.48-0.86)</b>	50	0.92 (0.61-1.37)	87	0.93 (0.71-1.21)
Quintile 3	90	0.98 (0.74-1.32)	53	0.76 (0.50-1.14)	92	<b>0.72 (0.56-0.94)</b>
Quintile 4	79	<b>0.74 (0.54-1.00)</b>	44	0.66 (0.43-1.02)	117	<b>0.72 (0.57-0.91)</b>
Quintile 5	72	<b>0.61 (0.43-0.85)</b>	45	0.66 (0.42-1.03)	98	<b>0.71 (0.54-0.91)</b>
P-trend		<b>0.02</b>		0.17		<b>0.001</b>
<b>Ischemic Stroke</b>						
Quintile 1	23	Ref.	8	Ref.	174	Ref.
Quintile 2	18	0.99 (0.51-1.91)	2	0.29 (0.06-1.44)	87	0.93 (0.71-1.21)
Quintile 3	10	0.75 (0.34-1.63)	3	0.42 (0.10-1.71)	100	0.83 (0.65-1.07)
Quintile 4	16	1.02 (0.50-2.06)	4	0.37 (0.09-1.58)	108	<b>0.70 (0.55-0.90)</b>
Quintile 5	16	1.07 (0.51-2.21)	5	0.53 (0.13-2.14)	100	0.82 (0.64-1.06)
P-trend		0.58		0.58		<b>0.02</b>
<b>Hemorrhagic Stroke</b>						
Quintile 1	13	Ref.	4	Ref.	163	Ref.
Quintile 2	10	0.75 (0.32-1.74)	4	1.61 (0.32-8.10)	82	0.81 (0.62-1.06)
Quintile 3	10	0.90 (0.39-2.09)	1	0.15 (0.01-1.79)	90	<b>0.70 (0.54-0.91)</b>
Quintile 4	13	0.93 (0.41-2.10)	4	0.51 (0.08-3.43)	109	<b>0.69 (0.54-0.89)</b>
Quintile 5	19	1.31 (0.60-2.87)	3	0.74 (0.11-5.00)	96	<b>0.75 (0.57-0.97)</b>
P-trend		0.17		0.89		<b>0.006</b>
<b>Other CVD</b>						
Quintile 1	94	Ref.	31	Ref.	234	Ref.
Quintile 2	102	0.95 (0.71-1.27)	24	0.80 (0.46-1.42)	83	<b>0.65 (0.50-0.84)</b>
Quintile 3	56	<b>0.64 (0.45-0.91)</b>	31	1.00 (0.59-1.69)	131	<b>0.79 (0.64-0.99)</b>
Quintile 4	77	0.87 (0.63-1.20)	24	0.74 (0.41-1.31)	140	<b>0.67 (0.54-0.83)</b>
Quintile 5	68	0.75 (0.53-1.06)	26	0.69 (0.38-1.26)	131	<b>0.80 (0.64-1.00)</b>
P-trend		0.35		0.11		<b>0.01</b>
<b>Diabetes</b>						
Quintile 1	58	Ref.	16	Ref.	142	Ref.
Quintile 2	48	0.84 (0.56-1.27)	13	0.95 (0.44-2.06)	63	0.71 (0.52-0.98)
Quintile 3	42	0.93 (0.60-1.43)	12	0.69 (0.30-1.59)	55	<b>0.56 (0.40-0.78)</b>
Quintile 4	40	0.78 (0.50-1.22)	17	1.05 (0.50-2.19)	87	0.87 (0.66-1.14)
Quintile 5	33	<b>0.61 (0.37-0.99)</b>	13	0.73 (0.32-1.69)	92	0.99 (0.74-1.33)

P-trend

0.25

0.59

0.80

Abbreviation: aHR: adjusted hazard ratio; CI: confidence interval; CVD: cardiovascular disease

\*Nut/peanut intake quintile cut-points (grams/day):

SMHS/SWHS data (Peanut intake): Q1 (<0.14); Q2 (0.14- less than 0.72); Q3 (0.72-less than 1.45); Q4 (1.45-less than 2.54); Q5 ( $\geq$ 2.54)

SCCS data (Total nut and peanut butter intake): Q1 (<0.95); Q2 (0.95-less than 3.08); Q3 (3.08-less than 7.30); Q4 (7.30-less than 18.45); Q5 ( $\geq$ 18.45)

Model adjusted for:

<sup>a</sup>Age, sex, education, occupation, household income, marital status, smoking pack-years, alcohol consumption, BMI, physical activity, vitamin supplement use, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken intake, seafood intake, vegetable intake, and fruit intake.

<sup>b</sup>Age, sex, education, occupation, household income (SMHS) or income per capita (SWHS), smoking status, alcohol consumption (ever/never), BMI, physical activity, regular tea consumption, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken/duck intake, seafood intake, vegetable intake, and fruit intake.

\*\*One or more of the following conditions: history of hypertension, diabetes, history of heart disease, BMI $\geq$ 30, unspecified dyslipidemia (SMHS and SWHS only), or hypercholesterolemia (SCCS only)

**eTable 5A. Sensitivity Analysis: Association of Nut and Peanut Butter Intake With Total Mortality in SCCS and Peanut Intake With Total Mortality in the SMHS/SWHS (After Excluding Participants' Prior Hypertension Status)**

	Total <sup>a</sup>		Men <sup>b</sup>		Women <sup>b</sup>	
	# of deaths	aHR (95% CI)	# of deaths	aHR (95% CI)	# deaths	aHR (95% CI)
<b>SCCS</b>						
<b>Americans of African &amp; European descent</b>						
<b>Total Nut and Peanut butter Intake</b>						
Total Mortality						
Quintile 1*	1,146	Ref.	484	Ref.	662	Ref.
Quintile 2	1,054	<b>0.87 (0.79-0.95)</b>	556	<b>0.87 (0.76-0.99)</b>	498	<b>0.88 (0.77-0.99)</b>
Quintile 3	859	<b>0.82 (0.74-0.90)</b>	457	<b>0.86 (0.75-0.98)</b>	402	<b>0.79 (0.69-0.90)</b>
Quintile 4	949	<b>0.81 (0.73-0.88)</b>	516	<b>0.79 (0.69-0.90)</b>	433	<b>0.85 (0.74-0.97)</b>
Quintile 5	950	<b>0.77 (0.70-0.85)</b>	644	<b>0.76 (0.67-0.87)</b>	306	<b>0.81 (0.69-0.94)</b>
P-trend		<b>&lt;0.001</b>		<b>0.005</b>		0.10
<b>Peanut Intake -- SMHS/SWHS</b>						
<b>Asian Ancestry</b>						
Total Mortality						
Quintile 1	2,140	Ref.	899	Ref.	1,241	Ref.
Quintile 2	1,045	<b>0.81 (0.75-0.87)</b>	245	<b>0.87 (0.75-1.00)</b>	800	<b>0.79 (0.72-0.86)</b>
Quintile 3	1,295	<b>0.78 (0.73-0.84)</b>	401	<b>0.76 (0.67-0.85)</b>	894	<b>0.79 (0.72-0.86)</b>
Quintile 4	1,666	<b>0.81 (0.76-0.87)</b>	726	<b>0.83 (0.75-0.92)</b>	940	<b>0.80 (0.73-0.87)</b>
Quintile 5	1,417	<b>0.84 (0.78-0.90)</b>	718	<b>0.86 (0.78-0.96)</b>	699	<b>0.82 (0.75-0.91)</b>
P-trend		<b>&lt;0.001</b>		<b>0.001</b>		<b>&lt;0.001</b>

Abbreviations: aHR: adjusted hazard ratio; CI: confidence interval

\*Nut/Peanut intake quintile cut-points (grams/day):

SMHS/SWHS data: Q1 (<0.14); Q2 (0.14- less than 0.72); Q3 (0.72-less than 1.45); Q4 (1.45-less than 2.54); Q5 (≥2.54)

SCCS data:

Total nuts & peanut butter: Q1 (<0.95); Q2 (0.95-less than 3.08); Q3 (3.08-less than 7.30); Q4 (7.30-less than 18.45); Q5 (≥18.45)

Nut only: Q1 (<0.36); Q2 (0.36-less than 0.66); Q3 (0.66-less than 4.14); Q4 (4.14-less than 8.63); Q5 (≥8.63)

Peanut butter only: Q1 (<0.19); Q2 (0.19-less than 0.59); Q3 (0.59-less than 2.18); Q4 (2.18-less than 6.32); Q5 (≥6.32)

Model adjusted for:

<sup>a</sup>Age, sex, race, education, occupation, household income, marital status, smoking pack-years, alcohol consumption, BMI, physical activity, vitamin supplement use, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken intake, seafood intake, vegetable intake, and fruit intake.

<sup>b</sup>Age, race, education, occupation, household income, marital status, smoking pack-years, alcohol consumption, BMI, physical activity, vitamin supplement use, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken intake, seafood intake, vegetable intake, and fruit intake.

<sup>c</sup>Age, sex, education, occupation, household income (SMHS) or income per capita (SWHS), smoking status, alcohol consumption (ever/never), BMI, physical activity, regular tea consumption, metabolic conditions\*\*, Charlson comorbidity index, total energy intake, red meat intake, chicken/duck intake, seafood intake, vegetable intake, and fruit intake.

<sup>d</sup>Age, education, occupation, household income (SMHS) or income per capita (SWHS), smoking status, alcohol consumption (tertile-SMHS; ever/never-SWHS), BMI, physical activity, regular tea consumption, metabolic conditions\*\*, Charlson comorbidity index, total energy intake, red meat intake, chicken/duck intake, seafood intake, vegetable intake, and fruit intake.

\*\*One or more of the following conditions: history of hypertension, diabetes, history of heart disease, BMI $\geq$ 30, unspecified dyslipidemia (SMHS and SWHS only), or hypercholesterolemia (SCCS only)



**eTable 5B. Sensitivity Analysis: Association of Nut/Peanut Intake With Cause-Specific Mortality by Race/Ethnicity (After Excluding Participants' Prior Hypertension Status)**

Causes of Death and Quintiles*	Americans of African Descent (SCCS) <sup>a</sup>		Americans of European Descent (SCCS) <sup>a</sup>		Asian Ancestry (SMHS/SWHS) <sup>b</sup>	
	# of Deaths	aHR (95% CI)	# of Deaths	aHR (95% CI)	# of Deaths	aHR (95% CI)
<b>Cancer</b>						
Quintile 1	198	Ref.	84	Ref.	788	Ref.
Quintile 2	191	0.91 (0.74-1.13)	76	0.88 (0.63-1.23)	459	<b>0.90 (0.80-1.01)</b>
Quintile 3	131	0.82 (0.65-1.04)	84	0.83 (0.59-1.16)	607	<b>0.91 (0.82-1.01)</b>
Quintile 4	169	0.91 (0.73-1.14)	73	<b>0.60 (0.42-0.87)</b>	805	0.97 (0.88-1.08)
Quintile 5	144	<b>0.76 (0.60-0.97)</b>	94	0.88 (0.62-1.24)	678	0.97 (0.87-1.08)
P-trend		0.62		0.24		0.92
<b>CVD</b>						
Quintile 1	247	Ref.	93	Ref.	736	Ref.
Quintile 2	222	<b>0.80 (0.66-0.97)</b>	77	0.94 (0.68-1.30)	331	<b>0.80 (0.70-0.92)</b>
Quintile 3	158	<b>0.75 (0.61-0.93)</b>	89	0.89 (0.65-1.22)	401	<b>0.75 (0.67-0.85)</b>
Quintile 4	184	<b>0.78 (0.63-0.95)</b>	71	<b>0.67 (0.48-0.95)</b>	458	<b>0.69 (0.61-0.77)</b>
Quintile 5	185	<b>0.72 (0.58-0.89)</b>	87	0.77 (0.55-1.09)	412	<b>0.76 (0.67-0.87)</b>
P-trend		<b>0.03</b>		0.18		<b>&lt;0.001</b>
<b>Ischemic Heart Disease</b>						
Quintile 1	102	Ref.	53	Ref.	176	Ref.
Quintile 2	77	<b>0.66 (0.48-0.90)</b>	43	0.96 (0.62-1.47)	82	0.88 (0.67-1.15)
Quintile 3	77	0.91 (0.67-1.25)	49	0.86 (0.56-1.31)	90	<b>0.73 (0.56-0.94)</b>
Quintile 4	69	<b>0.71 (0.51-0.98)</b>	34	<b>0.56 (0.35-0.90)</b>	119	<b>0.75 (0.59-0.95)</b>
Quintile 5	62	<b>0.58 (0.41-0.82)</b>	44	0.70 (0.44-1.12)	97	<b>0.72 (0.55-0.93)</b>
P-trend		<b>0.01</b>		0.19		<b>0.003</b>
<b>Ischemic Stroke</b>						
Quintile 1	20	Ref.	6	Ref.	170	Ref.
Quintile 2	15	0.89 (0.44-1.81)	2	0.40 (0.07-2.23)	84	0.92 (0.70-1.20)
Quintile 3	10	0.80 (0.36-1.78)	3	0.60 (0.13-2.72)	97	<b>0.83 (0.64-1.06)</b>
Quintile 4	14	0.97 (0.46-2.03)	4	0.61 (0.13-2.88)	103	<b>0.68 (0.53-0.88)</b>
Quintile 5	13	0.85 (0.39-1.88)	4	0.66 (0.13-3.37)	92	<b>0.78 (0.60-1.02)</b>
P-trend		0.34		0.92		<b>0.006</b>
<b>Hemorrhagic Stroke</b>						
Quintile 1	11	Ref.	3	Ref.	151	Ref.
Quintile 2	9	0.77 (0.32-1.89)	2	1.31 (0.14-12.34)	78	0.81 (0.61-1.07)
Quintile 3	8	0.80 (0.31-2.01)	2	0.54 (0.05-5.88)	84	<b>0.69 (0.53-0.91)</b>
Quintile 4	11	0.82 (0.34-1.98)	2	0.35 (0.02-5.62)	99	<b>0.68 (0.52-0.88)</b>
Quintile 5	17	1.20 (0.52-2.76)	3	1.36 (0.13-13.73)	93	<b>0.78 (0.60-1.02)</b>
P-trend		0.41		0.48		<b>0.01</b>
<b>Other CVD</b>						
Quintile 1	80	Ref.	26	Ref.	239	Ref.
Quintile 2	89	0.98 (0.71-1.34)	23	0.91 (0.50-1.66)	87	<b>0.66 (0.52-0.85)</b>
Quintile 3	47	<b>0.62 (0.42-0.92)</b>	26	0.97 (0.54-1.74)	130	<b>0.77 (0.62-0.96)</b>
Quintile 4	70	0.91 (0.65-1.28)	25	0.97 (0.53-1.76)	137	<b>0.64 (0.52-0.80)</b>
Quintile 5	64	0.78 (0.54-1.13)	25	0.79 (0.41-1.51)	130	<b>0.78 (0.62-0.98)</b>
P-trend		0.64		0.24		<b>0.004</b>
<b>Diabetes</b>						
Quintile 1	45	Ref.	15	Ref.	128	Ref.
Quintile 2	41	0.94 (0.60-1.49)	12	0.94 (0.42-2.10)	54	0.75 (0.54-1.03)
Quintile 3	39	1.13 (0.71-1.81)	9	0.61 (0.25-1.50)	51	<b>0.59 (0.42-0.82)</b>
Quintile 4	29	0.73 (0.43-1.22)	15	1.00 (0.46-2.19)	89	0.92 (0.69-1.21)
Quintile 5	30	0.72 (0.42-1.24)	13	0.78 (0.33-1.84)	77	1.00 (0.74-1.34)

*P*-trend

0.56

0.72

0.95

Abbreviation: aHR: adjusted hazard ratio; CI: confidence interval; CVD: cardiovascular disease

\*Nut/peanut intake quintile cut-points (grams/day):

SMHS/SWHS data (Peanut intake): Q1 (<0.14); Q2 (0.14- less than 0.72); Q3 (0.72-less than 1.45); Q4 (1.45-less than 2.54); Q5 ( $\geq$ 2.54)

SCCS data (Total nut and peanut butter intake): Q1 (<0.95); Q2 (0.95-less than 3.08); Q3 (3.08-less than 7.30); Q4 (7.30-less than 18.45); Q5 ( $\geq$ 18.45)

Model adjusted for:

<sup>a</sup>Age, sex, education, occupation, household income, marital status, smoking pack-years, alcohol consumption, BMI, physical activity, vitamin supplement use, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken intake, seafood intake, vegetable intake, and fruit intake.

<sup>b</sup>Age, sex, education, occupation, household income (SMHS) or income per capita (SWHS), smoking status, alcohol consumption (ever/never), BMI, physical activity, regular tea consumption, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken/duck intake, seafood intake, vegetable intake, and fruit intake.

\*\*One or more of the following conditions: history of hypertension, diabetes, history of heart disease, BMI $\geq$ 30, unspecified dyslipidemia (SMHS and SWHS only), or hypercholesterolemia (SCCS only)

**eTable 6A. Sensitivity Analysis: Association of Nut and Peanut Butter Intake With Total Mortality in SCCS and Peanut Intake With Total Mortality in the SMHS, SWHS (After Excluding Participants' Prior Diabetes Status)**

	Total <sup>a</sup>		Men <sup>b</sup>		Women <sup>b</sup>	
	# of deaths	aHR (95% CI)	# of deaths	aHR (95% CI)	# deaths	aHR (95% CI)
<b>SCCS</b>						
<b>Americans of African &amp; European descent</b>						
<b>Total Nut and Peanut butter Intake</b>						
Total Mortality						
Quintile 1*	1,302	Ref.	556	Ref.	746	Ref.
Quintile 2	1,194	<b>0.85 (0.79-0.93)</b>	637	<b>0.85 (0.75-0.96)</b>	557	<b>0.86 (0.77-0.97)</b>
Quintile 3	979	<b>0.81 (0.74-0.88)</b>	528	<b>0.84 (0.74-0.96)</b>	451	<b>0.77 (0.68-0.88)</b>
Quintile 4	1,070	<b>0.79 (0.72-0.86)</b>	580	<b>0.75 (0.66-0.85)</b>	490	<b>0.84 (0.74-0.95)</b>
Quintile 5	1,028	<b>0.73 (0.66-0.80)</b>	697	<b>0.72 (0.63-0.81)</b>	331	<b>0.75 (0.65-0.87)</b>
P-trend		<b>&lt;0.001</b>		<b>&lt;0.001</b>		<b>0.005</b>
<b>Peanut Intake – SMHS/SWHS</b>						
	Total <sup>c</sup>		Men <sup>d</sup>		Women <sup>d</sup>	
	# of deaths	aHR (95% CI)	# of deaths	aHR (95% CI)	# deaths	aHR (95% CI)
<b>Asian Ancestry</b>						
Total Mortality						
Quintile 1	2,263	Ref.	997	Ref.	1,266	Ref.
Quintile 2	1,095	<b>0.81 (0.75-0.87)</b>	274	<b>0.87 (0.76-1.00)</b>	821	<b>0.79 (0.72-0.86)</b>
Quintile 3	1,363	<b>0.78 (0.73-0.84)</b>	446	<b>0.76 (0.68-0.85)</b>	917	<b>0.79 (0.73-0.86)</b>
Quintile 4	1,744	<b>0.80 (0.75-0.86)</b>	789	<b>0.82 (0.74-0.90)</b>	955	<b>0.80 (0.73-0.87)</b>
Quintile 5	1,473	<b>0.82 (0.77-0.88)</b>	760	<b>0.83 (0.75-0.91)</b>	713	<b>0.82 (0.75-0.90)</b>
P-trend		<b>&lt;0.001</b>		<b>&lt;0.001</b>		<b>&lt;0.001</b>

Abbreviations: aHR: adjusted hazard ratio; CI: confidence interval

\*Nut/Peanut intake quintile cut-points (grams/day):

SMHS/SWHS data: Q1 (<0.14); Q2 (0.14- less than 0.72); Q3 (0.72-less than 1.45); Q4 (1.45-less than 2.54); Q5 (≥2.54)

SCCS data:

Total nuts & peanut butter: Q1 (<0.95); Q2 (0.95-less than 3.08); Q3 (3.08-less than 7.30); Q4 (7.30-less than 18.45); Q5 (≥18.45)

Nut only: Q1 (<0.36); Q2 (0.36-less than 0.66); Q3 (0.66-less than 4.14); Q4 (4.14-less than 8.63); Q5 (≥8.63)

Peanut butter only: Q1 (<0.19); Q2 (0.19-less than 0.59); Q3 (0.59-less than 2.18); Q4 (2.18-less than 6.32); Q5 (≥6.32)

Model adjusted for:

<sup>a</sup>Age, sex, race, education, occupation, household income, marital status, smoking pack-years, alcohol consumption, BMI, physical activity, vitamin supplement use, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken intake, seafood intake, vegetable intake, and fruit intake.

<sup>b</sup>Age, race, education, occupation, household income, marital status, smoking pack-years, alcohol consumption, BMI, physical activity, vitamin supplement use, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken intake, seafood intake, vegetable intake, and fruit intake.

<sup>c</sup>Age, sex, education, occupation, household income (SMHS) or income per capita (SWHS), smoking status, alcohol consumption (ever/never), BMI, physical activity, regular tea consumption, metabolic conditions\*\*, Charlson comorbidity index, total energy intake, red meat intake, chicken/duck intake, seafood intake, vegetable intake, and fruit intake.

<sup>d</sup>Age, education, occupation, household income (SMHS) or income per capita (SWHS), smoking status, alcohol consumption (tertile-SMHS; ever/never-SWHS), BMI, physical activity, regular tea consumption, metabolic conditions\*\*, Charlson comorbidity index, total energy intake, red meat intake, chicken/duck intake, seafood intake, vegetable intake, and fruit intake.

\*\*One or more of the following conditions: history of hypertension, diabetes, history of heart disease, BMI $\geq$ 30, unspecified dyslipidemia (SMHS and SWHS only), or hypercholesterolemia (SCCS only)

**eTable 6B. Sensitivity Analysis: Association of Nut/Peanut Intake with Cause-specific Mortality, by Race/Ethnicity (After Excluding Participants' Prior Diabetes Status)**

Causes of Death and Quintiles*	Americans of African Descent (SCCS) <sup>a</sup>		Americans of European Descent (SCCS) <sup>a</sup>		Asian Ancestry (SMHS/SWHS) <sup>b</sup>	
	# of Deaths	aHR (95% CI)	# of Deaths	aHR (95% CI)	# of Deaths	aHR (95% CI)
<b>Cancer</b>						
Quintile 1	231	Ref.	93	Ref.	831	Ref.
Quintile 2	213	0.86 (0.70-1.05)	90	0.91 (0.66-1.24)	471	<b>0.89 (0.79-1.00)</b>
Quintile 3	160	0.83 (0.67-1.03)	98	0.87 (0.63-1.19)	639	<b>0.91 (0.82-1.02)</b>
Quintile 4	198	0.87 (0.70-1.07)	79	<b>0.62 (0.44-0.88)</b>	839	0.97 (0.88-1.07)
Quintile 5	164	<b>0.72 (0.58-0.91)</b>	104	0.89 (0.64-1.25)	701	0.95 (0.86-1.06)
P-trend		0.14		0.14		0.67
<b>CVD</b>						
Quintile 1	287	Ref.	114	Ref.	799	Ref.
Quintile 2	265	<b>0.82 (0.69-0.97)</b>	88	0.87 (0.65-1.16)	356	<b>0.81 (0.71-0.92)</b>
Quintile 3	189	<b>0.77 (0.63-0.93)</b>	103	0.80 (0.60-1.07)	424	<b>0.74 (0.66-0.83)</b>
Quintile 4	208	<b>0.75 (0.62-0.90)</b>	85	<b>0.63 (0.46-0.85)</b>	491	<b>0.68 (0.60-0.76)</b>
Quintile 5	203	<b>0.67 (0.55-0.82)</b>	94	<b>0.65 (0.47-0.89)</b>	439	<b>0.75 (0.66-0.84)</b>
P-trend		<b>0.001</b>		<b>0.04</b>		<b>&lt;0.001</b>
<b>Ischemic Heart Disease</b>						
Quintile 1	118	Ref.	63	Ref.	186	Ref.
Quintile 2	83	<b>0.61 (0.45-0.82)</b>	48	0.89 (0.60-1.32)	90	0.94 (0.72-1.21)
Quintile 3	89	0.93 (0.69-1.24)	56	0.77 (0.52-1.15)	99	<b>0.76 (0.59-0.97)</b>
Quintile 4	76	<b>0.68 (0.50-0.93)</b>	42	<b>0.59 (0.38-0.91)</b>	127	<b>0.75 (0.60-0.95)</b>
Quintile 5	69	<b>0.57 (0.41-0.79)</b>	46	<b>0.62 (0.40-0.97)</b>	99	<b>0.69 (0.53-0.89)</b>
P-trend		<b>0.006</b>		0.13		<b>&lt;0.001</b>
<b>Ischemic Stroke</b>						
Quintile 1	21	Ref.	7	Ref.	183	Ref.
Quintile 2	19	1.06 (0.55-2.04)	3	0.48 (0.11-2.06)	87	0.88 (0.68-1.15)
Quintile 3	11	0.78 (0.36-1.73)	3	0.48 (0.11-2.04)	99	<b>0.78 (0.61-1.01)</b>
Quintile 4	15	1.03 (0.51-2.11)	4	0.48 (0.11-2.12)	109	<b>0.67 (0.52-0.85)</b>
Quintile 5	14	0.89 (0.42-1.90)	5	0.84 (0.20-3.51)	98	<b>0.76 (0.58-0.98)</b>
P-trend		0.29		0.95		<b>0.002</b>
<b>Hemorrhagic Stroke</b>						
Quintile 1	15	Ref.	3	Ref.	177	Ref.
Quintile 2	11	0.70 (0.32-1.54)	4	2.75 (0.44-17.21)	91	0.84 (0.65-1.09)
Quintile 3	10	0.83 (0.32-1.65)	2	0.64 (0.08-5.49)	93	<b>0.67 (0.52-0.86)</b>
Quintile 4	12	0.67 (0.30-1.51)	4	0.75 (0.09-6.24)	111	<b>0.65 (0.51-0.83)</b>
Quintile 5	19	1.02 (0.48-2.15)	3	1.23 (0.16-9.48)	104	<b>0.74 (0.58-0.96)</b>
P-trend		0.32		0.90		<b>0.001</b>
<b>Other CVD</b>						
Quintile 1	96	Ref.	35	Ref.	253	Ref.
Quintile 2	112	1.00 (0.76-1.34)	25	0.72 (0.42-1.24)	88	<b>0.64 (0.50-0.82)</b>
Quintile 3	59	<b>0.64 (0.45-0.90)</b>	33	0.86 (0.52-1.43)	133	<b>0.75 (0.60-0.93)</b>
Quintile 4	81	0.83 (0.61-1.14)	26	0.66 (0.38-1.15)	144	<b>0.64 (0.52-0.79)</b>
Quintile 5	68	<b>0.66 (0.47-0.94)</b>	28	0.57 (0.32-1.02)	138	<b>0.79 (0.63-0.98)</b>
P-trend		0.06		0.06		<b>0.004</b>
<b>Diabetes</b>						
Quintile 1	44	Ref.	13	Ref.	123	Ref.
Quintile 2	44	1.02 (0.65-1.60)	11	0.94 (0.41-2.18)	52	0.74 (0.53-1.03)
Quintile 3	37	1.06 (0.66-1.70)	10	0.73 (0.30-1.77)	48	<b>0.56 (0.40-0.80)</b>
Quintile 4	31	0.77 (0.47-1.29)	13	0.91 (0.40-2.06)	84	0.89 (0.67-1.18)
Quintile 5	27	0.63 (0.36-1.09)	13	0.79 (0.33-1.89)	76	1.01 (0.74-1.36)

P-trend

0.32

0.66

0.92

Abbreviation: aHR: adjusted hazard ratio; CI: confidence interval; CVD: cardiovascular disease

\*Nut/peanut intake quintile cut-points (grams/day):

SMHS/SWHS data (Peanut intake): Q1 (<0.14); Q2 (0.14- less than 0.72); Q3 (0.72-less than 1.45); Q4 (1.45-less than 2.54); Q5 ( $\geq$ 2.54)

SCCS data (Total nut and peanut butter intake): Q1 (<0.95); Q2 (0.95-less than 3.08); Q3 (3.08-less than 7.30); Q4 (7.30-less than 18.45); Q5 ( $\geq$ 18.45)

Model adjusted for:

<sup>a</sup>Age, sex, education, occupation, household income, marital status, smoking pack-years, alcohol consumption, BMI, physical activity, vitamin supplement use, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken intake, seafood intake, vegetable intake, and fruit intake.

<sup>b</sup>Age, sex, education, occupation, household income (SMHS) or income per capita (SWHS), smoking status, alcohol consumption (ever/never), BMI, physical activity, regular tea consumption, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken/duck intake, seafood intake, vegetable intake, and fruit intake.

\*\*One or more of the following conditions: history of hypertension, diabetes, history of heart disease, BMI $\geq$ 30, unspecified dyslipidemia (SMHS and SWHS only), or hypercholesterolemia (SCCS only)

**eTable 7A. Sensitivity Analysis: Association of Nut and Peanut Butter Intake with Total Mortality in SCCS and Peanut Intake with Total Mortality in the SMHS/SWHS (After Excluding Participants' Prior Ischemic Heart Disease Status)**

	Total <sup>a</sup>		Men <sup>b</sup>		Women <sup>b</sup>	
	# of deaths	aHR (95% CI)	# of deaths	aHR (95% CI)	# deaths	aHR (95% CI)
<b>SCCS</b>						
<b>Americans of African &amp; European descent</b>						
<b>Total Nut and Peanut butter Intake</b>						
Total Mortality						
Quintile 1*	1,393	Ref.	591	Ref.	802	Ref.
Quintile 2	1,276	<b>0.86 (0.79-0.93)</b>	664	<b>0.84 (0.74-0.94)</b>	612	<b>0.89 (0.79-0.99)</b>
Quintile 3	1,032	<b>0.80 (0.74-0.88)</b>	546	<b>0.83 (0.73-0.94)</b>	486	<b>0.78 (0.69-0.88)</b>
Quintile 4	1,144	<b>0.80 (0.74-0.87)</b>	612	<b>0.76 (0.67-0.86)</b>	532	<b>0.86 (0.76-0.97)</b>
Quintile 5	1,102	<b>0.75 (0.68-0.82)</b>	743	<b>0.73 (0.64-0.82)</b>	359	<b>0.78 (0.68-0.90)</b>
P-trend		<b>&lt;0.001</b>		<b>&lt;0.001</b>		<b>0.02</b>
<b>Peanut Intake – SMHS/SWHS</b>						
<b>Asian Ancestry</b>						
Total Mortality						
Quintile 1	2,271	Ref.	999	Ref.	1,272	Ref.
Quintile 2	1,102	<b>0.81 (0.76-0.88)</b>	277	<b>0.88 (0.77-1.01)</b>	825	<b>0.79 (0.73-0.87)</b>
Quintile 3	1,371	<b>0.78 (0.73-0.84)</b>	452	<b>0.77 (0.68-0.86)</b>	919	<b>0.80 (0.73-0.87)</b>
Quintile 4	1,741	<b>0.80 (0.75-0.86)</b>	788	<b>0.81 (0.74-0.90)</b>	953	<b>0.80 (0.73-0.87)</b>
Quintile 5	1,471	<b>0.82 (0.77-0.88)</b>	755	<b>0.82 (0.74-0.91)</b>	716	<b>0.83 (0.75-0.91)</b>
P-trend		<b>&lt;0.001</b>		<b>&lt;0.001</b>		<b>&lt;0.001</b>

Abbreviations: aHR: adjusted hazard ratio; CI: confidence interval

\*Nut/Peanut intake quintile cut-points (grams/day):

SMHS/SWHS data: Q1 (<0.14); Q2 (0.14- less than 0.72); Q3 (0.72-less than 1.45); Q4 (1.45-less than 2.54); Q5 (≥2.54)

SCCS data:

Total nuts & peanut butter: Q1 (<0.95); Q2 (0.95-less than 3.08); Q3 (3.08-less than 7.30); Q4 (7.30-less than 18.45); Q5 (≥18.45)

Nut only: Q1 (<0.36); Q2 (0.36-less than 0.66); Q3 (0.66-less than 4.14); Q4 (4.14-less than 8.63); Q5 (≥8.63)

Peanut butter only: Q1 (<0.19); Q2 (0.19-less than 0.59); Q3 (0.59-less than 2.18); Q4 (2.18-less than 6.32); Q5 (≥6.32)

Model adjusted for:

<sup>a</sup>Age, sex, race, education, occupation, household income, marital status, smoking pack-years, alcohol consumption, BMI, physical activity, vitamin supplement use, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken intake, seafood intake, vegetable intake, and fruit intake.

<sup>b</sup>Age, race, education, occupation, household income, marital status, smoking pack-years, alcohol consumption, BMI, physical activity, vitamin supplement use, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken intake, seafood intake, vegetable intake, and fruit intake.

<sup>c</sup>Age, sex, education, occupation, household income (SMHS) or income per capita (SWHS), smoking status, alcohol consumption (ever/never), BMI, physical activity, regular tea consumption, metabolic conditions\*\*, Charlson comorbidity index, total energy intake, red meat intake, chicken/duck intake, seafood intake, vegetable intake, and fruit intake.

<sup>d</sup>Age, education, occupation, household income (SMHS) or income per capita (SWHS), smoking status, alcohol consumption (tertile-SMHS; ever/never-SWHS), BMI, physical activity, regular tea consumption, metabolic conditions\*\*, Charlson comorbidity index, total energy intake, red meat intake, chicken/duck intake, seafood intake, vegetable intake, and fruit intake.

\*\*One or more of the following conditions: history of hypertension, diabetes, history of heart disease, BMI $\geq$ 30, unspecified dyslipidemia (SMHS and SWHS only), or hypercholesterolemia (SCCS only)



**eTable 7B. Sensitivity Analysis: Association of Nut/Peanut Intake with Cause-specific Mortality, by Race/Ethnicity (After Excluding Participants' Prior Ischemic Heart Disease Status)**

Causes of Death and Quintiles*	Americans of African Descent (SCCS) <sup>a</sup>		Americans of European Descent (SCCS) <sup>a</sup>		Asian Ancestry (SMHS/SWHS) <sup>b</sup>	
	# of Deaths	aHR (95% CI)	# of Deaths	aHR (95% CI)	# of Deaths	aHR (95% CI)
<b>Cancer</b>						
Quintile 1	240	Ref.	93	Ref.	833	Ref.
Quintile 2	230	0.90 (0.74-1.09)	92	0.95 (0.70-1.30)	473	<b>0.89 (0.79-1.00)</b>
Quintile 3	174	0.88 (0.71-1.08)	96	0.87 (0.63-1.19)	639	<b>0.91 (0.82-1.01)</b>
Quintile 4	211	0.92 (0.75-1.12)	82	<b>0.66 (0.47-0.93)</b>	828	0.95 (0.86-1.05)
Quintile 5	175	<b>0.77 (0.61-0.95)</b>	108	0.94 (0.68-1.31)	703	0.95 (0.85-1.05)
<i>P</i> -trend		<b>0.36</b>		0.26		0.54
<b>CVD</b>						
Quintile 1	303	Ref.	115	Ref.	790	Ref.
Quintile 2	277	<b>0.82 (0.69-0.97)</b>	92	0.86 (0.64-1.15)	356	<b>0.82 (0.72-0.93)</b>
Quintile 3	199	<b>0.79 (0.65-0.95)</b>	98	<b>0.72 (0.54-0.97)</b>	424	<b>0.75 (0.66-0.85)</b>
Quintile 4	221	<b>0.79 (0.66-0.95)</b>	87	<b>0.62 (0.46-0.84)</b>	493	<b>0.69 (0.61-0.77)</b>
Quintile 5	226	<b>0.76 (0.62-0.92)</b>	99	<b>0.68 (0.50-0.93)</b>	433	<b>0.75 (0.66-0.84)</b>
<i>P</i> -trend		<b>0.04</b>		0.09		<b>&lt;0.001</b>
<b>Ischemic Heart Disease</b>						
Quintile 1	128	Ref.	60	Ref.	182	Ref.
Quintile 2	89	<b>0.61 (0.46-0.81)</b>	53	0.95 (0.65-1.41)	90	0.96 (0.74-1.24)
Quintile 3	90	0.90 (0.68-1.19)	53	0.73 (0.49-1.09)	101	<b>0.79 (0.62-1.01)</b>
Quintile 4	80	<b>0.68 (0.50-0.92)</b>	43	<b>0.61 (0.40-0.94)</b>	127	<b>0.77 (0.61-0.98)</b>
Quintile 5	75	<b>0.58 (0.42-0.80)</b>	48	0.69 (0.45-1.08)	101	<b>0.72 (0.56-0.93)</b>
<i>P</i> -trend		<b>0.008</b>		0.21		<b>0.003</b>
<b>Ischemic Stroke</b>						
Quintile 1	27	Ref.	8	Ref.	182	Ref.
Quintile 2	19	0.84 (0.45-1.56)	3	0.46 (0.11-1.87)	87	0.90 (0.70-1.17)
Quintile 3	12	0.68 (0.33-1.42)	3	0.45 (0.11-1.84)	98	<b>0.79 (0.61-1.01)</b>
Quintile 4	17	0.92 (0.47-1.78)	4	0.39 (0.09-1.64)	109	<b>0.68 (0.53-0.87)</b>
Quintile 5	17	0.98 (0.50-1.95)	4	0.43 (0.10-1.90)	101	<b>0.78 (0.61-1.01)</b>
<i>P</i> -trend		0.58		0.50		<b>0.005</b>
<b>Hemorrhagic Stroke</b>						
Quintile 1	14	Ref.	4	Ref.	175	Ref.
Quintile 2	12	0.81 (0.37-1.77)	4	1.45 (0.30-6.95)	90	0.85 (0.65-1.10)
Quintile 3	11	0.87 (0.39-1.95)	2	0.42 (0.06-2.75)	93	<b>0.68 (0.53-0.88)</b>
Quintile 4	13	0.83 (0.37-1.83)	6	1.00 (0.20-4.98)	115	<b>0.69 (0.54-0.87)</b>
Quintile 5	22	1.34 (0.64-2.80)	3	0.94 (0.16-5.61)	101	<b>0.73 (0.57-0.95)</b>
<i>P</i> -trend		<b>0.02</b>		0.95		<b>0.002</b>
<b>Other CVD</b>						
Quintile 1	97	Ref.	36	Ref.	257	Ref.
Quintile 2	116	1.04 (0.79-1.38)	25	0.71 (0.41-1.22)	89	<b>0.65 (0.51-0.83)</b>
Quintile 3	63	<b>0.70 (0.50-0.98)</b>	29	0.70 (0.41-1.19)	132	<b>0.74 (0.60-0.92)</b>
Quintile 4	83	0.90 (0.66-1.23)	25	0.62 (0.36-1.07)	142	<b>0.64 (0.51-0.79)</b>
Quintile 5	76	0.78 (0.56-1.09)	32	0.67 (0.38-1.17)	132	<b>0.75 (0.60-0.94)</b>
<i>P</i> -trend		0.19		0.19		<b>0.001</b>
<b>Diabetes</b>						
Quintile 1	65	Ref.	17	Ref.	139	Ref.
Quintile 2	52	0.81 (0.55-1.21)	14	1.00 (0.47-2.12)	59	0.77 (0.56-1.05)
Quintile 3	43	0.88 (0.58-1.33)	11	0.61 (0.26-1.43)	54	<b>0.59 (0.43-0.81)</b>
Quintile 4	43	0.79 (0.52-1.20)	20	1.15 (0.56-2.37)	93	0.90 (0.69-1.18)

Quintile 5	35	<b>0.61 (0.38-0.97)</b>	13	0.72 (0.31-1.67)	79	0.97 (0.72-1.30)
<i>P</i> -trend		0.23		0.54		0.73

Abbreviation: aHR: adjusted hazard ratio; CI: confidence interval; CVD: cardiovascular disease

\*Nut/peanut intake quintile cut-points (grams/day):

SMHS/SWHS data (Peanut intake): Q1 (<0.14); Q2 (0.14- less than 0.72); Q3 (0.72-less than 1.45); Q4 (1.45-less than 2.54); Q5 (≥2.54)

SCCS data (Total nut and peanut butter intake): Q1 (<0.95); Q2 (0.95-less than 3.08); Q3 (3.08-less than 7.30); Q4 (7.30-less than 18.45); Q5 (≥18.45)

Model adjusted for:

<sup>a</sup>Age, sex, education, occupation, household income, marital status, smoking pack-years, alcohol consumption, BMI, physical activity, vitamin supplement use, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken intake, seafood intake, vegetable intake, and fruit intake.

<sup>b</sup>Age, sex, education, occupation, household income (SMHS) or income per capita (SWHS), smoking status, alcohol consumption (ever/never), BMI, physical activity, regular tea consumption, Charlson comorbidity index, metabolic conditions\*\*, total energy intake, red meat intake, chicken/duck intake, seafood intake, vegetable intake, and fruit intake.

\*\*One or more of the following conditions: history of hypertension, diabetes, history of heart disease, BMI≥30, unspecified dyslipidemia (SMHS and SWHS only), or hypercholesterolemia (SCCS only)