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Supplementary file

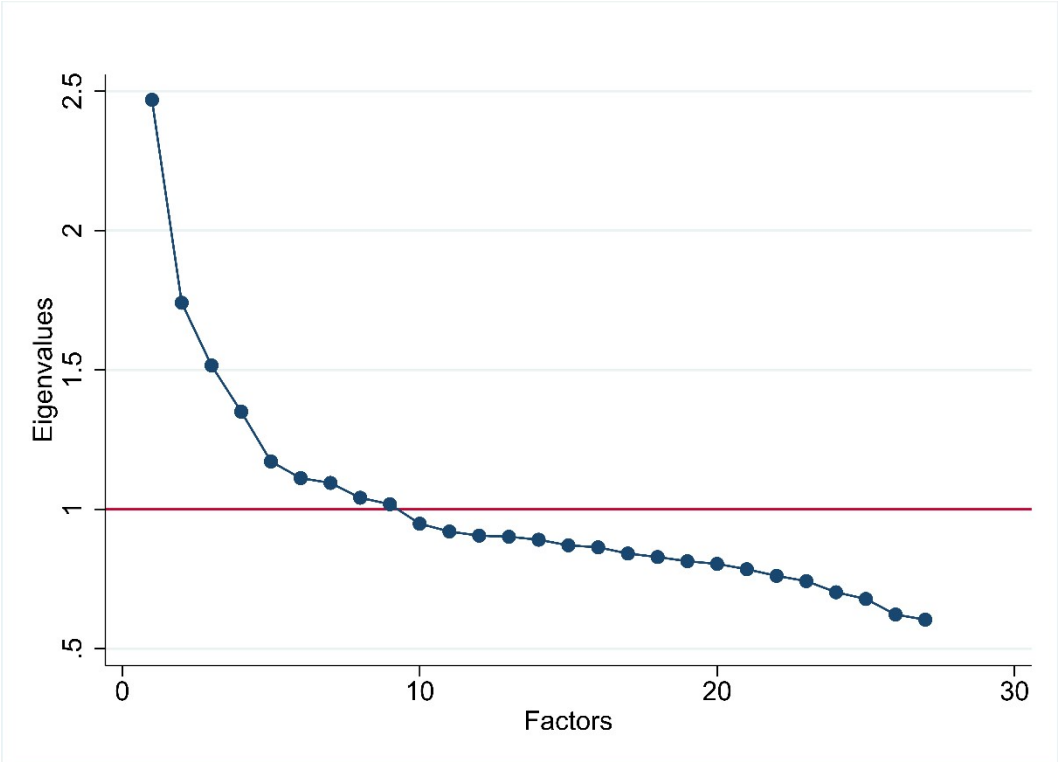
Supplementary Table 1 Food groups used in the dietary analysis
Supplementary Figure 1 Scree plot for factor analysis with 27 food groups
Supplementary Figure 2 Flowchart showing selection of participants included in the present analysis from Guangzhou Biobank Cohort Study
Supplementary Table 2 Association of dietary pattern scores with cancer-specific and CVD-specific mortality
Supplementary Table 3 Food and nutrient intake across quartiles of dietary patterns derived by principal component analysis
Supplementary Table 4 Association of dietary pattern scores with all-cause, cancer, CVD and other-cause mortality by excluding deaths during first three years follow-up
Supplementary Table 5 Association of dietary pattern scores with cancer-specific and CVD-specific mortality by excluding deaths during first three years follow-up
Supplementary Table 6 Association of dietary pattern scores with all-cause, cancer, CVD and other-cause mortality by further adjusting for the aspirin or other antiplatelet medications regularly
Supplementary Table 7 Association of dietary pattern scores with cancer-specific and CVD-specific mortality by further adjusting for the aspirin or other antiplatelet medications regularly
Supplementary Figure 3 Association of vegetable-based dietary pattern score with mortality of all-cause, cancer and CVD by subgroup
Supplementary Figure 4 Association of healthy Cantonese dietary pattern scores with mortality of all-cause, cancer and CVD by subgroup
Supplementary Figure 5 Association of unhealthy western dietary pattern scores with mortality of all-cause, cancer and CVD by subgroup
Supplementary Figure 6 Association of nut and fruit dietary pattern scores with mortality of all-cause, cancer and CVD by subgroup

Supplementary Table 1 Food groups used in the dietary analysis *

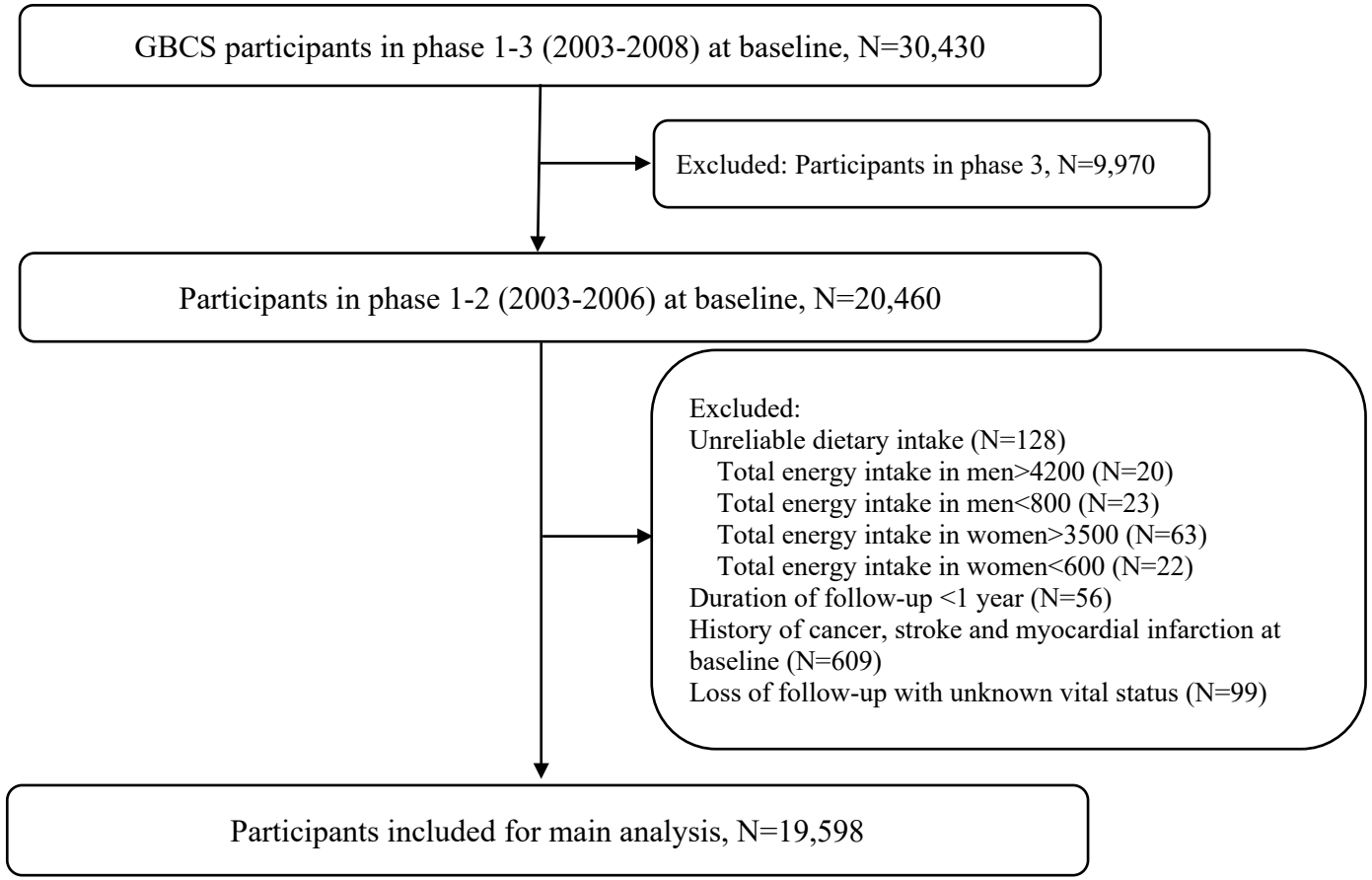
No.	Food group	Food item
1	Whole grain	Oatmeal; corn flake; whole wheat bread; sweet corn; canned sweet corn
2	Refined grain	Cooked rice; soft rice; congee; mixed rice congee; wheat noodle; instant noodle; flattened rice noodle; mann-tau; plain roll; bread; sweet roll; croissant; yau-char-kwai; cream cracker; semi-sweet biscuit; chocolate coated biscuit; cookies; walnut short cake; spongy cake; madeira cake
3	Green vegetables	Chinese flowering cabbage; Chinese cabbage; Chinese kale; broccoli; lettuce; Chinese spinach; Chinese chives; cabbage; watercress; water spanish; asparagus; celery; spinach; pea shoot; mustard green; hairy melon; cucumber; bitter; angled loofah; turnips (green); green pepper; preserved radish
4	Orange/yellow vegetables	Cauliflower; pumpkin; carrot
5	Red/purple vegetables	Tomato; red pepper
6	White vegetables	Winter melon; eggplant; onion; radish; water chestnut; lotus root; sprout mungbean; soybean sprout; fresh mushroom; dried mushroom; canned mushroom; white fungus; wood fungus
7	Starchy vegetables	Sweet potato; potato (baked/boiled); potato chips; potato crisps; hash brown
8	Legume	Fresh soybean; red bean; brow bean; lentil; snap bean; snow bean; pea; string bean
9	Orange/yellow fruits	Orange; honeydew melon; mango; papaya; pineapple; lemon; pomelo; persimmon; kiwifruit; peach
10	Red/purple fruits	Grape fruit; strawberry; watermelon; prune; apricot; grapes; cherry; raspberries; dried raisin; dried date
11	Fishes	Grass fish; big head fish; mud carp dace fish; eel; Japanese eel; blace; golden thread fish; snakehead fish; carp; cat fish; garouper; mackerel; ribbon fish; big eye fish; fish ball; fish cake; mud carp ball; cod fish
12	Seafoods	Squid; oyster; dried oyster; prawn; crab; lobster; scallop; sea cucumber; ink fish; jelly fish
13	Red meat	Lean pork; lean & fat pork; lean sparerib; lean & fat sparerib; lean roasted pork; fried steak; ox belly; lamp; pig liver; pig heart; pig kidney; beef oval
14	Poultry	Chicken with skin; chicken without skin; chicken meat; chicken mid-wing; chicken leg quarter; roast goose with skin; roast goose without skin; roast dusk with skin; roast dusk without skin; roast pigeon; chicken heart; chicken kidney; chicken paw
15	Processed meat	Chinese sausage; preserved pork; ham; luncheon meat; bacon; dry beef; pork stick; beef floss; pork floss; squid thread; salted fish; salmon (smoked); sardines; fried dace
16	Eggs	Boiled egg; fried egg; limed duck egg; salted duck egg; quail egg; egg white; egg yolk
17	Milk	Cow milk; skim milk; chocolate milk; dried whole milk; dried skimmed milk
18	Dairy products	Ice cream; milk shake; madeira cake; sweetened condensed milk
19	Alcohol	Beer; Chinese rice wine (high strength); western table wine; spirits; Chinese rice wine (low strength)
20	Tea	Green tea; oolong tea; black tea; other
21	Water	Mineral water; plain water
22	Juice	Fresh fruit juice

23	Plant oil	Vegetable oil; olive oil; canola oil; margarine; mixed oil; salad dressing
24	Sugar	Chocolate; candy; honey; syrup; white sugar
25	Nuts	Chestnut; cashew nut; peanut; walnut; almond
26	Guangdong dimsum	Red bean tong sui; barbecue pork bun; wan tonne; lotus seed bun; steamed dim sum; deep fried dim sum; steamed cheung fan; Chinese turnip pudding; sticky rice dumping;
27	Cantonese soup	Vegetables soup; melon soup; fish soup; chicken soup; meat (pork) soup; mixed vegetables soup; cream of chicken soup

*All food items were categorized according to their nutritional composition and taxonomy



Supplementary Figure 1 Scree plot for factor analysis with 27 food groups. Scree plot was used to explained factors for the retained principal components. We retained the factors that was based on the top four eigenvalues.



Supplementary Figure 2 Flowchart showing selection of participants included in the present analysis from Guangzhou Biobank Cohort Study

Supplementary Table 2 Association of dietary pattern scores with cancer-specific and CVD-specific mortality

	Quartiles of dietary pattern score				P for trend
	Q1	Q2	Q3	Q4	
Cancer-specific					
Vegetable-based dietary pattern					
Lung cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.06 (0.81-1.39)	1.01 (0.77-1.34)	1.21 (0.92-1.60)	0.21
Liver cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.40 (0.97-2.05)	1.23 (0.83-1.82)	1.30 (0.87-1.94)	0.41
Stomach cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.32 (0.68-2.56)	1.03 (0.51-2.09)	0.80 (0.37-1.73)	0.40
Esophageal cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.58 (0.23-1.48)	0.61 (0.24-1.52)	0.66 (0.26-1.69)	0.48
Intestines cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.36 (0.91-2.05)	1.19 (0.78-1.83)	1.23 (0.79-1.91)	0.60
Healthy Cantonese dietary pattern					
Lung cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.93 (0.73-1.19)	0.72 (0.55-0.94) *	0.78 (0.59-0.99) *	0.02
Liver cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.11 (0.78-1.58)	1.19 (0.83-1.70)	0.92 (0.61-1.38)	0.76
Stomach cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.22 (0.63-2.37)	1.15 (0.57-2.33)	1.28 (0.61-2.71)	0.58
Esophageal cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.08 (0.41-2.84)	1.55 (0.62-3.90)	1.11 (0.39-3.16)	0.68
Intestines cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.28 (0.88-1.87)	1.06 (0.70-1.60)	1.14 (0.73-1.78)	0.81

Unhealthy western dietary pattern					
Lung cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.96 (0.72-1.26)	1.01 (0.77-1.31)	0.92 (0.71-1.20)	0.64
Liver cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.87 (0.60-1.26)	0.82 (0.56-1.18)	1.28 (0.92-1.80)	0.14
Stomach cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.97 (0.46-2.04)	1.11 (0.55-2.24)	1.35 (0.68-2.69)	0.33
Esophageal cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.47 (0.16-1.35)	0.57 (0.22-1.49)	1.21 (0.54-2.74)	0.50
Intestines cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.99 (0.66-1.50)	1.17 (0.79-1.73)	1.28 (0.86-1.90)	0.16
Nut and fruit dietary pattern					
Lung cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.19 (0.93-1.52)	1.08 (0.83-1.39)	1.26 (0.97-1.62)	0.14
Liver cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.02 (0.73-1.44)	1.13 (0.81-1.58)	1.11 (0.79-1.57)	0.45
Stomach cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.25 (0.66-2.40)	0.75 (0.35-1.60)	1.88 (0.98-3.54)	0.12
Esophageal cancer mortality					
Adjusted HR (95% CI) [1]	1.00	2.03 (0.83-4.96)	1.54 (0.60-3.96)	1.77 (0.69-4.55)	0.37
Intestines cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.91 (0.63-1.31)	0.69 (0.46-1.03)	1.00 (0.69-1.44)	0.65
CVD-specific					
Vegetable-based dietary pattern					
Hypertensive heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	1.27 (0.80-1.99)	1.38 (0.87-2.17)	1.57 (0.98-2.49)	0.06

Ischemic heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	1.11 (0.90-1.36)	1.23 (0.98-1.52)	1.15 (0.92-1.42)	0.19
Cerebrovascular disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.95 (0.76-1.19)	1.06 (0.85-1.33)	0.96 (0.76-1.21)	0.96
Healthy Cantonese dietary pattern					
Hypertensive heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.86 (0.59-1.26)	0.87 (0.58-1.30)	0.85 (0.54-1.34)	0.48
Ischemic heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.98 (0.82-1.18)	1.00 (0.82-1.21)	0.99 (0.80-1.22)	0.94
Cerebrovascular disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.80 (0.64-1.01)	0.73 (0.59-0.90) **	0.72 (0.59-0.88) **	0.01
Unhealthy western dietary pattern					
Hypertensive heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.88 (0.58-1.32)	1.00 (0.68-1.48)	0.91 (0.61-1.37)	0.82
Ischemic heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	1.15 (0.95-1.39)	0.98 (0.81-1.19)	1.02 (0.84-1.24)	0.78
Cerebrovascular disease mortality					
Adjusted HR (95% CI) [1]	1.00	1.02 (0.82-1.28)	1.07 (0.86-1.33)	1.28 (1.03-1.58) *	0.02
Nut and fruit dietary pattern					
Hypertensive heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.86 (0.58-1.26)	0.78 (00.52-1.17)	1.17 (0.80-1.71)	0.56
Ischemic heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.99 (0.84-1.19)	0.84 (0.70-0.99) *	0.83 (0.69-0.98) *	0.01
Cerebrovascular disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.86 (0.71-1.04)	0.75 (0.61-0.92) **	0.74 (0.60-0.91) **	0.002

[1] Adjusted for age, sex, total energy intake, education, family income, smoking, alcohol use, physical activity, BMI, history of CVD (excluding stroke or myocardial infarction) and diabetes.

*:<0.05; **:<0.01; ***:<0.001

Supplementary Table 3 Food and nutrient intake across quartiles of dietary patterns derived by principal component analysis

	Quartiles of dietary pattern score					P-value
	Total	**Q1**	**Q2**	**Q3**	**Q4**	
Vegetable-based dietary pattern						
Food group (g/day)						
Whole grain	27.5 (50.6)	12.5 (29.1)	23.1 (44.6)	31.6 (54.5)	42.9 (62.9)	<0.001
Refined grain	601.1 (227.4)	502.3 (192.3)	583.3 (209.5)	651.9 (229.2)	666.6 (237.6)	<0.001
Green vegetables	177.4 (112.5)	116.8 (56.4)	157.6 (83.3)	189.3 (112.9)	245.9 (137.4)	<0.001
Orange/purple vegetables	9.9 (17.7)	0.8 (2.8)	2.8 (5.7)	8.5 (11.0)	27.4 (25.6)	<0.001
Red/purple vegetables	5.7 (12.1)	0.2 (1.2)	1.1 (3.6)	4.3 (7.3)	17.3 (18.1)	<0.001
White vegetables	20.3 (26.9)	5.4 (7.7)	11.5 (13.0)	21.7 (21.1)	42.8 (37.7)	<0.001
Starchy vegetables	3.5 (9.5)	0.1 (1.2)	0.6 (2.7)	2.5 (5.8)	10.8 (15.6)	<0.001
Legume	11.5 (15.3)	6.5 (9.1)	9.9 (12.0)	12.5 (15.3)	17.0 (20.3)	<0.001
Orange/purple fruits	35.2 (52.0)	29.1 (45.3)	34.8 (50.4)	36.6 (52.8)	40.2 (58.2)	<0.001
Red/purple fruits	12.5 (22.6)	13.4 (23.4)	11.5 (20.6)	11.8 (22.0)	13.2 (24.1)	0.10
Fish	52.8 (43.0)	33.6 (29.5)	49.8 (37.8)	59.3 (44.3)	68.4 (49.6)	<0.001

Seafood (excluding fish)	2.2 (4.9)	2.1 (4.8)	2.2 (4.7)	2.3 (5.0)	2.2 (5.1)	0.75
Red meat	56.8 (35.6)	58.9 (36.0)	56.6 (34.8)	55.5 (35.1)	56.1 (36.5)	<0.001
Processed meat	3.3 (5.8)	3.4 (5.7)	3.3 (5.7)	3.3 (5.8)	3.2 (5.8)	0.19
Poultry	28.9 (24.1)	23.2 (21.1)	28.1 (22.9)	30.5 (24.2)	33.7 (26.6)	<0.001
Egg	16.4 (14.7)	9.4 (9.3)	14.5 (12.5)	18.3 (14.9)	23.4 (17.0)	<0.001
Milk	47.4 (83.1)	49.7 (82.9)	50.1 (82.8)	44.9 (81.8)	44.7 (84.7)	<0.001
Dairy products (excluding milk)	1.5 (6.8)	2.5 (8.8)	1.4 (6.4)	1.2 (6.0)	1.0 (5.5)	<0.001
Plant oil	20.6 (17.1)	26.9 (20.6)	19.3 (16.3)	18.5 (15.0)	17.6 (14.3)	<0.001
Water	676.1 (426.4)	617.0 (368.7)	663.6 (405.3)	700.6 (442.4)	722.7 (474.3)	<0.001
Fruit juice	6.4 (22.9)	13.1 (32.3)	5.2 (19.7)	4.3 (18.5)	2.8 (15.9)	<0.001
Sugar	0.9 (2.5)	0.9 (2.5)	1.0 (2.5)	0.9 (2.5)	0.9 (2.5)	0.18
Nut	5.2 (9.1)	3.3 (6.5)	5.1 (8.8)	5.8 (9.7)	6.7 (10.6)	<0.001
Guangdong dimsum	29.3 (37.4)	26.5 (34.4)	28.9 (35.6)	30.8 (38.5)	30.8 (40.7)	<0.001
Cantonese soup	115.2 (110.2)	84.8 (80.9)	110.1 (102.7)	131.6 (120.2)	134.2 (124.4)	<0.001
Tea (cup/day)	5.1 (4.7)	4.1 (4.2)	5.0 (4.6)	5.5 (4.9)	5.8 (5.0)	<0.001
Alcohol use	8.8 (44.7)	7.8 (42.0)	8.6 (45.2)	10.3 (48.0)	8.6 (43.3)	0.22
Nutrients						
Protein (g/day)	72.1 (22.8)	58.0 (17.3)	68.7 (18.5)	76.1 (21.0)	85.7 (24.3)	<0.001
Fat (g/day)	57.8 (23.4)	57.3 (25.4)	55.0 (22.6)	57.7 (22.2)	61.3 (22.8)	<0.001
Carbohydrate (g/day)	260.6 (85.6)	211.9 (72.1)	248.8 (72.7)	278.1 (80.4)	303.4 (87.8)	<0.001
Fiber (g/day)	13.1 (6.1)	8.7 (3.4)	11.5 (4.0)	14.1 (5.2)	18.2 (6.8)	<0.001
Cholesterol (mg/day)	148.0 (78.7)	117.4 (62.1)	142.9 (70.4)	158.2 (77.8)	173.4 (90.5)	<0.001
Saturated fatty (g/day)	10.0 (5.1)	9.4 (4.5)	9.6 (4.8)	10.2 (5.1)	11.0 (5.6)	<0.001
Monounsaturated fatty (g/day)	17.3 (8.8)	18.8 (10.2)	16.6 (8.7)	16.7 (8.2)	17.0 (8.0)	0.09
Polyunsaturated fatty (g/day)	13.0 (8.3)	14.4 (9.5)	12.2 (7.8)	12.4 (7.8)	12.9 (7.8)	0.12
Vitamin A (μ g/day)	619.0 (490.2)	410.0 (275.9)	529.2 (350.9)	649.3 (496.5)	887.9 (625.1)	<0.001

Vitamin B1 (μ g/day)	1.0 (0.4)	0.9 (0.4)	1.0 (0.4)	1.0 (0.4)	1.2 (0.4)	<0.001
Vitamin B2 (μ g/day)	1.0 (0.4)	0.7 (0.3)	0.9 (0.3)	1.0 (0.3)	1.2 (0.4)	<0.001
Vitamin B3 (μ g/day)	23.5 (7.3)	19.2 (5.7)	22.4 (6.1)	24.9 (6.7)	27.3 (7.8)	<0.001
Vitamin C (mg/day)	97.5 (61.4)	66.2 (35.6)	84.0 (42.8)	101.8 (60.8)	137.9 (74.0)	<0.001
Vitamin E (mg/day)	18.4 (9.5)	18.2 (10.5)	16.8 (8.8)	17.9 (8.7)	20.8 (9.5)	<0.001
Sodium (mg/day)	932.7 (648.5)	733.7 (370.6)	889.4 (432.6)	1,014.8 (1,002.6)	1,092.9 (528.4)	<0.001
Potassium (mg/day)	1,659.2 (604.2)	1,233.0 (387.0)	1,506.2 (409.1)	1,748.2 (513.4)	2,149.7 (653.0)	<0.001
Phosphorus (mg/day)	1,077.8 (338.2)	845.9 (243.7)	1,016.3 (260.0)	1,147.3 (304.3)	1,301.7 (354.1)	<0.001
Calcium (mg/day)	502.0 (235.0)	369.7 (160.4)	460.0 (178.5)	532.4 (229.8)	645.9 (264.0)	<0.001
Magnesium (mg/day)	303.2 (128.0)	219.6 (78.1)	279.9 (94.4)	327.9 (120.8)	385.2 (145.0)	<0.001
Iron (mg/day)	22.3 (7.6)	17.1 (5.2)	20.9 (5.6)	23.8 (6.9)	27.3 (8.2)	<0.001
Copper (mg/day)	3.8 (4.2)	2.7 (2.6)	3.4 (3.6)	4.1 (4.3)	4.9 (5.5)	<0.001
Zinc (mg/day)	11.6 (3.4)	9.4 (2.6)	11.1 (2.8)	12.3 (3.2)	13.7 (3.6)	<0.001
Selenium (mg/day)	50.1 (20.9)	39.9 (15.7)	47.5 (17.6)	52.8 (20.4)	60.1 (23.7)	<0.001
Manganese (mg/day)	5.6 (2.3)	4.2 (1.5)	5.2 (1.8)	6.1 (2.2)	6.9 (2.6)	<0.001
Healthy Cantonese dietary pattern						
Food groups						
Whole grain	27.5 (50.6)	23.2 (47.6)	27.8 (51.8)	29.2 (51.2)	29.9 (51.6)	<0.001
Refined grain	601.1 (227.4)	533.7 (204.9)	583.4 (220.2)	620.8 (227.9)	666.3 (234.3)	<0.001
Green vegetables	177.4 (112.5)	137.5 (86.1)	165.7 (102.2)	185.3 (113.9)	221.0 (127.0)	<0.001
Orange/purple vegetables	9.9 (17.7)	8.7 (16.5)	8.8 (16.2)	10.5 (18.3)	11.6 (19.6)	<0.001
Red/purple vegetables	5.7 (12.1)	5.0 (11.3)	5.3 (11.7)	6.0 (12.2)	6.4 (12.9)	<0.001
White vegetables	20.3 (26.9)	11.2 (16.9)	17.3 (22.8)	22.0 (26.9)	30.8 (34.2)	<0.001
Starchy vegetables	3.5 (9.5)	4.1 (10.7)	3.3 (9.0)	3.5 (9.3)	3.2 (8.9)	0.20
Legume	11.5 (15.3)	6.7 (10.9)	9.7 (13.1)	12.9 (16.0)	16.5 (18.2)	<0.001
Orange/purple fruits	35.2 (52.0)	22.9 (39.4)	32.8 (48.5)	37.9 (53.0)	47.2 (61.7)	<0.001

Red/purple fruits	12.5 (22.6)	2.7 (8.3)	7.1 (14.0)	13.0 (20.5)	27.1 (31.9)	<0.001
Fish	52.8 (43.0)	33.9 (32.4)	48.2 (37.2)	58.3 (43.2)	70.7 (48.6)	<0.001
Seafood (excluding fish)	2.2 (4.9)	0.4 (1.4)	1.0 (2.5)	2.1 (4.0)	5.5 (7.5)	<0.001
Red meat	56.8 (35.6)	41.7 (26.9)	52.3 (29.9)	59.2 (33.7)	73.8 (42.1)	<0.001
Processed meat	3.3 (5.8)	3.2 (5.5)	3.3 (5.6)	3.3 (5.9)	3.4 (6.1)	0.47
Poultry	28.9 (24.1)	14.0 (14.8)	23.8 (18.0)	32.7 (22.2)	44.9 (27.6)	<0.001
Egg	16.4 (14.7)	11.5 (12.3)	15.1 (13.7)	17.9 (14.8)	21.2 (15.9)	<0.001
Milk	47.4 (83.1)	25.5 (61.9)	44.8 (80.8)	57.3 (89.6)	61.8 (91.9)	<0.001
Dairy products (excluding milk)	1.5 (6.8)	0.1 (1.1)	0.2 (2.1)	0.9 (4.9)	4.7 (11.9)	<0.001
Plant oil	20.6 (17.1)	19.3 (16.7)	21.1 (17.4)	21.4 (17.2)	20.6 (17.1)	0.15
Water	676.1 (426.4)	582.7 (380.8)	667.3 (413.4)	703.8 (428.3)	750.2 (461.4)	<0.001
Fruit juice	6.4 (22.9)	0.6 (5.1)	1.9 (10.3)	4.6 (17.1)	18.2 (38.4)	<0.001
Sugar	0.9 (2.5)	1.0 (2.7)	0.9 (2.5)	0.9 (2.4)	0.9 (2.4)	0.86
Nut	5.2 (9.1)	3.6 (7.2)	4.8 (8.6)	5.8 (9.7)	6.7 (10.4)	<0.001
Guangdong dimsum	29.3 (37.4)	12.8 (20.3)	23.2 (29.3)	32.5 (37.1)	48.4 (47.6)	<0.001
Cantonese soup	115.2 (110.2)	55.1 (59.3)	91.8 (79.6)	127.3 (102.5)	186.5 (137.3)	<0.001
Tea (cup/day)	5.1 (4.7)	4.5 (4.5)	4.9 (4.6)	5.2 (4.7)	5.8 (4.9)	<0.001
Alcohol use	8.8 (44.7)	6.1 (37.2)	7.3 (39.4)	9.6 (46.4)	12.3 (53.7)	0.02
Nutrients						
Protein (g/day)	72.1 (22.8)	54.0 (15.0)	67.0 (15.8)	76.2 (17.5)	91.3 (23.7)	<0.001
Fat (g/day)	57.8 (23.4)	44.6 (19.6)	54.8 (20.6)	61.4 (21.3)	70.4 (24.1)	<0.001
Carbohydrate (g/day)	260.6 (85.6)	218.2 (75.1)	248.1 (76.9)	270.5 (78.3)	305.5 (87.0)	<0.001
Fiber (g/day)	13.1 (6.1)	10.2 (5.0)	12.3 (5.4)	13.8 (5.7)	16.1 (6.6)	<0.001
Cholesterol (mg/day)	148.0 (78.7)	136.9 (79.4)	137.3 (74.5)	148.1 (74.1)	169.6 (82.0)	<0.001
Saturated fatty (g/day)	10.0 (5.1)	7.9 (4.3)	9.7 (4.8)	10.6 (5.0)	11.9 (5.3)	<0.001
Monounsaturated fatty (g/day)	17.3 (8.8)	14.3 (7.9)	16.8 (8.6)	18.1 (8.7)	19.9 (9.2)	<0.001

Polyunsaturated fatty (g/day)	13.0 (8.3)	11.3 (7.7)	13.0 (8.4)	13.6 (8.3)	14.0 (8.4)	<0.001
Vitamin A (μg/day)	619.0 (490.2)	468.6 (377.6)	577.6 (434.1)	651.9 (483.0)	778.2 (588.6)	<0.001
Vitamin B1 (μg/day)	1.0 (0.4)	0.8 (0.3)	1.0 (0.4)	1.0 (0.4)	1.2 (0.4)	<0.001
Vitamin B2 (μg/day)	1.0 (0.4)	0.7 (0.3)	0.9 (0.3)	1.0 (0.3)	1.2 (0.4)	<0.001
Vitamin B3 (μg/day)	23.5 (7.3)	18.2 (5.0)	22.0 (5.3)	24.8 (6.1)	28.8 (7.8)	<0.001
Vitamin C (mg/day)	97.5 (61.4)	70.7 (43.0)	88.3 (52.0)	101.5 (58.3)	129.4 (72.7)	<0.001
Vitamin E (mg/day)	18.4 (9.5)	15.2 (8.7)	17.8 (9.2)	19.5 (9.4)	21.2 (9.7)	<0.001
Sodium (mg/day)	932.7 (648.5)	925.2 (991.1)	873.0 (461.9)	909.7 (465.2)	1,023.0 (508.5)	<0.001
Potassium (mg/day)	1,659.2 (604.2)	1,223.2 (404.9)	1,527.4 (439.7)	1,757.7 (500.4)	2,128.8 (644.3)	<0.001
Phosphorus (mg/day)	1,077.8 (338.2)	832.1 (247.8)	1,011.3 (261.5)	1,136.9 (281.5)	1,330.9 (304.9)	<0.001
Calcium (mg/day)	502.0 (235.0)	375.4 (179.1)	471.3 (209.7)	534.2 (227.3)	627.2 (244.1)	<0.001
Magnesium (mg/day)	303.2 (128.0)	237.8 (107.2)	285.3 (114.9)	318.2 (118.6)	371.2 (131.6)	<0.001
Iron (mg/day)	22.3 (7.6)	18.0 (6.2)	21.1 (6.5)	23.3 (6.8)	26.8 (7.9)	<0.001
Copper (mg/day)	3.8 (4.2)	2.7 (3.3)	3.6 (3.6)	4.1 (4.4)	4.7 (5.1)	<0.001
Zinc (mg/day)	11.6 (3.4)	9.3 (2.5)	11.0 (2.7)	12.1 (2.9)	14.1 (3.6)	<0.001
Selenium (mg/day)	50.1 (20.9)	38.1 (15.4)	46.6 (16.3)	52.7 (19.1)	63.0 (23.5)	<0.001
Manganese (mg/day)	5.6 (2.3)	4.8 (2.1)	5.4 (2.2)	5.8 (2.2)	6.4 (2.4)	<0.001
Unhealthy western dietary pattern						
Food groups						
Whole grain	27.5 (50.6)	56.8 (70.1)	24.7 (45.7)	18.1 (36.8)	10.5 (25.6)	<0.001
Refined grain	601.1 (227.4)	545.4 (208.1)	583.9 (216.6)	611.7 (226.1)	663.1 (241.1)	<0.001
Green vegetables	177.4 (112.5)	173.0 (109.1)	165.7 (102.9)	175.7 (111.8)	195.3 (123.3)	<0.001
Orange/purple vegetables	9.9 (17.7)	10.6 (19.0)	8.5 (16.2)	9.2 (17.3)	11.2 (18.2)	<0.001
Red/purple vegetables	5.7 (12.1)	6.1 (12.4)	5.0 (11.2)	5.1 (11.6)	6.6 (12.8)	<0.001
White vegetables	20.3 (26.9)	23.3 (29.3)	18.6 (23.4)	18.6 (25.4)	20.8 (27.2)	<0.001
Starchy vegetables	3.5 (9.5)	3.7 (9.8)	3.0 (8.7)	3.3 (9.3)	4.0 (10.1)	<0.001

Legume	11.5 (15.3)	13.0 (16.0)	11.3 (14.8)	10.8 (14.8)	10.7 (15.3)	<0.001
Orange/purple fruits	35.2 (52.0)	36.3 (52.8)	34.7 (51.2)	35.8 (52.4)	34.0 (51.7)	0.15
Red/purple fruits	12.5 (22.6)	19.2 (27.9)	12.4 (22.1)	10.4 (20.2)	8.0 (17.1)	<0.001
Fish	52.8 (43.0)	51.9 (41.9)	50.3 (41.8)	51.8 (43.0)	57.1 (44.8)	<0.001
Seafood (excluding fish)	2.2 (4.9)	1.8 (4.3)	2.0 (4.5)	2.2 (4.8)	2.9 (5.8)	<0.001
Red meat	56.8 (35.6)	44.4 (27.0)	51.9 (30.7)	58.6 (34.1)	72.1 (42.7)	<0.001
Processed meat	3.3 (5.8)	1.7 (3.8)	2.8 (4.9)	3.7 (6.0)	5.0 (7.3)	<0.001
Poultry	28.9 (24.1)	25.4 (21.8)	26.4 (22.5)	29.0 (23.6)	34.7 (27.0)	<0.001
Egg	16.4 (14.7)	20.4 (16.5)	16.0 (14.3)	14.8 (13.7)	14.4 (13.2)	<0.001
Milk	47.4 (83.1)	83.5 (103.0)	45.9 (80.0)	36.9 (72.1)	23.1 (58.5)	<0.001
Dairy products (excluding milk)	1.5 (6.8)	2.6 (9.0)	1.5 (6.9)	1.2 (5.8)	0.7 (4.8)	<0.001
Plant oil	20.6 (17.1)	18.9 (16.5)	20.4 (17.1)	21.2 (17.4)	21.8 (17.4)	<0.001
Water	676.1 (426.4)	1,026 (408.5)	735.0 (331.7)	572.2 (341.9)	370.5 (321.1)	<0.001
Fruit juice	6.4 (22.9)	8.4 (26.7)	6.5 (22.9)	5.5 (20.0)	5.1 (21.2)	0.003
Sugar	0.9 (2.5)	0.7 (2.0)	0.9 (2.4)	1.0 (2.6)	1.1 (2.9)	0.001
Nut	5.2 (9.1)	5.1 (8.9)	4.8 (8.8)	5.2 (9.1)	5.8 (9.7)	0.04
Guangdong dimsum	29.3 (37.4)	14.4 (21.9)	21.9 (28.6)	29.9 (33.8)	50.8 (49.2)	<0.001
Cantonese soup	115.2 (110.2)	124.5 (116.5)	111.7 (107.5)	109.7 (105.7)	114.8 (110.2)	0.02
Tea (cup/day)	5.1 (4.7)	1.7 (2.4)	3.0 (3.5)	5.8 (4.3)	9.8 (3.7)	<0.001
Alcohol use	8.8 (44.7)	0.6 (5.7)	1.2 (9.7)	2.8 (19.8)	30.7 (82.6)	<0.001
Nutrients						
Protein (g/day)	72.1 (22.8)	72.3 (22.9)	68.3 (21.8)	70.8 (21.7)	77.2 (23.9)	<0.001
Fat (g/day)	57.8 (23.4)	55.8 (22.3)	55.0 (22.7)	57.6 (21.1)	62.8 (24.6)	<0.001
Carbohydrate (g/day)	260.6 (85.6)	260.2 (84.7)	250.7 (83.2)	257.4 (83.6)	274.0 (89.0)	<0.001
Fiber (g/day)	13.1 (6.1)	14.9 (7.0)	12.3 (5.8)	12.4 (5.7)	12.8 (5.4)	<0.001
Cholesterol (mg/day)	148.0 (78.7)	140.0 (74.7)	138.0 (74.7)	144.5 (72.5)	169.5 (87.9)	<0.001

Saturated fatty (g/day)	10.0 (5.1)	11.2 (5.7)	9.5 (4.8)	9.5 (4.7)	9.7 (4.7)	<0.001
Monounsaturated fatty (g/day)	17.3 (8.8)	16.2 (8.2)	16.6 (8.6)	17.4 (9.0)	18.9 (9.3)	<0.001
Polyunsaturated fatty (g/day)	13.0 (8.3)	12.8 (8.1)	12.6 (8.2)	13.0 (8.4)	13.5 (8.4)	<0.001
Vitamin A (μg/day)	619.0 (490.2)	587.0 (446.8)	569.6 (447.3)	616.0 (491.2)	703.6 (556.6)	<0.001
Vitamin B1 (μg/day)	1.0 (0.4)	1.0 (0.4)	1.0 (0.4)	1.0 (0.4)	1.1 (0.4)	0.62
Vitamin B2 (μg/day)	1.0 (0.4)	1.0 (0.4)	0.9 (0.4)	0.9 (0.3)	1.0 (0.4)	0.15
Vitamin B3 (μg/day)	23.5 (7.3)	21.6 (6.4)	22.1 (6.5)	23.6 (7.0)	26.5 (8.1)	<0.001
Vitamin C (mg/day)	97.5 (61.4)	99.0 (59.6)	91.6 (58.1)	95.8 (62.2)	103.4 (64.8)	<0.001
Vitamin E (mg/day)	18.4 (9.5)	18.2 (9.4)	17.8 (9.4)	18.5 (9.6)	19.1 (9.6)	<0.001
Sodium (mg/day)	932.7 (648.5)	598.1 (282.3)	820.6 (933.0)	997.8 (405.5)	1,314.4 (541.9)	<0.001
Potassium (mg/day)	1,659.2 (604.2)	1,738.9 (622.6)	1,567 (583.6)	1,608.4 (582.8)	1,722.6 (609.3)	<0.001
Phosphorus (mg/day)	1,077.8 (338.2)	1,124.4 (361.7)	1,023.8 (328.1)	1,043.8 (318.7)	1,119.1 (331.1)	<0.001
Calcium (mg/day)	502.0 (235.0)	602.6 (266.8)	473.9 (219.4)	463.8 (211.9)	467.7 (207.9)	<0.001
Magnesium (mg/day)	303.2 (128.0)	349.3 (157.2)	284.9 (122.5)	283.4 (11.6)	295.0 (101.9)	<0.001
Iron (mg/day)	22.3 (7.6)	23.2 (8.3)	21.2 (7.3)	21.7 (7.2)	23.1 (7.3)	<0.001
Copper (mg/day)	3.8 (4.2)	4.0 (4.3)	3.6 (4.0)	3.6 (4.0)	3.9 (4.6)	<0.001
Zinc (mg/day)	11.6 (3.4)	11.7 (3.5)	11.1 (3.3)	11.4 (3.4)	12.3 (3.5)	<0.001
Selenium (mg/day)	50.1 (20.9)	49.2 (20.4)	47.8 (19.3)	50.0 (20.6)	53.5 (22.9)	<0.001
Manganese (mg/day)	5.6 (2.3)	6.3 (2.8)	5.4 (2.2)	5.3 (2.0)	5.4 (1.9)	<0.001
Nut and fruit dietary pattern						
Food groups						
Whole grain	27.5 (50.6)	9.2 (21.2)	18.2 (36.3)	31.7 (52.8)	51.0 (68.7)	<0.001
Refined grain	601.1 (227.4)	771.7 (234.7)	587.2 (196.5)	563.1 (192.7)	509.1 (184.3)	<0.001
Green vegetables	177.4 (112.5)	166.3 (109.0)	174.0 (111.1)	195.3 (107.7)	194.0 (120.0)	<0.001
Orange/purple vegetables	9.9 (17.7)	9.3 (16.6)	9.3 (17.1)	9.7 (17.4)	11.3 (19.6)	<0.001
Red/purple vegetables	5.7 (12.1)	5.0 (10.5)	5.5 (11.6)	5.6 (12.1)	6.6 (13.8)	0.80

White vegetables	20.3 (26.9)	25.6 (32.4)	19.7 (26.4)	17.8 (23.9)	18.2 (23.4)	<0.001
Starchy vegetables	3.5 (9.5)	2.8 (7.8)	3.1 (8.6)	3.7 (9.8)	4.4 (11.3)	0.06
Legume	11.5 (15.3)	9.0 (13.5)	10.7 (14.6)	12.2 (15.7)	13.9 (16.7)	<0.001
Orange/purple fruits	35.2 (52.0)	10.7 (22.6)	21.6 (34.1)	39.5 (49.2)	69.1 (69.1)	<0.001
Red/purple fruits	12.5 (22.6)	13.2 (23.6)	12.5 (22.6)	12.5 (21.8)	11.8 (22.4)	<0.001
Fish	52.8 (43.0)	55.0 (46.0)	50.0 (41.8)	51.3 (41.6)	54.8 (41.3)	0.11
Seafood (excluding fish)	2.2 (4.9)	1.3 (3.6)	1.8 (4.2)	2.3 (4.9)	3.5 (6.3)	<0.001
Red meat	56.8 (35.6)	49.6 (32.1)	55.2 (34.1)	58.6 (36.4)	63.6 (38.1)	<0.001
Processed meat	3.3 (5.8)	0.8 (2.1)	1.7 (3.3)	3.3 (5.0)	7.4 (8.2)	<0.001
Poultry	28.9 (24.1)	27.1 (23.9)	27.9 (23.8)	28.9 (23.2)	31.6 (25.1)	<0.001
Egg	16.4 (14.7)	12.9 (12.7)	15.4 (13.7)	17.3 (14.7)	20.1 (16.3)	<0.001
Milk	47.4 (83.1)	17.1 (48.9)	35.0 (70.5)	55.8 (87.7)	81.5 (101.4)	<0.001
Dairy products (excluding milk)	1.5 (6.8)	2.7 (9.3)	1.4 (6.4)	1.0 (5.5)	0.9 (5.1)	<0.001
Plant oil	20.6 (17.1)	25.4 (20.0)	20.6 (16.9)	19.0 (15.8)	17.4 (14.2)	<0.001
Water	676.1 (426.4)	724.3 (473.9)	687.7 (426.3)	655.2 (403.0)	636.7 (392.6)	<0.001
Fruit juice	6.4 (22.9)	4.8 (20.4)	6.0 (21.6)	7.0 (24.3)	7.6 (24.7)	0.002
Sugar	0.9 (2.5)	0.1 (0.6)	0.3 (1.2)	0.8 (2.1)	2.4 (4.0)	<0.001
Nut	5.2 (9.1)	1.1 (2.9)	2.5 (4.7)	5.0 (7.1)	12.3 (13.3)	<0.001
Guangdong dimsum	29.3 (37.4)	22.8 (33.4)	28.4 (36.1)	30.8 (38.1)	35.0 (40.7)	<0.001
Cantonese soup	115.2 (110.2)	132.3 (125.2)	108.5 (107.2)	109.8 (102.6)	110.1 (102.5)	<0.001
Tea (cup/day)	5.1 (4.7)	5.3 (5.0)	5.0 (4.7)	4.9 (4.6)	5.0 (4.5)	0.10
Alcohol use	8.8 (44.7)	16.4 (62.7)	7.0 (39.0)	6.4 (37.7)	5.5 (32.2)	<0.001
Nutrients						
Protein (g/day)	72.1 (22.8)	68.2 (20.8)	66.8 (21.2)	71.4 (21.8)	82.1 (24.2)	<0.001
Fat (g/day)	57.8 (23.4)	56.5 (25.1)	53.5 (22.3)	56.4 (22.0)	64.8 (22.5)	<0.001
Carbohydrate (g/day)	260.6 (85.6)	284.1 (86.3)	244.8 (81.6)	247.3 (83.7)	256.1 (84.8)	<0.001

Fiber (g/day)	13.1 (6.1)	11.5 (4.8)	11.8 (5.3)	13.1 (5.9)	16.1 (7.0)	<0.001
Cholesterol (mg/day)	148.0 (78.7)	85.9 (43.3)	127.0 (48.0)	161.1 (59.3)	217.9 (87.8)	<0.001
Saturated fatty (g/day)	10.0 (5.1)	8.4 (4.2)	8.8 (4.3)	10.2 (4.9)	12.8 (5.6)	<0.001
Monounsaturated fatty (g/day)	17.3 (8.8)	17.4 (9.9)	16.2 (8.5)	16.8 (8.4)	18.7 (8.2)	<0.001
Polyunsaturated fatty (g/day)	13.0 (8.3)	13.5 (9.1)	11.9 (7.7)	12.3 (7.7)	14.2 (8.4)	<0.001
Vitamin A (μg/day)	619.0 (490.2)	494.4 (401.2)	559.6 (432.3)	630.0 (479.0)	792.4 (578.8)	<0.001
Vitamin B1 (μg/day)	1.0 (0.4)	0.9 (0.4)	0.9 (0.4)	1.0 (0.4)	1.2 (0.4)	<0.001
Vitamin B2 (μg/day)	1.0 (0.4)	0.9 (0.3)	0.9 (0.4)	1.0 (0.4)	1.1 (0.4)	<0.001
Vitamin B3 (μg/day)	23.5 (7.3)	24.7 (7.4)	22.2 (6.9)	22.3 (6.9)	24.6 (7.5)	<0.001
Vitamin C (mg/day)	97.5 (61.4)	83.7 (54.8)	90.1 (57.9)	96.9 (56.4)	119.1 (69.6)	<0.001
Vitamin E (mg/day)	18.4 (9.5)	18.8 (10.2)	17.1 (9.1)	17.6 (8.8)	20.0 (9.6)	<0.001
Sodium (mg/day)	932.7 (648.5)	877.00 (497.5)	850.6 (464.8)	932.8 (977.1)	1,070 (485.4)	<0.001
Potassium (mg/day)	1,659.2 (604.2)	1,504.0 (544.5)	1,527.7 (564.7)	1,656.2 (564.2)	1,949.2 (633.5)	<0.001
Phosphorus (mg/day)	1,077.8 (338.2)	1,040.5 (300.1)	991.9 (313.4)	1,058.2 (328.5)	1,220.6 (363.1)	<0.001
Calcium (mg/day)	502.0 (235.0)	415.7 (181.3)	447.1 (212.3)	510.6 (218.3)	634 (259.4)	<0.001
Magnesium (mg/day)	303.2 (128.0)	277.3 (91.8)	269.9 (109.7)	300.6 (129.6)	364.8 (150.6)	<0.001
Iron (mg/day)	22.3 (7.6)	21.7 (6.7)	20.5 (7.0)	21.7 (7.5)	25.2 (8.3)	<0.001
Copper (mg/day)	3.8 (4.2)	4.0 (5.3)	3.5 (3.8)	3.6 (3.9)	3.9 (3.7)	0.09
Zinc (mg/day)	11.6 (3.4)	11.7 (3.2)	10.8 (3.2)	11.2 (3.3)	12.7 (3.7)	<0.001
Selenium (mg/day)	50.1 (20.9)	45.9 (20.4)	46.8 (19.3)	49.8(19.1)	57.9 (22.6)	<0.001
Manganese (mg/day)	5.6 (2.3)	5.6 (1.8)	5.1 (2.0)	5.4 (2.4)	6.3 (2.7)	<0.001

Data are presented as mean (SD)

Supplementary Table 4 Association of dietary pattern scores with all-cause, cancer, CVD and other-cause mortality by excluding deaths during first three years follow-up

	Quartiles of dietary pattern score				P for trend
	Q1	Q2	Q3	Q4	
Vegetable-based dietary pattern					
All-cause mortality					
Adjusted HR (95% CI) [1]	1.00	1.08 (0.99-1.18)	1.06 (0.97-1.17)	1.06 (0.98-1.19)	0.17
CVD mortality					
Adjusted HR (95% CI) [1]	1.00	1.02 (0.88-1.18)	1.15 (0.98-1.35)	1.09 (0.93-1.26)	0.18
Cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.19 (0.98-1.39)	1.09 (0.90-1.24)	1.14 (0.95-1.34)	0.11
Other-cause mortality					
Adjusted HR (95% CI) [1]	1.00	0.99 (0.84-1.16)	0.95 (0.80-1.12)	0.98 (0.83-1.17)	0.77
Healthy Cantonese dietary pattern					
All-cause mortality					
Adjusted HR (95% CI) [1]	1.00	0.92 (0.85-0.99) *	0.90 (0.83-0.98) *	0.87 (0.80-0.96) **	0.002
CVD mortality					
Adjusted HR (95% CI) [1]	1.00	0.85 (0.75-0.96) *	0.84 (0.73-0.96) *	0.83 (0.71-0.96) *	0.01
Cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.04 (0.89-1.20)	0.97 (0.83-1.13)	0.93 (0.78-1.10)	0.24
Other-cause mortality					
Adjusted HR (95% CI) [1]	1.00	0.92 (0.79-1.07)	0.94 (0.80-1.10)	0.87 (0.73-1.03)	0.16
Unhealthy western dietary pattern					
All-cause mortality					
Adjusted HR (95% CI) [1]	1.00	1.01 (0.92-1.10)	1.02 (0.94-1.11)	1.09 (1.01-1.19) *	0.04
CVD mortality					
Adjusted HR (95% CI) [1]	1.00	1.09 (0.95-1.24)	1.06 (0.92-1.19)	1.13 (0.98-1.29)	0.12

Cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.94 (0.80-1.10)	0.98 (0.84-1.15)	1.11 (0.95-1.29)	0.15
Other-cause mortality					
Adjusted HR (95% CI) [1]	1.00	0.96 (0.82-1.14)	0.99 (0.85-1.16)	1.00 (0.85-1.17)	0.90
Nut and fruit dietary pattern					
All-cause mortality					
Adjusted HR (95% CI) [1]	1.00	0.99 (0.91-1.07)	0.96 (0.89-1.05)	0.90 (0.83-0.98) *	0.03
CVD mortality					
Adjusted HR (95% CI) [1]	1.00	0.97 (0.85-1.09)	0.83 (0.72-0.95) **	0.80 (0.70-0.91) **	<0.001
Cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.04 (0.90-1.20)	1.11 (0.95-1.29)	0.99 (0.86-1.16)	0.28
Other-cause mortality					
Adjusted HR (95% CI) [1]	1.00	0.95 (0.82-1.11)	0.95 (0.82-1.11)	1.02 (0.87-1.18)	0.93

[1] Adjusted for sex, age, total energy intake, education, family income, smoking, alcohol use, physical activity, BMI, history of CVD (excluding stroke or myocardial infarction) and diabetes.

*:<0.05; **:<0.01; ***:<0.001

Supplementary Table 5 Association of dietary pattern scores with cancer-specific and CVD-specific mortality by excluding deaths during first three years follow-up

	Quartiles of dietary pattern score				P for trend
	Q1	Q2	Q3	Q4	
Cancer-specific					
Vegetable-based dietary pattern					
Lung cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.13 (0.85-1.51)	1.11 (0.83-1.49)	1.35 (0.98-1.84)	0.08
Liver cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.60 (1.06-2.39) *	1.25 (0.82-1.92)	1.45 (0.95-2.23)	0.31
Stomach cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.44 (0.72-2.89)	1.06 (0.50-2.24)	0.75 (0.32-1.71)	0.30
Esophageal cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.51 (0.19-1.34)	0.59 (0.24-1.49)	0.59 (0.22-1.53)	0.38
Intestines cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.34 (0.88-2.02)	1.19 (0.77-1.83)	1.28 (0.82-2.00)	0.45
Healthy Cantonese dietary pattern					
Lung cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.99 (0.77-1.27)	0.75 (0.56-0.98) *	0.77 (0.57-0.99) *	0.02
Liver cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.07 (0.74-1.53)	1.10 (0.76-1.59)	0.86 (0.57-1.31)	0.53
Stomach cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.44 (0.71-2.92)	1.13 (0.52-2.46)	1.65 (0.75-3.63)	0.33
Esophageal cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.95 (0.35-2.57)	1.42 (0.56-3.60)	1.04 (0.37-2.96)	0.76
Intestines cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.27 (0.86-1.86)	1.09 (0.72-1.66)	1.16 (0.74-1.81)	0.72

Unhealthy western dietary pattern					
Lung cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.89 (0.66-1.19)	1.01 (0.77-1.33)	0.93 (0.71-1.23)	0.88
Liver cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.85 (0.58-1.24)	0.81 (0.56-1.19)	1.20 (0.84-1.70)	0.30
Stomach cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.00 (0.47-2.08)	1.02 (0.49-2.11)	1.15 (0.56-2.35)	0.70
Esophageal cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.42 (0.13-1.33)	0.65 (0.24-1.72)	1.42 (0.61-3.29)	0.26
Intestines cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.93 (0.61-1.41)	1.14 (0.77-1.69)	1.22 (0.82-1.82)	0.21
Nut and fruit dietary pattern					
Lung cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.23 (0.95-1.58)	1.06 (0.81-1.39)	1.25 (0.96-1.64)	0.22
Liver cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.00 (0.70-1.43)	1.10 (0.77-1.55)	1.07 (0.75-1.53)	0.61
Stomach cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.17 (0.59-2.35)	0.80 (0.37-1.77)	1.80 (0.92-3.50)	0.15
Esophageal cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.85 (0.75-4.61)	1.36 (0.51-3.58)	1.70 (0.66-4.40)	0.41
Intestines cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.91 (0.62-1.32)	0.70 (0.47-1.05)	1.02 (0.70-1.48)	0.75
CVD-specific					
Vegetable-based dietary pattern					
Hypertensive heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	1.20 (0.76-1.90)	1.28 (0.81-2.02)	1.51 (0.95-2.41)	0.08

Ischemic heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	1.08 (0.87-1.34)	1.21 (0.98-1.49)	1.12 (0.90-1.39)	0.26
Cerebrovascular disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.93 (0.74-1.17)	1.08 (0.86-1.35)	0.97 (0.76-1.23)	0.90
Healthy Cantonese dietary pattern					
Hypertensive heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.89 (0.61-1.31)	0.89 (0.59-1.35)	0.88 (0.56-1.39)	0.58
Ischemic heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.97 (0.80-1.16)	0.99 (0.82-1.21)	0.98 (0.79-1.21)	0.90
Cerebrovascular disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.73 (0.60-0.90) **	0.72 (0.58-0.90) **	0.78 (0.62-0.98) *	0.03
Unhealthy western dietary pattern					
Hypertensive heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.88 (0.58-1.33)	1.00 (0.67-1.48)	0.87 (0.57-1.31)	0.66
Ischemic heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	1.18 (0.97-1.43)	1.01 (0.83-1.23)	1.04 (0.86-1.27)	0.93
Cerebrovascular disease mortality					
Adjusted HR (95% CI) [1]	1.00	1.00 (0.79-1.26)	1.07 (0.86-1.34)	1.28 (1.03-1.59) *	0.02
Nut and fruit dietary pattern					
Hypertensive heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.87 (0.60-1.29)	0.74 (00.48-1.12)	1.15 (0.78-1.69)	0.69
Ischemic heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	1.02 (0.85-1.21)	0.84 (0.70-1.01)	0.83 (0.69-0.98) *	0.02
Cerebrovascular disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.86 (0.71-1.05)	0.73 (0.59-0.89) **	0.73 (0.59-0.91) **	0.001

[1] Adjusted for age, sex, total energy intake, education, family income, smoking, alcohol use, physical activity, BMI, history of CVD (excluding stroke or myocardial infarction) and diabetes.

*:<0.05; **:<0.01; ***:<0.001

Supplementary Table 6 Association of dietary pattern scores with all-cause, cancer, CVD and other-cause mortality by further adjusting for the aspirin or other antiplatelet medications regularly

	Quartiles of dietary pattern score				P for trend
	Q1	Q2	Q3	Q4	
Vegetable-based dietary pattern					
All-cause mortality					
Adjusted HR (95% CI) [1]	1.00	1.08 (0.98-1.17)	1.07 (0.98-1.17)	1.07 (0.98-1.20)	0.10
CVD mortality					
Adjusted HR (95% CI) [1]	1.00	1.05 (0.91-1.21)	1.19 (0.98-1.37)	1.12 (0.96-1.30)	0.07
Cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.22 (1.05-1.43) *	1.06 (0.90-1.25)	1.16 (0.96-1.40)	0.23
Other-cause mortality					
Adjusted HR (95% CI) [1]	1.00	0.97 (0.82-1.14)	0.96 (0.82-1.13)	1.00 (0.84-1.18)	0.99
Healthy Cantonese dietary pattern					
All-cause mortality					
Adjusted HR (95% CI) [1]	1.00	0.91 (0.84-0.98) *	0.90 (0.83-0.98) *	0.87 (0.80-0.96) **	0.005

CVD mortality					
Adjusted HR (95% CI) [1]	1.00	0.85 (0.75-0.96) *	0.83 (0.73-0.96) **	0.84 (0.73-0.97) *	0.01
Cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.02 (0.88-1.18)	0.96 (0.83-1.12)	0.91 (0.77-1.08)	0.20
Other-cause mortality					
Adjusted HR (95% CI) [1]	1.00	0.91 (0.78-1.05)	0.94 (0.81-1.10)	0.87 (0.73-1.03)	0.15
Unhealthy western dietary pattern					
All-cause mortality					
Adjusted HR (95% CI) [1]	1.00	1.02 (0.93-1.11)	1.02 (0.93-1.11)	1.10 (1.01-1.19) *	0.04
CVD mortality					
Adjusted HR (95% CI) [1]	1.00	1.09 (0.95-1.24)	1.04 (0.91-1.19)	1.12 (0.98-1.28)	0.15
Cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.96 (0.82-1.12)	0.98 (0.84-1.14)	1.11 (0.95-1.29)	0.15
Other-cause mortality					
Adjusted HR (95% CI) [1]	1.00	0.99 (0.84-1.16)	1.00 (0.86-1.17)	1.01 (0.87-1.18)	0.84
Nut and fruit dietary pattern					
All-cause mortality					
Adjusted HR (95% CI) [1]	1.00	0.99 (0.91-1.07)	0.97 (0.90-1.06)	0.92 (0.85-0.99) *	0.03
CVD mortality					
Adjusted HR (95% CI) [1]	1.00	0.95 (0.84-1.07)	0.84 (0.72-0.95) **	0.81 (0.72-0.92) **	<0.001
Cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.07 (0.92-1.23)	1.13 (0.98-1.31)	1.00 (0.87-1.16)	0.17
Other-cause mortality					
Adjusted HR (95% CI) [1]	1.00	0.96 (0.83-1.11)	0.99 (0.85-1.14)	1.02 (0.88-1.19)	0.76

[1] Adjusted for sex, age and energy, education, family income, smoking, alcohol use, physical activity, BMI, history of CVD (excluding stroke or myocardial infarction), diabetes and the aspirin or other antiplatelet medications regularly.

*:<0.05; **:<0.01; ***:<0.001

Supplementary Table 7 Association of dietary pattern scores with cancer-specific and CVD-specific mortality by further adjusting for the aspirin or other antiplatelet medications regularly

	Quartiles of dietary pattern score				P for trend
	Q1	Q2	Q3	Q4	
Cancer-specific					
Vegetable-based dietary pattern					
Lung cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.06 (0.81-1.39)	1.01 (0.77-1.34)	1.23 (0.93-1.62)	0.18
Liver cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.41 (0.96-2.06)	1.25 (0.84-1.85)	1.33 (0.89-2.00)	0.34
Stomach cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.30 (0.67-2.53)	1.01 (0.50-2.06)	0.78 (0.36-1.68)	0.35
Esophageal cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.58 (0.23-1.46)	0.60 (0.22-1.60)	0.68 (0.25-1.84)	0.57
Intestines cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.39 (0.92-2.08)	1.20 (0.78-1.84)	1.29 (0.80-1.97)	0.52

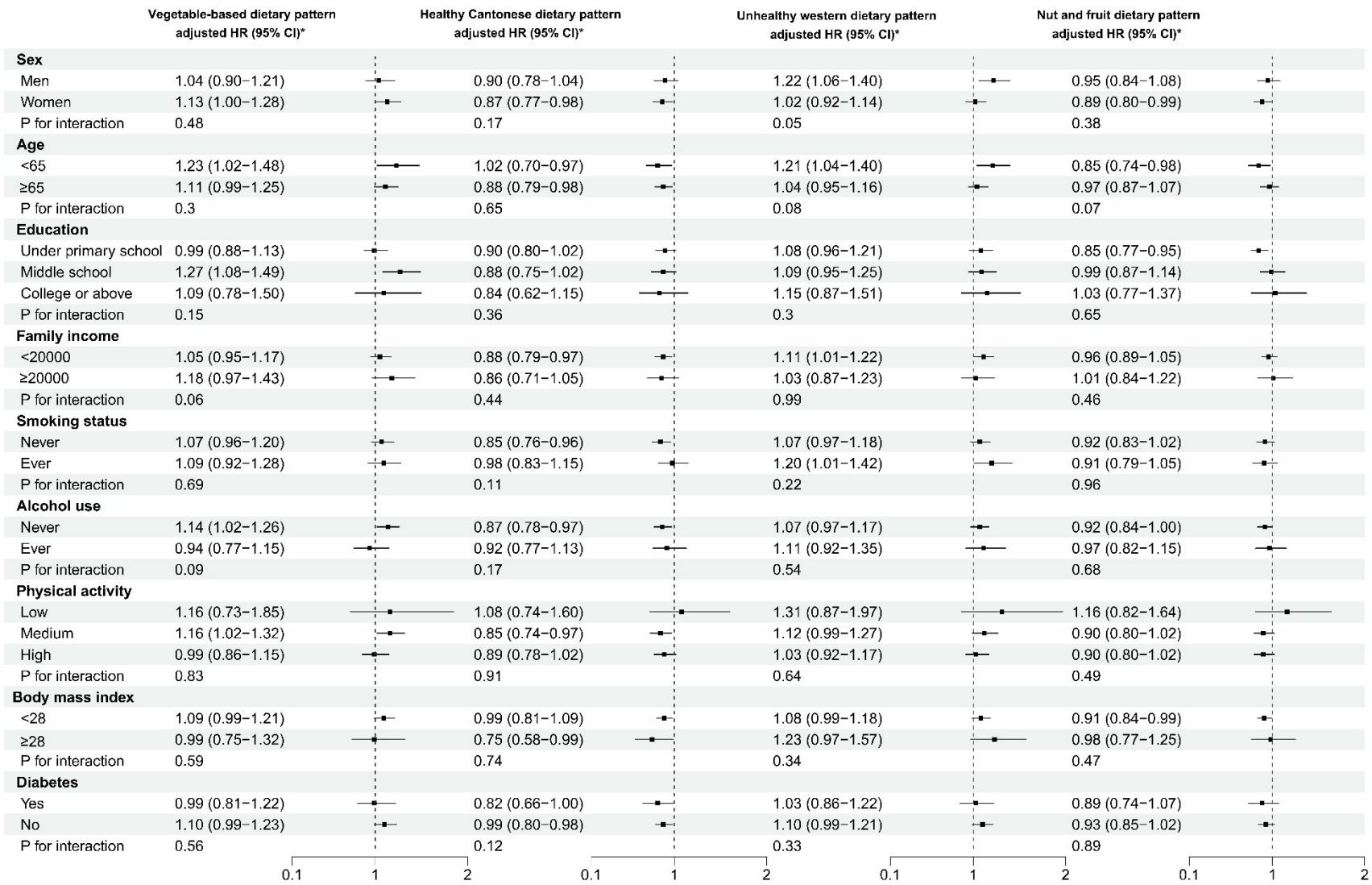
Healthy Cantonese dietary pattern					
Lung cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.93 (0.73-1.18)	0.72 (0.55-0.94) *	0.77 (0.58-0.99) *	0.03
Liver cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.15 (0.79-1.67)	1.25 (0.86-1.82)	1.02 (0.67-1.55)	0.86
Stomach cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.32 (0.66-2.64)	1.25 (0.60-2.62)	1.16 (0.52-2.60)	0.77
Esophageal cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.09 (0.41-2.86)	1.57 (0.62-3.94)	1.11 (0.39-3.13)	0.69
Intestines cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.33 (0.89-1.99)	1.09 (0.70-1.69)	1.17 (0.73-1.88)	0.76
Unhealthy western dietary pattern					
Lung cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.96 (0.73-1.26)	1.00 (0.77-1.30)	0.92 (0.70-1.20)	0.59
Liver cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.87 (0.60-1.26)	0.82 (0.57-1.19)	1.29 (0.92-1.81)	0.13
Stomach cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.98 (0.47-2.06)	1.12 (0.55-2.26)	1.37 (0.69-2.73)	0.32
Esophageal cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.47 (0.16-1.34)	0.56 (0.22-1.47)	1.18 (0.52-2.67)	0.54
Intestines cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.99 (0.66-1.50)	1.16 (0.78-1.72)	1.27 (0.86-1.90)	0.17
Nut and fruit dietary pattern					
Lung cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.19 (0.93-1.52)	1.08 (0.84-1.39)	1.26 (0.98-1.62)	0.14
Liver cancer mortality					

Adjusted HR (95% CI) [1]	1.00	1.03 (0.73-1.44)	1.13 (0.81-1.58)	1.11 (0.79-1.57)	0.45
Stomach cancer mortality					
Adjusted HR (95% CI) [1]	1.00	1.25 (0.65-2.39)	0.75 (0.35-1.60)	1.89 (0.98-3.55)	0.12
Esophageal cancer mortality					
Adjusted HR (95% CI) [1]	1.00	2.00 (0.82-4.90)	1.56 (0.61-4.03)	1.80 (0.70-4.65)	0.34
Intestines cancer mortality					
Adjusted HR (95% CI) [1]	1.00	0.92 (0.64-1.32)	0.69 (0.47-1.03)	1.00 (0.69-1.45)	0.66
CVD-specific					
Vegetable-based dietary pattern					
Hypertensive heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	1.28 (0.81-2.02)	1.42 (0.90-2.24)	1.61 (0.98-2.58)	0.07
Ischemic heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	1.11 (0.90-1.37)	1.25 (0.98-1.55)	1.16 (0.93-1.44)	0.16
Cerebrovascular disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.95 (0.76-1.20)	1.07 (0.86-1.34)	0.97 (0.77-1.23)	0.96
Typical dietary pattern					
Hypertensive heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.87 (0.60-1.27)	0.87 (0.58-1.30)	0.85 (0.54-1.34)	0.49
Ischemic heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.98 (0.82-1.18)	0.99 (0.82-1.20)	0.98 (0.80-1.22)	0.93
Cerebrovascular disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.72 (0.59-0.88) **	0.72 (0.58-0.90) **	0.80 (0.63-0.98)	0.03
Unhealthy western dietary pattern					
Hypertensive heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.88 (0.58-1.33)	1.01 (0.68-1.49)	0.92 (0.61-1.38)	0.85
Ischemic heart disease mortality					

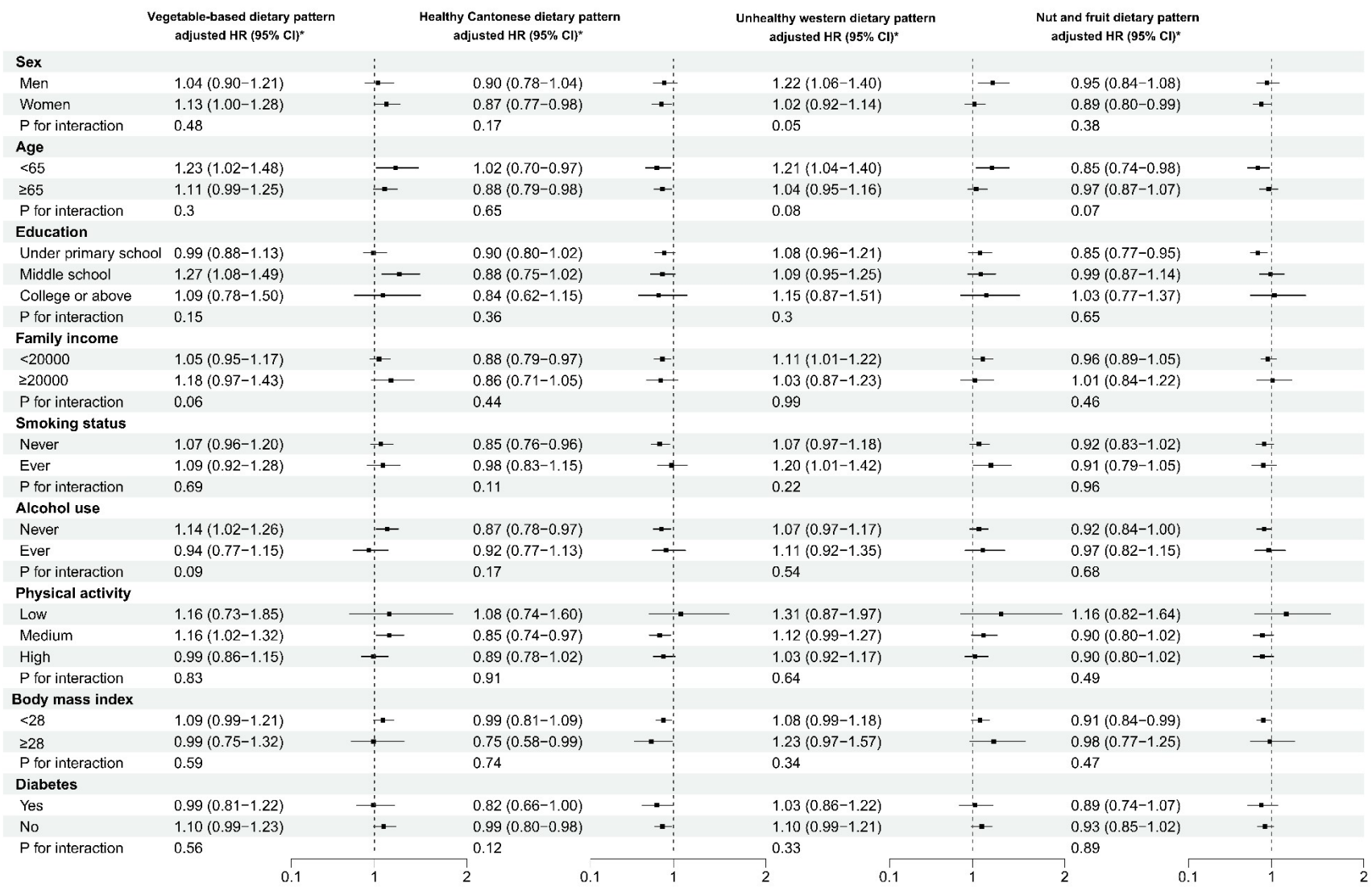
Adjusted HR (95% CI) [1]	1.00	1.15 (0.95-1.40)	0.99 (0.82-1.20)	1.03 (0.85-1.24)	0.81
Cerebrovascular disease mortality					
Adjusted HR (95% CI) [1]	1.00	1.02 (0.82-1.28)	1.07 (0.86-1.34)	1.28 (1.03-1.58) *	0.02
Nut and fruit dietary pattern					
Hypertensive heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.86 (0.58-1.28)	0.77 (0.51-1.16)	1.16 (0.79-1.69)	0.60
Ischemic heart disease mortality					
Adjusted HR (95% CI) [1]	1.00	1.00 (0.84-1.19)	0.83 (0.69-0.99) *	0.83 (0.68-0.99) *	0.02
Cerebrovascular disease mortality					
Adjusted HR (95% CI) [1]	1.00	0.85 (0.70-1.04)	0.75 (0.61-0.92) **	0.74 (0.60-0.91) **	0.002

[1] Adjusted for sex, age and energy, education, family income, smoking, alcohol use, physical activity, BMI, history of CVD (excluding stroke or myocardial infarction), diabetes and the aspirin or other antiplatelet medications regularly.

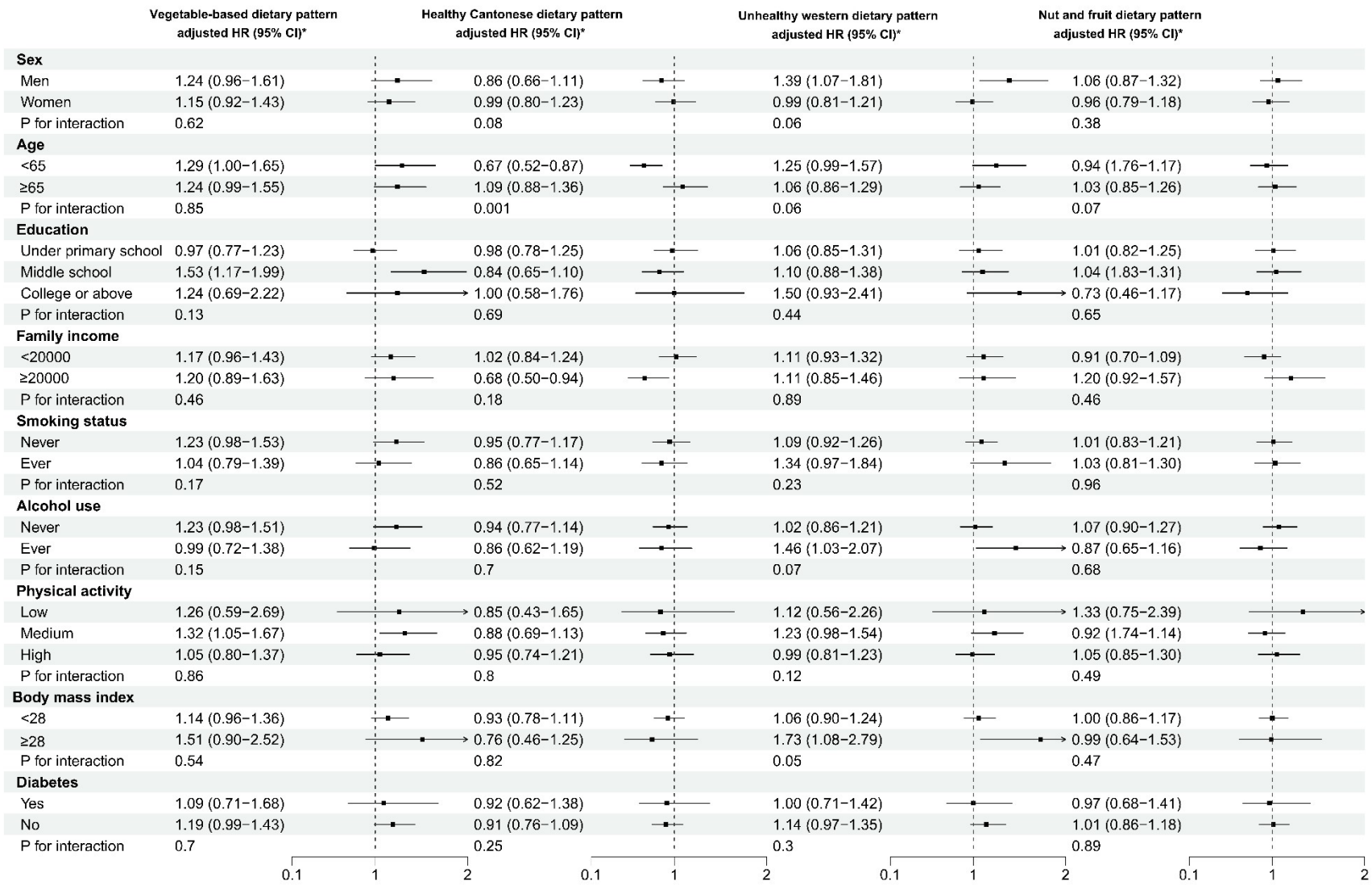
*:<0.05; **:<0.01; ***:<0.001


Vegetable-based dietary pattern adjusted HR (95% CI)*
Healthy Cantonese dietary pattern adjusted HR (95% CI)*
Unhealthy western dietary pattern adjusted HR (95% CI)*
Nut and fruit dietary pattern adjusted HR (95% CI)*
Sex
Men 1.04 (0.90−1.21) 0.90 (0.78−1.04) 1.22 (1.06−1.40) 0.95 (0.84−1.08)
Women 1.13 (1.00−1.28) 0.87 (0.77−0.98) 1.02 (0.92−1.14) 0.89 (0.80−0.99)
P for interaction 0.48 0.17 0.05 0.38
Age
<65 1.23 (1.02−1.48) 1.02 (0.70−0.97) 1.21 (1.04−1.40) 0.85 (0.74−0.98)
≥65 1.11 (0.99−1.25) 0.88 (0.79−0.98) 1.04 (0.95−1.16) 0.97 (0.87−1.07)
P for interaction 0.3 0.65 0.08 0.07
Education
Under primary school 0.99 (0.88−1.13) 0.90 (0.80−1.02) 1.08 (0.96−1.21) 0.85 (0.77−0.95)
Middle school 1.27 (1.08−1.49) 0.88 (0.75−1.02) 1.09 (0.95−1.25) 0.99 (0.87−1.14)
College or above 1.09 (0.78−1.50) 0.84 (0.62−1.15) 1.15 (0.87−1.51) 1.03 (0.77−1.37)
P for interaction 0.15 0.36 0.3 0.65
Family income
<20000 1.05 (0.95−1.17) 0.88 (0.79−0.97) 1.11 (1.01−1.22) 0.96 (0.89−1.05)
≥20000 1.18 (0.97−1.43) 0.86 (0.71−1.05) 1.03 (0.87−1.23) 1.01 (0.84−1.22)
P for interaction 0.06 0.44 0.99 0.46
Smoking status
Never 1.07 (0.96−1.20) 0.85 (0.76−0.96) 1.07 (0.97−1.18) 0.92 (0.83−1.02)
Ever 1.09 (0.92−1.28) 0.98 (0.83−1.15) 1.20 (1.01−1.42) 0.91 (0.79−1.05)
P for interaction 0.69 0.11 0.22 0.96
Alcohol use
Never 1.14 (1.02−1.26) 0.87 (0.78−0.97) 1.07 (0.97−1.17) 0.92 (0.84−1.00)
Ever 0.94 (0.77−1.15) 0.92 (0.77−1.13) 1.11 (0.92−1.35) 0.97 (0.82−1.15)
P for interaction 0.09 0.17 0.54 0.68
Physical activity
Low 1.16 (0.73−1.85) 1.08 (0.74−1.60) 1.31 (0.87−1.97) 1.16 (0.82−1.64)
Medium 1.16 (1.02−1.32) 0.85 (0.74−0.97) 1.12 (0.99−1.27) 0.90 (0.80−1.02)
High 0.99 (0.86−1.15) 0.89 (0.78−1.02) 1.03 (0.92−1.17) 0.90 (0.80−1.02)
P for interaction 0.83 0.91 0.64 0.49
Body mass index
<28 1.09 (0.99−1.21) 0.99 (0.81−1.09) 1.08 (0.99−1.18) 0.91 (0.84−0.99)
≥28 0.99 (0.75−1.32) 0.75 (0.58−0.99) 1.23 (0.97−1.57) 0.98 (0.77−1.25)
P for interaction 0.59 0.74 0.34 0.47
Diabetes
Yes 0.99 (0.81−1.22) 0.82 (0.66−1.00) 1.03 (0.86−1.22) 0.89 (0.74−1.07)
No 1.10 (0.99−1.23) 0.99 (0.80−0.98) 1.10 (0.99−1.21) 0.93 (0.85−1.02)
P for interaction 0.56 0.12 0.33 0.89
0.1 1 2
0.1 1 2
0.1 1 2
0.1 1 2

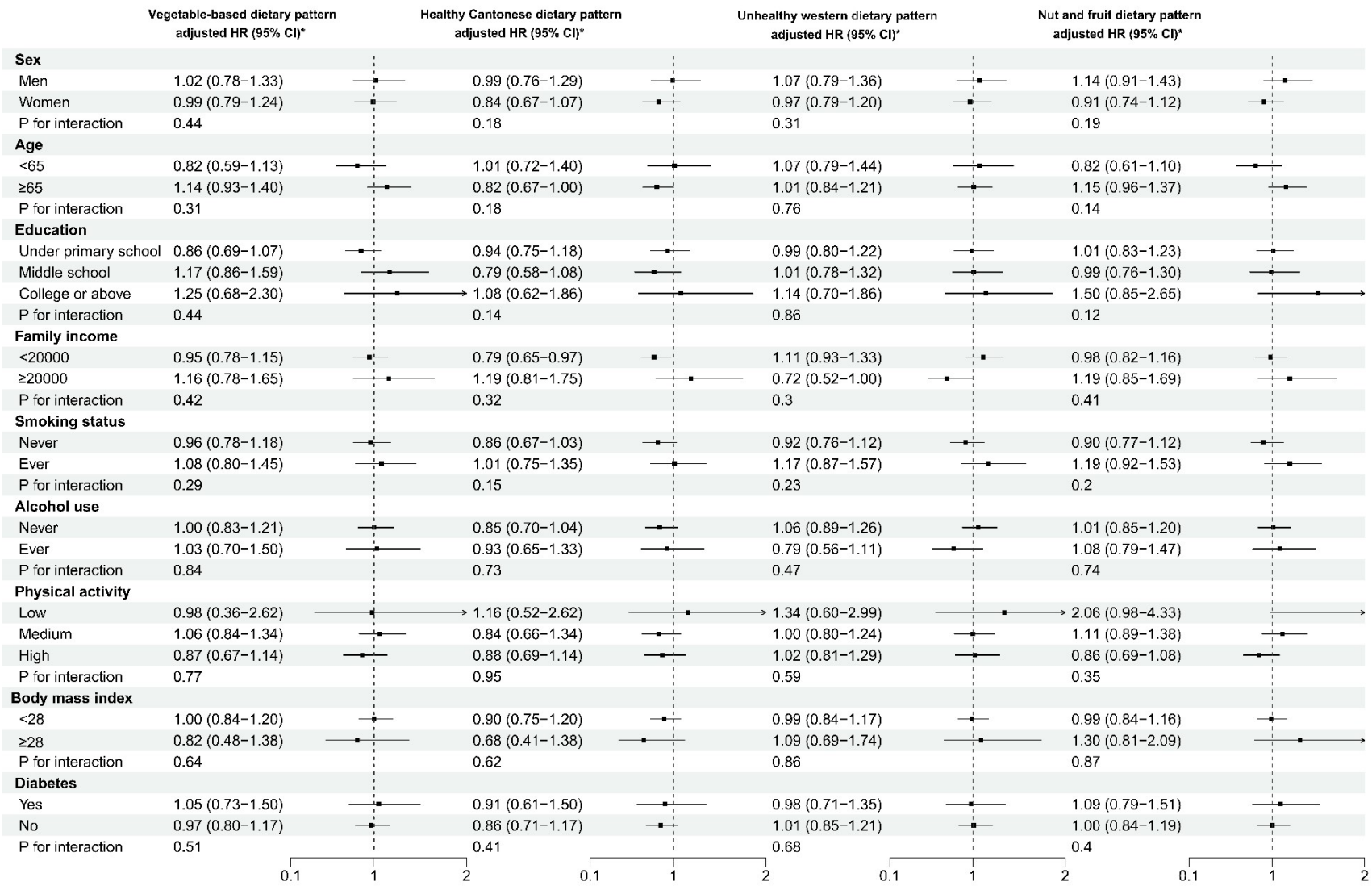
Supplementary Figure 3 Association of four dietary pattern scores with all-cause mortality by subgroup. *HRs and 95%CI of mortality analysis above were adjusted for sex, age, education, family income, smoking, alcohol use, physical activity, BMI, total energy intake, history of CVD (excluding stroke or myocardial infarction), diabetes except the corresponding subgroup variates. Dietary pattern scores in the lowest quartile (Q1) was used as reference group for all Cox models


Vegetable-based dietary pattern adjusted HR (95% CI)*
Healthy Cantonese dietary pattern adjusted HR (95% CI)*
Unhealthy western dietary pattern adjusted HR (95% CI)*
Nut and fruit dietary pattern adjusted HR (95% CI)*
Sex
Men 1.04 (0.90−1.21) 0.90 (0.78−1.04) 1.22 (1.06−1.40) 0.95 (0.84−1.08)
Women 1.13 (1.00−1.28) 0.87 (0.77−0.98) 1.02 (0.92−1.14) 0.89 (0.80−0.99)
P for interaction 0.48 0.17 0.05 0.38
Age
<65 1.23 (1.02−1.48) 1.02 (0.70−0.97) 1.21 (1.04−1.40) 0.85 (0.74−0.98)
≥65 1.11 (0.99−1.25) 0.88 (0.79−0.98) 1.04 (0.95−1.16) 0.97 (0.87−1.07)
P for interaction 0.3 0.65 0.08 0.07
Education
Under primary school 0.99 (0.88−1.13) 0.90 (0.80−1.02) 1.08 (0.96−1.21) 0.85 (0.77−0.95)
Middle school 1.27 (1.08−1.49) 0.88 (0.75−1.02) 1.09 (0.95−1.25) 0.99 (0.87−1.14)
College or above 1.09 (0.78−1.50) 0.84 (0.62−1.15) 1.15 (0.87−1.51) 1.03 (0.77−1.37)
P for interaction 0.15 0.36 0.3 0.65
Family income
<20000 1.05 (0.95−1.17) 0.88 (0.79−0.97) 1.11 (1.01−1.22) 0.96 (0.89−1.05)
≥20000 1.18 (0.97−1.43) 0.86 (0.71−1.05) 1.03 (0.87−1.23) 1.01 (0.84−1.22)
P for interaction 0.06 0.44 0.99 0.46
Smoking status
Never 1.07 (0.96−1.20) 0.85 (0.76−0.96) 1.07 (0.97−1.18) 0.92 (0.83−1.02)
Ever 1.09 (0.92−1.28) 0.98 (0.83−1.15) 1.20 (1.01−1.42) 0.91 (0.79−1.05)
P for interaction 0.69 0.11 0.22 0.96
Alcohol use
Never 1.14 (1.02−1.26) 0.87 (0.78−0.97) 1.07 (0.97−1.17) 0.92 (0.84−1.00)
Ever 0.94 (0.77−1.15) 0.92 (0.77−1.13) 1.11 (0.92−1.35) 0.97 (0.82−1.15)
P for interaction 0.09 0.17 0.54 0.68
Physical activity
Low 1.16 (0.73−1.85) 1.08 (0.74−1.60) 1.31 (0.87−1.97) 1.16 (0.82−1.64)
Medium 1.16 (1.02−1.32) 0.85 (0.74−0.97) 1.12 (0.99−1.27) 0.90 (0.80−1.02)
High 0.99 (0.86−1.15) 0.89 (0.78−1.02) 1.03 (0.92−1.17) 0.90 (0.80−1.02)
P for interaction 0.83 0.91 0.64 0.49
Body mass index
<28 1.09 (0.99−1.21) 0.99 (0.81−1.09) 1.08 (0.99−1.18) 0.91 (0.84−0.99)
≥28 0.99 (0.75−1.32) 0.75 (0.58−0.99) 1.23 (0.97−1.57) 0.98 (0.77−1.25)
P for interaction 0.59 0.74 0.34 0.47
Diabetes
Yes 0.99 (0.81−1.22) 0.82 (0.66−1.00) 1.03 (0.86−1.22) 0.89 (0.74−1.07)
No 1.10 (0.99−1.23) 0.99 (0.80−0.98) 1.10 (0.99−1.21) 0.93 (0.85−1.02)
P for interaction 0.56 0.12 0.33 0.89
0.1 1 2
0.1 1 2
0.1 1 2
0.1 1 2

Supplementary Figure 4 Association of four dietary pattern scores with CVD mortality by subgroup. *HRs and 95%CI of mortality analysis above were adjusted for sex, age, education, family income, smoking, alcohol use, physical activity, BMI, total energy intake, history of CVD (excluding stroke or myocardial infarction), diabetes except the corresponding subgroup variates. Dietary pattern scores in the lowest quartile (Q1) was used as reference group for all Cox models


Vegetable-based dietary pattern adjusted HR (95% CI)*
Healthy Cantonese dietary pattern adjusted HR (95% CI)*
Unhealthy western dietary pattern adjusted HR (95% CI)*
Nut and fruit dietary pattern adjusted HR (95% CI)*
Sex
Men 1.24 (0.96−1.61) 0.86 (0.66−1.11) 1.39 (1.07−1.81) 1.06 (0.87−1.32)
Women 1.15 (0.92−1.43) 0.99 (0.80−1.23) 0.99 (0.81−1.21) 0.96 (0.79−1.18)
P for interaction 0.62 0.08 0.06 0.38
Age
<65 1.29 (1.00−1.65) 0.67 (0.52−0.87) 1.25 (0.99−1.57) 0.94 (1.76−1.17)
≥65 1.24 (0.99−1.55) 1.09 (0.88−1.36) 1.06 (0.86−1.29) 1.03 (0.85−1.26)
P for interaction 0.85 0.001 0.06 0.07
Education
Under primary school 0.97 (0.77−1.23) 0.98 (0.78−1.25) 1.06 (0.85−1.31) 1.01 (0.82−1.25)
Middle school 1.53 (1.17−1.99) 0.84 (0.65−1.10) 1.10 (0.88−1.38) 1.04 (1.83−1.31)
College or above 1.24 (0.69−2.22) 1.00 (0.58−1.76) 1.50 (0.93−2.41) 0.73 (0.46−1.17)
P for interaction 0.13 0.69 0.44 0.65
Family income
<20000 1.17 (0.96−1.43) 1.02 (0.84−1.24) 1.11 (0.93−1.32) 0.91 (0.70−1.09)
≥20000 1.20 (0.89−1.63) 0.68 (0.50−0.94) 1.11 (0.85−1.46) 1.20 (0.92−1.57)
P for interaction 0.46 0.18 0.89 0.46
Smoking status
Never 1.23 (0.98−1.53) 0.95 (0.77−1.17) 1.09 (0.92−1.26) 1.01 (0.83−1.21)
Ever 1.04 (0.79−1.39) 0.86 (0.65−1.14) 1.34 (0.97−1.84) 1.03 (0.81−1.30)
P for interaction 0.17 0.52 0.23 0.96
Alcohol use
Never 1.23 (0.98−1.51) 0.94 (0.77−1.14) 1.02 (0.86−1.21) 1.07 (0.90−1.27)
Ever 0.99 (0.72−1.38) 0.86 (0.62−1.19) 1.46 (1.03−2.07) 0.87 (0.65−1.16)
P for interaction 0.15 0.7 0.07 0.68
Physical activity
Low 1.26 (0.59−2.69) 0.85 (0.43−1.65) 1.12 (0.56−2.26) 1.33 (0.75−2.39)
Medium 1.32 (1.05−1.67) 0.88 (0.69−1.13) 1.23 (0.98−1.54) 0.92 (1.74−1.14)
High 1.05 (0.80−1.37) 0.95 (0.74−1.21) 0.99 (0.81−1.23) 1.05 (0.85−1.30)
P for interaction 0.86 0.8 0.12 0.49
Body mass index
<28 1.14 (0.96−1.36) 0.93 (0.78−1.11) 1.06 (0.90−1.24) 1.00 (0.86−1.17)
≥28 1.51 (0.90−2.52) 0.76 (0.46−1.25) 1.73 (1.08−2.79) 0.99 (0.64−1.53)
P for interaction 0.54 0.82 0.05 0.47
Diabetes
Yes 1.09 (0.71−1.68) 0.92 (0.62−1.38) 1.00 (0.71−1.42) 0.97 (0.68−1.41)
No 1.19 (0.99−1.43) 0.91 (0.76−1.09) 1.14 (0.97−1.35) 1.01 (0.86−1.18)
P for interaction 0.7 0.25 0.3 0.89
0.1 1 2
0.1 1 2
0.1 1 2
0.1 1 2

Supplementary Figure 5 Association of four dietary pattern scores with cancer mortality by subgroup. *HRs and 95%CI of mortality analysis above were adjusted for sex, age, education, family income, smoking, alcohol use, physical activity, BMI, total energy intake, history of CVD (excluding stroke or myocardial infarction), diabetes except the corresponding subgroup variates. Dietary pattern scores in the lowest quartile (Q1) was used as reference group for all Cox models


Vegetable-based dietary pattern adjusted HR (95% CI)*
Healthy Cantonese dietary pattern adjusted HR (95% CI)*
Unhealthy western dietary pattern adjusted HR (95% CI)*
Nut and fruit dietary pattern adjusted HR (95% CI)*
Sex
Men 1.02 (0.78−1.33) 0.99 (0.76−1.29) 1.07 (0.79−1.36) 1.14 (0.91−1.43)
Women 0.99 (0.79−1.24) 0.84 (0.67−1.07) 0.97 (0.79−1.20) 0.91 (0.74−1.12)
P for interaction 0.44 0.18 0.31 0.19
Age
<65 0.82 (0.59−1.13) 1.01 (0.72−1.40) 1.07 (0.79−1.44) 0.82 (0.61−1.10)
≥65 1.14 (0.93−1.40) 0.82 (0.67−1.00) 1.01 (0.84−1.21) 1.15 (0.96−1.37)
P for interaction 0.31 0.18 0.76 0.14
Education
Under primary school 0.86 (0.69−1.07) 0.94 (0.75−1.18) 0.99 (0.80−1.22) 1.01 (0.83−1.23)
Middle school 1.17 (0.86−1.59) 0.79 (0.58−1.08) 1.01 (0.78−1.32) 0.99 (0.76−1.30)
College or above 1.25 (0.68−2.30) 1.08 (0.62−1.86) 1.14 (0.70−1.86) 1.50 (0.85−2.65)
P for interaction 0.44 0.14 0.86 0.12
Family income
<20000 0.95 (0.78−1.15) 0.79 (0.65−0.97) 1.11 (0.93−1.33) 0.98 (0.82−1.16)
≥20000 1.16 (0.78−1.65) 1.19 (0.81−1.75) 0.72 (0.52−1.00) 1.19 (0.85−1.69)
P for interaction 0.42 0.32 0.3 0.41
Smoking status
Never 0.96 (0.78−1.18) 0.86 (0.67−1.03) 0.92 (0.76−1.12) 0.90 (0.77−1.12)
Ever 1.08 (0.80−1.45) 1.01 (0.75−1.35) 1.17 (0.87−1.57) 1.19 (0.92−1.53)
P for interaction 0.29 0.15 0.23 0.2
Alcohol use
Never 1.00 (0.83−1.21) 0.85 (0.70−1.04) 1.06 (0.89−1.26) 1.01 (0.85−1.20)
Ever 1.03 (0.70−1.50) 0.93 (0.65−1.33) 0.79 (0.56−1.11) 1.08 (0.79−1.47)
P for interaction 0.84 0.73 0.47 0.74
Physical activity
Low 0.98 (0.36−2.62) 1.16 (0.52−2.62) 1.34 (0.60−2.99) 2.06 (0.98−4.33)
Medium 1.06 (0.84−1.34) 0.84 (0.66−1.34) 1.00 (0.80−1.24) 1.11 (0.89−1.38)
High 0.87 (0.67−1.14) 0.88 (0.69−1.14) 1.02 (0.81−1.29) 0.86 (0.69−1.08)
P for interaction 0.77 0.95 0.59 0.35
Body mass index
<28 1.00 (0.84−1.20) 0.90 (0.75−1.20) 0.99 (0.84−1.17) 0.99 (0.84−1.16)
≥28 0.82 (0.48−1.38) 0.68 (0.41−1.38) 1.09 (0.69−1.74) 1.30 (0.81−2.09)
P for interaction 0.64 0.62 0.86 0.87
Diabetes
Yes 1.05 (0.73−1.50) 0.91 (0.61−1.50) 0.98 (0.71−1.35) 1.09 (0.79−1.51)
No 0.97 (0.80−1.17) 0.86 (0.71−1.17) 1.01 (0.85−1.21) 1.00 (0.84−1.19)
P for interaction 0.51 0.41 0.68 0.4
0.1 1 2
0.1 1 2
0.1 1 2
0.1 1 2

Supplementary Figure 6 Association of four dietary pattern scores with other-cause mortality by subgroup. *HRs and 95%CI of mortality analysis above were adjusted for sex, age, education, family income, smoking, alcohol use, physical activity, BMI, total energy intake, history of CVD (excluding stroke or myocardial infarction), diabetes except the corresponding subgroup variates. Dietary pattern scores in the lowest quartile (Q1) was used as reference group for all Cox models