

Supplementary Table 1. Agreement of cross-classification quartiles for crude and energy-adjusted food groups intake assessed by FFQ1 and FFQ2

Main food items and food groups	Crude				Energy-adjusted [†]			
	Quartile (%)			κ_w	Quartile (%)			κ_w
	Exact	Exact or adjacent	Extreme		Exact	Exact or adjacent	Extreme	
Cereals and cereal products	48.06	86.05	0.78	0.43	47.29	84.50	3.88	0.47
Snacks/desserts	53.08	90.00	0	0.43	46.15	83.85	2.31	0.55
Milk and dairy	51.94	86.82	0	0.40	40.31	85.27	1.55	0.52
Red meat	40.31	79.85	7.75	0.27	36.43	79.07	6.98	0.32
Poultry	57.36	84.50	0.78	0.56	50.39	93.80	0	0.40
Processed meat	54.26	80.62	2.33	0.43	43.41	87.60	2.33	0.50
Fish and seafood	48.84	86.82	1.55	0.45	44.96	85.27	0	0.49
Eggs	45.74	85.27	1.55	0.36	41.09	81.40	3.10	0.46
Pickled foods	50.39	92.25	0	0.52	51.16	89.15	0.78	0.55
Tubers	41.86	81.40	1.55	0.34	40.31	79.07	3.10	0.39
Fresh vegetables	50.39	89.92	0.78	0.48	51.94	86.05	3.10	0.52
Legumes and legume products	39.53	81.40	0	0.43	45.74	85.27	2.33	0.37
Fresh fruits	40.00	82.31	2.31	0.25	35.39	76.92	6.15	0.36
Nuts	42.64	86.82	1.55	0.24	36.43	75.97	8.53	0.45
Tea	78.46	85.38	5.38	0.51	51.54	89.23	2.31	0.70
Sugar drink	66.92	90.77	0.77	0.49	48.46	90.00	3.08	0.50
Coffee	88.37	88.37	11.63	0.50	49.61	87.60	0.78	0.50
Alcohol	44.11	82.15	5.06	0.42	49.61	82.17	4.65	0.49

FFQ1, first FFQ administration; FFQ2, second FFQ administration; κ_w , weighted κ .

[†] Energy-adjusted intakes by the residual method.

Supplementary Table 2. Agreement of cross-classification quartiles for crude and energy-adjusted nutrients intake assessed by FFQ1 and FFQ2

Nutrients	Crude				Energy-adjusted [†]			
	Quartile (%)			K _w	Quartile (%)			K _w
	Exact	Exact or adjacent	Extreme		Exact	Exact or adjacent	Extreme	
Energy (kcal)	44.27	83.97	0	0.43	-	-	-	-
Protein (g)	41.09	83.72	0.78	0.27	42.64	73.64	7.75	0.40
Fat (g)	44.96	81.40	0.78	0.35	44.19	76.74	3.10	0.41
Carbohydrate (g)	46.51	83.72	1.55	0.36	43.41	80.62	4.65	0.43
Fiber (g)	48.86	87.79	0.76	0.49	49.62	89.31	3.05	0.49
Soluble fiber (g)	41.98	85.50	0.76	0.33	41.22	77.86	3.05	0.42
Insoluble fiber (g)	45.04	87.79	0	0.48	46.56	90.84	2.29	0.46
Cholesterol (mg)	44.96	83.72	1.55	0.37	41.86	84.50	5.43	0.42
SFA (g)	42.64	82.95	0	0.40	48.06	82.17	6.20	0.41
MUFA (g)	42.31	76.15	3.08	0.31	38.46	79.23	3.85	0.33
PUFA (g)	39.23	80.00	3.85	0.28	36.15	76.92	3.85	0.33
Vitamin A (µg)	51.16	91.47	0	0.31	40.31	77.52	4.65	0.55
Carotene (µg)	52.71	83.72	1.55	0.37	41.86	82.17	3.10	0.48
Retinol (µg)	55.04	87.60	0	0.36	47.29	75.97	3.88	0.55
Thiamine (mg)	44.96	84.50	0.78	0.29	41.09	75.19	6.20	0.43
Riboflavin (mg)	44.96	90.70	0.78	0.36	44.19	82.95	7.75	0.48
Niacin (mg)	45.74	86.82	0.78	0.53	52.71	89.15	0.78	0.46
Folate (µg)	43.80	85.12	1.20	0.42	42.50	80.34	2.10	0.44
Vitamin C (mg)	49.23	88.46	2.31	0.36	41.54	83.85	5.38	0.49

Vitamin E (mg)	43.41	82.17	0	0.31	38.76	79.07	4.65	0.41
Calcium (mg)	37.21	87.60	0.78	0.26	37.21	75.97	6.20	0.40
Phosphorus (mg)	35.66	86.05	0.78	0.42	44.19	85.27	2.33	0.37
Potassium (mg)	44.96	87.60	2.33	0.41	48.06	82.17	4.65	0.45
Magnesium (mg)	48.84	88.37	0.78	0.48	47.29	89.15	1.55	0.50
Iron (mg)	46.51	80.62	0	0.42	49.61	82.95	5.43	0.42
Zinc (mg)	41.09	82.17	0.78	0.42	46.51	83.72	3.10	0.39
Selenium (µg)	46.51	85.27	0	0.41	44.96	85.27	4.65	0.46
Copper (mg)	48.84	86.05	1.55	0.43	44.96	83.72	0	0.47
Manganese (mg)	48.84	82.95	0	0.40	42.64	83.72	2.33	0.46

FFQ1, first FFQ administration; FFQ2, second FFQ administration; MUFA, monounsaturated fatty acids; PUFA, polyunsaturated fatty acid; SFA, saturated fatty acids; κ_w , weighted κ .

[†] Energy-adjusted intakes by the residual method.

Supplemental Table 3. Agreement of cross-classification quartiles for crude and energy-adjusted food groups intake assessed by WDRs and FFQ

Main food items and food groups	Crude				Energy-adjusted [†]			
	Quartile (%)			κ_w	Quartile (%)			κ_w
	Exact	Exact or adjacent	Extreme		Exact	Exact or adjacent	Extreme	
Cereals and cereal products	43.55	83.06	2.42	0.39	39.52	80.65	4.03	0.32
Snacks/desserts	36.29	76.61	5.65	0.31	34.68	72.58	6.45	0.26
Milk and dairy	43.55	80.65	2.42	0.4	41.94	79.03	3.23	0.36
Red meat	33.87	71.77	8.06	0.24	32.26	68.55	8.87	0.2
Poultry	39.52	77.42	4.84	0.34	36.29	75.00	5.65	0.28
Processed meat	38.71	76.61	4.84	0.33	35.48	73.39	6.45	0.27
Fish and seafood	41.13	79.84	3.23	0.36	37.9	76.61	4.84	0.3
Eggs	37.10	75.00	5.65	0.30	34.68	72.58	6.45	0.24
Pickled foods	44.35	83.87	2.42	0.43	42.74	81.45	3.23	0.38
Tubers	35.48	73.39	6.45	0.28	33.06	70.97	7.26	0.22
Fresh vegetables	33.87	70.97	7.26	0.25	34.68	71.77	7.26	0.23
Legumes and legume products	39.52	78.23	4.03	0.35	37.1	75.81	5.65	0.29
Fresh fruits	30.65	66.94	9.68	0.18	31.45	67.74	8.87	0.2
Nuts	32.26	69.35	8.06	0.22	30.65	66.13	9.68	0.18
Tea	48.39	85.48	1.61	0.48	45.16	83.06	2.42	0.42
Sugar drink	45.97	84.68	2.42	0.42	41.94	80.65	4.03	0.35
Coffee	46.77	84.68	3.23	0.46	43.55	82.26	3.23	0.39
Alcohol	42.74	80.65	4.03	0.38	40.32	77.42	5.65	0.31

FFQ, mean of FFQ1 and FFQ2; WDRs, 8-day weighed diet records; κ_w , weighted κ .

[†] Energy-adjusted intakes by the residual method.

Supplemental Table 4. Agreement of cross-classification quartiles for crude and energy-adjusted nutrients intake assessed by WDRs and FFQ

Nutrients	Crude				Energy-adjusted [†]			
	Quartile (%)			κ_w	Quartile (%)			κ_w
	Exact	Exact or adjacent	Extreme		Exact	Exact or adjacent	Extreme	
Energy (kcal)	38.40	80.78	1.60	0.34	-	-	-	-
Protein (g)	35.48	77.42	3.23	0.28	36.29	75.81	4.84	0.30
Fat (g)	39.52	81.45	3.23	0.34	34.68	73.39	6.45	0.24
Carbohydrate (g)	36.29	79.03	2.42	0.28	37.10	76.61	4.84	0.31
Fiber (g)	30.65	69.35	8.06	0.15	41.13	78.23	4.03	0.34
Soluble fiber (g)	33.87	71.77	5.65	0.25	38.71	75.00	4.84	0.29
Insoluble fiber (g)	29.84	68.55	8.87	0.14	39.52	77.42	5.65	0.32
Cholesterol (mg)	31.45	72.58	6.45	0.17	30.65	66.94	8.06	0.16
SFA (g)	33.06	73.39	4.84	0.20	39.52	78.23	3.23	0.33
MUFA (g)	36.29	78.23	4.03	0.28	31.45	67.74	7.26	0.18
PUFA (g)	38.71	80.65	3.23	0.33	33.87	72.58	6.45	0.21
Vitamin A (μg)	34.68	74.19	5.65	0.24	35.48	71.77	7.26	0.23
Carotene (μg)	34.68	75.00	5.65	0.24	36.29	74.19	6.45	0.25
Retinol (μg)	34.68	74.19	4.84	0.24	31.45	68.55	7.26	0.18
Thiamine (mg)	40.32	79.84	2.42	0.32	33.87	71.77	6.45	0.22
Riboflavin (mg)	40.32	80.65	2.42	0.32	40.32	78.23	3.23	0.34
Niacin (mg)	40.32	81.45	1.61	0.32	44.35	82.26	2.42	0.39
Folate (μg)	37.10	76.61	4.03	0.26	38.71	77.42	4.03	0.3
Vitamin C (mg)	36.29	73.39	4.84	0.26	42.74	79.03	3.23	0.35

Vitamin E (mg)	39.52	82.26	4.03	0.23	43.55	81.45	3.23	0.37
Calcium (mg)	40.32	78.23	2.42	0.33	31.45	70.16	6.45	0.17
Phosphorus (mg)	39.52	80.65	2.42	0.33	45.16	83.06	1.61	0.4
Potassium (mg)	40.32	79.84	3.23	0.32	37.1	75.81	4.84	0.28
Magnesium (mg)	40.32	80.65	3.23	0.32	41.13	80.65	3.23	0.34
Iron (mg)	43.55	83.06	1.61	0.37	37.90	76.61	4.84	0.29
Zinc (mg)	33.06	70.97	7.26	0.18	41.94	80.65	3.23	0.36
Selenium (µg)	39.52	81.45	3.23	0.34	36.29	74.19	6.45	0.25
Copper (mg)	38.71	78.23	4.03	0.30	44.35	82.26	2.42	0.38
Manganese (mg)	39.52	80.65	3.23	0.34	42.74	81.45	3.23	0.36

FFQ, food frequency questionnaire; WDR, weighed diet record.

MUFA, monounsaturated fatty acids; PUFA, polyunsaturated fatty acid; SFA, saturated fatty acids; κ_w , weighted κ .

[†]Energy-adjusted intakes by the residual method.