Web Table 1. Subject characteristics for women in the original NHS/NHSII cohorts, women who were invited, responded and agreed to participate, and women who were included in the final analysis.

Variables, Mean (SD)	NHS1 (1976-2012)					NHS2 (1989-2011)				
	Original cohort	Invited[a] participants	Responded[b] participants	Consented participants	Final study[c] participants	Original cohort	Invited[a] participants	Responded[b] participants	Consented participants	Final study[c] participants
Number	121,701	3,313	1,229	359	272	116,671	2,190	1,194	437	360
Age, years										
Original baseline	42.9 (7.3)	37.3 (4.6)	36.8 (4.4)	37.2 (4.4)	36.9 (4.3)	34.5 (4.7)	34.7 (5.0)	34.4 (5.1)	33.9 (5.2)	33.8 (5.2)
WLVS enrollment	77.9 (15.1)	72.3 (4.6)	71.8 (4.4)	71.2 (4.4)	70.9 (4.3)	56.3 (4.7)	56.5 (5.0)	56.2 (5.1)	54.4 (5.2)	54.3 (5.2)
Height, m	1.64 (0.06)	1.64 (0.06)	1.64 (0.06)	1.62 (0.06)	1.62 (0.06)	1.65 (0.07)	1.65 (0.07)	1.65 (0.07)	1.66 (0.07)	1.66 (0.07)
BMI, kg/m2										
Original baseline	23.6 (4.7)	22.5 (3.9)	22.1 (3.5)	21.6 (3.1)	21.5 (3.3)	24.1 (5.1)	24.5 (5.1)	24.1 (4.9)	23.2 (4.2)	23.1 (4.2)
WLVS enrollment	26.2 (5.4)	26.3 (5.1)	26.0 (4.9)	26.0 (4.8)	26.2 (4.8)	27.7 (6.4)	28.3 (6.6)	28.0 (6.7)	26.7 (5.7)	26.8 (5.8)
Current smokers, %										
Original baseline	33.1	23.0	22.9	25.6	25.4	13.5	10.4	10.5	8.0	8.1
WLVS enrollment	4.8	2.7	2.2	1.2	1.1	5.3	4.4	3.8	3.5	2.5
White, %	93.7	85.7	92.8	95.0	96.0	92.4	63.1	77.1	86.3	86.1

Abbreviations: SD, standard deviation; NHS, Nurses' Health Study; BMI, body mass index.

[a] The percentage of white population was low in the invited participants as we tried to oversample African-Americans so this ethnic group would comprise approximately 25% of participants from both NHS & NHSII cohorts.

[b] The large decrease between responded and consented was in part due to lack of broadband and other inclusion and exclusions criterions. Inclusion criteria: women who had completed the 2006/2007 cohort SFFQ, had previously provided blood samples, had access to broadband internet, and were not planning to make substantial changes in their diet nor their physical activity levels. Women with medical history of coronary heart disease, stroke, cancer, or major neurological disease were excluded. Among responded participants, about 62% were interested and eligible to participant in the study.

[c] A small group of women in WLVS had participated in previous validations in 1980 (N=13) or 1986 (N=19).

Web Table 2: Mean Absolute Daily Nutrient Intakes Estimated by SFFQs, Averaged 7DDRs, and Averaged ASA24s, Nutrients Not Included in the Main Table 2 (Data Provided by 632 U.S. Female Nurses Aged 45-80 Years, 2010-2012)

Nutrient	SFFQ2		SFFQ1		WebFFQ		7DDRs		ASA24s	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Butyric FA (g)	0.46	(0.28)	0.47	(0.29)	0.45	(0.26)	0.54	(0.28)	0.62	(0.43)
Capric FA (g)	0.36	(0.21)	0.37	(0.21)	0.35	(0.2)	0.47	(0.25)	0.51	(0.35)
Caproic FA (g)	0.24	(0.15)	0.24	(0.16)	0.23	(0.14)	0.27	(0.16)	0.32	(0.22)
Caprylic FA (g)	0.18	(0.11)	0.18	(0.11)	0.17	(0.1)	0.27	(0.17)	0.27	(0.20)
Gadoleic FA (g)	0.24	(0.12)	0.25	(0.13)	0.23	(0.12)	0.21	(0.09)	0.21	(0.12)
Myristic FA (g)	1.7	(0.9)	1.8	(0.9)	1.7	(0.8)	2.1	(0.9)	2.2	(1.3)
Palmitic FA (g)	12.3	(4.5)	12.6	(4.6)	11.8	(4.4)	11.6	(3.5)	12.8	(5.1)
Palmitoleic FA (g)	1.0	(0.4)	1.0	(0.4)	1.0	(0.4)	1.0	(0.4)	1.1	(0.5)
Stearic FA (g)	5.5	(2.4)	5.6	(2.4)	5.3	(2.3)	5.3	(1.8)	6.2	(3.0)
Total folate (mcg)	458	(181)	478	(170)	443	(159)	388	(122)	376	(147)
With supplements	743	(355)	772	(323)	722	(308)	671	(366)		
Alpha carotene with supplements (mcg)	855	(766)	920	(872)	850	(767)	611	(489)		
Lutein-zeaxanthin with supplements (mcg)	3925	(3178)	3877	(2638)	3818	(2523)	2702	(2788)		
Lycopene with supplements (mcg)	5602	(3980)	5743	(4487)	5713	(4610)	4976	(3565)		
Beta cryptoxanthin with supplements (mcg)	111	(96)	120	(103)	107	(94)	154	(181)		

Abbreviations: SD, standard deviation; FA, fatty acid; SFFQ, The semi-quantitative food frequency questionnaire; WebFFQ: web-based version of the SFFQ; 7DDR, 7 Day Dietary Records; ASA24, Web-based, automated-self-administered 24-hour dietary recall.

Web Table 3: Rank Intraclass Correlations of SFFQ, 7DDR and ASA24, Nutrients Not Included in the Main Table 3 (Data Provided by 632 U.S. Female Nurses Aged 45-80 Years, 2010-2012)

Nutrient	SFFQ			7DDR			ASA24		
	Un-adjusted	Energy density	Residual method	Un-adjusted	Energy density	Residual method	Un-adjusted	Energy density	Residual method
Butyric FA (g)	0.66	0.62	0.61	0.59	0.55	0.53	0.25	0.22	0.19
Capric FA (g)	0.68	0.65	0.65	0.58	0.53	0.52	0.26	0.23	0.21
Caproic FA (g)	0.67	0.63	0.63	0.59	0.56	0.55	0.26	0.23	0.21
Caprylic FA (g)	0.66	0.64	0.64	0.54	0.49	0.48	0.23	0.20	0.18
Gadoleic FA (g)	0.64	0.60	0.60	0.44	0.38	0.38	0.15	0.11	0.11
Myristic FA (g)	0.68	0.64	0.64	0.61	0.57	0.55	0.25	0.21	0.19
Palmitic FA (g)	0.71	0.68	0.68	0.65	0.66	0.65	0.28	0.25	0.25
Palmitoleic FA (g)	0.68	0.61	0.61	0.62	0.58	0.58	0.24	0.22	0.21
Stearic FA (g)	0.70	0.70	0.70	0.64	0.64	0.64	0.27	0.25	0.24
Total folate (mcg)	0.62	0.59	0.58	0.61	0.58	0.58	0.25	0.22	0.22
With supplements	0.65	0.65	0.64	0.74	0.72	0.74			
Alpha carotene with supplements (mcg)	0.69	0.65	0.65	0.37	0.37	0.37			
Lutein-zeaxanthin with supplements (mcg)	0.71	0.69	0.69	0.52	0.51	0.52			
Lycopene with supplements (mcg)	0.63	0.56	0.56	0.24	0.23	0.23			
Beta cryptoxanthin with supplements (mcg)	0.74	0.72	0.72	0.31	0.31	0.31			

Abbreviations: SD, standard deviation; FA, fatty acid; SFFQ, The semi-quantitative food frequency questionnaire; 7DDR, 7 Day Dietary Records; ASA24, Web-based, automated-self-administered 24-hour dietary recall.

Web Table 4: Spearman Correlation Coefficient for Comparison of Daily Nutrient Intake From SFFQ2 with 7DDRs, and ASA24s, Unadjusted and Energy-adjusted Using Energy Density and Residual Method, Nutrients Not Included in the Main Table 4 (Data Provided by 632 U.S. Female Nurses Aged 45-80 Years, 2010-2012)

Nutrient	SFFQ2 vs. 7DDRs						SFFQ2 vs. ASA24s					
	Un-adjusted	Energy-adjusted					Un-adjusted	Energy-adjusted				
		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC
Butyric FA (g)	0.53	0.55	0.52	0.63	(0.55, 0.69)	0.53	0.45	0.44	0.39	0.60	(0.47, 0.69)	0.19
Capric FA (g)	0.48	0.50	0.48	0.58	(0.50, 0.64)	0.52	0.42	0.40	0.37	0.56	(0.44, 0.65)	0.21
Caproic FA (g)	0.55	0.56	0.53	0.63	(0.56, 0.69)	0.55	0.48	0.47	0.42	0.63	(0.52, 0.72)	0.21
Caprylic FA (g)	0.42	0.42	0.41	0.50	(0.41, 0.57)	0.48	0.39	0.35	0.32	0.51	(0.38, 0.61)	0.18
Gadoleic FA (g)	0.26	0.33	0.33	0.44	(0.35, 0.53)	0.38	0.16	0.23	0.24	0.45	(0.30, 0.59)	0.11
Myristic FA (g)	0.48	0.52	0.51	0.60	(0.53, 0.67)	0.55	0.44	0.43	0.42	0.65	(0.53, 0.74)	0.19
Palmitic FA (g)	0.42	0.62	0.62	0.70	(0.64, 0.74)	0.65	0.42	0.59	0.56	0.74	(0.63, 0.82)	0.25
Palmitoleic FA (g)	0.41	0.51	0.51	0.58	(0.51, 0.65)	0.58	0.36	0.43	0.43	0.64	(0.53, 0.72)	0.21
Stearic FA (g)	0.43	0.59	0.60	0.68	(0.61, 0.73)	0.64	0.44	0.55	0.51	0.70	(0.60, 0.79)	0.24
Total folate	0.44	0.54	0.55	0.63	(0.56, 0.69)	0.58	0.35	0.41	0.41	0.57	(0.46, 0.66)	0.22
With supplements	0.66	0.69	0.70	0.76	(0.71, 0.80)	0.74						
Alpha carotene with supplements (mcg)	0.49	0.48	0.47	0.64	(0.54, 0.71)	0.37						
Lutein-zeaxanthin with supplements (mcg)	0.51	0.53	0.52	0.63	(0.56, 0.70)	0.52						
Lycopene with supplements (mcg)	0.40	0.38	0.37	0.61	(0.45, 0.72)	0.23						
Beta cryptoxanthin with supplements (mcg)	0.36	0.38	0.38	0.55	(0.43, 0.64)	0.31						
Alcohol intake [a]	0.86	N/A	N/A	0.91	(0.89, 0.93)	0.81	0.75	N/A	N/A	0.84	(0.78, 0.88)	0.47

Abbreviations: CI, confidence interval; ICC, intra class correlation; FA, fatty acid; SFFQ, The semi-quantitative food frequency questionnaire; 7DDR, 7 Day Dietary Records; ASA24, Web-based, automated-self-administered 24-hour dietary recall.

[a]Alcohol intake usually didn't adjust for energy intake in most epidemiologic studies; therefore this table presented the unadjusted and de-attenuated spearman correlation coefficient for alcohol intake.

Web Table 5: Pearson Correlation Coefficient for Comparison of Daily Nutrient Intake From SFFQ2 with Averaged 7DDRs, and Averaged ASA24s, Unadjusted and Energy-adjusted (Data Provided by 632 U.S. Female Nurses Aged 45-80 Years, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR						SFFQ2 vs. ASA24					
	Un-adjusted	Energy-adjusted					Un-adjusted	Energy-adjusted				
		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC
Total energy (kcal)	0.30			0.33	(0.25, 0.41)	0.64	0.32			0.43	(0.33, 0.52)	0.30
Total fat (g)	0.37	0.62	0.60	0.68	(0.62, 0.73)	0.67	0.35	0.58	0.56	0.77	(0.64, 0.85)	0.22
Saturated fat (g)	0.46	0.63	0.63	0.70	(0.65, 0.75)	0.67	0.46	0.55	0.58	0.74	(0.63, 0.82)	0.25
Polyunsaturated fat (g)	0.30	0.47	0.49	0.60	(0.52, 0.67)	0.50	0.25	0.44	0.44	0.74	(0.55, 0.86)	0.13
Monounsaturated fat (g)	0.39	0.52	0.51	0.59	(0.52, 0.65)	0.61	0.32	0.43	0.42	0.63	(0.51, 0.73)	0.20
Arachadonic FA (g)	0.43	0.39	0.48	0.57	(0.49, 0.64)	0.54	0.31	0.29	0.36	0.49	(0.32, 0.63)	0.14
Lauric FA (g)	0.36	0.30	0.37	0.47	(0.37, 0.55)	0.45	0.35	0.15	0.33	0.48	(0.36, 0.59)	0.21
Linoleic FA (g)	0.31	0.45	0.47	0.58	(0.49, 0.65)	0.50	0.26	0.43	0.44	0.75	(0.56, 0.87)	0.12
Linolenic FA (g)	0.38	0.57	0.52	0.64	(0.56, 0.71)	0.50	0.29	0.41	0.37	0.61	(0.46, 0.72)	0.15
N-3 (DHA+EPA) FA (g)	0.54	0.43	0.54	0.70	(0.61, 0.77)	0.44	0.24	0.30	0.28	0.57	(0.32, 0.75)	0.08
With supplements	0.65	0.46	0.64	0.73	(0.67, 0.79)	0.61						
Oleic FA (g)	0.39	0.51	0.50	0.58	(0.51, 0.64)	0.60	0.32	0.42	0.41	0.63	(0.50, 0.73)	0.19
Cholesterol (mg)	0.52	0.56	0.58	0.68	(0.61, 0.74)	0.59	0.40	0.40	0.42	0.73	(0.57, 0.84)	0.14
Protein (g)	0.34	0.50	0.50	0.56	(0.48, 0.62)	0.63	0.31	0.39	0.39	0.56	(0.45, 0.66)	0.22
Carbohydrate (g)	0.44	0.69	0.71	0.75	(0.70, 0.79)	0.78	0.46	0.61	0.65	0.78	(0.71, 0.84)	0.39
Total sugar (g)	0.56	0.69	0.71	0.77	(0.73, 0.81)	0.77	0.56	0.64	0.64	0.77	(0.70, 0.83)	0.38
Fiber (g)	0.48	0.64	0.64	0.68	(0.62, 0.73)	0.75	0.42	0.53	0.53	0.67	(0.58, 0.75)	0.32
Alcohol (g)	0.73	0.83	0.72	0.82	(0.77, 0.86)	0.65	0.60	0.75	0.59	0.67	(0.61, 0.73)	0.51
Retinol activity eqvts (mcg)	0.45	0.32	0.49	0.68	(0.57, 0.76)	0.35	0.39	0.51	0.41	0.59	(0.47, 0.69)	0.21
With supplements	0.66	0.42	0.65	0.74	(0.68, 0.79)	0.63						
Alpha carotene (mcg)	0.51	0.34	0.50	0.69	(0.58, 0.78)	0.35	0.33	0.74	0.32	0.61	(0.44, 0.75)	0.11
Beta carotene (mcg)	0.53	0.47	0.54	0.68	(0.60, 0.75)	0.46	0.44	0.61	0.45	0.67	(0.55, 0.76)	0.21
With supplements	0.52	0.38	0.50	0.63	(0.54, 0.69)	0.46						
Lutein-zeaxanthin (mcg)	0.55	0.53	0.57	0.70	(0.62, 0.76)	0.51	0.46	0.45	0.49	0.72	(0.61, 0.81)	0.22
Lycopene (mcg)	0.37	0.42	0.35	0.71	(0.42, 0.87)	0.14	0.12	0.23	0.08	0.18	(0.01, 0.35)	0.09
Beta cryptoxanthin (mcg)	0.36	0.22	0.39	0.57	(0.45, 0.67)	0.30	0.33	0.37	0.36	0.49	(0.33, 0.62)	0.14

Web Table 5 (continued): Pearson Correlation Coefficient for Comparison of Daily Nutrient Intake From SFFQ2 with Averaged 7DDRs, and Averaged ASA24s, Unadjusted and Energy-adjusted (Data Provided by 632 U.S. Female Nurses Aged 45-80 Years, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR						SFFQ2 vs. ASA24					
	Un-adjusted	Energy-adjusted					Un-adjusted	Energy-adjusted				
		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC
Vitamin B1 (mg)	0.37	0.31	0.49	0.59	(0.51, 0.66)	0.52	0.33	0.32	0.40	0.62	(0.49, 0.73)	0.18
With supplements	0.75	0.36	0.74	0.80	(0.75, 0.83)	0.77						
Vitamin B2 (mg)	0.53	0.48	0.60	0.67	(0.61, 0.72)	0.69	0.47	0.48	0.53	0.70	(0.61, 0.77)	0.31
With supplements	0.72	0.48	0.71	0.78	(0.73, 0.82)	0.73						
Vitamin B3 (mg)	0.38	0.45	0.49	0.58	(0.50, 0.64)	0.57	0.31	0.35	0.39	0.60	(0.47, 0.71)	0.18
With supplements	0.75	0.75	0.76	0.83	(0.80, 0.86)	0.73						
Vitamin B6 (mg)	0.39	0.41	0.48	0.57	(0.50, 0.64)	0.56	0.35	0.36	0.40	0.57	(0.45, 0.67)	0.21
With supplements	0.67	0.54	0.65	0.71	(0.66, 0.75)	0.71						
Vitamin B12 (mg)	0.44	0.37	0.46	0.57	(0.49, 0.65)	0.48	0.30	0.23	0.30	0.63	(0.41, 0.78)	0.09
With supplements	0.68	0.53	0.66	0.72	(0.67, 0.77)	0.73						
Natural folate (mcg)	0.50	0.57	0.60	0.68	(0.62, 0.73)	0.67	0.42	0.49	0.51	0.66	(0.57, 0.73)	0.34
Folic acid (mcg)	0.69	0.51	0.72	0.84	(0.79, 0.89)	0.57	0.41	0.39	0.39	0.63	(0.49, 0.74)	0.16
With supplements	0.70	0.54	0.69	0.89	(0.80, 0.95)	0.42						
Dietary folate eqvts (mcg)	0.47	0.50	0.56	0.64	(0.57, 0.70)	0.60	0.37	0.37	0.41	0.56	(0.44, 0.66)	0.22
With supplements	0.73	0.55	0.73	0.79	(0.74, 0.83)	0.75						
Vitamin C (mg)	0.51	0.49	0.54	0.63	(0.56, 0.69)	0.58	0.47	0.43	0.47	0.66	(0.56, 0.74)	0.26
With supplements	0.77	0.71	0.76	0.82	(0.79, 0.86)	0.77						
Vitamin D (mg)	0.61	0.47	0.60	0.70	(0.63, 0.75)	0.60	0.48	0.41	0.49	0.78	(0.65, 0.87)	0.18
With supplements	0.70	0.40	0.67	0.74	(0.68, 0.78)	0.72						
Vitamin E (mg)	0.42	0.47	0.50	0.59	(0.51, 0.65)	0.56	0.31	0.31	0.35	0.50	(0.39, 0.60)	0.24
With supplements	0.76	0.63	0.75	0.81	(0.77, 0.84)	0.79						
Vitamin K (mg)	0.55	0.55	0.59	0.72	(0.65, 0.78)	0.50	0.39	0.38	0.43	0.66	(0.53, 0.76)	0.19
With supplements	0.51	0.10	0.52	0.60	(0.53, 0.66)	0.60						
Calcium (mg)	0.57	0.61	0.64	0.69	(0.64, 0.74)	0.72	0.49	0.50	0.55	0.69	(0.58, 0.78)	0.26
With supplements	0.68	0.39	0.68	0.75	(0.70, 0.80)	0.71						

Web Table 5 (continued): Pearson correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted using energy density and residual method (data provided by 632 U.S. female nurses aged 45-80 years, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR						SFFQ2 vs. ASA24					
	Un-adjusted	Energy-adjusted					Un-adjusted	Energy-adjusted				
		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC
Magnesium (mg)	0.45	0.65	0.67	0.73	(0.68, 0.78)	0.75	0.38	0.60	0.60	0.74	(0.67, 0.80)	0.38
With supplements	0.60	0.70	0.73	0.74	(0.69, 0.79)	0.81						
Iron (mg)	0.37	0.49	0.50	0.59	(0.51, 0.65)	0.59	0.32	0.41	0.40	0.57	(0.44, 0.67)	0.19
With supplements	0.44	0.47	0.50	0.61	(0.53, 0.67)	0.51						
Copper (mg)	0.37	0.38	0.50	0.61	(0.53, 0.68)	0.51	0.29	0.35	0.39	0.54	(0.43, 0.64)	0.23
With supplements	0.53	0.44	0.54	0.62	(0.55, 0.67)	0.63						
Zinc (mg)	0.38	0.41	0.44	0.54	(0.46, 0.61)	0.53	0.32	0.23	0.30	0.56	(0.37, 0.71)	0.10
With supplements	0.65	0.49	0.64	0.72	(0.66, 0.77)	0.68						
Phosphorus (mg)	0.42	0.59	0.61	0.68	(0.62, 0.73)	0.70	0.37	0.52	0.52	0.69	(0.57, 0.77)	0.25
With supplements	0.43	0.58	0.60	0.66	(0.60, 0.71)	0.69						
Choline (mg)	0.45	0.53	0.56	0.63	(0.57, 0.69)	0.65	0.36	0.39	0.41	0.63	(0.51, 0.73)	0.19
With supplements	0.44	0.46	0.51	0.59	(0.52, 0.65)	0.61						
Potassium (mg)	0.47	0.58	0.61	0.67	(0.61, 0.72)	0.75	0.43	0.52	0.55	0.67	(0.59, 0.74)	0.36
With supplements	0.47	0.58	0.59	0.65	(0.59, 0.70)	0.73						
Sodium (mg)	0.30	0.47	0.46	0.55	(0.47, 0.62)	0.53	0.27	0.31	0.28	0.41	(0.29, 0.52)	0.21
Caffeine (mg)	0.73	0.70	0.73	0.78	(0.74, 0.82)	0.80	0.70	0.65	0.70	0.81	(0.75, 0.86)	0.42

Abbreviations: CI, confidence interval; ICC, intra class correlation; FA, fatty acid; Eqvts, equivalents; SFFQ, The semi-quantitative food frequency questionnaire; 7DDR, 7 Day Dietary Records; ASA24, Web-based, automated-self-administered 24-hour dietary recall.

Web Table 6: Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ1 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted using energy density and residual method (data provided by 632 U.S. female nurses aged 45-80 years, 2010-2012)

Nutrient	SFFQ1 vs. 7DDR						SFFQ1 vs. ASA24					
	Un-adjusted	Energy-adjusted					Un-adjusted	Energy-adjusted				
		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC
Total energy (kcal)	0.28			0.31	(0.23, 0.38)	0.64	0.31			0.42	(0.33, 0.51)	0.29
Total fat (g)	0.37	0.57	0.58	0.65	(0.59, 0.70)	0.65	0.34	0.52	0.53	0.76	(0.64, 0.84)	0.23
Saturated fat (g)	0.43	0.60	0.60	0.67	(0.61, 0.72)	0.65	0.42	0.52	0.51	0.71	(0.61, 0.79)	0.25
Polyunsaturated fat (g)	0.35	0.47	0.48	0.59	(0.50, 0.65)	0.49	0.29	0.39	0.39	0.68	(0.51, 0.81)	0.12
Monounsaturated fat (g)	0.38	0.49	0.49	0.57	(0.50, 0.63)	0.58	0.31	0.40	0.42	0.62	(0.51, 0.71)	0.21
Arachadonic FA (g)	0.38	0.46	0.45	0.54	(0.46, 0.61)	0.51	0.27	0.28	0.29	0.41	(0.28, 0.53)	0.16
Lauric FA (g)	0.35	0.37	0.37	0.48	(0.38, 0.56)	0.43	0.39	0.38	0.37	0.56	(0.44, 0.65)	0.21
Linoleic FA (g)	0.35	0.47	0.48	0.58	(0.50, 0.65)	0.49	0.30	0.39	0.39	0.66	(0.48, 0.79)	0.13
Linolenic FA (g)	0.39	0.44	0.44	0.56	(0.47, 0.63)	0.44	0.27	0.30	0.31	0.55	(0.40, 0.67)	0.13
N-3 (DHA+EPA)	0.49	0.50	0.48	0.62	(0.53, 0.70)	0.41	0.28	0.28	0.28	0.52	(0.29, 0.69)	0.08
With supplements	0.59	0.59	0.58	0.65	(0.58, 0.70)	0.63						
Oleic FA (g)	0.38	0.49	0.49	0.57	(0.49, 0.63)	0.58	0.31	0.40	0.42	0.63	(0.51, 0.72)	0.20
Cholesterol (mg)	0.53	0.57	0.58	0.68	(0.61, 0.73)	0.58	0.37	0.34	0.34	0.55	(0.41, 0.66)	0.16
Protein (g)	0.36	0.48	0.48	0.55	(0.47, 0.61)	0.61	0.35	0.38	0.38	0.47	(0.36, 0.58)	0.21
Carbohydrates (g)	0.40	0.66	0.65	0.69	(0.64, 0.73)	0.74	0.41	0.52	0.52	0.66	(0.58, 0.73)	0.34
Total sugar (g)	0.53	0.69	0.69	0.75	(0.70, 0.79)	0.75	0.51	0.59	0.59	0.71	(0.63, 0.77)	0.37
Fiber (g)	0.50	0.65	0.63	0.66	(0.61, 0.71)	0.75	0.45	0.53	0.53	0.64	(0.55, 0.71)	0.33
Alcohol (g)	0.84	0.86	0.77	0.84	(0.80, 0.87)	0.73	0.75	0.74	0.66	0.77	(0.70, 0.82)	0.46
Retinol activity eqvts (mcg)	0.43	0.47	0.48	0.65	(0.55, 0.72)	0.37	0.37	0.39	0.39	0.56	(0.44, 0.66)	0.20
With supplements	0.60	0.62	0.62	0.70	(0.64, 0.75)	0.65						
Alpha carotene (mcg)	0.43	0.41	0.40	0.54	(0.44, 0.62)	0.37	0.32	0.31	0.32	0.52	(0.38, 0.64)	0.14
Beta carotene (mcg)	0.49	0.50	0.49	0.63	(0.54, 0.70)	0.44	0.40	0.41	0.42	0.63	(0.51, 0.72)	0.20
With supplements	0.48	0.48	0.48	0.60	(0.51, 0.67)	0.46						
Lutein-zeaxanthin (mcg)	0.49	0.50	0.50	0.61	(0.53, 0.68)	0.50	0.39	0.41	0.41	0.60	(0.49, 0.69)	0.21
Lycopene (mcg)	0.40	0.37	0.37	0.59	(0.44, 0.71)	0.23	0.18	0.15	0.11	0.18	(0.04, 0.33)	0.11
Beta cryptoxanthin (mcg)	0.38	0.39	0.38	0.56	(0.44, 0.65)	0.31	0.40	0.40	0.41	0.59	(0.44, 0.70)	0.15

Web Table 6 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ1 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted using energy density and residual method (data provided by 632 U.S. female nurses aged 45-80 years, 2010-2012)

Nutrient	SFFQ1 vs. 7DDR						SFFQ1 vs. ASA24					
	Un-adjusted	Energy-adjusted					Un-adjusted	Energy-adjusted				
		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC
Vitamin B1 (mg)	0.35	0.47	0.47	0.56	(0.48, 0.63)	0.52	0.29	0.34	0.34	0.50	(0.37, 0.60)	0.19
With supplements	0.66	0.69	0.67	0.73	(0.67, 0.78)	0.71						
Vitamin B2 (mg)	0.52	0.57	0.60	0.67	(0.61, 0.72)	0.69	0.47	0.49	0.52	0.60	(0.50, 0.68)	0.31
With supplements	0.68	0.68	0.70	0.74	(0.68, 0.78)	0.75						
Vitamin B3 (mg)	0.34	0.46	0.45	0.54	(0.46, 0.60)	0.54	0.32	0.38	0.38	0.47	(0.34, 0.59)	0.17
With supplements	0.67	0.70	0.69	0.76	(0.71, 0.80)	0.72						
Vitamin B6 (mg)	0.36	0.45	0.44	0.51	(0.43, 0.58)	0.58	0.31	0.32	0.33	0.49	(0.37, 0.60)	0.19
With supplements	0.65	0.65	0.65	0.72	(0.66, 0.77)	0.72						
Vitamin B12 (mg)	0.41	0.41	0.42	0.52	(0.43, 0.59)	0.48	0.34	0.32	0.33	0.45	(0.29, 0.59)	0.11
With supplements	0.68	0.67	0.66	0.73	(0.67, 0.78)	0.72						
Natural folate (mcg)	0.49	0.53	0.54	0.61	(0.54, 0.67)	0.65	0.39	0.46	0.45	0.59	(0.50, 0.66)	0.33
Folic acid (mcg)	0.49	0.54	0.53	0.61	(0.54, 0.67)	0.59	0.35	0.37	0.36	0.50	(0.38, 0.59)	0.23
With supplements	0.61	0.62	0.62	0.68	(0.63, 0.73)	0.72						
Dietary folate eqvts (mcg)	0.40	0.49	0.48	0.57	(0.49, 0.63)	0.56	0.30	0.36	0.35	0.52	(0.40, 0.61)	0.20
With supplements	0.62	0.63	0.63	0.69	(0.64, 0.73)	0.73						
Vitamin C (mg)	0.48	0.49	0.49	0.57	(0.5, 0.64)	0.57	0.43	0.43	0.43	0.59	(0.49, 0.67)	0.28
With supplements	0.67	0.67	0.66	0.72	(0.67, 0.77)	0.73						
Vitamin D (mg)	0.57	0.54	0.55	0.64	(0.57, 0.69)	0.58	0.53	0.50	0.50	0.63	(0.50, 0.73)	0.20
With supplements	0.58	0.52	0.56	0.62	(0.56, 0.67)	0.72						
Vitamin E (mg)	0.43	0.47	0.47	0.57	(0.49, 0.63)	0.53	0.29	0.32	0.32	0.45	(0.35, 0.55)	0.23
With supplements	0.72	0.72	0.72	0.75	(0.71, 0.80)	0.77						
Vitamin K (mg)	0.51	0.53	0.53	0.65	(0.57, 0.72)	0.48	0.35	0.38	0.38	0.61	(0.48, 0.70)	0.17
With supplements	0.50	0.51	0.51	0.61	(0.54, 0.68)	0.53						
Calcium (mg)	0.54	0.59	0.61	0.67	(0.61, 0.72)	0.70	0.50	0.56	0.57	0.64	(0.53, 0.73)	0.26
With supplements	0.64	0.62	0.66	0.72	(0.67, 0.77)	0.73						

Web Table 6 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ1 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted using energy density and residual method (data provided by 632 U.S. female nurses aged 45-80 years, 2010-2012)

Nutrient	SFFQ1 vs. 7DDR						SFFQ1 vs. ASA24					
	Un-adjusted	Energy-adjusted					Un-adjusted	Energy-adjusted				
		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC
Magnesium (mg)	0.45	0.60	0.60	0.66	(0.60, 0.71)	0.73	0.43	0.55	0.55	0.70	(0.62, 0.77)	0.37
With supplements	0.57	0.67	0.68	0.73	(0.68, 0.78)	0.80						
Iron (mg)	0.37	0.47	0.47	0.55	(0.48, 0.62)	0.54	0.28	0.35	0.34	0.53	(0.41, 0.63)	0.19
With supplements	0.44	0.50	0.49	0.59	(0.51, 0.66)	0.50						
Copper (mg)	0.37	0.46	0.45	0.51	(0.43, 0.58)	0.60	0.34	0.35	0.35	0.49	(0.38, 0.58)	0.25
With supplements	0.51	0.54	0.54	0.61	(0.54, 0.66)	0.64						
Zinc (mg)	0.38	0.40	0.41	0.51	(0.42, 0.58)	0.49	0.32	0.29	0.30	0.52	(0.35, 0.66)	0.11
With supplements	0.58	0.57	0.57	0.64	(0.58, 0.70)	0.66						
Phosphorus (mg)	0.42	0.52	0.54	0.60	(0.54, 0.66)	0.68	0.42	0.49	0.50	0.61	(0.49, 0.70)	0.24
With supplements	0.43	0.53	0.56	0.62	(0.56, 0.67)	0.68						
Choline (mg)	0.47	0.51	0.53	0.61	(0.54, 0.66)	0.63	0.39	0.35	0.36	0.53	(0.40, 0.63)	0.19
With supplements	0.47	0.52	0.54	0.62	(0.55, 0.67)	0.62						
Potassium (mg)	0.47	0.51	0.54	0.57	(0.51, 0.63)	0.73	0.44	0.47	0.49	0.61	(0.52, 0.67)	0.36
With supplements	0.47	0.52	0.55	0.58	(0.52, 0.64)	0.73						
Sodium (mg)	0.31	0.42	0.41	0.49	(0.41, 0.57)	0.50	0.26	0.26	0.25	0.37	(0.25, 0.47)	0.20
Caffeine (mg)	0.78	0.76	0.77	0.81	(0.78, 0.84)	0.86	0.74	0.75	0.74	0.79	(0.73, 0.84)	0.50

Abbreviations: CI, confidence interval; ICC, intra class correlation; FA, fatty acid; Eqvts, equivalents; SFFQ, The semi-quantitative food frequency questionnaire; 7DDR, 7 Day Dietary Records; ASA24, Web-based, automated-self-administered 24-hour dietary recall.

Web Table 7: Spearman correlation coefficient for comparison of daily nutrient intake from WebFFQ with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted using energy density and residual method (data provided by 632 U.S. female nurses aged 45-80 years, 2010-2012)

Nutrient	WebFFQ vs. 7DDR						WebFFQ vs. ASA24					
	Un-adjusted	Energy-adjusted					Un-adjusted	Energy-adjusted				
		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC
Total energy (kcal)	0.27			0.30	(0.22, 0.37)	0.64	0.30			0.39	(0.29, 0.48)	0.29
Total fat (g)	0.32	0.55	0.56	0.63	(0.56, 0.68)	0.65	0.31	0.50	0.51	0.73	(0.62, 0.82)	0.23
Saturated fat (g)	0.39	0.59	0.60	0.67	(0.61, 0.72)	0.65	0.39	0.52	0.51	0.68	(0.57, 0.77)	0.25
Polyunsaturated fat (g)	0.27	0.47	0.48	0.59	(0.51, 0.66)	0.49	0.26	0.38	0.39	0.61	(0.43, 0.74)	0.12
Monounsaturated fat (g)	0.35	0.48	0.49	0.57	(0.49, 0.63)	0.58	0.28	0.39	0.40	0.60	(0.48, 0.69)	0.21
Arachadonic FA (g)	0.39	0.46	0.45	0.55	(0.46, 0.61)	0.51	0.27	0.29	0.29	0.47	(0.35, 0.58)	0.16
Lauric FA (g)	0.33	0.36	0.36	0.46	(0.37, 0.54)	0.43	0.36	0.36	0.36	0.54	(0.43, 0.63)	0.21
Linoleic FA (g)	0.28	0.45	0.47	0.58	(0.49, 0.64)	0.49	0.25	0.37	0.38	0.61	(0.44, 0.74)	0.13
Linolenic FA (g)	0.34	0.45	0.45	0.58	(0.49, 0.65)	0.44	0.27	0.33	0.34	0.54	(0.37, 0.66)	0.13
N-3 (DHA+EPA) FA (g)	0.50	0.52	0.51	0.66	(0.57, 0.73)	0.41	0.30	0.31	0.30	0.63	(0.38, 0.80)	0.08
With supplements	0.60	0.62	0.60	0.68	(0.62, 0.73)	0.63						
Oleic FA (g)	0.35	0.48	0.48	0.56	(0.49, 0.62)	0.58	0.28	0.38	0.39	0.59	(0.47, 0.69)	0.20
Cholesterol (mg)	0.49	0.55	0.55	0.65	(0.58, 0.70)	0.58	0.38	0.38	0.38	0.62	(0.48, 0.72)	0.16
Protein (g)	0.34	0.47	0.48	0.54	(0.46, 0.60)	0.61	0.32	0.39	0.39	0.53	(0.41, 0.63)	0.21
Carbohydrates (g)	0.40	0.64	0.64	0.67	(0.62, 0.72)	0.74	0.40	0.56	0.56	0.71	(0.62, 0.78)	0.34
Total sugar (g)	0.51	0.67	0.67	0.73	(0.68, 0.78)	0.75	0.49	0.61	0.61	0.72	(0.64, 0.79)	0.37
Fiber (g)	0.46	0.64	0.62	0.65	(0.59, 0.70)	0.75	0.41	0.53	0.53	0.67	(0.59, 0.74)	0.33
Alcohol (g)	0.85	0.86	0.75	0.82	(0.78, 0.85)	0.73	0.75	0.74	0.65	0.75	(0.69, 0.81)	0.46
Retinol activity eqvts (mcg)	0.39	0.46	0.46	0.61	(0.51, 0.69)	0.37	0.32	0.37	0.37	0.56	(0.44, 0.66)	0.20
With supplements	0.63	0.67	0.66	0.74	(0.68, 0.79)	0.65						
Alpha carotene (mcg)	0.45	0.45	0.43	0.58	(0.48, 0.66)	0.37	0.34	0.34	0.35	0.59	(0.45, 0.70)	0.14
Beta carotene (mcg)	0.47	0.51	0.50	0.63	(0.55, 0.70)	0.44	0.42	0.43	0.44	0.63	(0.51, 0.72)	0.20
With supplements	0.47	0.50	0.49	0.61	(0.52, 0.68)	0.46						
Lutein-zeaxanthin (mcg)	0.50	0.52	0.51	0.63	(0.55, 0.69)	0.50	0.46	0.49	0.49	0.61	(0.48, 0.71)	0.21
Lycopene (mcg)	0.42	0.41	0.40	0.65	(0.49, 0.77)	0.23	0.20	0.17	0.14	0.26	(0.11, 0.39)	0.11
Beta cryptoxanthin (mcg)	0.36	0.36	0.36	0.52	(0.40, 0.61)	0.31	0.39	0.40	0.40	0.66	(0.51, 0.77)	0.15

Web Table 7 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from WebFFQ with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted using energy density and residual method (data provided by 632 U.S. female nurses aged 45-80 years, 2010-2012)

Nutrient	WebFFQ vs. 7DDR						WebFFQ vs. ASA24					
	Un-adjusted	Energy-adjusted					Un-adjusted	Energy-adjusted				
		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC
Vitamin B1 (mg)	0.34	0.51	0.50	0.61	(0.53, 0.67)	0.52	0.30	0.37	0.36	0.55	(0.41, 0.65)	0.19
With supplements	0.66	0.68	0.67	0.74	(0.69, 0.79)	0.71						
Vitamin B2 (mg)	0.49	0.57	0.60	0.66	(0.60, 0.71)	0.69	0.47	0.55	0.57	0.70	(0.60, 0.77)	0.31
With supplements	0.65	0.68	0.68	0.74	(0.69, 0.79)	0.75						
Vitamin B3 (mg)	0.32	0.46	0.46	0.54	(0.46, 0.61)	0.54	0.25	0.32	0.31	0.49	(0.36, 0.60)	0.17
With supplements	0.65	0.69	0.69	0.76	(0.71, 0.80)	0.72						
Vitamin B6 (mg)	0.35	0.48	0.48	0.56	(0.48, 0.62)	0.58	0.33	0.40	0.40	0.60	(0.47, 0.70)	0.19
With supplements	0.64	0.65	0.65	0.71	(0.65, 0.75)	0.72						
Vitamin B12 (mg)	0.42	0.46	0.46	0.57	(0.49, 0.64)	0.48	0.31	0.30	0.30	0.53	(0.37, 0.66)	0.11
With supplements	0.66	0.65	0.65	0.72	(0.66, 0.77)	0.72						
Natural folate (mcg)	0.44	0.56	0.56	0.64	(0.57, 0.69)	0.65	0.40	0.50	0.49	0.60	(0.50, 0.67)	0.33
Folic acid (mcg)	0.51	0.57	0.57	0.66	(0.59, 0.71)	0.59	0.42	0.45	0.44	0.57	(0.45, 0.66)	0.23
With supplements	0.65	0.68	0.67	0.73	(0.68, 0.78)	0.72						
Dietary folate eqvts (mcg)	0.38	0.50	0.50	0.58	(0.50, 0.64)	0.56	0.33	0.42	0.42	0.58	(0.45, 0.67)	0.20
With supplements	0.65	0.68	0.68	0.74	(0.69, 0.79)	0.73						
Vitamin C (mg)	0.47	0.51	0.50	0.59	(0.52, 0.65)	0.57	0.49	0.49	0.49	0.65	(0.55, 0.72)	0.28
With supplements	0.68	0.69	0.69	0.76	(0.71, 0.80)	0.73						
Vitamin D (mg)	0.56	0.57	0.58	0.67	(0.60, 0.72)	0.58	0.52	0.49	0.49	0.74	(0.62, 0.83)	0.20
With supplements	0.62	0.57	0.59	0.65	(0.59, 0.70)	0.72						
Vitamin E (mg)	0.33	0.44	0.43	0.52	(0.43, 0.59)	0.53	0.26	0.34	0.33	0.47	(0.37, 0.57)	0.23
With supplements	0.70	0.72	0.71	0.77	(0.72, 0.81)	0.77						
Vitamin K (mg)	0.50	0.55	0.54	0.67	(0.59, 0.73)	0.48	0.36	0.42	0.41	0.58	(0.44, 0.69)	0.17
With supplements	0.48	0.52	0.51	0.61	(0.54, 0.68)	0.53						
Calcium (mg)	0.51	0.60	0.61	0.66	(0.60, 0.70)	0.70	0.46	0.51	0.51	0.64	(0.53, 0.73)	0.26
With supplements	0.62	0.66	0.67	0.71	(0.66, 0.75)	0.73						

Web Table 7 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from WebFFQ with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted using energy density and residual method (data provided by 632 U.S. female nurses aged 45-80 years, 2010-2012)

Nutrient	WebFFQ vs. 7DDR						WebFFQ vs. ASA24					
	Un-adjusted	Energy-adjusted					Un-adjusted	Energy-adjusted				
		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC		Energy density	Residual method	De-attenuated (ρ & 95%CI)		ICC
Magnesium (mg)	0.38	0.61	0.61	0.66	(0.61, 0.71)	0.73	0.34	0.52	0.51	0.65	(0.57, 0.71)	0.37
With supplements	0.53	0.70	0.70	0.75	(0.70, 0.79)	0.80						
Iron (mg)	0.37	0.55	0.54	0.64	(0.57, 0.70)	0.54	0.30	0.44	0.42	0.61	(0.48, 0.71)	0.19
With supplements	0.39	0.48	0.47	0.57	(0.49, 0.64)	0.50						
Copper (mg)	0.34	0.48	0.46	0.54	(0.46, 0.60)	0.60	0.27	0.37	0.35	0.50	(0.39, 0.59)	0.25
With supplements	0.46	0.53	0.50	0.57	(0.50, 0.63)	0.64						
Zinc (mg)	0.35	0.42	0.43	0.53	(0.44, 0.60)	0.49	0.29	0.28	0.28	0.53	(0.36, 0.66)	0.11
With supplements	0.55	0.57	0.58	0.65	(0.59, 0.70)	0.66						
Phosphorus (mg)	0.38	0.55	0.56	0.62	(0.56, 0.67)	0.68	0.37	0.50	0.51	0.59	(0.47, 0.68)	0.24
With supplements	0.38	0.55	0.56	0.62	(0.56, 0.67)	0.68						
Choline (mg)	0.44	0.52	0.54	0.61	(0.54, 0.67)	0.63	0.37	0.38	0.38	0.58	(0.45, 0.68)	0.19
With supplements	0.44	0.52	0.54	0.61	(0.55, 0.67)	0.62						
Potassium (mg)	0.43	0.51	0.53	0.59	(0.52, 0.64)	0.73	0.42	0.47	0.49	0.60	(0.52, 0.67)	0.36
With supplements	0.42	0.51	0.53	0.58	(0.52, 0.64)	0.73						
Sodium (mg)	0.27	0.44	0.42	0.51	(0.42, 0.58)	0.50	0.27	0.33	0.32	0.47	(0.36, 0.57)	0.20
Caffeine (mg)	0.77	0.76	0.76	0.80	(0.77, 0.83)	0.86	0.72	0.74	0.71	0.78	(0.72, 0.83)	0.50

Abbreviations: CI, confidence interval; ICC, intra class correlation; FA, fatty acid; Eqvts, equivalents; WebFFQ, The semi-quantitative Web-based food frequency questionnaire; 7DDR, 7 Day Dietary Records; ASA24, Web-based, automated-self-administered 24-hour dietary recall.

Web Table 8: Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted and de-attenuated results (data provided by 226 U.S. female nurses with complete four ASA24, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR					SFFQ2 vs. ASA24				
	Un-adjusted	Energy-adjusted				Un-adjusted	Energy-adjusted			
		Residual method	De-attenuated (ρ & 95%CI)		ICC		Residual method	De-attenuated (ρ & 95%CI)		ICC
Total energy (kcal)	0.29		0.32	(0.19, 0.44)	0.67	0.39		0.50	(0.35, 0.63)	0.27
Total fat (g)	0.33	0.56	0.63	(0.52, 0.71)	0.65	0.39	0.56	0.75	(0.58, 0.86)	0.23
Saturated fat (g)	0.44	0.61	0.68	(0.58, 0.77)	0.65	0.45	0.51	0.68	(0.52, 0.79)	0.25
Polyunsaturated fat (g)	0.23	0.47	0.57	(0.43, 0.68)	0.48	0.32	0.45	0.70	(0.45, 0.85)	0.14
Monounsaturated fat (g)	0.36	0.46	0.55	(0.41, 0.66)	0.55	0.34	0.40	0.55	(0.37, 0.68)	0.21
Arachadonic FA (g)	0.28	0.38	0.46	(0.32, 0.59)	0.49	0.25	0.31	0.45	(0.26, 0.60)	0.18
Lauric FA (g)	0.40	0.42	0.53	(0.38, 0.65)	0.44	0.40	0.38	0.55	(0.36, 0.70)	0.18
Linoleic FA (g)	0.24	0.46	0.57	(0.42, 0.68)	0.48	0.32	0.43	0.70	(0.43, 0.86)	0.13
Linolenic FA (g)	0.33	0.47	0.62	(0.46, 0.74)	0.40	0.33	0.39	0.58	(0.37, 0.72)	0.17
N-3 (DHA+EPA) FA (g)	0.50	0.52	0.67	(0.51, 0.79)	0.41	0.29	0.31	0.62	(0.22, 0.84)	0.08
With supplements	0.58	0.56	0.64	(0.53, 0.73)	0.59					
Oleic FA (g)	0.36	0.46	0.55	(0.41, 0.65)	0.54	0.34	0.38	0.54	(0.36, 0.68)	0.20
Cholesterol (mg)	0.46	0.55	0.63	(0.51, 0.72)	0.58	0.43	0.45	0.64	(0.44, 0.78)	0.19
Protein (g)	0.27	0.47	0.53	(0.40, 0.63)	0.64	0.33	0.40	0.54	(0.37, 0.67)	0.22
Carbohydrate (g)	0.47	0.63	0.68	(0.59, 0.75)	0.73	0.51	0.60	0.73	(0.60, 0.82)	0.34
Total sugar (g)	0.57	0.70	0.75	(0.67, 0.82)	0.73	0.59	0.66	0.80	(0.68, 0.87)	0.37
Fiber (g)	0.51	0.65	0.69	(0.60, 0.75)	0.79	0.46	0.54	0.65	(0.52, 0.74)	0.36
Alcohol (g)	0.85	0.77	0.83	(0.77, 0.88)	0.75	0.75	0.67	0.77	(0.66, 0.84)	0.43
Retinol activity eqvts (mcg)	0.51	0.54	0.73	(0.55, 0.85)	0.37	0.37	0.38	0.65	(0.37, 0.83)	0.11
With supplements	0.67	0.69	0.81	(0.70, 0.88)	0.58					
Alpha carotene (mcg)	0.56	0.55	0.70	(0.55, 0.81)	0.44	0.44	0.41	0.67	(0.40, 0.83)	0.13
Beta carotene (mcg)	0.58	0.59	0.73	(0.59, 0.83)	0.46	0.47	0.46	0.68	(0.46, 0.83)	0.16
With supplements	0.55	0.55	0.70	(0.55, 0.81)	0.44					
Lutein-zeaxanthin (mcg)	0.54	0.57	0.70	(0.57, 0.80)	0.50	0.48	0.50	0.70	(0.51, 0.83)	0.19
Lycopene (mcg)	0.47	0.45	0.68	(0.44, 0.82)	0.29	0.31	0.24	0.42	(0.17, 0.61)	0.11
Beta cryptoxanthin (mcg)	0.32	0.32	0.48	(0.28, 0.65)	0.28	0.43	0.38	0.53	(0.35, 0.67)	0.20

Web Table 8 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted, energy-adjusted and de-attenuated results (data provided by 226 U.S. female nurses with complete four ASA24, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR				SFFQ2 vs. ASA24			
	Un-adjusted	Energy-adjusted			Un-adjusted	Energy-adjusted		
		Residual method	De-attenuated (ρ & 95%CI)	ICC		Residual method	De-attenuated (ρ & 95%CI)	ICC
Vitamin B2 (mg)	0.39	0.52	0.61 (0.48, 0.71)	0.55	0.39	0.44	0.62 (0.43, 0.77)	0.19
With supplements	0.70	0.71	0.78 (0.69, 0.84)	0.72				
Vitamin B2 (mg)	0.52	0.59	0.64 (0.53, 0.72)	0.72	0.51	0.56	0.71 (0.57, 0.81)	0.30
With supplements	0.70	0.73	0.79 (0.71, 0.85)	0.75				
Vitamin B3 (mg)	0.29	0.41	0.48 (0.34, 0.59)	0.55	0.34	0.37	0.56 (0.36, 0.71)	0.16
With supplements	0.66	0.70	0.77 (0.68, 0.83)	0.71				
Vitamin B6 (mg)	0.32	0.47	0.55 (0.42, 0.66)	0.55	0.37	0.36	0.54 (0.34, 0.69)	0.17
With supplements	0.65	0.66	0.71 (0.62, 0.79)	0.73				
Vitamin B12 (mg)	0.37	0.44	0.54 (0.39, 0.66)	0.46	0.26	0.29	0.54 (0.23, 0.75)	0.09
With supplements	0.68	0.69	0.75 (0.66, 0.81)	0.73				
Natural folate (mcg)	0.53	0.64	0.72 (0.62, 0.80)	0.66	0.48	0.53	0.65 (0.52, 0.75)	0.33
Folic acid (mcg)	0.56	0.61	0.71 (0.60, 0.80)	0.59	0.51	0.51	0.70 (0.52, 0.82)	0.22
With supplements	0.67	0.69	0.73 (0.65, 0.80)	0.79				
Dietary folate eqvts (mcg)	0.44	0.54	0.62 (0.50, 0.71)	0.59	0.42	0.48	0.71 (0.50, 0.84)	0.18
With supplements	0.64	0.68	0.73 (0.64, 0.80)	0.79				
Vitamin C (mg)	0.55	0.55	0.63 (0.51, 0.72)	0.61	0.54	0.50	0.65 (0.49, 0.77)	0.26
With supplements	0.72	0.71	0.76 (0.68, 0.83)	0.75				
Vitamin D (mg)	0.57	0.60	0.72 (0.59, 0.81)	0.54	0.51	0.52	0.73 (0.53, 0.85)	0.20
With supplements	0.64	0.61	0.66 (0.56, 0.73)	0.75				
Vitamin E (mg)	0.38	0.42	0.52 (0.37, 0.65)	0.44	0.34	0.36	0.52 (0.33, 0.66)	0.18
With supplements	0.73	0.72	0.76 (0.69, 0.82)	0.80				
Vitamin K (mg)	0.54	0.60	0.73 (0.60, 0.82)	0.51	0.43	0.45	0.70 (0.46, 0.85)	0.15
With supplements	0.49	0.55	0.65 (0.52, 0.75)	0.53				
Calcium (mg)	0.57	0.63	0.69 (0.59, 0.77)	0.72	0.49	0.50	0.69 (0.50, 0.81)	0.21
With supplements	0.66	0.66	0.72 (0.62, 0.79)	0.71				

Web Table 8 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted and de-attenuated results (data provided by 226 U.S. female nurses with complete four ASA24, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR				SFFQ2 vs. ASA24			
	Un-adjusted	Energy-adjusted			Un-adjusted	Energy-adjusted		
		Residual method	De-attenuated (ρ & 95%CI)	ICC		Residual method	De-attenuated (ρ & 95%CI)	ICC
Magnesium (mg)	0.44	0.68	0.72 (0.64, 0.80)	0.77	0.40	0.60	0.72 (0.60, 0.81)	0.37
With supplements	0.58	0.70	0.74 (0.66, 0.81)	0.81				
Iron (mg)	0.32	0.49	0.59 (0.45, 0.69)	0.52	0.34	0.37	0.55 (0.36, 0.70)	0.16
With supplements	0.37	0.48	0.55 (0.42, 0.65)	0.62				
Copper (mg)	0.42	0.53	0.64 (0.51, 0.73)	0.53	0.38	0.41	0.54 (0.37, 0.66)	0.25
With supplements	0.56	0.62	0.71 (0.60, 0.79)	0.63				
Zinc (mg)	0.30	0.43	0.52 (0.37, 0.63)	0.51	0.24	0.28	0.52 (0.22, 0.73)	0.09
With supplements	0.65	0.67	0.73 (0.64, 0.80)	0.72				
Phosphorus (mg)	0.37	0.62	0.69 (0.59, 0.77)	0.69	0.39	0.56	0.74 (0.58, 0.85)	0.24
With supplements	0.38	0.60	0.66 (0.56, 0.74)	0.71				
Choline (mg)	0.40	0.60	0.67 (0.57, 0.75)	0.64	0.42	0.45	0.62 (0.44, 0.74)	0.22
With supplements	0.40	0.59	0.67 (0.56, 0.77)	0.62				
Potassium (mg)	0.45	0.64	0.69 (0.60, 0.77)	0.77	0.48	0.57	0.69 (0.56, 0.78)	0.37
With supplements	0.46	0.65	0.69 (0.60, 0.77)	0.78				
Sodium (mg)	0.27	0.46	0.54 (0.41, 0.65)	0.56	0.29	0.32	0.45 (0.27, 0.59)	0.20
Caffeine (mg)	0.76	0.75	0.77 (0.70, 0.83)	0.88	0.71	0.71	0.79 (0.70, 0.85)	0.51

Abbreviations: CI, confidence interval; ICC, intra class correlation; FA, fatty acid; Eqvts, equivalents; SFFQ, The semi-quantitative food frequency questionnaire; 7DDR, 7 Day Dietary Records; ASA24, Web-based, automated-self-administered 24-hour dietary recall.

Web Table 9: Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted, adjusted and de-attenuated results (data provided by 309 U.S. female nurses aged 45-60 years, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR				SFFQ2 vs. ASA24			
	Un-adjusted	Energy-adjusted			Un-adjusted	Energy-adjusted		
		Residual method	De-attenuated (ρ & 95%CI)	ICC		Residual method	De-attenuated (ρ & 95%CI)	ICC
Total energy (kcal)	0.31		0.36 (0.24, 0.46)	0.61	0.32		0.40 (0.27, 0.52)	0.32
Total fat (g)	0.36	0.59	0.66 (0.57, 0.73)	0.66	0.33	0.54	0.75 (0.55, 0.87)	0.20
Saturated fat (g)	0.47	0.59	0.66 (0.57, 0.73)	0.65	0.44	0.54	0.76 (0.60, 0.86)	0.23
Polyunsaturated fat (g)	0.24	0.45	0.54 (0.42, 0.64)	0.50	0.20	0.35	0.54 (0.32, 0.71)	0.12
Monounsaturated fat (g)	0.36	0.45	0.52 (0.40, 0.61)	0.61	0.29	0.38	0.58 (0.41, 0.70)	0.20
Arachadonic FA (g)	0.40	0.47	0.56 (0.44, 0.65)	0.53	0.21	0.32	0.44 (0.26, 0.60)	0.18
Lauric FA (g)	0.38	0.38	0.48 (0.35, 0.59)	0.44	0.29	0.30	0.44 (0.27, 0.58)	0.21
Linoleic FA (g)	0.24	0.41	0.50 (0.37, 0.60)	0.50	0.20	0.33	0.52 (0.31, 0.68)	0.13
Linolenic FA (g)	0.36	0.49	0.62 (0.49, 0.72)	0.44	0.25	0.27	0.48 (0.23, 0.67)	0.11
N-3 (DHA+EPA) FA (g)	0.54	0.52	0.68 (0.54, 0.79)	0.39	0.30	0.33	0.61 (0.26, 0.82)	0.09
With supplements	0.62	0.60	0.69 (0.59, 0.77)	0.59				
Oleic FA (g)	0.36	0.45	0.51 (0.40, 0.61)	0.60	0.30	0.38	0.58 (0.41, 0.71)	0.19
Cholesterol (mg)	0.50	0.54	0.62 (0.52, 0.70)	0.60	0.36	0.39	0.61 (0.42, 0.74)	0.18
Protein (g)	0.37	0.53	0.61 (0.50, 0.69)	0.60	0.29	0.39	0.46 (0.29, 0.60)	0.22
Carbohydrate (g)	0.44	0.66	0.71 (0.63, 0.77)	0.74	0.44	0.56	0.68 (0.55, 0.77)	0.34
Total sugar (g)	0.52	0.65	0.70 (0.62, 0.77)	0.73	0.53	0.61	0.72 (0.61, 0.81)	0.36
Fiber (g)	0.54	0.64	0.70 (0.62, 0.77)	0.72	0.44	0.48	0.59 (0.46, 0.70)	0.31
Alcohol (g)	0.85	0.75	0.83 (0.77, 0.88)	0.69	0.73	0.61	0.74 (0.63, 0.82)	0.38
Retinol activity eqvts (mcg)	0.52	0.53	0.75 (0.57, 0.87)	0.33	0.41	0.43	0.62 (0.43, 0.75)	0.18
With supplements	0.60	0.61	0.70 (0.61, 0.78)	0.59				
Alpha carotene (mcg)	0.56	0.50	0.67 (0.52, 0.78)	0.37	0.39	0.33	0.54 (0.26, 0.74)	0.11
Beta carotene (mcg)	0.59	0.56	0.72 (0.59, 0.82)	0.43	0.49	0.45	0.72 (0.52, 0.85)	0.17
With supplements	0.58	0.56	0.71 (0.58, 0.80)	0.44				
Lutein-zeaxanthin (mcg)	0.60	0.60	0.73 (0.62, 0.82)	0.50	0.50	0.52	0.66 (0.45, 0.81)	0.19
Lycopene (mcg)	0.37	0.37	0.70 (0.32, 0.89)	0.15	0.28	0.19	0.49 (0.18, 0.71)	0.08
Beta cryptoxanthin (mcg)	0.28	0.28	0.41 (0.24, 0.55)	0.30	0.37	0.36	0.62 (0.28, 0.83)	0.09

Web Table 9 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted, adjusted and de-attenuated results (data provided by 309 U.S. female nurses aged 45-60 years, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR				SFFQ2 vs. ASA24			
	Un-adjusted	Energy-adjusted			Un-adjusted	Energy-adjusted		
		Residual method	De-attenuated (ρ & 95%CI)	ICC		Residual method	De-attenuated (ρ & 95%CI)	ICC
Vitamin B1 (mg)	0.41	0.53	0.64 (0.53, 0.73)	0.51	0.37	0.46	0.69 (0.52, 0.82)	0.19
With supplements	0.65	0.66	0.72 (0.64, 0.79)	0.70				
Vitamin B2 (mg)	0.54	0.61	0.67 (0.58, 0.73)	0.70	0.50	0.67	0.65 (0.51, 0.75)	0.33
With supplements	0.67	0.69	0.75 (0.68, 0.81)	0.75				
Vitamin B3 (mg)	0.40	0.46	0.54 (0.43, 0.63)	0.56	0.32	0.41	0.63 (0.37, 0.8)	0.14
With supplements	0.62	0.66	0.72 (0.64, 0.79)	0.69				
Vitamin B6 (mg)	0.41	0.47	0.55 (0.44, 0.64)	0.57	0.30	0.32	0.47 (0.30, 0.61)	0.19
With supplements	0.60	0.60	0.65 (0.57, 0.72)	0.69				
Vitamin B12 (mg)	0.43	0.44	0.55 (0.42, 0.65)	0.45	0.35	0.34	0.43 (0.14, 0.65)	0.11
With supplements	0.64	0.64	0.70 (0.62, 0.77)	0.68				
Natural folate (mcg)	0.54	0.63	0.72 (0.63, 0.79)	0.61	0.48	0.53	0.67 (0.55, 0.77)	0.32
Folic acid (mcg)	0.52	0.54	0.63 (0.52, 0.71)	0.60	0.44	0.43	0.54 (0.36, 0.68)	0.21
With supplements	0.64	0.65	0.72 (0.63, 0.79)	0.68				
Dietary folate eqvts (mcg)	0.45	0.50	0.58 (0.47, 0.67)	0.57	0.40	0.41	0.56 (0.38, 0.70)	0.20
With supplements	0.64	0.66	0.72 (0.64, 0.79)	0.69				
Vitamin C (mg)	0.47	0.51	0.60 (0.49, 0.69)	0.53	0.54	0.48	0.66 (0.50, 0.78)	0.23
With supplements	0.65	0.66	0.73 (0.64, 0.79)	0.68				
Vitamin D (mg)	0.65	0.65	0.75 (0.66, 0.82)	0.58	0.53	0.54	0.69 (0.47, 0.83)	0.20
With supplements	0.63	0.61	0.65 (0.57, 0.72)	0.77				
Vitamin E (mg)	0.37	0.46	0.55 (0.43, 0.64)	0.52	0.30	0.36	0.49 (0.34, 0.61)	0.25
With supplements	0.71	0.71	0.77 (0.70, 0.83)	0.72				
Vitamin K (mg)	0.57	0.60	0.76 (0.64, 0.85)	0.45	0.44	0.44	0.64 (0.43, 0.78)	0.18
With supplements	0.59	0.61	0.76 (0.64, 0.84)	0.48				
Calcium (mg)	0.60	0.65	0.71 (0.63, 0.78)	0.70	0.51	0.56	0.66 (0.50, 0.78)	0.27
With supplements	0.65	0.66	0.72 (0.64, 0.79)	0.71				

Web Table 9 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted, adjusted and de-attenuated results (data provided by 309 U.S. female nurses aged 45-60 years, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR				SFFQ2 vs. ASA24			
	Un-adjusted	Energy-adjusted			Un-adjusted	Energy-adjusted		
		Residual method	De-attenuated (ρ & 95%CI)	ICC		Residual method	De-attenuated (ρ & 95%CI)	ICC
Magnesium (mg)	0.48	0.68	0.74 (0.66, 0.80)	0.73	0.38	0.57	0.71 (0.59, 0.80)	0.37
With supplements	0.56	0.69	0.74 (0.67, 0.80)	0.75				
Iron (mg)	0.40	0.44	0.52 (0.40, 0.62)	0.53	0.32	0.37	0.61 (0.41, 0.75)	0.16
With supplements	0.50	0.53	0.62 (0.51, 0.70)	0.58				
Copper (mg)	0.36	0.47	0.55 (0.43, 0.64)	0.56	0.28	0.34	0.48 (0.33, 0.61)	0.24
With supplements	0.46	0.52	0.58 (0.48, 0.67)	0.62				
Zinc (mg)	0.43	0.46	0.58 (0.45, 0.68)	0.45	0.34	0.28	0.46 (0.27, 0.62)	0.15
With supplements	0.54	0.53	0.59 (0.49, 0.67)	0.66				
Phosphorus (mg)	0.45	0.61	0.67 (0.59, 0.74)	0.67	0.35	0.50	0.61 (0.43, 0.74)	0.23
With supplements	0.45	0.62	0.69 (0.60, 0.75)	0.68				
Choline (mg)	0.49	0.58	0.66 (0.57, 0.73)	0.63	0.35	0.41	0.53 (0.36, 0.66)	0.22
With supplements	0.48	0.59	0.67 (0.58, 0.75)	0.61				
Potassium (mg)	0.51	0.65	0.71 (0.63, 0.78)	0.72	0.46	0.55	0.60 (0.48, 0.70)	0.37
With supplements	0.51	0.65	0.71 (0.63, 0.78)	0.71				
Sodium (mg)	0.28	0.41	0.49 (0.37, 0.59)	0.51	0.24	0.20	0.31 (0.13, 0.46)	0.18
Caffeine (mg)	0.81	0.78	0.81 (0.77, 0.85)	0.87	0.75	0.75	0.80 (0.71, 0.86)	0.49

Abbreviations: CI, confidence interval; ICC, intra class correlation; FA, fatty acid; Eqvts, equivalents; SFFQ, The semi-quantitative food frequency questionnaire; 7DDR, 7 Day Dietary Records; ASA24, Web-based, automated-self-administered 24-hour dietary recall.

Web Table 10: Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted and de-attenuated results (data provided by 323 U.S. female nurses aged 61-80 years, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR				SFFQ2 vs. ASA24			
	Un-adjusted	Energy-adjusted			Un-adjusted	Energy-adjusted		
		Residual method	De-attenuated (ρ & 95%CI)	ICC		Residual method	De-attenuated (ρ & 95%CI)	ICC
Total energy (kcal)	0.24		0.27 (0.16, 0.37)	0.65	0.30		0.40 (0.26, 0.53)	0.27
Total fat (g)	0.35	0.59	0.67 (0.57, 0.73)	0.63	0.36	0.62	0.69 (0.49, 0.82)	0.25
Saturated fat (g)	0.41	0.62	0.70 (0.61, 0.77)	0.64	0.43	0.61	0.59 (0.42, 0.72)	0.26
Polyunsaturated fat (g)	0.33	0.49	0.61 (0.49, 0.70)	0.47	0.30	0.52	0.68 (0.14, 0.90)	0.12
Monounsaturated fat (g)	0.37	0.52	0.61 (0.50, 0.69)	0.56	0.31	0.43	0.62 (0.44, 0.74)	0.21
Arachadonic FA (g)	0.32	0.40	0.48 (0.37, 0.58)	0.50	0.30	0.34	0.58 (0.37, 0.73)	0.14
Lauric FA (g)	0.31	0.34	0.43 (0.30, 0.55)	0.41	0.39	0.36	0.51 (0.35, 0.64)	0.22
Linoleic FA (g)	0.35	0.50	0.61 (0.49, 0.70)	0.48	0.32	0.53	0.64 (0.06, 0.90)	0.12
Linolenic FA (g)	0.34	0.41	0.52 (0.39, 0.62)	0.44	0.29	0.42	0.56 (0.34, 0.73)	0.15
N-3 (DHA+EPA) FA (g)	0.52	0.51	0.66 (0.53, 0.75)	0.42	0.25	0.27	0.58 (0.18, 0.82)	0.07
With supplements	0.62	0.60	0.67 (0.58, 0.74)	0.65				
Oleic FA (g)	0.37	0.51	0.60 (0.49, 0.68)	0.55	0.31	0.42	0.61 (0.43, 0.74)	0.20
Cholesterol (mg)	0.49	0.59	0.69 (0.60, 0.78)	0.56	0.44	0.47	0.70 (0.43, 0.86)	0.14
Protein (g)	0.27	0.43	0.49 (0.38, 0.58)	0.63	0.31	0.37	0.57 (0.39, 0.70)	0.20
Carbohydrate (g)	0.38	0.66	0.71 (0.63, 0.77)	0.74	0.45	0.66	0.74 (0.61, 0.83)	0.34
Total sugar (g)	0.54	0.71	0.76 (0.69, 0.82)	0.78	0.56	0.67	0.76 (0.65, 0.84)	0.39
Fiber (g)	0.38	0.59	0.63 (0.55, 0.70)	0.78	0.39	0.56	0.68 (0.56, 0.78)	0.35
Alcohol (g)	0.86	0.77	0.83 (0.78, 0.88)	0.75	0.78	0.70	0.75 (0.67, 0.82)	0.53
Retinol activity eqvts (mcg)	0.38	0.45	0.58 (0.45, 0.68)	0.41	0.38	0.40	0.50 (0.32, 0.65)	0.20
With supplements	0.65	0.67	0.74 (0.66, 0.81)	0.67				
Alpha carotene (mcg)	0.43	0.45	0.61 (0.46, 0.71)	0.37	0.40	0.42	0.61 (0.40, 0.75)	0.18
Beta carotene (mcg)	0.42	0.47	0.59 (0.46, 0.69)	0.45	0.39	0.43	0.60 (0.43, 0.72)	0.23
With supplements	0.40	0.43	0.53 (0.40, 0.63)	0.47				
Lutein-zeaxanthin (mcg)	0.47	0.50	0.61 (0.50, 0.70)	0.50	0.40	0.45	0.65 (0.49, 0.77)	0.23
Lycopene (mcg)	0.42	0.38	0.55 (0.38, 0.68)	0.30	0.18	0.13	0.21 (0.03, 0.38)	0.16
Beta cryptoxanthin (mcg)	0.41	0.43	0.64 (0.46, 0.77)	0.30	0.42	0.45	0.56 (0.38, 0.70)	0.22

Web Table 10 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted and de-attenuated results (data provided by 323 U.S. female nurses aged 61-80 years, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR					SFFQ2 vs. ASA24				
	Un-adjusted	Energy-adjusted				Un-adjusted	Energy-adjusted			
		Residual method	De-attenuated (ρ & 95%CI)		ICC		Residual method	De-attenuated (ρ & 95%CI)		ICC
Vitamin B1 (mg)	0.31	0.54	0.65	(0.54, 0.73)	0.52	0.28	0.39	0.57	(0.37, 0.71)	0.18
With supplements	0.74	0.75	0.82	(0.75, 0.87)	0.71					
Vitamin B2 (mg)	0.49	0.61	0.68	(0.59, 0.74)	0.68	0.45	0.51	0.67	(0.53, 0.78)	0.30
With supplements	0.74	0.76	0.82	(0.75, 0.86)	0.74					
Vitamin B3 (mg)	0.30	0.46	0.55	(0.43, 0.64)	0.52	0.27	0.35	0.52	(0.35, 0.66)	0.20
With supplements	0.72	0.74	0.80	(0.74, 0.85)	0.73					
Vitamin B6 (mg)	0.36	0.49	0.57	(0.46, 0.65)	0.58	0.36	0.45	0.63	(0.43, 0.77)	0.19
With supplements	0.74	0.75	0.81	(0.74, 0.85)	0.74					
Vitamin B12 (mg)	0.44	0.46	0.56	(0.44, 0.65)	0.51	0.31	0.32	0.57	(0.35, 0.73)	0.12
With supplements	0.71	0.69	0.75	(0.67, 0.81)	0.73					
Natural folate (mcg)	0.41	0.55	0.61	(0.51, 0.68)	0.68	0.35	0.46	0.60	(0.47, 0.70)	0.33
Folic acid (mcg)	0.59	0.64	0.74	(0.65, 0.81)	0.59	0.48	0.47	0.56	(0.40, 0.68)	0.26
With supplements	0.72	0.72	0.78	(0.71, 0.83)	0.74					
Dietary folate eqvts (mcg)	0.46	0.60	0.71	(0.61, 0.79)	0.56	0.32	0.39	0.51	(0.34, 0.64)	0.22
With supplements	0.71	0.74	0.79	(0.73, 0.84)	0.78					
Vitamin C (mg)	0.49	0.51	0.59	(0.48, 0.67)	0.60	0.42	0.42	0.56	(0.43, 0.67)	0.32
With supplements	0.75	0.75	0.80	(0.74, 0.85)	0.78					
Vitamin D (mg)	0.55	0.53	0.62	(0.52, 0.70)	0.57	0.54	0.52	0.74	(0.55, 0.85)	0.21
With supplements	0.59	0.55	0.62	(0.52, 0.69)	0.64					
Vitamin E (mg)	0.43	0.47	0.56	(0.45, 0.65)	0.54	0.30	0.35	0.53	(0.37, 0.66)	0.21
With supplements	0.73	0.72	0.77	(0.70, 0.82)	0.79					
Vitamin K (mg)	0.50	0.54	0.65	(0.54, 0.74)	0.51	0.30	0.38	0.60	(0.40, 0.74)	0.17
With supplements	0.47	0.50	0.58	(0.48, 0.67)	0.57					
Calcium (mg)	0.51	0.61	0.68	(0.59, 0.74)	0.69	0.48	0.57	0.71	(0.54, 0.83)	0.25
With supplements	0.65	0.67	0.73	(0.66, 0.80)	0.72					

Web Table 10 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted and de-attenuated results (data provided by 323 U.S. female nurses aged 61-80 years, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR					SFFQ2 vs. ASA24				
	Un-adjusted	Energy-adjusted				Un-adjusted	Energy-adjusted			
		Residual method	De-attenuated (ρ & 95%CI)		ICC		Residual method	De-attenuated (ρ & 95%CI)		ICC
Magnesium (mg)	0.38	0.64	0.69	(0.61, 0.74)	0.74	0.35	0.58	0.74	(0.62, 0.82)	0.37
With supplements	0.60	0.75	0.79	(0.73, 0.84)	0.82					
Iron (mg)	0.30	0.51	0.60	(0.49, 0.68)	0.56	0.30	0.38	0.49	(0.33, 0.63)	0.22
With supplements	0.30	0.42	0.55	(0.42, 0.66)	0.40					
Copper (mg)	0.36	0.53	0.60	(0.50, 0.68)	0.64	0.31	0.46	0.55	(0.40, 0.67)	0.26
With supplements	0.53	0.57	0.64	(0.55, 0.71)	0.65					
Zinc (mg)	0.29	0.40	0.47	(0.36, 0.57)	0.53	0.29	0.31	0.53	(0.07, 0.81)	0.07
With supplements	0.66	0.66	0.74	(0.66, 0.81)	0.64					
Phosphorus (mg)	0.37	0.59	0.66	(0.57, 0.72)	0.69	0.39	0.53	0.71	(0.56, 0.82)	0.26
With supplements	0.37	0.60	0.66	(0.57, 0.72)	0.69					
Choline (mg)	0.38	0.51	0.58	(0.48, 0.66)	0.62	0.38	0.40	0.68	(0.46, 0.82)	0.15
With supplements	0.36	0.48	0.54	(0.44, 0.63)	0.63					
Potassium (mg)	0.40	0.54	0.58	(0.49, 0.66)	0.73	0.37	0.52	0.64	(0.52, 0.73)	0.34
With supplements	0.39	0.53	0.58	(0.49, 0.65)	0.74					
Sodium (mg)	0.28	0.47	0.57	(0.45, 0.67)	0.48	0.29	0.40	0.52	0.35, 0.66)	0.21
Caffeine (mg)	0.74	0.73	0.76	(0.70, 0.81)	0.85	0.67	0.67	0.75	(0.67, 0.82)	0.51

Abbreviations: CI, confidence interval; ICC, intra class correlation; FA, fatty acid; Eqvts, equivalents; SFFQ, The semi-quantitative food frequency questionnaire; 7DDR, 7 Day Dietary Records; ASA24, Web-based, automated-self-administered 24-hour dietary recall.

Web Table 11: Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted and de-attenuated results (data provided by 298 U.S. female nurses with BMI<25kg/m2 at enrollment, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR					SFFQ2 vs. ASA24				
	Un-adjusted	Energy-adjusted				Un-adjusted	Energy-adjusted			
		Residual method	De-attenuated (ρ & 95%CI)		ICC		Residual method	De-attenuated (ρ & 95%CI)		ICC
Total energy (kcal)	0.23		0.26	(0.14, 0.37)	0.62	0.33		0.43	(0.27, 0.56)	0.27
Total fat (g)	0.33	0.63	0.70	(0.61, 0.78)	0.65	0.35	0.58	0.80	(0.61, 0.90)	0.24
Saturated fat (g)	0.43	0.66	0.74	(0.65, 0.80)	0.68	0.43	0.62	0.68	(0.49, 0.81)	0.26
Polyunsaturated fat (g)	0.28	0.51	0.60	(0.49, 0.69)	0.54	0.30	0.47	0.71	(0.45, 0.86)	0.15
Monounsaturated fat (g)	0.37	0.54	0.62	(0.52, 0.70)	0.59	0.33	0.44	0.62	(0.44, 0.74)	0.22
Arachadonic FA (g)	0.35	0.43	0.52	(0.40, 0.62)	0.51	0.29	0.35	0.53	(0.33, 0.69)	0.16
Lauric FA (g)	0.30	0.35	0.44	(0.31, 0.55)	0.47	0.31	0.38	0.48	(0.32, 0.62)	0.24
Linoleic FA (g)	0.29	0.50	0.60	(0.48, 0.69)	0.54	0.31	0.45	0.73	(0.46, 0.88)	0.14
Linolenic FA (g)	0.39	0.51	0.61	(0.49, 0.70)	0.52	0.39	0.44	0.60	(0.42, 0.72)	0.23
N-3 (DHA+EPA) FA (g)	0.55	0.56	0.72	(0.59, 0.82)	0.43	0.29	0.32	0.70	(0.25, 0.90)	0.08
With supplements	0.64	0.63	0.70	(0.61, 0.77)	0.67					
Oleic FA (g)	0.37	0.53	0.62	(0.51, 0.70)	0.59	0.33	0.44	0.62	(0.42, 0.75)	0.20
Cholesterol (mg)	0.48	0.57	0.67	(0.57, 0.75)	0.56	0.44	0.48	0.62	(0.38, 0.78)	0.18
Protein (g)	0.34	0.50	0.57	(0.47, 0.66)	0.62	0.41	0.48	0.56	(0.36, 0.71)	0.20
Carbohydrate (g)	0.41	0.67	0.73	(0.65, 0.79)	0.75	0.54	0.59	0.69	(0.56, 0.79)	0.36
Total sugar (g)	0.56	0.72	0.78	(0.71, 0.83)	0.77	0.61	0.62	0.75	(0.64, 0.84)	0.37
Fiber (g)	0.45	0.62	0.66	(0.58, 0.73)	0.77	0.48	0.51	0.64	(0.52, 0.74)	0.35
Alcohol (g)	0.85	0.77	0.84	(0.78, 0.88)	0.72	0.75	0.66	0.74	(0.65, 0.82)	0.49
Retinol activity eqvts (mcg)	0.44	0.50	0.64	(0.51, 0.73)	0.44	0.42	0.42	0.52	(0.35, 0.66)	0.23
With supplements	0.63	0.66	0.74	(0.65, 0.81)	0.67					
Alpha carotene (mcg)	0.47	0.45	0.60	(0.45, 0.70)	0.39	0.37	0.33	0.48	(0.29, 0.64)	0.18
Beta carotene (mcg)	0.51	0.55	0.71	(0.58, 0.81)	0.42	0.45	0.43	0.58	(0.42, 0.70)	0.25
With supplements	0.47	0.51	0.65	(0.52, 0.74)	0.45					
Lutein-zeaxanthin (mcg)	0.58	0.62	0.74	(0.63, 0.82)	0.51	0.51	0.50	0.69	(0.54, 0.80)	0.27
Lycopene (mcg)	0.38	0.36	0.62	(0.37, 0.79)	0.20	0.24	0.12	0.25	(0.05, 0.42)	0.16
Beta cryptoxanthin (mcg)	0.38	0.42	0.58	(0.42, 0.71)	0.34	0.44	0.44	0.67	(0.40, 0.83)	0.14

Web Table 11 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted and de-attenuated results (data provided by 298 U.S. female nurses with BMI<25kg/m2 at enrollment, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR				SFFQ2 vs. ASA24			
	Un-adjusted	Energy-adjusted			Un-adjusted	Energy-adjusted		
		Residual method	De-attenuated (ρ & 95%CI)	ICC		Residual method	De-attenuated (ρ & 95%CI)	ICC
Vitamin B1 (mg)	0.43	0.61	0.70 (0.61, 0.78)	0.59	0.44	0.49	0.61 (0.41, 0.75)	0.23
With supplements	0.76	0.76	0.83 (0.77, 0.87)	0.73				
Vitamin B2 (mg)	0.58	0.65	0.71 (0.63, 0.78)	0.72	0.58	0.57	0.72 (0.59, 0.82)	0.32
With supplements	0.75	0.76	0.82 (0.77, 0.87)	0.75				
Vitamin B3 (mg)	0.36	0.49	0.57 (0.46, 0.66)	0.59	0.37	0.42	0.60 (0.43, 0.73)	0.22
With supplements	0.71	0.73	0.78 (0.71, 0.83)	0.80				
Vitamin B6 (mg)	0.36	0.49	0.55 (0.45, 0.64)	0.62	0.41	0.39	0.51 (0.35, 0.64)	0.25
With supplements	0.67	0.67	0.73 (0.65, 0.80)	0.71				
Vitamin B12 (mg)	0.46	0.49	0.57 (0.46, 0.67)	0.55	0.38	0.36	0.63 (0.37, 0.80)	0.13
With supplements	0.73	0.71	0.77 (0.70, 0.83)	0.72				
Natural folate (mcg)	0.49	0.64	0.72 (0.63, 0.79)	0.64	0.53	0.54	0.67 (0.55, 0.78)	0.35
Folic acid (mcg)	0.58	0.63	0.70 (0.62, 0.78)	0.65	0.50	0.49	0.53 (0.38, 0.65)	0.31
With supplements	0.74	0.73	0.79 (0.72, 0.84)	0.73				
Dietary folate eqvts (mcg)	0.46	0.56	0.64 (0.54, 0.72)	0.63	0.39	0.42	0.51 (0.36, 0.63)	0.29
With supplements	0.73	0.73	0.79 (0.72, 0.84)	0.75				
Vitamin C (mg)	0.51	0.55	0.62 (0.52, 0.70)	0.62	0.54	0.49	0.64 (0.50, 0.75)	0.29
With supplements	0.73	0.74	0.79 (0.73, 0.85)	0.75				
Vitamin D (mg)	0.65	0.65	0.74 (0.65, 0.81)	0.63	0.55	0.57	0.78 (0.60, 0.88)	0.24
With supplements	0.64	0.60	0.64 (0.56, 0.71)	0.74				
Vitamin E (mg)	0.37	0.42	0.50 (0.38, 0.60)	0.53	0.34	0.35	0.47 (0.33, 0.60)	0.28
With supplements	0.70	0.72	0.78 (0.71, 0.83)	0.73				
Vitamin K (mg)	0.56	0.62	0.74 (0.63, 0.82)	0.52	0.44	0.43	0.62 (0.46, 0.73)	0.24
With supplements	0.55	0.60	0.70 (0.60, 0.79)	0.55				
Calcium (mg)	0.59	0.68	0.73 (0.66, 0.80)	0.75	0.56	0.55	0.74 (0.55, 0.86)	0.24
With supplements	0.67	0.68	0.74 (0.66, 0.80)	0.74				

Web Table 11 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted and de-attenuated results (data provided by 298 U.S. female nurses with BMI<25kg/m2 at enrollment, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR				SFFQ2 vs. ASA24			
	Un-adjusted	Energy-adjusted			Un-adjusted	Energy-adjusted		
		Residual method	De-attenuated (ρ & 95%CI)	ICC		Residual method	De-attenuated (ρ & 95%CI)	ICC
Magnesium (mg)	0.41	0.68	0.75 (0.67, 0.81)	0.71	0.49	0.59	0.74 (0.60, 0.83)	0.33
With supplements	0.57	0.74	0.79 (0.72, 0.84)	0.79				
Iron (mg)	0.32	0.50	0.57 (0.46, 0.65)	0.64	0.35	0.46	0.51 (0.35, 0.64)	0.27
With supplements	0.34	0.43	0.51 (0.39, 0.61)	0.54				
Copper (mg)	0.35	0.55	0.62 (0.52, 0.70)	0.63	0.35	0.41	0.52 (0.37, 0.64)	0.29
With supplements	0.46	0.51	0.57 (0.47, 0.66)	0.65				
Zinc (mg)	0.34	0.41	0.49 (0.37, 0.59)	0.53	0.39	0.34	0.53 (0.34, 0.68)	0.16
With supplements	0.61	0.61	0.67 (0.59, 0.74)	0.68				
Phosphorus (mg)	0.43	0.67	0.74 (0.66, 0.81)	0.67	0.44	0.55	0.68 (0.48, 0.82)	0.22
With supplements	0.42	0.66	0.73 (0.65, 0.80)	0.68				
Choline (mg)	0.43	0.57	0.63 (0.54, 0.71)	0.67	0.46	0.42	0.62 (0.41, 0.77)	0.18
With supplements	0.40	0.54	0.60 (0.50, 0.68)	0.67				
Potassium (mg)	0.43	0.61	0.66 (0.57, 0.72)	0.73	0.54	0.53	0.66 (0.54, 0.75)	0.36
With supplements	0.43	0.61	0.66 (0.58, 0.73)	0.74				
Sodium (mg)	0.23	0.45	0.56 (0.43, 0.66)	0.47	0.25	0.25	0.39 (0.20, 0.55)	0.17
Caffeine (mg)	0.79	0.75	0.78 (0.72, 0.83)	0.86	0.74	0.73	0.76 v(0.67, 0.83)	0.53

Abbreviations: CI, confidence interval; ICC, intra class correlation; FA, fatty acid; Eqvts, equivalents; SFFQ, The semi-quantitative food frequency questionnaire; 7DDR, 7 Day Dietary Records; ASA24, Web-based, automated-self-administered 24-hour dietary recall.

Web Table 12: Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted and de-attenuated results (data provided by 334 U.S. female nurses with BMI>=25kg/m2 at enrollment, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR				SFFQ2 vs. ASA24			
	Un-adjusted	Energy-adjusted			Un-adjusted	Energy-adjusted		
		Residual method	De-attenuated (ρ & 95%CI)	ICC		Residual method	De-attenuated (ρ & 95%CI)	ICC
Total energy (kcal)	0.31		0.34 (0.23, 0.43)	0.64	0.31		0.39 (0.25, 0.50)	0.32
Total fat (g)	0.37	0.55	0.62 (0.53, 0.69)	0.64	0.34	0.51	0.66 (0.45, 0.80)	0.21
Saturated fat (g)	0.44	0.55	0.63 (0.53, 0.70)	0.61	0.46	0.49	0.63 (0.45, 0.75)	0.23
Polyunsaturated fat (g)	0.29	0.42	0.53 (0.41, 0.64)	0.44	0.20	0.38	0.69 (0.39, 0.86)	0.11
Monounsaturated fat (g)	0.36	0.42	0.50 (0.39, 0.59)	0.57	0.29	0.38	0.55 (0.37, 0.68)	0.20
Arachadonic FA (g)	0.38	0.44	0.53 (0.41, 0.62)	0.52	0.21	0.31	0.50 (0.32, 0.65)	0.16
Lauric FA (g)	0.39	0.37	0.50 (0.36, 0.61)	0.38	0.39	0.30	0.46 (0.29, 0.60)	0.19
Linoleic FA (g)	0.29	0.40	0.50 (0.37, 0.61)	0.45	0.21	0.38	0.65 (0.39, 0.82)	0.12
Linolenic FA (g)	0.31	0.39	0.54 (0.39, 0.65)	0.37	0.15	0.22	0.56 (-0.18, 0.90)	0.04
N-3 (DHA+EPA) FA (g)	0.50	0.46	0.61 (0.48, 0.72)	0.39	0.27	0.28	0.52 (0.22, 0.74)	0.08
With supplements	0.61	0.58	0.68 (0.58, 0.75)	0.57				
Oleic FA (g)	0.36	0.42	0.49 (0.38, 0.58)	0.57	0.29	0.37	0.54 (0.37, 0.68)	0.19
Cholesterol (mg)	0.50	0.54	0.62 (0.53, 0.70)	0.58	0.35	0.38	0.58 (0.36, 0.74)	0.14
Protein (g)	0.32	0.46	0.52 (0.41, 0.61)	0.61	0.23	0.31	0.45 (0.30, 0.58)	0.23
Carbohydrate (g)	0.41	0.63	0.67 (0.59, 0.73)	0.73	0.45	0.62	0.71 (0.58, 0.81)	0.33
Total sugar (g)	0.51	0.64	0.70 (0.63, 0.77)	0.74	0.55	0.67	0.73 (0.62, 0.82)	0.37
Fiber (g)	0.47	0.62	0.66 (0.58, 0.72)	0.72	0.35	0.54	0.61 (0.47, 0.71)	0.30
Alcohol (g)	0.86	0.75	0.82 (0.77, 0.87)	0.73	0.74	0.64	0.73 (0.64, 0.81)	0.43
Retinol activity eqvts (mcg)	0.45	0.48	0.69 (0.52, 0.81)	0.32	0.37	0.42	0.65 (0.43, 0.80)	0.16
With supplements	0.65	0.65	0.74 (0.65, 0.80)	0.63				
Alpha carotene (mcg)	0.52	0.49	0.68 (0.53, 0.79)	0.36	0.41	0.42	0.75 (0.42, 0.90)	0.11
Beta carotene (mcg)	0.51	0.49	0.62 (0.50, 0.71)	0.45	0.42	0.45	0.76 (0.53, 0.89)	0.15
With supplements	0.52	0.48	0.60 (0.48, 0.69)	0.47				
Lutein-zeaxanthin (mcg)	0.49	0.49	0.61 (0.49, 0.70)	0.48	0.42	0.45	0.68 v(0.39, 0.85)	0.13
Lycopene (mcg)	0.42	0.38	0.61 (0.40, 0.75)	0.25	0.26	0.19	0.40 (0.13, 0.61)	0.08
Beta cryptoxanthin (mcg)	0.33	0.34	0.52 (0.35, 0.66)	0.27	0.36	0.42	0.54 (0.34, 0.69)	0.16

Web Table 12 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted and de-attenuated results (data provided by 334 U.S. female nurses with BMI>=25kg/m2 at enrollment, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR					SFFQ2 vs. ASA24				
	Un-adjusted	Energy-adjusted				Un-adjusted	Energy-adjusted			
		Residual method	De-attenuated (ρ & 95%CI)		ICC		Residual method	De-attenuated (ρ & 95%CI)		ICC
Vitamin B1 (mg)	0.30	0.47	0.59	(0.47, 0.69)	0.44	0.28	0.39	0.62	(0.42, 0.77)	0.15
With supplements	0.64	0.66	0.73	(0.65, 0.79)	0.69					
Vitamin B2 (mg)	0.47	0.57	0.64	(0.55, 0.71)	0.67	0.44	0.53	0.67	(0.54, 0.78)	0.30
With supplements	0.67	0.70	0.76	(0.69, 0.81)	0.74					
Vitamin B3 (mg)	0.35	0.43	0.52	(0.41, 0.62)	0.50	0.24	0.35	0.53	(0.30, 0.71)	0.13
With supplements	0.64	0.68	0.77	(0.69, 0.83)	0.64					
Vitamin B6 (mg)	0.40	0.48	0.57	(0.46, 0.66)	0.54	0.28	0.40	0.65	(0.40, 0.82)	0.13
With supplements	0.68	0.68	0.75	(0.68, 0.81)	0.74					
Vitamin B12 (mg)	0.42	0.43	0.56	(0.43, 0.66)	0.42	0.29	0.30	0.43	(0.17, 0.63)	0.11
With supplements	0.67	0.65	0.72	(0.64, 0.78)	0.71					
Natural folate (mcg)	0.46	0.56	0.63	(0.54, 0.70)	0.63	0.36	0.50	0.60	(0.46, 0.71)	0.27
Folic acid (mcg)	0.53	0.56	0.67	(0.57, 0.75)	0.52	0.43	0.41	0.63	(0.44, 0.77)	0.17
With supplements	0.64	0.66	0.72	(0.65, 0.79)	0.71					
Dietary folate eqvts (mcg)	0.45	0.54	0.65	(0.54, 0.73)	0.50	0.34	0.39	0.68	(0.43, 0.84)	0.12
With supplements	0.64	0.68	0.75	(0.67, 0.81)	0.72					
Vitamin C (mg)	0.47	0.50	0.60	(0.49, 0.69)	0.53	0.43	0.47	0.61	(0.46, 0.72)	0.25
With supplements	0.67	0.68	0.74	(0.67, 0.80)	0.71					
Vitamin D (mg)	0.55	0.51	0.62	(0.51, 0.71)	0.51	0.47	0.46	0.73	(0.52, 0.86)	0.17
With supplements	0.62	0.61	0.67	(0.59, 0.73)	0.70					
Vitamin E (mg)	0.43	0.50	0.61	(0.50, 0.69)	0.53	0.27	0.37	0.54	(0.37, 0.68)	0.18
With supplements	0.74	0.73	0.78	(0.72, 0.83)	0.80					
Vitamin K (mg)	0.51	0.53	0.67	(0.55, 0.77)	0.44	0.32	0.38	0.64	(0.29, 0.85)	0.11
With supplements	0.50	0.52	0.63	(0.52, 0.72)	0.49					
Calcium (mg)	0.52	0.57	0.64	(0.54, 0.71)	0.63	0.49	0.54	0.62	(0.46, 0.74)	0.26
With supplements	0.64	0.66	0.73	(0.65, 0.79)	0.71					

Web Table 12 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted and de-attenuated results (data provided by 334 U.S. female nurses with BMI>=25kg/m2 at enrollment, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR					SFFQ2 vs. ASA24				
	Un-adjusted	Energy-adjusted				Un-adjusted	Energy-adjusted			
		Residual method	De-attenuated (ρ & 95%CI)		ICC		Residual method	De-attenuated (ρ & 95%CI)		ICC
Magnesium (mg)	0.44	0.62	0.68	(0.61, 0.74)	0.74	0.31	0.56	0.70	(0.59, 0.79)	0.37
With supplements	0.59	0.71	0.74	(0.67, 0.80)	0.79					
Iron (mg)	0.37	0.44	0.56	(0.44, 0.66)	0.44	0.26	0.34	0.64	(0.40, 0.80)	0.11
With supplements	0.46	0.52	0.65	(0.54, 0.74)	0.46					
Copper (mg)	0.37	0.47	0.55	(0.45, 0.64)	0.57	0.25	0.38	0.56	(0.39, 0.69)	0.20
With supplements	0.55	0.60	0.68	(0.59, 0.75)	0.63					
Zinc (mg)	0.37	0.44	0.55	(0.43, 0.65)	0.46	0.26	0.26	0.53	(0.15, 0.78)	0.07
With supplements	0.61	0.61	0.69	(0.60, 0.75)	0.64					
Phosphorus (mg)	0.39	0.54	0.60	(0.51, 0.67)	0.68	0.33	0.49	0.66	(0.52, 0.77)	0.26
With supplements	0.41	0.55	0.61	(0.53, 0.69)	0.69					
Choline (mg)	0.44	0.53	0.61	(0.51, 0.69)	0.60	0.29	0.39	0.58	(0.40, 0.71)	0.19
With supplements	0.45	0.53	0.62	(0.52, 0.70)	0.58					
Potassium (mg)	0.47	0.58	0.64	(0.56, 0.71)	0.72	0.36	0.54	0.60	(0.48, 0.70)	0.34
With supplements	0.47	0.58	0.64	(0.56, 0.71)	0.72					
Sodium (mg)	0.30	0.40	0.48	(0.37, 0.58)	0.51	0.26	0.32	0.41	(0.24, 0.55)	0.21
Caffeine (mg)	0.76	0.76	0.81	(0.75, 0.85)	0.86	0.72	0.71	0.75	(0.66, 0.82)	0.48

Abbreviations: CI, confidence interval; ICC, intra class correlation; FA, fatty acid; Eqvts, equivalents; SFFQ, The semi-quantitative food frequency questionnaire; 7DDR, 7 Day Dietary Records; ASA24, Web-based, automated-self-administered 24-hour dietary recall.

Web Table 13: Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted and de-attenuated results (data provided by 127 U.S. female nurses with BMI>=30 kg/m2 at enrollment, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR					SFFQ2 vs. ASA24				
	Un-adjusted	Energy-adjusted				Un-adjusted	Energy-adjusted			
		Residual method	De-attenuated (ρ & 95%CI)		ICC		Residual method	De-attenuated (ρ & 95%CI)		ICC
Total energy (kcal)	0.25		0.29	(0.11, 0.45)	0.62	0.38		0.46	(0.25, 0.63)	0.36
Total fat (g)	0.30	0.55	0.62	(0.46, 0.74)	0.63	0.37	0.43	0.55	(0.02, 0.84)	0.11
Saturated fat (g)	0.40	0.53	0.64	(0.45, 0.77)	0.52	0.48	0.39	0.68	(0.27, 0.88)	0.14
Polyunsaturated fat (g)	0.20	0.42	0.56	(0.33, 0.73)	0.37	0.23	0.35	0.57	(0.00, 0.87)	0.10
Monounsaturated fat (g)	0.29	0.46	0.54	(0.37, 0.67)	0.58	0.34	0.38	0.71	(-0.16, 0.97)	0.07
Arachadonic FA (g)	0.31	0.40	0.48	(0.30, 0.64)	0.52	0.09	0.31	0.44	(0.12, 0.67)	0.17
Lauric FA (g)	0.42	0.43	0.59	(0.35, 0.75)	0.37	0.47	0.34	0.53	(0.04, 0.82)	0.11
Linoleic FA (g)	0.22	0.39	0.53	(0.29, 0.70)	0.37	0.26	0.39	0.46	(-0.1, 0.80)	0.10
Linolenic FA (g)	0.20	0.35	0.51	(0.25, 0.71)	0.31	0.14	0.17	0.46	(-0.07, 0.79)	0.08
N-3 (DHA+EPA) FA (g)	0.43	0.40	0.50	(0.30, 0.66)	0.44	0.17	0.25	0.39	(0.10, 0.62)	0.18
With supplements	0.58	0.53	0.62	(0.44, 0.75)	0.54					
Oleic FA (g)	0.29	0.46	0.53	(0.36, 0.67)	0.58	0.35	0.38	0.79	(-0.69, 1.00)	0.05
Cholesterol (mg)	0.44	0.44	0.52	(0.34, 0.66)	0.57	0.27	0.38	0.57	(0.24, 0.79)	0.16
Protein (g)	0.24	0.42	0.48	(0.31, 0.62)	0.61	0.23	0.39	0.46	(0.16, 0.68)	0.21
Carbohydrate (g)	0.42	0.65	0.71	(0.58, 0.80)	0.73	0.55	0.53	0.68	(0.45, 0.83)	0.29
Total sugar (g)	0.57	0.70	0.75	(0.64, 0.83)	0.78	0.74	0.68	0.72	(0.48, 0.86)	0.35
Fiber (g)	0.43	0.52	0.59	(0.43, 0.72)	0.63	0.41	0.51	0.61	(0.38, 0.77)	0.33
Alcohol (g)	0.85	0.70	0.77	(0.65, 0.86)	0.70	0.75	0.55	0.66	(0.46, 0.80)	0.36
Retinol activity eqvts (mcg)[a]	0.41	0.41		N/A	-0.02	0.44	0.44	0.84	(-0.44, 1.00)	0.09
With supplements	0.62	0.60	0.72	(0.55, 0.83)	0.54					
Alpha carotene (mcg)	0.48	0.45	0.66	(0.36, 0.84)	0.31	0.38	0.40	0.71	(-0.14, 0.96)	0.09
Beta carotene (mcg)	0.48	0.48	0.71	(0.37, 0.88)	0.29	0.48	0.54	0.78	(-0.25, 0.98)	0.11
With supplements	0.48	0.44	0.61	(0.36, 0.78)	0.36					
Lutein-zeaxanthin (mcg)	0.47	0.51	0.76	(0.38, 0.92)	0.29	0.49	0.54	0.47	(-0.11, 0.81)	0.16
Lycopene (mcg)	0.39	0.38	0.69	(0.11, 0.92)	0.17	0.21	0.19	0.4	(-0.19, 0.79)	0.06
Beta cryptoxanthin (mcg)	0.23	0.28	0.53	(0.07, 0.81)	0.16	0.28	0.41	0.45	(0.07, 0.72)	0.13

Web Table 13 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted and de-attenuated results (data provided by 127 U.S. female nurses with BMI>=30 kg/m2 at enrollment, 2010-2012)

Nutrient	SFFQ2 vs. 7DDR					SFFQ2 vs. ASA24				
	Un-adjusted	Energy-adjusted				Un-adjusted	Energy-adjusted			
		Residual method	De-attenuated (ρ & 95%CI)		ICC		Residual method	De-attenuated (ρ & 95%CI)		ICC
Vitamin B1 (mg)	0.25	0.40	0.58	(0.29, 0.78)	0.29	0.29	0.34	0.60	(0.14, 0.85)	0.11
With supplements	0.60	0.60	0.67	(0.53, 0.78)	0.66					
Vitamin B2 (mg)	0.40	0.48	0.58	(0.39, 0.72)	0.52	0.42	0.48	0.58	(0.23, 0.80)	0.20
With supplements	0.64	0.67	0.72	(0.60, 0.81)	0.77					
Vitamin B3 (mg)	0.30	0.36	0.46	(0.25, 0.63)	0.42	0.21	0.38	0.34	(-0.26, 0.75)	0.09
With supplements	0.60	0.62	0.74	(0.57, 0.85)	0.53					
Vitamin B6 (mg)	0.35	0.46	0.58	(0.37, 0.73)	0.43	0.27	0.41	0.59	(0.25, 0.80)	0.18
With supplements	0.59	0.58	0.63	(0.49, 0.74)	0.70					
Vitamin B12 (mg)	0.44	0.41	0.52	(0.31, 0.69)	0.41	0.33	0.33	0.58	(0.10, 0.85)	0.11
With supplements	0.56	0.51	0.55	(0.40, 0.67)	0.74					
Natural folate (mcg)	0.38	0.54	0.63	(0.46, 0.75)	0.57	0.38	0.52	0.79	(0.38, 0.93)	0.19
Folic acid (mcg)	0.53	0.56	0.65	(0.48, 0.77)	0.59	0.47	0.37	0.59	(0.23, 0.81)	0.15
With supplements	0.61	0.63	0.69	(0.55, 0.79)	0.70					
Dietary folate eqvts (mcg)	0.39	0.47	0.59	(0.38, 0.74)	0.45	0.34	0.42	0.55	(0.21, 0.78)	0.17
With supplements	0.60	0.63	0.70	(0.56, 0.81)	0.66					
Vitamin C (mg)	0.39	0.42	0.51	(0.32, 0.67)	0.47	0.31	0.46	0.43	(0.14, 0.65)	0.24
With supplements	0.61	0.59	0.65	(0.51, 0.77)	0.69					
Vitamin D (mg)	0.50	0.44	0.52	(0.34, 0.67)	0.53	0.57	0.56	0.67	(0.23, 0.88)	0.18
With supplements	0.64	0.61	0.67	(0.53, 0.78)	0.69					
Vitamin E (mg)	0.43	0.54	0.69	(0.48, 0.83)	0.44	0.31	0.37	0.43	(0.16, 0.64)	0.23
With supplements	0.78	0.76	0.80	(0.70, 0.87)	0.79					
Vitamin K (mg)	0.43	0.52	0.77	(0.41, 0.92)	0.31	0.43	0.56	0.39	(-0.39, 0.85)	0.11
With supplements	0.45	0.50	0.67	(0.43, 0.82)	0.38					
Calcium (mg)	0.49	0.52	0.59	(0.43, 0.71)	0.62	0.50	0.50	0.56	(0.25, 0.77)	0.21
With supplements	0.64	0.65	0.71	(0.58, 0.81)	0.71					

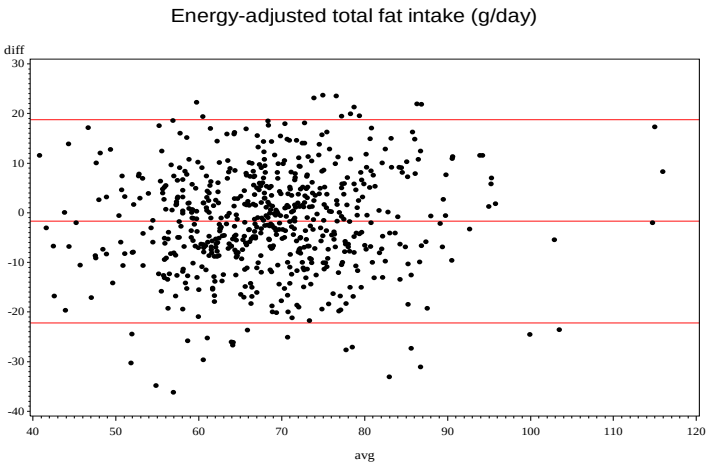
Web Table 13 (continued): Spearman correlation coefficient for comparison of daily nutrient intake from SFFQ2 with the means of two 7DDRs, and four ASA24s, unadjusted and energy-adjusted and de-attenuated results (data provided by 127 U.S. female nurses with BMI>=30 kg/m2 at enrollment, 2010-2012)

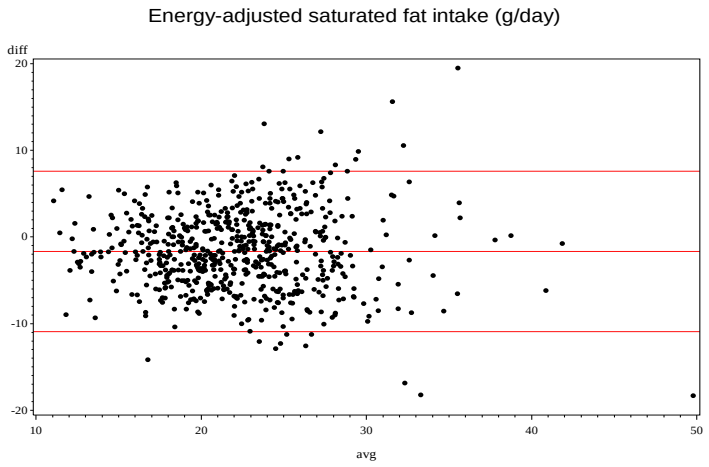
Nutrient	SFFQ2 vs. 7DDR					SFFQ2 vs. ASA24				
	Un-adjusted	Energy-adjusted				Un-adjusted	Energy-adjusted			
		Residual method	De-attenuated (ρ & 95%CI)		ICC		Residual method	De-attenuated (ρ & 95%CI)		ICC
Magnesium (mg)	0.39	0.51	0.56	(0.40, 0.68)	0.67	0.36	0.48	0.48	(0.26, 0.66)	0.37
With supplements	0.51	0.56	0.60	(0.46, 0.71)	0.72					
Iron (mg)	0.29	0.33	0.45	(0.21, 0.64)	0.35	0.23	0.27	0.48	(-0.44, 0.91)	0.05
With supplements	0.40	0.49	0.60	(0.40, 0.74)	0.48					
Copper (mg)	0.30	0.38	0.48	(0.28, 0.65)	0.45	0.27	0.41	0.49	(0.23, 0.68)	0.25
With supplements	0.57	0.58	0.68	(0.52, 0.80)	0.58					
Zinc (mg)	0.44	0.48	0.60	(0.40, 0.73)	0.48	0.31	0.25	0.68	(-0.67, 0.99)	0.04
With supplements	0.62	0.58	0.66	(0.51, 0.78)	0.63					
Phosphorus (mg)	0.36	0.50	0.55	(0.39, 0.68)	0.67	0.38	0.53	0.65	(0.34, 0.84)	0.22
With supplements	0.39	0.53	0.58	(0.43, 0.70)	0.70					
Choline (mg)	0.42	0.51	0.58	(0.41, 0.70)	0.63	0.26	0.39	0.48	(0.16, 0.70)	0.20
With supplements	0.42	0.51	0.58	(0.41, 0.71)	0.61					
Potassium (mg)	0.44	0.51	0.57	(0.40, 0.69)	0.65	0.38	0.43	0.43	(0.19, 0.62)	0.32
With supplements	0.46	0.53	0.59	(0.43, 0.71)	0.65					
Sodium (mg)	0.16	0.27	0.34	(0.12, 0.52)	0.43	0.31	0.29	0.39	(0.13, 0.60)	0.24
Caffeine (mg)	0.73	0.75	0.78	(0.68, 0.85)	0.86	0.75	0.72	0.76	(0.55, 0.87)	0.40

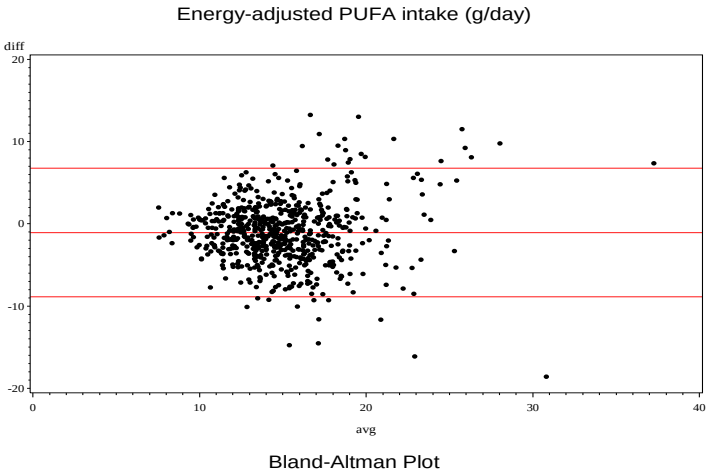
Abbreviations: CI, confidence interval; ICC, intra class correlation; FA, fatty acid; Eqvts, equivalents; SFFQ, The semi-quantitative food frequency questionnaire; 7DDR, 7 Day Dietary Records; ASA24, Web-based, automated-self-administered 24-hour dietary recall.

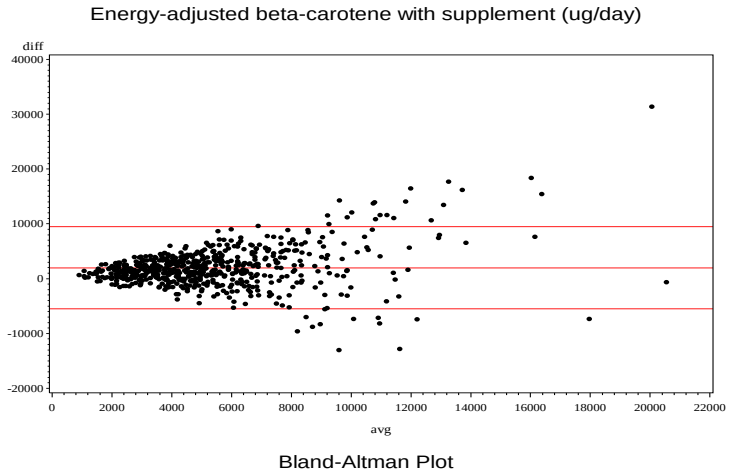
[a] The ICC for Retinol activity equivalent in 7DDR was -0.02, thus de-attenuated Spearman correlation coefficient was not available.

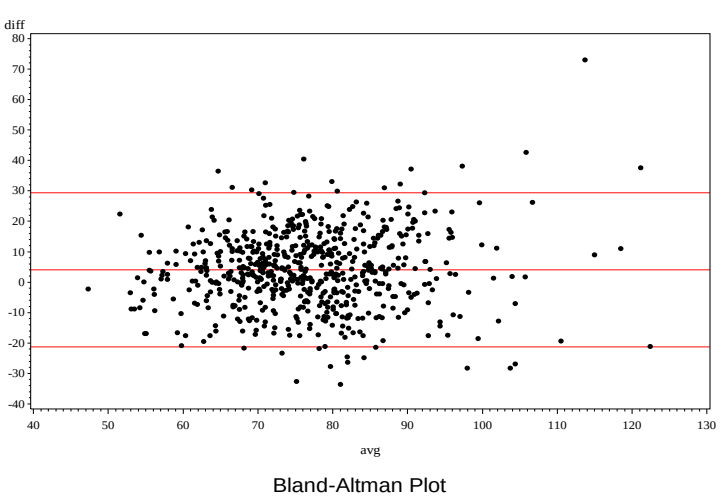
Web Figure 1. Bland-Altman plots comparing energy-adjusted nutrient intakes assessed by SFFQ2 and 7DDRs. The middle line represents the mean difference between the two assessment methods; the upper and lower lines are the 95% limits of agreement (Data Provided by 632 U.S. Female Nurses Aged 45-80 Years, 2010-2012)

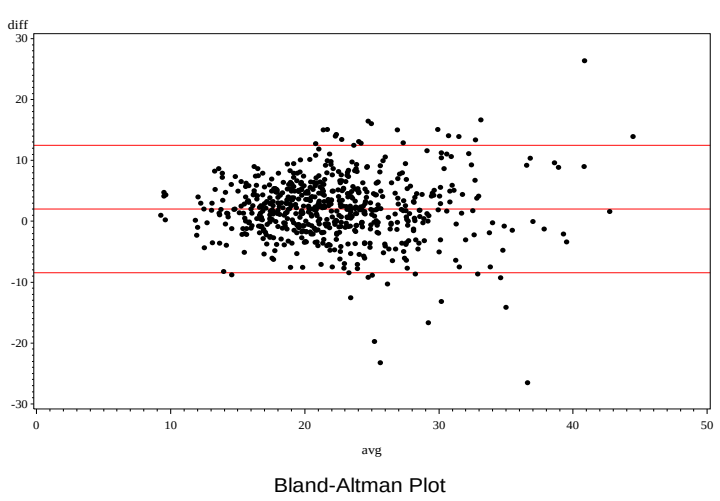












Web Table 14: Regression coefficients of predicting the average daily nutrient intakes of two 7DDRs, and four ASA24s using daily nutrient intakes from each SFFQ, unadjusted and energy-adjusted using energy density and residual method (data provided by 632 U.S. female nurses aged 45-80 years, 2010-2012)

Nutrient	SFFQ2 vs.				SFFQ1 vs.				WebFFQ vs.			
	7DDR		ASA24		7DDR		ASA24		7DDR		ASA24	
	Un-adjusted	Residual method	Un-adjusted	Residual method	Un-adjusted	Residual method	Un-adjusted	Residual method	Un-adjusted	Residual method	Un-adjusted	Residual method
Total energy (kcal)	0.20		0.27		0.21		0.30		0.19		0.25	
Total fat (g)	0.29	0.55	0.35	0.57	0.31	0.53	0.36	0.55	0.25	0.51	0.31	0.53
Saturated fat (g)	0.39	0.58	0.47	0.57	0.39	0.59	0.45	0.57	0.34	0.61	0.40	0.58
Polyunsaturated fat (g)	0.24	0.45	0.27	0.52	0.30	0.46	0.35	0.53	0.23	0.46	0.29	0.50
Monounsaturated fat (g)	0.29	0.41	0.32	0.41	0.31	0.40	0.33	0.41	0.26	0.39	0.30	0.38
Arachadonic FA (g)	0.34	0.40	0.44	0.54	0.37	0.56	0.33	0.57	0.34	0.44	0.34	0.53
Lauric FA (g)	0.34	0.32	0.37	0.33	0.41	0.33	0.40	0.38	0.36	0.33	0.35	0.38
Linoleic FA (g)	0.25	0.44	0.28	0.53	0.50	0.47	0.78	0.53	0.46	0.46	0.79	0.50
Linolenic FA (g)	0.29	0.42	0.26	0.33	0.56	0.41	0.71	0.32	0.52	0.43	0.65	0.36
N-3 (DHA+EPA) FA (g)	0.50	0.54	0.33	0.41	0.49	0.52	0.57	0.39	0.48	0.42	0.58	0.30
With supplements	0.66	0.69	0.65	0.65	0.53	0.56						
Oleic FA (g)	0.29	0.40	0.31	0.40	0.45	0.39	0.39	0.40	0.48	0.38	0.60	0.37
Cholesterol (mg)	0.44	0.54	0.50	0.57	0.51	0.62	0.44	0.45	0.42	0.54	0.43	0.52
Protein (g)	0.25	0.48	0.29	0.48	0.28	0.47	0.35	0.46	0.24	0.48	0.29	0.49
Carbohydrates (g)	0.34	0.75	0.43	0.78	0.35	0.76	0.44	0.72	0.31	0.70	0.38	0.73
Total sugar (g)	0.48	0.73	0.57	0.76	0.50	0.75	0.58	0.74	0.46	0.73	0.52	0.76
Fiber (g)	0.41	0.70	0.45	0.67	0.46	0.74	0.52	0.72	0.40	0.70	0.45	0.70
Alcohol (g)	0.49	0.48	0.58	0.57	0.28	0.48	0.30	0.57	0.27	0.47	0.31	0.57
Retinol activity eqvts (mcg)	0.43	0.49	0.50	0.54	0.34	0.48	0.37	0.54	0.30	0.46	0.27	0.48
With supplements	0.63	0.67	0.62	0.64	0.60	0.65						
Alpha carotene (mcg)	0.53	0.55	0.85	0.87	0.45	0.49	0.60	0.78	0.41	0.47	0.53	0.86
Beta carotene (mcg)	0.57	0.63	0.71	0.78	0.46	0.60	0.66	0.78	0.47	0.58	0.61	0.72
With supplements	0.58	0.63	0.55	0.57	0.52	0.58						
Lutein-zeaxanthin (mcg)	0.54	0.60	0.64	0.72	0.43	0.57	0.60	0.69	0.38	0.55	0.54	0.64
Lycopene (mcg)	0.48	0.48	0.66	0.49	0.20	0.44	0.18	0.29	0.18	0.49	0.20	0.47
Beta cryptoxanthin (mcg)	0.41	0.48	0.90	1.03	0.31	0.46	0.35	0.94	0.23	0.44	0.29	0.93

Web Table 14 (continued): Regression coefficients of predicting the average daily nutrient intakes of two 7DDRs, and four ASA24s using daily nutrient intakes from each SFFQ, unadjusted and energy-adjusted (data provided by 632 U.S. female nurses aged 45-80 years, 2010-2012)

Nutrient	SFFQ2 vs.				SFFQ1 vs.				WebFFQ vs.			
	7DDR		ASA24		7DDR		ASA24		7DDR		ASA24	
	Un-adjusted	Residual method	Un-	Residual method	Un-adjusted	Residual method	Un-adjusted	Residual method	Un-adjusted	Residual method	Un-adjusted	Residual method
Vitamin B1 (mg)	0.29	0.47	0.33	0.50	0.33	0.42	0.28	0.36	0.29	0.57	0.28	0.53
With supplements	0.72	0.73	0.68	0.68	0.68	0.70						
Vitamin B2 (mg)	0.44	0.55	0.45	0.54	0.43	0.54	0.53	0.52	0.41	0.58	0.49	0.58
With supplements	0.60	0.60	0.56	0.56	0.56	0.57						
Vitamin B3 (mg)	0.31	0.52	0.32	0.52	0.31	0.49	0.33	0.48	0.26	0.52	0.29	0.41
With supplements	0.77	0.83	0.77	0.80	0.74	0.80						
Vitamin B6 (mg)	0.36	0.59	0.37	0.54	0.36	0.53	0.42	0.46	0.31	0.63	0.37	0.60
With supplements	0.55	0.55	0.52	0.52	0.51	0.51						
Vitamin B12 (mg)	0.43	0.49	0.39	0.39	0.40	0.44	0.39	0.36	0.42	0.52	0.37	0.38
With supplements	0.70	0.70	0.69	0.69	0.68	0.68						
Natural folate (mcg)	0.42	0.61	0.39	0.60	0.42	0.56	0.40	0.55	0.38	0.58	0.37	0.55
Folic acid (mcg)	0.79	0.84	0.81	0.80	0.44	0.76	0.45	0.88	0.40	0.88	0.44	0.88
With supplements	0.66	0.67	0.62	0.63	0.71	0.73						
Dietary folate eqvts (mcg)	0.42	0.57	0.36	0.43	0.35	0.49	0.38	0.37	0.32	0.53	0.36	0.46
With supplements	0.71	0.75	0.68	0.70	0.69	0.76						
Vitamin C (mg)	0.50	0.61	0.67	0.80	0.49	0.56	0.67	0.78	0.45	0.55	0.64	0.76
With supplements	0.81	0.85	0.79	0.82	0.78	0.81						
Vitamin D (mg)	0.57	0.61	0.66	0.72	0.54	0.56	0.68	0.69	0.52	0.58	0.61	0.66
With supplements	0.89	0.90	0.82	0.81	0.83	0.84						
Vitamin E (mg)	0.36	0.48	0.31	0.37	0.39	0.48	0.33	0.35	0.29	0.43	0.26	0.33
With supplements	0.71	0.73	0.72	0.74	0.66	0.68						
Vitamin K (mg)	0.47	0.53	0.44	0.52	0.47	0.53	0.45	0.53	0.44	0.50	0.39	0.47
With supplements	0.49	0.56	0.50	0.56	0.45	0.51						
Calcium (mg)	0.45	0.58	0.54	0.65	0.34	0.55	0.30	0.65	0.34	0.54	0.29	0.58
With supplements	0.66	0.71	0.66	0.71	0.61	0.68						

Web Table 14 (continued): Regression coefficients of predicting the average daily nutrient intakes of two 7DDRs, and four ASA24s using daily nutrient intakes from each SFFQ, unadjusted and energy-adjusted (data provided by 632 U.S. female nurses aged 45-80 years, 2010-2012)

Nutrient	SFFQ2 vs.				SFFQ1 vs.				WebFFQ vs.			
	7DDR		ASA24		7DDR		ASA24		7DDR		ASA24	
	Un-adjusted	Residual method	Un-adjusted	Residual method	Un-adjusted	Residual method	Un-adjusted	Residual method	Un-adjusted	Residual method	Un-adjusted	Residual method
Magnesium (mg)	0.37	0.84	0.39	0.86	0.50	0.77	0.38	0.83	0.39	0.78	0.28	0.76
With supplements	0.63	0.96	0.61	0.90	0.57	0.90						
Iron (mg)	0.33	0.58	0.31	0.46	0.36	0.55	0.41	0.39	0.32	0.67	0.38	0.49
With supplements	0.41	0.51	0.44	0.50	0.36	0.43						
Copper (mg)	0.33	0.55	0.30	0.47	0.41	0.54	0.45	0.45	0.37	0.56	0.42	0.44
With supplements	0.49	0.54	0.49	0.55	0.43	0.49						
Zinc (mg)	0.34	0.52	0.34	0.39	0.33	0.45	0.35	0.38	0.30	0.53	0.29	0.38
With supplements	0.62	0.65	0.58	0.62	0.54	0.59						
Phosphorus (mg)	0.32	0.62	0.35	0.61	0.48	0.53	0.51	0.58	0.37	0.57	0.45	0.58
With supplements	0.32	0.62	0.33	0.54	0.28	0.56						
Choline (mg)	0.37	0.60	0.36	0.54	0.45	0.61	0.67	0.48	0.43	0.59	0.60	0.48
With supplements	0.36	0.56	0.42	0.62	0.36	0.59						
Potassium (mg)	0.39	0.77	0.42	0.75	0.33	0.68	0.42	0.68	0.32	0.66	0.39	0.66
With supplements	0.39	0.77	0.42	0.69	0.35	0.67						
Sodium (mg)	0.22	0.42	0.24	0.30	0.71	0.37	0.83	0.25	0.78	0.40	0.84	0.33
Caffeine (mg)	0.80	0.81	1.46	1.46	0.35	0.90	0.34	1.58	0.31	0.62	0.32	1.12

Abbreviations: CI, confidence interval; ICC, intra class correlation; FA, fatty acid; Eqvts, equivalents; SFFQ, The semi-quantitative food frequency questionnaire; WebFFQ: web-based version of the SFFQ; 7DDR, 7 Day Dietary Records; ASA24, Web-based, automated-self-administered 24-hour dietary recall.

Web Table 15: Nutrient distribution, Spearman correlation coefficient and regression coefficients for comparing the additional nutrients that were available for the 7DDR and SFFQ (data provided by 632 U.S. female nurses aged 45-80 years, 2010-2012)

Nutrient	Mean (SD)		ICC		Spearman correlation coefficient				Regression coefficient	
			Energy-adjusted		Un-adjusted	Energy-adjusted			Un-adjusted	Energy-adjusted
	FFQ2	Averaged 7DDRs	FFQs	7DDRs		Residual method	De-attenuated (ρ & 95%CI)			
Animal Protein (g)	52.9 (19.3)	47.8 (14.5)	0.60	0.63	0.42	0.50	0.56	(0.48, 0.62)	0.37	0.47
Vegetable Protein (g)	27.7 (9.9)	24.8 (6.8)	0.64	0.63	0.39	0.59	0.66	(0.59, 0.71)	0.31	0.57
Total Trans-Fatty Acids (g)	1.9 (0.8)	2.2 (0.9)	0.69	0.44	0.39	0.45	0.57	(0.48, 0.64)	0.45	0.65
18:2 Trans-Fatty Acids ((g)	0.3 (0.1)	0.3 (0.1)	0.67	0.46	0.39	0.44	0.56	(0.47, 0.63)	0.39	0.53
18:1 Trans-Fatty Acids ((g)	1.6 (0.6)	1.8 (0.8)	0.67	0.42	0.38	0.43	0.56	(0.47, 0.64)	0.47	0.68
16:1 Trans-Fatty Acids ((g)	0.08 (0.04)	0.04 (0.03)	0.68	0.47	0.39	0.41	0.51	(0.43, 0.59)	0.40	0.43
CLA 18:2 Linoleic, c9,t11 (g)	0.08 (0.04)	0.10 (0.04)	0.71	0.57	0.52	0.56	0.65	(0.58, 0.71)	0.52	0.58
Total Sugars (g)	100.2 (42.8)	91.8 (32.2)	0.78	0.75	0.53	0.68	0.74	(0.69, 0.79)	0.48	0.73
Fructose (g)	21.2 (10.2)	17.5 (8.4)	0.69	0.65	0.55	0.60	0.67	(0.61, 0.72)	0.54	0.71
Glucose (g)	20.7 (10.0)	18.3 (7.4)	0.68	0.62	0.49	0.55	0.63	(0.57, 0.69)	0.41	0.56
Lactose (g)	16.4 (12.2)	12.7 (8.7)	0.74	0.78	0.70	0.71	0.77	(0.72, 0.81)	0.62	0.64
Maltose (g)	2.3 (1.1)	2.7 (1.5)	0.54	0.43	0.17	0.20	0.25	(0.15, 0.34)	0.21	0.27
Sucrose (g)	39.6 (21.9)	40.3 (18.5)	0.72	0.68	0.45	0.58	0.65	(0.59, 0.70)	0.46	0.66
Starch (g)	79.4 (30.0)	82.1 (23.1)	0.62	0.60	0.43	0.57	0.66	(0.59, 0.71)	0.39	0.61
Synthetic α-Tocopherol (mg)	1.6 (3.3)	2.5 (4.8)	0.54	0.41	0.37	0.34	0.44	(0.35, 0.52)	0.33	0.33
Beta-Tocopherol (mg)	0.3 (0.1)	0.4 (0.2)	0.54	0.45	0.31	0.36	0.45	(0.36, 0.53)	0.34	0.49
Delta-Tocopherol (mg)	2.2 (1.0)	2.5 (1.0)	0.58	0.42	0.31	0.43	0.55	(0.46, 0.63)	0.36	0.56
Gama-Tocopherol (mg)	10.1 (4.3)	11.3 (3.9)	0.60	0.40	0.25	0.38	0.50	(0.41, 0.59)	0.23	0.41
Pantothenic Acid (mg)	6.0 (2.1)	5.5 (2.0)	0.65	0.66	0.50	0.58	0.65	(0.59, 0.70)	0.50	0.66
With supplements	18.8 (50.9)	15.3 (23.4)	0.69	0.72	0.69	0.71	0.78	(0.73, 0.82)	0.62	0.64
Tryptophan (g)	0.9 (0.3)	0.8 (0.2)	0.63	0.59	0.31	0.47	0.54	(0.47, 0.60)	0.24	0.50
Threonine (g)	3.0 (0.9)	2.7 (0.6)	0.60	0.61	0.31	0.46	0.52	(0.45, 0.59)	0.24	0.48
Isoleucine (g)	3.7 (1.1)	3.2 (0.8)	0.61	0.61	0.33	0.47	0.53	(0.46, 0.60)	0.26	0.49
Leucine (g)	6.4 (2.0)	5.6 (1.3)	0.62	0.62	0.34	0.49	0.55	(0.48, 0.62)	0.26	0.49
Lysine (g)	5.6 (1.8)	4.8 (1.2)	0.59	0.61	0.35	0.46	0.52	(0.44, 0.58)	0.29	0.49

Web Table 15 (continued): Nutrient distribution, Spearman correlation coefficient and regression coefficients for comparing the additional nutrients that were available for the 7DDR and SFFQ (data provided by 632 U.S. female nurses aged 45-80 years, 2010-2012)

Nutrient	Mean (SD)		ICC		Spearman correlation coefficient				Regression coefficient	
			Energy-adjusted		Un-adjusted	Energy-adjusted			Un-adjusted	Energy-adjusted
	FFQ2	Averaged 7DDRs	FFQs	7DDRs		Residual method	De-attenuated (ρ & 95%CI)			
Methionine (g)	1.8 (0.6)	1.6 (0.4)	0.60	0.62	0.34	0.46	0.52	(0.44, 0.58)	0.27	0.47
Cystine (g)	1.2 (0.4)	1.1 (0.3)	0.70	0.67	0.45	0.60	0.67	(0.61, 0.72)	0.35	0.56
Phenylalanine (g)	3.6 (1.1)	3.2 (0.7)	0.63	0.62	0.33	0.50	0.57	(0.50, 0.63)	0.24	0.50
Tyrosine (g)	2.8 (0.9)	2.5 (0.6)	0.63	0.63	0.34	0.50	0.55	(0.48, 0.62)	0.26	0.49
Valine (g)	4.2 (1.3)	3.7 (0.8)	0.61	0.62	0.34	0.49	0.55	(0.47, 0.61)	0.26	0.50
Arginine (g)	4.6 (1.4)	3.9 (1.0)	0.60	0.60	0.30	0.45	0.51	(0.43, 0.57)	0.24	0.48
Histidine (g)	2.2 (0.7)	1.9 (0.5)	0.61	0.59	0.32	0.46	0.52	(0.44, 0.59)	0.25	0.47
Alanine (g)	3.9 (1.2)	3.3 (0.8)	0.60	0.60	0.32	0.46	0.52	(0.44, 0.58)	0.26	0.47
Aspartic Acid (g)	7.5 (2.3)	6.4 (1.5)	0.61	0.60	0.32	0.46	0.52	(0.45, 0.59)	0.25	0.50
Glutamic Acid (g)	15.4 (4.5)	14 (2.9)	0.64	0.61	0.33	0.49	0.56	(0.49, 0.62)	0.24	0.48
Glycine (g)	3.4 (1.1)	3.0 (0.8)	0.59	0.59	0.31	0.44	0.51	(0.43, 0.57)	0.25	0.47
Proline (g)	5.1 (1.6)	4.8 (1.1)	0.65	0.62	0.38	0.55	0.63	(0.57, 0.69)	0.28	0.52
Serine (g)	3.8 (1.1)	3.3 (0.7)	0.63	0.64	0.34	0.50	0.57	(0.50, 0.63)	0.25	0.50
Genistein (mg)	1.5 (3.1)	1.2 (2.6)	0.62	0.43	0.47	0.50	0.64	(0.55, 0.71)	0.70	0.75
Glycitein (mg)	0.4 (0.8)	0.2 (0.4)	0.62	0.37	0.53	0.52	0.70	(0.60, 0.78)	0.73	0.78
Aspartame (mg)	0.08 (0.14)	0.07 (0.10)	0.79	0.74	0.77	0.70	0.76	(0.71, 0.81)	0.69	0.68
Sucralose (g)[a]	1.7 (3.9)	0.2 (0.6)	0.81	0.64	0.27	0.32	0.35	(0.27, 0.42)	0.32	0.32
Betaine (mg)	106.2 (49.2)	148.3 (61.1)	0.55	0.49	0.41	0.40	0.49	(0.41, 0.57)	0.38	0.45
With supplements	106.5 (49.8)	151.1 (75.7)	0.56	0.50	0.39	0.39	0.47	(0.38, 0.54)	0.37	0.43
Glycemic Index	49.9 (4.1)	51.7 (4.1)	0.68	0.67	0.48	0.48	0.52	(0.45, 0.58)	0.49	0.48
Glycemic Load	110 (38.8)	108.4 (28.5)	0.72	0.71	0.41	0.63	0.69	(0.64, 0.74)	0.36	0.67
Selenium, supplements (mcg)	21.7 (57.4)	24.1 (40.7)	0.59	0.66	0.62	0.45	0.50	(0.42, 0.56)	0.69	0.68
Manganese (mg)	4.2 (1.5)	3.9 (1.4)	0.68	0.70	0.50	0.63	0.68	(0.62, 0.73)	0.47	0.75
With supplements	5.1 (2.2)	5.3 (2.4)	0.63	0.68	0.54	0.61	0.68	(0.62, 0.73)	0.54	0.66

Web Table 15 (continued): Nutrient distribution, Spearman correlation coefficient and regression coefficients for comparing the additional nutrients that were available for the 7DDR and SFFQ (data provided by 632 U.S. female nurses aged 45-80 years, 2010-2012)

Nutrient	Mean (sd)		ICC		Spearman correlation coefficient				Regression coefficient	
			Energy-adjusted		Un-adjusted	Energy-adjusted			Un-adjusted	Energy-adjusted
	FFQ2	Averaged 7DDRs	FFQs	7DDRs		Residual method	De-attenuated (ρ & 95%CI)			
Oxalic acid, Oxalate (mg)	250.6 (161.9)	209.4 (101.8)	0.66	0.51	0.48	0.50	0.60	(0.52, 0.67)	0.39	0.44
Phytic acid, Phytate (mg)[b]	1078.4 (407.8)	661.4 (265.1)	0.61	0.65	0.43	0.55	0.62	(0.56, 0.68)	0.44	0.75
Iodine, supplements (mcg)	63.5 (78.5)	72.2 (291.2)	0.29	0.69	0.62	0.40	0.43	(0.37, 0.50)	0.69	0.69

Abbreviations: SD, standard deviation; CI, confidence interval; ICC, intra class correlation; SFFQ, The semi-quantitative food frequency questionnaire; 7DDR, 7 Day Dietary Records.

[a] Higher sucrose intake assessed by SFFQ was mainly due to very high consumptions of diet soda; and among different types of diet soda, the diet Mountain Dew has high contents of sucrose.

[b] Phytic acid database values in FFQ and 7DDR are based upon different methods.