

Supplementary Material

Table S1. Food groups and food items included in the cluster analysis.

Food group	Food items included	Portion size used
Refined flour products	All types of bread including Lebanese bread, crisp bread, croissant, "Mankouche" (Lebanese dough-based product)	1 oz of bread or ½ cup cooked cereals
Whole cereals and products	Whole wheat, whole wheat bread, oat breads and bulgur	
Rice	White rice	
Pizza and pasta	Bread equivalent of pizza, pasta	
Corn and breakfast cereals	Breakfast cereals and corn	
Potato	Potatoes and potato products	½ cup vegetable
Raw vegetables	Raw green leafy vegetables, tomatoes, cucumbers, mushrooms, sprouts and mixed salad/vegetables	
Cooked vegetables	Green beans, cooked cruciferous, zucchini, eggplants, carrots, pumpkins, bell peppers, sweet potatoes, green peas, onions, garlic	
Fruits	Fresh and dried fruits, fresh and bottled fruit juice	Usual portion size
Legumes	Lentils, chickpeas and beans, except soya	1 oz of meat or equivalent
Meat & poultry	Beef, veal, lamb/mutton, goat, poultry, organ meat, processed meat from red meat or poultry (e.g. Ham, sausages)	
Eggs	Eggs boiled or fried	
Fish and shellfish	Fresh and canned fish, fish products and seafood.	
Vegetable oils	Vegetable oils including corn, peanut, sunflower, and canola oils, and mayonnaise	1 teaspoon equivalent of fat
Olive, seeds and oleaginous fruits	Olives, olive oil, sesame paste ("Tahini") avocado, nuts	
Processed and saturated fats	Margarine, ghee and butter	1 cup of milk equivalent
Milk & dairy products	Whole, light, or skimmed liquid milk, processed milk (condensed, dried), dairy dishes, cheeses	
Low fat sweets	Wafers, "Meghle", gelatin-based dessert, milk-based puddings	
High fat sweets	Oriental sweets and baklava, cakes and desserts, chocolate	Usual serving size
Sugars and jams	Sugar and confectionery sugar, jam, marmalade, honey, "Halawa", soft drinks.	Teaspoon of sugar

Table S2. Consumption of predefined food categories according to dietary patterns for men and women separately.

N=352.

	Men(N=176)				Women (N=176)			
	WDP	HI-MED DP	MOD-MED DP	P	WDP	HI-MED DP	MOD-MED DP	P
Sample	(N=29)	(N=21)	(N=126)		(N=13)	(N=60)	(N=103)	
Age(years)	70 (66-81)	79 (71-84)	73 (68-79)	0.183	75 (72-82)	71 (67-77)	73 (66-78)	0.238
Refined cereals products	6.6 (4.3-8.6)	5.9 (3-7.7)	3.5 (0.9-5.7)	0.01	4 (2.7-4.8)	1.5 (0.6-4.2)	3.01 (1.3-4.5)	0.002
Whole breads & cereals (including burghul)	0.4 (0.1-1.1)	0.7 (0.3-2.3)	1.06 (0.3-2.7)	0.07	1 (0.1-2.3)	2.05 (0.4-3.02)	0.5 (0.2-2.03)	0.004
Potato	0.6 (0.3-0.9)	0.4 (0.14-0.6)	0.3 (0.1-0.6)	0.16	0.3 (0.07-0.4)	0.2 (0.09-0.4)	0.2 (0.07-0.3)	0.305
Vegetables	2.8 (2.1-3.5)	4.3 (3-5.4)	3 (2.2-4.4)	0.13	3.3 (1.3-4.7)	3.6 (2.5-5.2)	2.8 (2-4.9)	0.071
Fruits	1.9(1.1-2.9)	3.01 (2.5-3.9)	2.1 (1.2-3.01)	0.01	2.4 (1.5-2.7)	2 (1.4-3.3)	1.8 (1.4-2.6)	0.099
Legumes	0.4 (0.2-0.9)	0.9 (0.6-1.15)	0.3 (0.13-0.6)	0.03	0.3 (0.2-0.6)	0.6 (0.2-0.9)	0.3 (0.07-0.6)	0.129
Meat & Poultry	2.6 (1.7-4.1)	3 (2.5-3.7)	2.1 (1.03-3.1)	0.01	1.6 (1.4-2.3)	1.9 (1.4-2.5)	1.8 (1.3-2.7)	0.445
Eggs	0.6 (0.3-0.9)	0.4 (0.3-0.7)	0.3 (0.1-0.6)	0.06	0.3 (0.1-0.9)	0.3 (0.1-0.5)	0.3 (0.07-0.5)	0.502
Fish & shellfish	0.4 (0.1-0.8)	0.5 (0.2-1.2)	0.4 (0.2-0.9)	0.95	0.4 (0.3-0.5)	0.4 (0.2-0.8)	0.2 (0.1-0.6)	0.071
Milk and Dairy products	1.8 (1.2-2.2)	2.4 (1.1-3.06)	1.3 (0.8-1.9)	0.03	2.3 (1-3.3)	1.6 (0.99-2.07)	1.45 (0.9-2.2)	0.061
Vegetable oils	2 (0.7-4)	3 (1-6)	3 (1.8-3)	0.17	3 (2-3)	3 (1.5-3.2)	3 (2-3.4)	0.829
Olive, seeds and oleaginous fruits	3.4 (3-5.03)	12.4 (10.7-15.4)	5 (3.4-6.8)	<0.001	4.4 (3.4-6.4)	9 (7.3-11.7)	3.8 (3-4.8)	<0.001
Processed and saturated fats	0.14 (0-1.2)	0 (0-0.4)	0 (0-0.2)	0.05	0 (0-0.6)	0 (0-0.14)	0 (0-0.14)	0.722
Low Fat Sweets	0.3 (0.04-1.4)	0.6 (0.13-1.1)	0.08 (0-0.3)	0.02	1.1 (0.5-2.3)	0.37 (0.08-1.9)	0.18 (0.02-0.5)	0.002
High Fat Sweets	0.2 (0.07-0.6)	0.3 (0.01-0.7)	0.06 (0-0.2)	0.01	0.2 (0.1-0.3)	0.12 (0-0.3)	0.07 (0-0.3)	0.074
Sugars and jams	7.1 (5.4-9.4)	4 (2.4-6.7)	1 (0.2-2.1)	<0.001	13 (9.7-18)	2.6 (0.8-4.05)	1.07 (0.14-2.1)	<0.001

Numeric variables are represented as median (interquartile range).

Abbreviations: WDP: Westernized dietary pattern; Hi-Med DP: high-intake Mediterranean dietary pattern; MOD-Med: moderate-intake Mediterranean dietary pattern.

Table S3. Nutritional characteristics of the dietary patterns.

	Total sample (N=352)				Men (N=176)				Women (N=176)			
	WDP	HI-MED DP	MOD-MED DP	P-value	WDP	HI-MED DP	MOD-MED DP	P-value	WDP	HI-MED DP	MOD-MED DP	P-value
Calories/d	2261 (1968-2838)	2028 (1652-2451)	1743 (1457-2122)	<0.001	2264 (2151-2864)	3017 (2033-3317)	1832 (1543-2277)	<0.001	1968 (1423-2625)	1886 (1582.5-2298)	1627 (1350-1853)	0.001
KCal/kg BW	31.2 (27.2-36.5)	28.2 (22.6-36.2)	24 (18.6-29)	<0.001	30.5 (27.2-34.9)	34.3 (28.2-42.8)	24.49 (18.95-28.55)	<0.001	32.64 (21.49-36.46)	26.49 (22.15-35.28)	23.7 (17.7-29.6)	0.003
Protein (g)/d	78.65 (70.4-98.7)	67.9 (53.7-89.6)	63.6 (47.8-78.2)	<0.001	80.2 (73.4-99.1)	94.1 (66.8-116)	68.3 (53.2-86.4)	<0.001	70.4 (46-83.2)	65.45 (51.3-82.55)	56.4 (44.9-68.7)	0.08
Protein (g)/kg BW	1.1 (0.9-1.3)	0.95 (0.7-1.3)	0.87 (0.6-1.08)	<0.001	1.1 (0.9-1.3)	1.2 (0.9-1.5)	0.91 (0.7-1.07)	0.001	1 (0.67-1.27)	0.9 (0.71-1.23)	0.8 (0.6-1.1)	0.08
Carbohydrates (g)/d	285 (229-331)	206 (166-261)	188 (155-241)	<0.001	294 (247-318)	344 (224-359)	203.5 (169-255)	<0.001	229 (163-335)	198 (157.5-213.5)	175 (139-215)	0.022
Fat (g) /d	102 (83.5-121)	106 (86.8-138)	81.1 (69.4-102)	<0.001	104 (87.8-119)	136 (90.2-162)	82.75 (71-108)	<0.001	90.7 (66.2-121)	101.5 (83.8-126)	79.3 (64.4-93.5)	<0.001
MUFA (%TEI)	16.81 (14.7-18.6)	21.8 (19.1-25.1)	18.5 (16.1-21.3)	<0.001	15.4 (14.5-18.1)	19 (16.8-22.6)	18.35 (16.1-20.8)	0.005	17.9 (16-18.6)	22.8 (19.9-25.4)	18.9 (16.2-21.6)	<0.001
PUFA (%TEI)	7.65 (6-9)	9 (7.3-10.6)	8.6 (7.5-10.4)	<0.001	6.8 (5.7-8.7)	9.3 (7.7-9.9)	8.5 (7.5-10.1)	0.003	8.1 (6.2-9.2)	8.95 (7.3-11.1)	8.7 (7.43-10.7)	0.204
SAFA (%TEI)	12 (10.5-13.6)	12.2 (11-13.9)	12.2 (10.3-14.1)	0.66	12.2 (9.9-14.1)	11.6 (10.6-12.7)	11.75 (9.9-13.6)	0.838	11.7 (11.1-12.9)	12.4 (11.15-14.5)	12.97 (11.1-14.6)	0.438
ω3 FA (g/d)	0.6455 (0.52-0.81)	0.96 (0.61-1.35)	0.62 (0.477-0.88)	<0.001	0.68 (0.57-0.96)	1 (0.7-1.68)	0.7105 (0.51-0.93)	0.03	0.63 (0.41-0.69)	0.95 (0.585-1.245)	0.54 (0.44-0.733)	<0.001
ω6/ω3 ratio	19.27 (12.5-24.34)	15.27 (11.11-20.87)	20.7 (13.26-24.57)	0.002	16.89 (11.05-24.34)	16.44 (12.5-19.2)	18.645 (12.34-23.94)	0.408	20.8 (13.3-24.34)	14.75 (10.86-22.19)	22.4 (15.5-25.2)	0.001
Fibers (g/d)	19.95 (16-23.6)	21.2 (17.3-28.2)	17.8 (13.7-23.9)	<0.001	20.5 (18.7-23.8)	30.3 (19.3-35.2)	19.2 (14.7-25.8)	0.001	18.2 (13.4-21.8)	20.35 (16.95-25.8)	16.4 (12.7-19.8)	0.001

Numeric variables are reported as median (interquartile range).

Abbreviations: WDP: Westernized dietary pattern; Hi-Med DP: high-intake Mediterranean dietary pattern; MOD-Med: moderate-intake Mediterranean dietary pattern; Kcal/d: Calories per day; Calories/kg BW: Calories per kg body weight; Protein/kg BW: Proteins per kg body weight; MUFA: mono-unsaturated fat acids; %TEI: percentage total energy intake; PUFA: poly-unsaturated fatty acids; SAFA: saturated fatty acids; FA: fatty acids; ω6/ω3 ratio: omega-6 polyunsaturated fatty acids/omega-3 polyunsaturated fatty acids ratio.