

Table S1. Food groups

Food group	Items
Full-fat dairy	<i>Whole milk, yoghurt (whole), petite-suisse, cottage cheese and curd, semicured/cured cheeses fresh cheese, milkshakes, custard, flan and pudding, ice cream.</i>
Low-fat dairy	<i>Semi-skimmed milk, non-fat milk, skimmed yoghurt</i>
White meat	<i>Chicken or turkey with skin, chicken or turkey without skin, rabbit</i>
Red meat and meat products	<i>Beef or veal meat, pork meat, lamb meat, liver, entrails, cured ham, boiled ham, blood sausage, pâté, hamburgers, bacon</i>
Eggs	<i>Egg</i>
Fish and seafood	<i>White fish, blue fish, salad fish, oysters, clams and mussels, squid, octopus, prawn, king prawn, crayfish, fatty fish canned in oil; fatty fish canned in salted water.</i>
Refined cereals	<i>White bread, breakfast cereals, white rice, pasta (spaghetti, macaroni, noodles, others), pizzas</i>
Whole-grain cereals	<i>Whole-grain bread, whole-grain cereals, muesli, oat grains, all bran, brown rice, whole-wheat pasta, whole-grain and fiber biscuits.</i>
Legumes	<i>Lentils, chickpeas, beans and peas</i>
Fruits	<i>Oranges, tangerines, grapefruits, bananas, apples and pears, strawberries, cherries and plums, watermelon, melon, kiwi, grapes, raisins</i>
Vegetables	<i>Swiss chards and spinach, cabbage, cauliflower, broccoli, lettuce, endive, tomato, carrot and pumpkin green bean, zucchini, aubergines and cucumbers, peppers, asparagus, “gazpacho”, onions, garlic, mushrooms and champignons, other vegetables</i>
Nuts	<i>Almonds, pistachios, hazelnuts and other nuts</i>
Olive oil and olives	<i>Olives, refined olive oil, extra virgin olive oil</i>
Other fat or oils, full-fat dairy derivatives and processed meal	<i>Olive pomace oil, sunflower oil, corn oil, soy oil, other oils, butter and lard, margarine, condensed milk, cream, croquettes and packet soup or creamy soup, mustard, mayonnaise, tomato sauce, others</i>
Potatoes	<i>Boiled or roast potatoes and French fries</i>
Biscuits and pastries	<i>Simple cookies, chocolate cookies, home-made bakery, industrial bakery, doughnuts, muffins.</i>
Sugar, sweets, chocolate and cocoa	<i>Fruits in syrup, sugar, jam and honey, chocolate and chocolates, cocoa powder</i>
Sugary beverages and juices	<i>Sugar-sweetened soft drinks, natural orange juice, natural other fruits juices and bottled fruit juices</i>
Sugar-free beverages	<i>Sugar-free beverages</i>
Coffee and tea	<i>Coffee, decaffeinated coffee, tea</i>
Cava and beers	<i>Cava, beers</i>
Spirits beverages	<i>Liqueurs, anis and anisette, whiskey, gin, vodka</i>
Wines	<i>Musts, rosé wine, muscatel wine, young red wine, old red wine, white wine</i>

Table S2. Relationship (multivariable adjusted β -coefficients and 95%CI) between CSI and food groups consumption

	β	[95% CI]	<i>p</i> -value
Full-fat dairy (g/d)	-6.67	[-16.51;3.18]	0.184
Low-fat dairy (g/d)	-12.39	[-30.69;5.92]	0.185
White meat (g/d)	0.17	[-3.22;3.57]	0.920
Red meat and meat products (g/d)	-3.17	[-7.32;0.99]	0.135
Eggs (g/d)	1.63	[-0.61;3.87]	0.230
Fish and seafood (g/d)	0.54	[-4.11;5.18]	0.821
Whole grain cereals (g/d)	1.97	[-3.72;7.67]	0.497
Refined cereals (g/d)	11.98	[5.24;18.72]	0.001
Legumes (g/d)	0.66	[-0.4;1.72]	0.224
Fruits (g/d)	-17.52	[-33.89; -1.14]	0.036
Vegetables (g/d)	0.88	[-12.23;13.99]	0.895
Nuts (g/d)	-0.18	[-1.62;1.27]	0.811
Olive oil and olives (g/d)	-0.21	[-2.21; 1.78]	0.834
Other fat or oils, full-fat dairy derivatives and processed meal (g/d)	-0.06	[-1.11;1]	0.918
Potatoes (g/d)	6.68	[2.76;10.61]	0.001
Biscuits and pastries (g/d)	0.66	[-0.4;1.72]	0.154
Sugar, sweets, chocolate and cocoa (g/d)	0.21	[-1.56;1.99]	0.814
Sugary beverages and juices (g/d)	-5.2	[-16.63;6.23]	0.373
Sugar-free beverages (g/d)	-10.46	[-21.87;0.95]	0.072
Coffee and tea (g/d)	-8.03	[-14.34; -1.72]	0.013
Cava and beers (g/d)	1.73	[-15.46;18.92]	0.844
Spirits beverages (g/d)	0.15	[-0.93;1.22]	0.789
Wines (g/d)	-5.00	[-12.75;2.75]	0.206

Multiple linear regressions. Beta-coefficient and [95% CI] are shown. CSI (low/high deprivation index) as exposure and food consumption (food groups, g/d) as outcome, adjusted by age (years), sex (men/women), smoking (smoker, former or never smoked), waist circumference (cm), physical activity (low/high), sedentary lifestyle (no/yes), hypertension (no/yes), dyslipidemia (no/yes) and type 2 diabetes mellitus.

Table S3. Dietary patterns and food groups

	Healthy pattern n=704	Unhealthy pattern n=808	p-value [#]
Full-fat dairy (g/d)	51.1 [29.9;87.0]	75.2 [42.6;136]	<0.001
Low-fat dairy (g/d)	241 [139;336]	196 [49.2;263]	<0.001
White meat (g/d)	74.8 [62.9;86.6]	64.8 [32.1;76.1]	<0.001
Red meat and meat products (g/d)	84.8 [61.6;113]	92.5 [69.9;122]	<0.001
Eggs (g/d)	25.2 [22.3;26.6]	25.0 [21.7;26.8]	0.823
Fish and seafood (g/d)	131 [100;162]	88.4 [62.6;117]	<0.001
Whole grain cereals (g/d)	59.3 [2.43;83.2]	0.72 [0.00;21.5]	<0.001
Refined cereals (g/d)	69.2 [36.1;107]	133 [96.4;191]	<0.001
Legumes (g/d)	20.2 [14.4;26.5]	15.9 [12.4;21.5]	<0.001
Fruits (g/d)	357 [277;486]	241 [160;322]	<0.001
Vegetables (g/d)	369 [297;468]	257 [202;321]	<0.001
Nuts (g/d)	14.2 [6.03;28.9]	6.50 [2.93;12.9]	<0.001
Olive oil and olives (g/d)	57.7 [47.6;67.7]	54.5 [43.4;65.4]	<0.001
Other fat or oils, full-fat dairy derivatives and processed meal (g/d)	5.03 [2.32;9.43]	8.03 [3.96;14.1]	<0.001
Potatoes (g/d)	89.5 [41.0;100]	92.8 [49.7;106]	<0.001
Biscuits and pastries (g/d)	12.5 [4.89;21.2]	17.4 [7.74;32.4]	<0.001
Sugar, sweets, chocolate and cocoa (g/d)	12.2 [5.08;21.8]	17.7 [7.59;30.9]	<0.001
Sugary beverages and juices (g/d)	34.7 [9.07;106]	40.0 [10.5;119]	0.229
Sugar-free beverages (g/d)	1.34 [0.00;13.4]	1.60 [0.00;12.7]	0.520
Coffee and tea (g/d)	76.9 [48.4;127]	101 [49.6;128]	0.058
Cava and beers (g/d)	38.1 [3.89;78.9]	64.4 [21.0;155]	<0.001
Spirits beverages (g/d)	0.77 [0.00;2.10]	1.50 [0.00;3.86]	<0.001
Wines (g/d)	20.7 [3.44;51.2]	35.9 [9.09;96.5]	<0.001
Data are presented as median [IR].			
p-value [#] : Mann–Whitney U test			