**Supplemental Table S1: Factor loading matrix, NutriNet-Santé study**\*

|  |  |  |
| --- | --- | --- |
| **Variable** | **Factor1** | **Factor2** |
| Vegetables | 0·65 | 0·14 |
| Fruit | 0·45 | 0·06 |
| Broth | 0·43 | 0·17 |
| Coffee, tea, tisane | 0·43 | 0·01 |
| Soda | -0·42 | 0·06 |
| Croissants | -0·37 | 0·03 |
| Nuts | 0·36 | 0·04 |
| Fat and sweet products | -0·35 | 0·07 |
| Dried fruits | 0·33 | -0·03 |
| Snacks | -0·28 | 0·23 |
| Soya products | 0·28 | -0·16 |
| Meat and meat products | -0·28 | 0·39 |
| Seafood | 0·27 | -0·02 |
| Dairy desserts | -0·25 | 0·04 |
| Bread and breakfast cereals | 0·22 | 0·54 |
| Cakes and pastries | -0·18 | 0·15 |
| Alcoholic beverages | -0·18 | 0·34 |
| Margarine | 0·16 | 0·12 |
| Flour | 0·13 | 0·06 |
| Eggs | 0·12 | 0·02 |
| Animal Fat | 0·09 | 0·41 |
| Dairy products | 0·07 | -0·09 |
| Cheese | -0·05 | 0·53 |
| Potatoes | 0·05 | 0·41 |
| Vegetable oils | 0·03 | 0·28 |
| Starchy food | 0·03 | 0·07 |
| Meal substitutes | 0·02 | -0·16 |
| Sauces | -0·01 | 0·23 |
| Sweet products | -0·01 | 0·27 |
| Water and non-sweet bevarages | 0·01 | 0·14 |
| Wine | 0·01 | 0·42 |

\*Absolute values < 0·3 are not displayed in the table.

**Supplemental Table S2 Prospective association between quartiles of the organic score and obesity risk, stratified analyses, Nutrinet-Santé study, 2009-2015**\*,†.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Q1 | **Q2** | **Q3** | **Q4** | **P for trend** |
| **Education** |  |  |  |  |  |
| < high school diploma | 1·00 | 1·21 (0·91, 1·61) | 0·88 (0·65, 1·19) | 0·73 (0·52, 1·04) | 0·04 |
| High school diploma | 1·00 | 0·80 (0·56, 1·14) | 0·97 (0·69, 1·35) | 0·82 (0·55, 1·20) | 0·48 |
| Post-secondary graduate | 1·00 | 0·95 (0·78, 1·15) | 0·92 (0·75, 1·12) | 0·69 (0·55, 0·87) | 0·003 |
| **Physical activity** |  |  |  |  |  |
| <30 min/day brisk walking | 1·00 | 0·68 (0·51, 0·90) | 0·76 (0·58, 1·01) | 0·53 (0·38, 0·74) | 0·001 |
| ≥30 min/day brisk walking or equivalent | 1·00 | 0·97 (0·80, 1·18) | 0·90 (0·73, 1·10) | 0·74 (0·59, 0·92) | 0·01 |
| **Smoking status** |  |  |  |  |  |
| Never or former smokers | 1·00 | 0·95 (0·81, 1·11) | 0·90 (0·76, 1·06) | 0·72 (0·59, 0·86) | 0·001 |
| Current smokers | 1·00 | 0·74 (0·51, 1·06) | 0·95 (0·65, 1·38) | 0·55 (0·36, 0·86) | 0·04 |
| **Dietary supplement users** |  |  |  |  |  |
| yes | 1·00 | 1·16 (0·94, 1·45) | 1·05 (0·84, 1·32) | 0·79 (0·61, 1·03) | 0·11 |
| no | 1·00 | 0·92 (0·75, 1·12) | 0·75 (0·60, 0·95) | 0·67 (0·52, 0·85) | 0·0003 |

\*Obesity analyses were performed among participants who were not obese at inclusion (N=56,806). Values are odds ratios (95% confident intervals), using 1st quartile Q1 as the reference.

†Models are adjusted for age, gender, month and year of inclusion, delay of follow-up, occupation, marital status, education, monthly income per unit, dietary supplement use, mPNNS-GS, PCA-extracted dietary patterns scores, energy intake physical activity, tobacco status and for the history of chronic diseases.

**Supplemental Table S3 Prospective association between quartiles of the organic score and obesity risk, sensitive analysis, Nutrinet-Santé study, 2009-2015**\*.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Model** | **Q1** | **Q2** | **Q3** | **Q4** | **P for trend** |
|  |  |  |  |  |  |
| Model 1† | 1·00 | 0·87 (0·81, 0·94) | 0·79 (0·73, 0·85) | 0·52 (0·48, 0·57) | <·0001 |
| Model 2‡ | 1·00 | 0·93 (0·87, 1·01) | 0·91 (0·84, 0·98) | 0·67 (0·61, 0·72) | <·0001 |
| Model 3§ | 1·00 | 0·95 (0·88, 1·02) | 0·92 (0·86, 0·99) | 0·70 (0·64, 0·76) | <·0001 |

\*Obesity analyses were performed among participants who were not obese at inclusion (N=56,806). Values are odds ratios (95% confident intervals), using 1st quartile Q1 as the reference.

†Model 1 is adjusted for age and gender and propensity score.

‡Model 2 is model 1 further adjusted for month and year of inclusion, delay of follow-up, occupation, marital status, education, monthly income per unit, dietary supplement use, mPNNS-GS, PCA-extracted dietary patterns scores, energy intake physical activity and tobacco status.

§Model 3 is model 2 further adjusted for the history of chronic diseases.