**Supplementary Table 1**. De-attenuated correlations and intraclass correlation coefficients between food intakes estimated by the SFFQs and the 9-day 24HRs

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Food groups  (g per 1,000 kcal) | Age- and sex-adjusted and de-attenuateda | | | | ICC | | | |
| SFFQ1 | *P* | SFFQ2 | *P* | SFFQ1 | *P* | SFFQ2 | *P* |
| Total meat | -0·060 | 0·592 | 0·196 | 0·078 | 0·062 | 0·388 | 0·418 | **0·008** |
| White meat | **-0·003** | 0·979 | 0·236 | **0·033** | **0·005** | 0·492 | 0·321 | **0·042** |
| Red meat | 0·276 | **0·012** | 0·236 | **0·033** | 0·394 | **0·013** | 0·459 | **0·003** |
| Processed meat | 0·381 | **<0·001** | 0·074 | 0·509 | 0·280 | 0·071 | 0·174 | 0·196 |
| Eggs | 0·279 | **0·011** | 0·140 | 0·210 | 0·160 | 0·217 | 0·148 | 0·237 |
| Total fish | 0·019 | 0·865 | 0·186 | 0·094 | 0·052 | 0·406 | 0·290 | 0·063 |
| Lean fish | 0·087 | 0·437 | 0·210 | 0·058 | 0·186 | 0·178 | 0·337 | **0·003** |
| Fatty fish | -0·007 | 0·950 | 0·069 | 0·538 | -0·204 | 0·797 | 0·135 | 0·258 |
| Seafood | -0·060 | 0·592 | 0·092 | 0·411 | -0·037 | 0·565 | **0·021** | 0·463 |
| Milk | 0·406 | **<0·001** | 0·053 | 0·636 | 0·522 | **0·001** | 0·124 | 0·277 |
| Dairy products | 0·460 | **<0·001** | 0·626 | **<0·001** | 0·604 | **<0·001** | 0·747 | **<0·001** |
| Cereals | 0·010 | 0·929 | 0·236 | **0·033** | 0·045 | 0·418 | 0·315 | **0·045** |
| Fruits | 0·436 | **<0·001** | 0·401 | **<0·001** | 0·598 | **<0·001** | 0·589 | **<0·001** |
| Vegetables | 0·273 | **0·013** | 0·362 | **<0·001** | 0·455 | **0·003** | 0·529 | **<0·001** |
| Legumes | 0·217 | 0·050 | 0·077 | 0·492 | 0·307 | 0·050 | 0·148 | 0·237 |
| Potatoes | 0·088 | 0·432 | 0·441 | **<0·001** | 0·153 | 0·229 | 0·484 | **0·002** |
| Sweets and sugar | 0·367 | **<0·001** | 0·201 | 0·070 | 0·553 | **<0·001** | 0·377 | **0·017** |
| Other foods | 0·255 | **0·020** | **0·963** | **<0·001** | 0·174 | 0·196 | 0·459 | **0·003** |
| Non-alcoholic drinks | 0·290 | **0·008** | 0·192 | 0·084 | 0·543 | **<0·001** | 0·397 | **0·012** |
| Sugary drinks | 0·493 | **<0·001** | 0·265 | **0·016** | 0·695 | **<0·001** | 0·501 | **0·001** |
| Light drinks | 0·401 | **<0·001** | 0·331 | **0·002** | 0·461 | **0·003** | 0·306 | 0·051 |
| Alcoholic drinks | 0·521 | **<0·001** | 0·649 | **<0·001** | 0·604 | **<0·001** | 0·771 | **<0·001** |
| Wine | 0·560 | **<0·001** | 0·723 | **<0·001** | **0·710** | **<0·001** | **0·838** | **<0·001** |
| Beer | 0·661 | **<0·001** | 0·701 | **<0·001** | 0·658 | **<0·001** | 0·809 | **<0·001** |
| Other alcoholic drinks | 0·029 | 0·796 | 0·056 | 0·617 | 0·028 | 0·449 | 0·043 | 0·421 |
| Fat | **0·673** | **<0·001** | 0·304 | **0·005** | 0·291 | 0·062 | 0·081 | 0·353 |
| Coffee or tea | 0·485 | **<0·001** | 0·321 | **0·003** | 0·633 | **<0·001** | 0·483 | **0·002** |
| Broth and soups | 0·505 | **<0·001** | 0·389 | **<0·001** | 0·378 | **0·017** | 0·288 | 0·064 |
| Added salt | 0·188 | 0·091 | 0·287 | **0·009** | 0·189 | 0·174 | 0·381 | **0·016** |
| Spicy foods | -0·075 | 0·503 | **-0·013** | 0·908 | -0·044 | 0·577 | 0·086 | 0·343 |

24HRs, 24-hour dietary recalls; SFFQ, short food-frequency questionnaire; ICC, intraclass correlation coefficient.

aCorrected for within-persons variation.

The higher and lower correlation coefficients in each column are depicted by bold numbers.

Significant *P*-values are highlighted in bold.

**Supplementary Table 2**. Mean daily absolute intake of food groups estimated from two SFFQs

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Food intake (g) | SFFQ1 | | | SFFQ2 | | | *P* |
| Mean | SD | Median | Mean | SD | Median |
| Total meat | 135·7 | 68·6 | 139·1 | 125·9 | 75·3 | 112·4 | 0·143 |
| White meat | 51·3 | 38·7 | 42·9 | 48·9 | 31·5 | 42·9 | 0·802 |
| Red meat | 56·1 | 42·1 | 47·9 | 50·8 | 38·6 | 44·5 | 0·266 |
| Processed meat | 28·3 | 24·7 | 22·5 | 26·2 | 22·5 | 20·5 | 0·342 |
| Eggs | 22·1 | 12·4 | 23·6 | 22·3 | 13·1 | 23·6 | 0·814 |
| Total fish | 77·3 | 44·1 | 72·1 | 76·4 | 45·8 | 69·0 | 0·849 |
| Lean fish | 38·3 | 27·4 | 42·9 | 36·8 | 27·5 | 32·5 | 0·741 |
| Fatty fish | 30·8 | 25·3 | 21·4 | 33·0 | 26·5 | 21·4 | 0·183 |
| Seafood | 8·3 | 10·0 | 7·0 | 6·7 | 6·6 | 4·7 | 0·301 |
| Milk | 192·4 | 163·7 | 250·0 | 181·2 | 148·6 | 250·0 | 0·153 |
| Dairy products | 149·5 | 112·1 | 125·0 | 118·7 | 81·8 | 114·2 | **0·017** |
| Cereals | 145·3 | 53·8 | 142·9 | 127·7 | 45·7 | 131·4 | **0·003** |
| Fruits | 358·9 | 242·3 | 348·3 | 365·8 | 248·5 | 338·5 | 0·790 |
| Vegetables | 211·9 | 123·0 | 200·7 | 189·4 | 105·7 | 178·0 | **0·012** |
| Legumes | 20·1 | 9·9 | 20·0 | 19·0 | 11·8 | 20·0 | 0·224 |
| Potatoes | 67·6 | 48·8 | 72·9 | 60·3 | 40·6 | 48·6 | 0·174 |
| Sweets and sugar | 37·5 | 47·9 | 22·2 | 30·4 | 26·7 | 21·5 | 0·117 |
| Other foods | 14·4 | 21·0 | 6·7 | 12·7 | 19·8 | 6·7 | 0·213 |
| Non-alcoholic drinks | 158·7 | 216·8 | 94·3 | 149·5 | 176·1 | 94·3 | 0·538 |
| Sugary drinks | 119·1 | 174·1 | 47·1 | 96·6 | 120·1 | 47·1 | 0·101 |
| Light drinks | 39·6 | 91·0 | 0·0 | 52·8 | 129·7 | 0·0 | 0·160 |
| Alcoholic drinks | 70·2 | 99·4 | 42·6 | 82·7 | 132·5 | 38·6 | 0·140 |
| Wine | 27·1 | 53·9 | 0·0 | 30·1 | 56·1 | 6·0 | 0·210 |
| Beer | 30·3 | 63·3 | 0·0 | 42·0 | 119·7 | 0·0 | 0·142 |
| Other alcoholic  drinks | 12·8 | 26·7 | 1·7 | 10·7 | 24·9 | 0·0 | 0·351 |
| Fat | 36·5 | 6·0 | 34·2 | 35·8 | 6·4 | 32·8 | 0·196 |
| Coffee or tea | 82·0 | 79·2 | 75·0 | 85·6 | 80·4 | 75·0 | 0·285 |
| Broth and soups | 42·9 | 40·4 | 28·6 | 43·7 | 40·9 | 28·6 | 0·866 |
| Added salt | 4·1 | 2·0 | 4·0 | 2·9 | 1·5 | 3·7 | **<0·001** |
| Spicy foods | 0·3 | 0·8 | 0·0 | 0·3 | 0·4 | 0·0 | 0·902 |

SFFQ, short food-frequency questionnaire; SD, standard deviation.

**Supplementary Table 3**. Misclassification and weighted kappa between SFFQs.

|  |  |  |  |
| --- | --- | --- | --- |
| Food groups | Percentage of agreement | |  |
| SFFQ1-SFFQ2 | |  |
| Same or adjacent(%) | Weighted kappa | *P* |
| Total meat | 80·5 | 0·366 | **0·001** |
| White meat | 79·3 | 0·341 | **0·001** |
| Red meat | 78·0 | 0·051 | 0·645 |
| Processed meat | 86·6 | 0·529 | **<0·001** |
| Eggs | 75·6 | 0·295 | **0·007** |
| Total fish | 80·5 | 0·438 | **<0·001** |
| Lean fish | 79·3 | 0·349 | **0·002** |
| Fatty fish | 76·8 | 0·292 | **0·008** |
| Seafood | 78·0 | 0·360 | **0·001** |
| Milk | 84·1 | 0·384 | **<0·001** |
| Dairy products | 80·5 | 0·379 | **0·001** |
| Cereals | 76·8 | 0·213 | **0·049** |
| Fruits | 80·5 | 0·103 | 0·348 |
| Vegetables | 81·7 | 0·398 | **<0·001** |
| Legumes | 76·8 | 0·266 | **0·015** |
| Potatoes | 76·8 | 0·162 | 0·127 |
| Sweets and sugar | 78·0 | 0·202 | 0·050 |
| Other foods | 85·4 | 0·146 | 0·187 |
| Non-alcoholic drinks | 91·5 | 0·375 | **0·001** |
| Sugary drinks | 89·0 | 0·643 | **<0·001** |
| Light drinks | 86·6 | 0·477 | **<0·001** |
| Alcoholic drinks | 93·9 | 0·415 | **<0·001** |
| Wine | 91·5 | 0·281 | **0·010** |
| Beer | 95·1 | 0·376 | **0·001** |
| Other alcoholic drinks | 91·5 | 0·372 | **0·001** |
| Fat | 72·0 | 0·149 | 0·176 |
| Coffee or tea | 89·0 | 0·388 | **<0·001** |
| Broth and soups | 80·5 | 0·383 | **0·001** |
| Added salt | 78·0 | 0·199 | 0·067 |
| Spicy foods | 82·9 | 0·296 | **0·007** |

SFFQ, short food-frequency questionnaire.

Significant *P*-values are highlighted in bold.