**Contents and general information on the EsKiMo 2006 Data for 12-17 year aged participants**

The data are delivered as SAS V9 System file. This is the part for 12-17 year olds, the assessments was done with DISHES, a modified dietary history method. For the younger participants we have 3 days of consecutive food records filled in by the parents, this will be delivered in a separate Dataset. These datasets should be separately analyzed because of the differences in methods.

We have largely adapted coding etc. to the codebook dictionary. Some variables have a defined SAS format. Definition of those formats is given below. For some category variables definition of code is (also) given in the labels of those variables. In SAS the system missing value or default missing is coded as a dot (.) for numeric variables. We did not recode this into -9. For the dietary variables itself there are no missing values. We also asked for pregnancy and nursing, however, since none of the participants had a positive response we skipped this variable.

Analyses should be performed using the weighting factor “samp\_wt”, for variance estimates and analyses the clustered survey design should be accounted for using the variable psu as cluster variable in survey procedures.

Education reflects the highest education level of the parents. Information on school, academic and professional qualification was used to determine this educational status [1]. The Comparative Analysis of Social Mobility in Industrial Nations (CASMIN) classification system was used for classification into three groups: “low”, “medium”, and “high”. (Brauns H, Scherer S, Steinmann S: The CASMIN educational classification in international comparative research. In: Advances in cross-national comparison. Edited by: Hoffmeyer-Zlotnik J, Wolf C. New York: Kluwer; 2003: 221-244)

Residency has been categorized as Urban (communities with 5000 inhabitants and more) and Rural (communities with less than 5000 inhabitants).

----SAS code ---

proc format lib=library;

 value sex 1='Boys' 2='Girls';

 value urbanrural 1='Urban' 2='Rural'; /\* For variable residency \*/

 value education 1='low' 2='middle' 3='high';

run;

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|  |  |  |  |
| --- | --- | --- | --- |
| Data Set Name | M.ESKIMOI\_GDD | Observations | 1272 |
| Member Type | DATA | Variables | 61 |
| Engine | V9 | Indexes | 0 |
| Created | 25.04.2017 16:04:47 | Observation Length | 488 |
| Last Modified | 25.04.2017 16:04:47 | Deleted Observations | 0 |
| Data Representation | WINDOWS\_64 |  |  |
| Encoding | wlatin1 Western (Windows) |  |  |

| Variables in Creation Order |
| --- |
| # | Variable | Type | Len | Format | Label |
| 1 | sex | Num | 8 | SEX. | Sex: 1 male; 2 female |
| 2 | age | Num | 8 |  | Age in years |
| 3 | obs\_id | Num | 8 |  |  |
| 4 | samp\_wt | Num | 8 |  | Weighting Factor |
| 5 | agegr | Num | 8 |  | Age range: 12-14 =1; 15-17 =2 |
| 6 | year\_start | Num | 8 |  |  |
| 7 | year\_end | Num | 8 |  |  |
| 8 | psu | Num | 8 |  | Primary sampling unit (PSU) |
| 9 | residence | Num | 8 | URBANRURAL. | Urbanicity: 1=Urban 2=Rural |
| 10 | education | Num | 8 | EDUCATION. | Education a.t. CASMIN: 1=low 2=middle 3=high |
| 11 | Fruit\_intake | Num | 8 |  | 1\_Fruits g/day |
| 12 | FruitJuice\_intake | Num | 8 |  | 2\_Fruit juices g/day |
| 13 | NutsSeeds\_intake | Num | 8 |  | 3\_Nuts and seeds g/day |
| 14 | NonStarchyVeg\_intake | Num | 8 |  | 4\_Non-starchy vegetables g/day |
| 15 | Potato\_intake | Num | 8 |  | 5\_Potatoes g/day |
| 16 | OtherStarchyVeg\_intake | Num | 8 |  | 6\_Other starchy vegetables g/day |
| 17 | BeansLegumes\_intake | Num | 8 |  | 7\_Beans and legumes g/day |
| 18 | WholeGrain\_intake | Num | 8 |  | 8\_Whole grains g/day |
| 19 | RefinedGrain\_intake | Num | 8 |  | 9\_Refined grains g/day |
| 20 | UnprocessedRedMeat\_intake | Num | 8 |  | 10\_Unprocessed red meats g/day |
| 21 | TotalProcessedMeat\_intake | Num | 8 |  | 11\_Total processed meats g/day |
| 22 | Seafood\_intake | Num | 8 |  | 12\_Seafood g/day |
| 23 | Egg\_intake | Num | 8 |  | 13\_Eggs g/day |
| 24 | WholeFatMilk\_intake | Num | 8 |  | 14\_Whole-fat milk g/day |
| 25 | ReducedFatMilk\_intake | Num | 8 |  | 15\_Reduced-fat milk g/day |
| 26 | Yoghurt\_intake | Num | 8 |  | 16\_Yoghurt g/day |
| 27 | Cheese\_intake | Num | 8 |  | 17\_Cheese g/day |
| 28 | SSB\_intake | Num | 8 |  | 18\_Sugar-sweetened beverages g/day |
| 29 | Coffee\_intake | Num | 8 |  | 19\_Coffee cups/day |
| 30 | Tea\_intake | Num | 8 |  | 20\_Tea cups/day |
| 31 | Energy\_intake | Num | 8 |  | 22\_Total energy (kcal per day) |
| 32 | Carbohydrate\_intake | Num | 8 |  | 23\_Total carbohydrates (Percent of energy per day) |
| 33 | TotalProtein\_intake | Num | 8 |  | 24\_Total protein (grams per day) |
| 34 | AnimalProtein\_intake | Num | 8 |  | 25\_Animal protein not including dairy protein (grams per day) |
| 35 | DairyProtein\_intake | Num | 8 |  | 26\_Dairy protein (grams per day) |
| 36 | PlantProtein\_intake | Num | 8 |  | 27\_Plant protein (grams per day) |
| 37 | SaturatedFat\_intake | Num | 8 |  | 28\_Saturated fat (Percent of energy per day) |
| 38 | Omega6FattyAcid\_intake | Num | 8 |  | 29\_Total omega-6 fatty acids (Percent of energy per day) |
| 39 | SeafoodOmega3Fat\_intake | Num | 8 |  | 30\_Seafood omega-3(n-3) fat (mg per day) |
| 40 | PlantOmega3Fat\_intake | Num | 8 |  | 31\_Plant omega-3(n-3) fat(mg per day) |
| 41 | MUFA\_intake | Num | 8 |  | 32\_Monounsaturated fat (Percent of energy per day) |
| 42 | Cholesterol\_intake | Num | 8 |  | 34\_Dietary cholesterol (mg per day) |
| 43 | DietaryFiber\_intake | Num | 8 |  | 35\_Dietary fiber (g per day) |
| 44 | Sodium\_intake | Num | 8 |  | 36\_Dietary sodium (mg per day) |
| 45 | Potassium\_intake | Num | 8 |  | 37\_Potassium (mg per day) |
| 46 | Calcium\_intake | Num | 8 |  | 38\_Calcium (mg per day) |
| 47 | Iron\_intake | Num | 8 |  | 39\_Iron (mg per day) |
| 48 | Zinc\_intake | Num | 8 |  | 40\_Zinc (mg per day) |
| 49 | Magnesium\_intake | Num | 8 |  | 41\_Magnesium (mg per day) |
| 50 | Iodine\_intake | Num | 8 |  | 43\_Iodine (µg per day) |
| 51 | VitaminAWSupp\_intake | Num | 8 |  | 44\_Vitamin A with supplements (µg RAE/day) |
| 52 | VitaminAWOSupp\_intake | Num | 8 |  | 45\_Vitamin A without supplement (µg RAE/day |
| 53 | VitaminD\_intake | Num | 8 |  | 46\_Vitamin D (µg per day) |
| 54 | VitaminE\_intake | Num | 8 |  | 47\_Vitamin E (mg per day) |
| 55 | VitaminC\_intake | Num | 8 |  | 48\_Vitamin C (mg per day) |
| 56 | VitaminB1\_intake | Num | 8 |  | 49\_Vitamin B1 (mg per day) |
| 57 | VitaminB2\_intake | Num | 8 |  | 50\_Vitamin B2 (mg per day) |
| 58 | VitaminB3\_intake | Num | 8 |  | 51\_Vitamin B3 (mg per day) |
| 59 | VitaminB6\_intake | Num | 8 |  | 52\_Vitamin B6 (mg per day) |
| 60 | VitaminB9\_intake | Num | 8 |  | 53\_Vitamin B9 (µg per day) |
| 61 | VitaminB12\_intake | Num | 8 |  | 54\_Vitamin B12 (µg per day) |

**Example of Statistical Output**

**SAS code for the output below:**

proc surveymeans data=m.EskimoI\_GDD ;

 title 'GDD EsKiMo 12-17 Years Example';

 cluster psu; /\* -> This is necessary to account for design effect for variance estimations \*/

 weight samp\_wt;

 var fruit\_intake Calcium\_intake;

 by sex agegr;

run;

GDD EsKiMo 12-17 Years Example

Boys Age range: 12-14

| Statistics |
| --- |
| Variable | Label | N | Mean | Std Error of Mean | 95% CL for Mean |
| Fruit\_intake | 1\_Fruits g/day | 328 | 176.573929 | 10.891020 | 155.05073 | 198.09713 |
| Calcium\_intake | 38\_Calcium (mg per day) | 328 | 1343.497450 | 36.822577 | 1270.72745 | 1416.26745 |

Boys Age range: 15-17

| Statistics |
| --- |
| Variable | Label | N | Mean | Std Error of Mean | 95% CL for Mean |
| Fruit\_intake | 1\_Fruits g/day | 294 | 180.690853 | 11.198167 | 158.55009 | 202.83162 |
| Calcium\_intake | 38\_Calcium (mg per day) | 294 | 1620.299790 | 43.515693 | 1534.26153 | 1706.33805 |

Girls Age range: 12-14

| Statistics |
| --- |
| Variable | Label | N | Mean | Std Error of Mean | 95% CL for Mean |
| Fruit\_intake | 1\_Fruits g/day | 333 | 189.794883 | 10.911424 | 168.23136 | 211.35840 |
| Calcium\_intake | 38\_Calcium (mg per day) | 333 | 1201.225802 | 25.346393 | 1151.13542 | 1251.31619 |

Girls Age range: 15-17

| Statistics |
| --- |
| Variable | Label | N | Mean | Std Error of Mean | 95% CL for Mean |
| Fruit\_intake | 1\_Fruits g/day | 317 | 229.968259 | 14.141719 | 202.02092 | 257.91560 |
| Calcium\_intake | 38\_Calcium (mg per day) | 317 | 1337.209115 | 38.724755 | 1260.67996 | 1413.73827 |