| **Supplemental Table 2: Validity and reliability (correlation, mean/median difference and exact level of agreement, interval between 2 subsequent assessments) data on identified instruments which were tested for validity and/or reliability of SSBs intake** |
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|  | **Validity** | **Reliability** |  |
| **Instrument, Author** | **Correlation** | **Mean/median differences** | **Exact level of agreement, %** | **Correlation**  | **Mean/median differences** | **Exact level of agreement, %** | **Interval between 2 subsequent assessments**  |
| **ENERGY-child questionnaire****Singh *et al* 2011** *ENERGY-child questionnaire vs. interview* | NA | NA | *ENERGY-child questionnaire vs interview*: Soft drinks: 55 | NA | NA | Soft drinks: 55 | Interval: 1 week |
| **Food4Me FFQ****Fallaize *et al* 2014** | Spearman, crude: *Other Beverages\*: 0.66* | N.A.  | *Other beverages: 43* | **Spearman of repeated measures**:*Other beverages: 0.75* | NA | *Other beverages: 43* |  |
| **Food4Me FFQ****Forster *et al* 2014***FOOD4ME FFQ: validation with the EPIC-Norfolk FFQ* | **Energy adj.**Spearman: Other Beverages: 0.79 | **EPIC vs. FOOD4ME** Other Beverages: 103,93 gram (p<0.001) | *Other Beverages: 60* | NA | NA | NA | NA |
| **HBSC FFQ****Vereecken *et al* 2003***reliability and relative validity of a FFQ in school-aged children, validated with a 7 day food record* | **FFQ and 7dFD**: Spearman, crude*Soft drinks: 0.46**Diet soft drinks: 0.15* | **FFQ vs. 7dFD**:*Soft drinks:* *-0,16 d/w (P=0.462)**Diet soft drinks:* *1,76 d/w (P<0.001* | *Soft drinks: 50**Diet soft drinks: 65* | Spearman:**in 11-12 year-olds**:*Soft drinks: 0.80**Diet soft drinks: 0.78***in 13-14 year-olds**:*Soft drinks: 0.73**Diet soft drinks: 0.67* | NA | **Exact agreement in %in 11-12 year-olds**:Soft drinks: 52Diet soft drinks: 54**in 13-14 year-olds**:Soft drinks: 49Diet soft drinks: 53 | Interval: 7-15 days |
| **HELENA 24HDR****Vereecken *et al* 2008***24-h dietary recall (YANA-C) two times; once by self-report and once by interview* | **Self-report and interview**: Spearman, crude:*Carbonated soft drinks: 0.92* | **Self-reported vs. Interview 24-h recall**:Carbonated soft drinks: 4 (P=0.277)  | NA | NA | NA | NA | NA |
| **HELENA FFQ****Vereecken *et al* 2010** *Validity: FFQ and four 24-h recallsReproducibility:2 FFQ’s* | **FFQ and 4 YANA-Cs**: Spearman, crude Soft drinks: 0.79 | **FFQ vs. 4 YANA-Cs**:Soft drinks: 26 g (p=0.386) | NA | **Between FFQ1 and FFQ2**:Spearman:*Soft drinks: 0.76* | **FFQ1 vs. FFQ2** *Soft drinks:* *54 g (no P value)*  | NA | Interval: 1-2 weeks. |
| **IDEFICS FFQ****Bel-Serrat *et al* 2011***IDEFICS studyFFQ (section of the Children's Eating Habits Questionnaire) vs. two 24-h dietary recalls* | **CEHQ-FFQ vs. 24-h DR** Pearson, crude 2-<6 years:*Soft drinks: 0.14**Light soft drinks: 0.17**Sweetened milk: 0.45*6-9 years:*Soft drinks: 0.21**Light soft drinks: 0.08**Sweetened milk: 0.33*De-attenuated 2-6 years: *Soft drinks: 0.15**Light soft drinks: 0.20**Sweetened milk: 0.48* 6-9 years: Soft drinks: 0.23Light soft drinks: 0.09Sweetened milk: 0.36 | **CEHQ-FFQ vs. 24-h DR** (Number of portions)2-<6 years:*Soft drinks: -0.16 (*P< 0.05*)**Light soft drinks: 0.14 (*P< 0.05*)**Sweetened milk: 0.29 (*P< 0.05*)*6-9 years:*Soft drinks: -0.13 (*P<0.05*)**Light soft drinks: 0.14 (*P<0.05*)**Sweetened milk: 0.32 (* P<0.05) | 2-<6 years:*Soft drinks: 42.0**Sweetened milk: 49.3*6-9 years:*Soft drinks: 38.8**Sweetened milk: 52.5*  | NA | NA | NA | NA |
| **IDEFICS FFQ****Lanfer *et al* 2011***IDEFICS study, use of CEHQ-FFQ for reproducibility* | NA | NA | NA | **Between FFQ1 and FFQ2**:Spearman:*Soft drinks: 0.53**Diet soft drinks: 0.32* | **FFQ1 vs. FFQ2***Soft drinks: 0.2 (N.S.)**Diet soft drinks: 0.1 (N.S.)* | NA | Interval: 0-354 (no fixed time period)  |
| **ToyBox****Gonzales-Gil *et al* 2014***ToyBox-study reliability of the PCQ*  | NA | NA | NA | water and beverages consumption range: 0,409 - 0,883  | NA | NA | Interval: 2 weeks |
| **TOYBOX FFQ****Huybrechts *et al* 2009**Validity and reproducibility of a FFQ, Validation against a 3-day dietary record. | Spearman, crude: Sugared drinks: 0.569De-attenuated sugared drinks:0,633 | **FFQ vs. 3-day dietary record***Sugared drinks:* *-11 g (P=0.077)*  | Sugared drinks: NA | **Between FFQ1 and FFQ2**:Spearman:*Sugared drinks: 0.86* | **FFQ1 vs. FFQ2***Sugared drinks:* *7 g (P=0.608)*  | NA | Interval: at least 5 weeks  |
| **YANA-C****Vereecken *et al* 2005***Relative validity and acceptability of the computerised 24-h recall YANA-C compared with food records (study 1) and 24-h dietary recall interviews (study 2)* | Spearman, crude between YANA-C and food record (study 1):*soft drinks*: 0.42between YANA-C and interview (study 2):*soft drinks*: 0.65 | YANA-C vs. food record:*soft drinks*: 107 g (p=0.015)YANA-VC vs. interview:*soft drinks*: 17 g (p=0.977) | study 1 (YANA-C vs. food record): soft drinks: 59 study 2 (YANA-C vs. interview) soft drinks: 62 | NA | NA | NA | NA |

\* including everything, except milk, alcoholic beverages, tea, and coffee.