| **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** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **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: 52  Diet soft drinks: 54 **in 13-14 year-olds**: Soft drinks: 49  Diet 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 recalls Reproducibility: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 study FFQ (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: 0.23  Light soft drinks: 0.09  Sweetened 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: 0.569  De-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*: 0.42 between 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.