Evidence Table H5. Child change in weight measures

| **Author, year** | **Setting** | **Level** | **Adult/child** | **Measure type** | **Child Weight Change Measure\*** |
| --- | --- | --- | --- | --- | --- |
| **Natural Experiment Studies** |  |  |  |  |  |
| Capogrossi, 201622 | Food assistance program , School | US/Federal | Child | Measured by trained staff | Standard Measure |
| Frongillo, 201750 | Community or neighborhood  | Local | Child | Measured by trained staff | BMI and waist circumference |
| Hobin, 201768 | School | Other country | Child | Measured by trained staff | Reports as overweight and obese  |
| Jia, 201776 | School | Other country | Child | Measured by trained staff | BMI and Weight status (Obese/overweight)- defined based on International Obesity Task Force-recommended age- and sex-specific cutoffs corresponding to BMI = 25 kg m− 2 at age 18 years |
| Toussaint, 2017143 | School | State/Regional | Child | Measured by trained staff | BMI: Standard Measure |
| Utter, 2016144 | School | Other country | Child | Measured by trained staff | BMI |
| Veugelers, 2005146 | School | Other country | Child | Measured by trained staff | weight and height taken |
| **Experimental Studies** |  |  |  |  |  |
| Ask, 2010160 | School | Other country | Child | Measured by trained staff | Standard Measure |
| Bonsergent, 2013172 | School | Other country | Child | Measured by trained staff | Standard Measure |
| Bonvin, 2013173 | Early childhood education or daycare  | Other country | Child | Measured by trained staff | Standard Measure |
| Caballero, 2003175 | School | State/Regional | Child | Measured by trained staff | Standard measure |
| Cortinez-O'Ryan, 2017179 | Community or neighborhood | Other country | Child | Measured by trained staff | BMI of child captured at baseline but not reported at follow up |
| Farley, 2007196 | Community or neighborhood  | Local | Child | Other | measured height, weight, and an estimate of body fat using bioelectrical impedance analysis |
| Hollis, 2016214 | School | Non-Governmental | Child | Measured by trained staff | Standard Measure |
| Tarp, 2016262 | School | Other country | Child | Measured by trained staff | BMI only: Body mass was measured to one decimal using an electronic scale (Tanita BWB-800, Tokyo, Japan) |
| Zhou, 2014274 | Early childhood education or daycare  | Other country | Child | Other | body composition analyzer (InBody J20, BIO-SPACE, Seoul, Korea) |

| **Author, year** | **Setting** | **Level** | **Adult/child** | **Measure type** | **Child Weight Change Measure** |
| --- | --- | --- | --- | --- | --- |
| **Other Study Designs** |  |  |  |  |  |
| Brusseau, 2016279 | School | State/Regional | Child | Measured by trained staff | Body mass index (BMI) was calculated using standard procedures taking a student’s weight in kilograms divided by the square or his or her height in meters. |

BMI=Body Mass Index; No..=Number

**\*** Standard measure” refers to the standardized method for calculating BMI, BMI-z score, and BMI-percentile as stated by the Centers for Disease Control and Prevention (CDC).295, 296