

Table 4.2. Summary Table: Surveys of preschool age populations

|  | Preschoolers (n) | Age (years) | Ethnically Diverse | Longitudinal Study | Cross sectional Study | Assessment Method              |                                  |                    |          |                     | Nutrient Biomarkers | Supplement Intake Assessment Method | Outcomes   |
|--|------------------|-------------|--------------------|--------------------|-----------------------|--------------------------------|----------------------------------|--------------------|----------|---------------------|---------------------|-------------------------------------|--|
|  |                  |             |                    |                    |                       | Weighed Food Record (no. days) | Estimated Food Record (no. days) | 24-Hour Recall (n) | FFQ Type | Other Questionnaire |                     |                                     |  |
| <b>National Surveys</b>  |                  |             |                    |                    |                       |                                |                                  |                    |          |                     |                     |                                     |  |
| US National Health and Nutrition Examination Survey (NHANES) 1999-2000 (41)    | 486              | 3-5         | ✓                  |                    | ✓                     |                                |                                  | 1; 2 in 10%        |          |                     | ✓                   | Quest.& 24HR                        | Food, nutrient, physical activity, and chemical exposures                        |
| Continuing Survey of Food Intake of Individuals (CSFII) 1994-96 (42)           | 4,574            | 3-5         | ✓                  |                    | ✓                     |                                |                                  | 2                  |          |                     | ✓                   | 24HR                                | Food and nutrient exposures, diet and health knowledge                           |
| enKid Study, 2001 (Spain) (151;151;152;152)                                    | 385              | 2-5         | ✓                  |                    | ✓                     |                                |                                  | 1; 2 in 30%        | 164 item |                     |                     | FFQ                                 | Food group intake, activity patterns   |
| Russian Longitudinal Survey, 1992-4 (108)                                      | 746              | 0-6         | ✓                  |                    | ✓                     |                                |                                  | 1                  |          |                     |                     | NS*                                 | Total iron, heme and bioavailable iron in diet                                   |
| <b>Population Surveys of Food and Nutrient Exposures</b>                       |                  |             |                    |                    |                       |                                |                                  |                    |          |                     |                     |                                     |  |
| Avon Longitudinal Study of Pregnancy and Childhood (ALSPAC) Avon, UK (112;153) | 863              | 3.3         | NS                 | ✓                  |                       |                                |                                  | 3d                 |          |                     | ✓                   | NS                                  | Energy and 17 nutrients, blood lipids, iron status                               |
| Iowa Fluoride Study, 2003 (114)  | 400              | 3-5         | NS                 | ✓                  |                       |                                |                                  | 3d                 |          | Bev.                |                     | Quest.                              | Energy and 21 nutrients, beverage intake, fluoride supplement use, dental caries |

\*NS = Not Specified

Table 4.2. Summary Table: Surveys of preschool age populations, continued

|  | Preschoolers (n) | Years (n) | Ethnically Diverse | Longitudinal Study | Cross sectional Study | Assessment Method              |                                  |                    |          |              | Nutrient Biomarkers | Supplement Intake Assessment Method | Outcomes   |
|--|------------------|-----------|--------------------|--------------------|-----------------------|--------------------------------|----------------------------------|--------------------|----------|--------------|---------------------|-------------------------------------|--|
|  |                  |           |                    |                    |                       | Weighed Food Record (no. days) | Estimated Food Record (no. days) | 24-Hour Recall (n) | FFQ Type | Other Method |                     |                                     |  |
| <b>Population Surveys of Food and Nutrient Exposures, continued</b>        |                  |           |                    |                    |                       |                                |                                  |                    |          |              |                     |                                     |  |
| DONALD Study (Germany) (154;155)   | 787              | 2-14      |                    | ✓                  |                       | 3d                             |                                  |                    |          |              | ✓                   | NS                                  | Energy and nutrient intake (total vs. fortified foods), growth.                        |
| Adelaide Nutrition Cohort Study, 1981 (South Australia) (117)              | 155              | 4         |                    | ✓                  |                       | 3d                             |                                  |                    |          |              |                     | NS                                  | Food, nutrient, energy intake and somatic growth                                       |
| Framingham Children's Study (156)  | 77               | 3-4       |                    | ✓                  |                       |                                | 3d                               |                    |          |              |                     | NS                                  | Energy, protein, CHO, fat, SF, MUFA, PUFA, cholesterol, calcium, potassium, and sodium |
| Columbia University Study of Childhood Activity and Nutrition (70;135;136) | 181              | 3-4       | ✓                  |                    |                       |                                |                                  | 7                  | HFFQ     |              | ✓                   | NS                                  | Energy, fat, SF, PUFA, cholesterol, protein, CHO, sodium, potassium and calcium        |
| Skinner Tennessee Longitudinal Study (157)                                 | 72               | 3-5       |                    |                    |                       |                                | 2d                               | 1                  |          |              |                     | 24H R                               | Energy and nutrient intake   |
| Bogalusa Heart Study, 1987 (118)   | 106<br>2219      | 3<br>4    | ✓                  | ✓                  |                       |                                |                                  | 1                  |          |              | ✓                   | Suppl. given                        | Energy and nutrients, serum lipids, growth   |

\*NS = Not Specified