

Table 3.3. Summary Table: Studies of infant and/or toddler populations

	Infants (n)	Toddlers (n)	Ethnically Diverse	Longitudinal Study	Cross sectional Study	Assessment Method					Supplement Intake Assessment Method	Outcomes	
						Weighed Food Record (no. days)	Estimated Food Record (no. days)	24-Hour Recall (n)	FFQ Type	Other Questionnaire			Nutrient Biomarkers
<b>National Surveys</b>													
US National Health and Nutrition Examination Survey (NHANES) 1999-2000 (41)	111 BF + 291	14 BF + 441	✓		✓			1; 2 in 10%			✓	Quest.& 24HR	Food, nutrient, physical activity, and chemical exposures
Continuing Survey of Food Intake of Individuals (CSFII) 1994-96 (42)	425 BF + 1,021	68 BF + 2,118	✓		✓			2			✓	24HR	Food and nutrient exposures; diet and health knowledge
Feeding Infants and Toddlers Study, 2002 (US) (107)	2,025	997	✓		✓			1; 2 in 23%				24HR	Food, energy, and 24 nutrients
Gerber Products Company 1994 Survey (106)	1,658				✓		4d					4dFR	Energy and 11 nutrients
Ross Laboratories Mothers Survey, 2001 (29)	>33,000 per mo.		NS*	✓							✓	NS	Mailed quest. on type of milk infant consumed in past 30 d.
The National WIC Evaluation, 1997 (38)	874		✓	✓							✓	Quest.	Monthly infant 15-minute telephone interview; breastfeeding rates, patterns and practices; patterns of introduction of complementary foods and beverages
Russian Longitudinal Monitoring Survey (108)	746		✓	✓				1				NS	Total iron, heme and bioavailable iron in diet
Danish National Birth Cohort (Better Health for Mother and Child) ( <a href="http://www.bsmb.dk">www.bsmb.dk</a> ) (36)	100,000 @ 6 and 18 mo.			✓							✓	Quest.	Telephone interview at 6 mo. (16 min.) and 18 mo. (10 min); food, nutrient, and chemical exposures

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<b>Population Surveys of Food and Nutrient Exposures</b>													
Avon Longitudinal Study of Pregnancy and Childhood (ALSPAC) Avon, UK (109-113)	1,131 @ 8 mo.	1,026 @ 18 mo.	NS	✓			3d					Quest.	Energy and 17 nutrients
Substudy, Avon Longitudinal Study of Pregnancy and Childhood (ALSPAC) Avon, UK (110)	9,640 @ 6 & 15 mo.	9,640 @ 6 & 15 mo.	NS	✓								NS	Mailed questionnaire on age of introduction of foods and reported feeding difficulties
Iowa Fluoride Study, 2003 (98;114)	642		NS	✓			3d		Bev.			Quest.	Energy and 21 nutrients, beverage intake, fluoride supplement use
Norway Infant Feeding Nutrition Survey (115)	2,383 @ 6 mo.								FFQ			FFQ	Infant feeding practices (infant feeding practices FFQ) and self reported length and weight
Dortmunc Nutritional and Anthropometric Longitudinally Designed (DONALD) Study (Germany) (116)	293	354		✓		3d					✓	NS	Infant growth, energy and nutrient intakes, food groups, breastfeeding rates
Adelaide Nutrition Cohort Study, South Australia (117)	140	140		✓		7d						NS	Food, nutrient, energy intake and somatic growth
The Bogalusa Newborn-Infant Cohort Study (118)	440		✓	✓			5 in 4 yrs.				✓	✓	Vit. Incent. Monthly mailed infant feeding practices quest with food checklist 1-4 mo.; interviewer admin. Quest. at 6 and 12 mo.; 24HR on subset

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<b>Other Studies</b>													
The DARLING Study, California, 1993 (119)	119	119		✓		4					✓	NS	Test weighing of BM intake, BM samples collected for 24h, sleeping diary for activity assessment, compared growth of FF and BF infants. Milk intake and composition, energy and protein intake.
Carruth et al., 2000 (Tennessee) (120)	94	✓		✓				10			✓		24HR & usual food intake monthly 2-4 months, bi-monthly 6-12 months, every 4 months 16-24 months.
The Leiden Preschool Children Study (121)	124	✓		✓				3				NS	Growth, energy, and 13 nutrients
Habibian et al., 2001 (UK) (122)	163	✓		✓			3					NS	Dental health, number of eating occasions and frequency of eating 19 food/drink categories
Bogen et al., 2000 (105)		282	✓		✓						✓	✓	Quest. Self-administered 15-item questionnaire on risk factors for iron deficiency anemia compared with hemoglobin, ferritin, and MCV.
Wharf et al., 1997 (UK) (93)	181	✓		✓							✓	✓	NS Diet history for iron intake, biomarkers of iron status
Sanjur et al., 1990 (123)		90		✓			3					Suppls. provided	Meal patterns, energy and nutrient intakes.

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