

ICPSR 25501

**National Health and Nutrition  
Examination Survey (NHANES),  
1999-2000**

*United States Department of Health and  
Human Services. Centers for Disease  
Control and Prevention. National Center  
for Health Statistics*

NCHS 1999-2010 Survey Content

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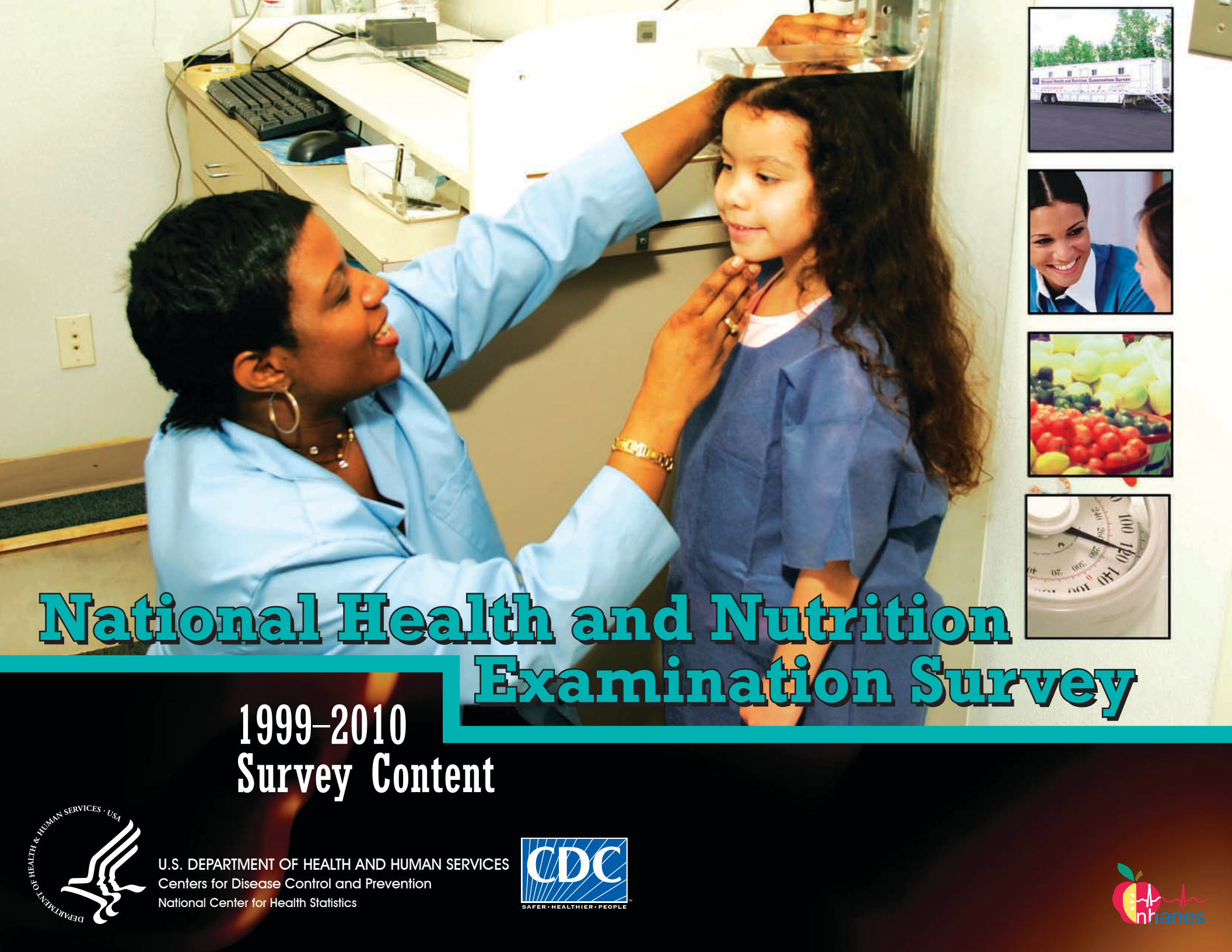
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# National Health and Nutrition Examination Survey

1999–2010  
Survey Content



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
Centers for Disease Control and Prevention  
National Center for Health Statistics



## Acronyms and abbreviations used in the National Health and Nutrition Examination Survey



ACASI	Audio computer-assisted self-interview
ADHD	Attention deficit hyperactivity disorder
BV	Bacterial vaginosis
CAPI	Computer-assisted personal interview
CD4	T lymphocyte helper cells
CDISC	National Institute of Mental Health's Computerized Diagnostic Interview Schedule for Children
CIDI	World Health Organization's Composite International Diagnostic Interview
CV fitness	Cardiovascular fitness
FCBS	Flexible Consumer Behavior Survey module
FSH/LH	Follicle stimulating hormone/luteinizing hormone
HDL	High density lipoprotein
HLA-B27	Human leukocyte antigen B27
HPV	Human papillomavirus
LDL	Low density lipoprotein
Lp(a)	Lipoprotein (a)
MEC	Mobile examination center
MRSA	Methicillin resistant staphylococcus aureus
NTX	N-telopeptides of bone type I collagen
OGTT	Oral glucose tolerance test
PAH	Polyaromatic hydrocarbons
PSA	Prostate specific antigen
PTH	Parathyroid hormone
Qx	Questions
RBC	Red blood cell
SP	Survey participant
TH	Thyroxin
TIBC	Total iron binding capacity
TSH	Thyroid stimulating hormone
TTG-EMA	Anti-transglutaminase (tTG) and anti-endomysium (EMA) antibodies
VOC	Volatile organic compounds
WBC/DNA	White blood cells/deoxyribonucleic acid

☒ Component or lab test conducted on original sample description.

☐ Change from original sample description.

☐ Component or lab test not conducted.

**Table 1.** Examination component matrix of the National Health and Nutrition Examination Survey, 1999–2010



Component	Sample description	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Audiometry	1/2 sample 20–69 years <sup>1</sup>							12–19 and 70 years and older		12–19 years		12–19 and 70 years and older	
Balance	1/2 sample 40–69 years <sup>1</sup>			Note A									
Bioelectrical impedance analysis	8–49 years												
Body measurements	All SPs												
CV fitness	12–49 years <sup>1</sup>							p.m. SPs					
Dermatology	20–59 years												
Dietary	All SPs				Note B								
Dual energy x-ray absorptiometry													
Body composition	8 years and older <sup>1</sup>	Note C						8–69 years					
Bone density-hip and spine	8 years and older												
FCBS phone follow-up module	1 year and older											Note D	
Food frequency	2 years and older					Collected by mail							
Hair collection	1–5 years, females 16–49 years												
Lower extremity disease													
Peripheral neuropathy	40 years and older												
Peripheral vascular disease	40 years and older												
Mental health	8–39 years												
CDISC	8–19 years												
Anxiety	8–19 years												
Depression	8–19 years												
Eating disorders	8–19 years												
Panic disorder	8–19 years												
CIDI	1/2 sample 20–39 years												
Depression	1/2 sample 20–39 years												
Generalized anxiety	1/2 sample 20–39 years												
Panic disorder	1/2 sample 20–39 years												
Parent CDISC													
ADHD	Parent of 8–15 years												
Conduct disorders	Parent of 8–15 years												
Depression	Parent of 8–15 years												
Eating disorders	Parent of 8–15 years												
Elimination disorders	Parent of 8–11 years												

See footnotes at end of table. Acronyms and abbreviations and legend.

**Table 1.** Examination component matrix of the National Health and Nutrition Examination Survey, 1999–2010—Con.



Component	Sample description	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Ophthalmology													
Retinal photo	40 years and older												
Visual fields	40 years and older												
Oral health													
Basic screening exam	5 years and older <sup>1</sup>												
Coronal caries	2 years and older												
Dental sealants	2–34 years												
Denture questionnaire	25 years and older												
Exclusion Qx	13 years and older <sup>1</sup>												
Fluorosis	6–49 years												
Incisal trauma	10–29 years												
Orofacial pain exam	13–69 years												
Orofacial pain Qx	10–69 years												
Periodontitis													
Gingival bleeding	12–49 years												
Loss of attachment	18 years and older <sup>1</sup>												
Periodontal bleeding	13 years and older												
Referral/follow-up	2 years and older <sup>1</sup>												
Root caries	18 years and older												
Saliva	40 years and older												
Tooth count	2 years and older <sup>1</sup>												
Physical activity monitor	6 years and older												
Physical functioning													
8 ft. timed walk	50 years and older												
20 ft. timed walk	50 years and older												
Isokinetic	50 years and older												
Physician exam	All SPs												
Blood pressure	8 years and older												
Respiratory health													
Exhaled nitric oxide	6–79 years												
Spirometry	6–79 years												

**Table 1.** Examination component matrix of the National Health and Nutrition Examination Survey, 1999–2010—Con.



Component	Sample description	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Spinal mobility	20–69 years												
Tuberculosis	1 year and older												
Vision	12 years and older												

<sup>1</sup>Except where noted otherwise.

Note A: Increased to full sample, 40 years and older.

Note B: New interview system implemented; all SPs asked to complete a second recall by phone.

Note C: Age range for females was 18 years and older.

Note D: Ten additional questions added.

Note E: Oral health component changed from comprehensive dentist based exam to a simplified oral health screening for SPs 5 years and older.

Note F: Oral health component changed from a simplified health screening to a more comprehensive exam done by a dental hygienist.

Note G: Added identifying caries status on residual dental roots.

Note H: Comprehensive periodontal exam covering the full mouth.

Note I: Age range changed to 13 years and older; LOA measurement positions modified; a third site added.

Note J: Added recommendations to seek care for removable dental prosthetics.

Note K: Discontinued mid-year 2000.

Note L: Added counting residual dental roots.

[Acronyms and abbreviations and legend.](#)



**Table 2.** Laboratory component matrix of the National Health and Nutrition Examination Survey, 1999–2010



Lab test	Sample description	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Acrylamide	3 years and older <sup>1</sup>												
Albumin (urine)	6 years and older												Note A
Apolipoprotein (B)	1/2 sample 12 years and older												
Arsenic (urine)	1/3 sample 6 years and older												
Bone alkaline phosphatase	8 years and older <sup>1</sup>												
BV/trichomonas	Females 14–49 years												
Cadmium (blood)	1 year and older												
Caffeine exposure	6 years and older												
CD4/CD8	18–49 years/HIV+ and controls												
Chemistry panel	12 years and older												
Chlamydia (urine)	14–39 years												
Cholesterol (total)	3 years and older <sup>1</sup>												
HDL	3 years and older <sup>1</sup>												
LDL	Subsample 3 years and older <sup>1</sup>												
Complete blood count	1 year and older												
Cotinine	3 years and older												
C-reactive protein	3 years and older <sup>1</sup>												
Creatinine (urine)	6 years and older												
Cryptosporidium	6–49 years												
Dust allergens	1 year and older												
Environmental phenols	1/3 sample 6 years and older												
Erythrocyte protoporphyrin	1 year and older <sup>1</sup>												
Fatty acids	3–11 years, a.m. SPs 12 years and older												
Ferritin	1 year and older <sup>1</sup>												
Fibrinogen	40 years and older												
Folate (RBC)	3 years and older <sup>1</sup>												
Folate (serum)	3 years and older <sup>1</sup>												
FSH/LH	Females 35–60 years												
Fungicides	1/3 sample 6 years and older <sup>1</sup>												
Glucose (plasma)	Subsample 12 years and older												



**Table 2.** Laboratory component matrix of the National Health and Nutrition Examination Survey, 1999–2010—Con.



Lab test	Sample description	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
Glycohemoglobin	12 years and older													
Gonorrhea (urine)	14–39 years													
Halogenated phenolic compounds	1/3 sample 6 years and older <sup>1</sup>	Note B												
Helicobacter pylori	3 years and older													
Hepatitis antiHBs	2–5 years													
Hepatitis A, B, C, D	6 years and older										Note C			
Hepatitis C follow-up	SPs with Hep C													
Herbicides: substituted ureas and others	1/3 sample 6 years and older <sup>1</sup>	Note B												
Herpes 1 and 2 antibody	14–49 years													
HIV antibody	18–49 years <sup>1</sup>												18–59 years	
HLA-B27 (inflammatory arthritis)	20–69 years													
Homocysteine	3 years and older <sup>1</sup>								20 years and older					
HPV (oral rinse)	14–69 years													
HPV (serum)	14–59 years													
HPV (swab)	Females 14–59 years													
Hydroxylated polychlorinated biphenyls	1/3 sample 12 years and older													
Immunoglobulin E-allergens	1 year and older													
Insulin/C-peptide	Subsample 12 years and older								Insulin only					
Iodine (urine)	1/3 sample 6 years and older													
Iron	1 year and older <sup>1</sup>						Note D							
Latex	12–59 years													
Lead (blood)	1 year and older													
Lead dust	Households with 1–5 years													
Lp(a)	Subsample 12 years and older													
Measles/varicella/rubella	6–49 years												Mumps added	
Metals (urine)	1/3 sample 6 years and older													
Mercury (blood)	1–5 years, females 16–49 years <sup>1</sup>						1 year and older							
Mercury (hair)	1–5 years, females 16–49 years													
Mercury (urine)	Females 16–49 years <sup>1</sup>						1/3 sample 6 years and older							
Methylmalonic acid	3 years and older													

See footnotes at end of table. Acronyms and abbreviations and legend.

**Table 2.** Laboratory component matrix of the National Health and Nutrition Examination Survey, 1999–2010—Con.



Lab test	Sample description	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
MRSA	1 year and older												
Non-dioxin-like polychlorinated biphenyls	1/3 sample 12 years and older												
NTX	8 years and older												
OGTT	Subsample 12 years and older									a.m. SPs			
Omega fatty acids	3–11 years, a.m. SPs 12 years and older												
Organophosphate insecticides	1/3 sample 6 years and older <sup>1</sup>		Note B										
Osmolality	6 years and older												
PAH	1/3 sample 6 years and older												
Perchlorate (urine)	6 years and older <sup>1</sup>			Note E						Note F			
Perchlorate (water)	1/2 sample 12 years and older												
Perfluorinated compounds	1/3 sample 12 years and older <sup>1</sup>	Note G											
Pesticides													
Organochlorine	1/3 sample 12 years and older												
Other	1/3 sample 6 years and older <sup>1</sup>		Note B										
Pyrethroid	1/3 sample 6 years and older <sup>1</sup>			Note H									
Phthalates	1/3 sample 6 years and older												
Phytoestrogens	1/3 sample 6 years and older												
Polybrominated diphenyl ethers	1/3 sample 12 years and older												
Polychlorinated and polybrominated dibenzo-p-dioxins, dibenzofurans, coplanar and mono-ortho-substituted biphenyls	1/3 sample 12 years and older												
Polychlorinated naphthalene	1/3 sample 12 years and older												
PSA	Males 40 years and older												
PSA follow-up	Males 40 years and older with high results <sup>1</sup>							Males 40–70 years					
PTH	6 years and older												
Selenium	3–11 years <sup>1</sup>					40 years and older							
Surplus sera	6 years and older									Reduced number of vials			
Syphilis	18–49 years												
Thyroid function testing	1/3 sample 12 years and older <sup>1</sup>										Note I		

See footnotes at end of table. Acronyms and abbreviations and legend.

**Table 2.** Laboratory component matrix of the National Health and Nutrition Examination Survey, 1999–2010—Con.



Lab test	Sample description	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
TIBC	1 year and older <sup>1</sup>					Note D							
Toxaphenes	1/3 sample 12 years and older												
Toxoplasma	6–49 years	Note G											
Transferrin receptor	1–5 years, females 12–49 years												
Triglycerides	Subsample 3 years and older <sup>1</sup>								a.m. SPs 12 years and older				
TTG-EMA (celiac disease)	6 years and older												
Urine flow rate calculation	6 years and older												
Vitamin A/E/carotenoids	3 years and older <sup>1</sup>					6 years and older							
Vitamin B6	1 year and older												
Vitamin B12	3 years and older <sup>1</sup>					1 year and older							
Vitamin C	6 years and older												
Vitamin D	6 years and older <sup>1</sup>					1 year and older							
VOC (blood)	Subsample 20–59 years <sup>1</sup>								1/2 sample 12 years and older				
VOC exposure monitor	Subsample 20–59 years												
VOC (water)	Subsample 20–59 years <sup>1</sup>								1/2 sample 12 years and older				
WBC/DNA	20 years and older												

<sup>1</sup>Except where noted otherwise.

Note A: Second specimen is collected in home.

Note B: In 1999, subsample was one-fourth of those aged 12–59 years; in 1999–2002, subsample was one-half of those aged 6–11 years.

Note C: Age range changed to 6–19 years for hepatitis A only.

Note D: Age range changed to 3–5 years and females 12–59 years.

Note E: Analyzed retrospectively from surplus sera, 2001–2004.

Note F: In 2009–2010, subsample was one-third of those 6 years and older.

Note G: Analyzed retrospectively from surplus sera, 1999–2000.

Note H: In 2001–2002, subsample was one-half of those aged 6–11 years.

Note I: In 2007–2008, full sample; in 2009–2010, one-third sample.

[Acronyms and abbreviations and legend.](#)

**Table 3.** Questionnaire component matrix of the National Health and Nutrition Examination Survey, 1999–2010



Component	Sample description	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
SP questionnaire													
Acculturation (ACQ)	12 years and older												
Allergy (ARQ)	1 year and older												
Audiometry ( AUQ)	20 years and older <sup>1</sup>							1 year and older					
Balance (BAQ)	40 years and older												
Blood pressure (BPQ)	16 years and older												
Cardiovascular disease (CDQ)	40 years and older												
Demographics (DMQ)	Birth and older												
Dermatology (DEQ)	6 years and older <sup>1</sup>							20–59 years					
Diabetes (DIQ)	1 year and older												
Diet behavior and nutrition (DBQ)	Birth and older												
Dietary screener module (DTQ)	2–69 years												
Dietary supplements and medications (DSQ)	Birth and older												
Digit symbol substitution test (CFQ)	60 years and older												
Early childhood (ECQ)	Birth–15 years												
Health insurance (HIQ)	Birth and older	Found in family questionnaire											
Hospital utilization and access to care (HUQ)	Birth and older												
Immunization (IMQ)	Birth and older												
Inflammatory back pain (ARQ)	20–69 years												
Introduction and verification (IVQ)	Birth and older												
Kidney conditions (KIQ)	20 years and older												
Medical conditions (MCQ)	1 year and older												
Miscellaneous pain (MPQ)	20 years and older												
Occupation (OCQ)	12 years and older <sup>1</sup>							16 years and older					
Oral health (OHQ)	2 years and older <sup>1</sup>							18 years and older				30 years and older	
Osteoporosis (OSQ)	20 years and older												
Physical activity and physical fitness (PAQ)	2 years and older												
Physical functioning (PFQ)	1 year and older <sup>1</sup>											5 years and older	
Respiratory health and disease (RDQ)	1 year and older												

**Table 3. Questionnaire component matrix of the National Health and Nutrition Examination Survey, 1999–2010—Con.**



Component	Sample description	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Sleep disorders (SLQ)	16 years and older												
Smoking and tobacco use (SMQ)	20 years and older												
Social support (SSQ)	60 years and older <sup>1</sup>								40 years and older				
Tuberculosis (TBQ)	1 year and older												
Vision (VIQ)	20 years and older <sup>1</sup>								12 years and older				
Weight history (WHQ)	16 years and older												
<b>Family questionnaire</b>													
Consumer behavior (CBQ)	Birth and older												
Demographic background/ occupation (DMQ)	Birth and older												
Food security (FSQ) <sup>2</sup>	Birth and older												
Health insurance (HIQ)	Birth and older								Found in SP questionnaire				
Housing characteristics (HOQ)	Birth and older												
Income (INQ)	Birth and older												
Pesticide use (PUQ)	Birth and older								Found in MEC interview				
Smoking (SMQ)	Birth and older												
<b>MEC questionnaire</b>													
ACASI	12 years and older												
Alcohol use	12–19 years												
Conduct disorders	12–19 years												
Drug use	12–59 years <sup>1</sup>									12–69 years			
Food security	12–15 years												
Prostate conditions	Males 20 years and older								Moved to CAPI				
Sexual behavior	14–59 years												
Tobacco use	12–19 years												
CAPI	12 years and older												
Alcohol use	20 years and older												
Bowel health	20 years and older												
Current health status	12 years and older												
Depression screener	12 years and older												

**Table 3.** Questionnaire component matrix of the National Health and Nutrition Examination Survey, 1999–2010—Con.



Component	Sample description	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Kidney conditions-urology	20 years and older												
Pesticide exposure	8 years and older												
Physical activity	12–15 years												
Prostate conditions	Males 20 years and older												
Reproductive health	Females 12 years and older												
Tobacco use	20 years and older												
Volatile toxicants	1/3 sample 12 years and older												
Weight history	8–15 years												

<sup>1</sup>Except where noted otherwise.

<sup>2</sup> Adult and child person-level food security data collected after the dietary recall.

[Acronyms and abbreviations and legend.](#)

