



# National Health and Nutrition Examination Survey

## 1999-2004 Survey Content



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





## ACRONYMS AND ABBREVIATIONS USED IN THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES)

ACASI	Audio computer-assisted self interview
ADHD	Attention deficit hyperactivity disorder
BIA	Bioelectrical impedance analysis
BV	Bacterial vaginosis
CAPI	Computer-assisted personal interview
CD4	T lymphocyte helper cells
CDISC	National Institute for Mental Health's Computerized Diagnostic Interview Schedule for Children
CIDI	NHANES Composite International Diagnostic Interview
CV Fitness	Cardiovascular fitness
DXA	Dual energy x-ray absorptiometry
FSH/LH	Follicle stimulating hormone/luteinizing hormone
H. Pylori	Helicobacter pylori
HDL	High density lipoprotein
Hep C	Hepatitis C
HPV	Human papillomavirus
LDL	Low density lipoprotein
LED	Lower extremity disease
MEC	Mobile examination center
MRSA	Methicillin resistant staphylococcus aureus
NTX	N-telopeptides of bone type I collagen
OP	Organophosphates
PAHs	Polyaromatic hydrocarbons
PN	Peripheral neuropathy
PSA	Prostate specific antigen
PVD	Peripheral vascular disease
Qx	Questions
RBC	Red blood cell
STD	Sexually transmitted disease
TB	Tuberculosis
TH	Thyroxin
TIBC	Total iron binding capacity
Trich	<i>Trichomonas vaginalis</i>
TSH	Thyroid stimulating hormone
VOC	Volatile organic compounds



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# QUESTIONNAIRE COMPONENT MATRIX OF THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES) 1999-2004

Component	Age Range*	1999	2000	2001	2002	2003	2004
<b>SP Questionnaire</b>							
Acculturation (ACQ)	12 - 120						
Audiometry ( AUQ)	20 - 120						
Balance (BAQ)	40 - 120						
Blood Pressure (BPQ)	16 - 120						
Cardiovascular Disease (CDQ)	40 - 120						
Demographics (DMQ)	0 - 120						
Dermatology (DEQ)	6 - 120					Age 20-59	
Diabetes (DIQ)	1 - 120						
Diet Behavior and Nutrition (DBQ)	0 - 120						
Dietary Supplements & Medications (DSQ)	0 - 120						
Digit Symbol Substitution Test (CFQ)	60 - 120						
Early Childhood (ECQ)	0 - 15						
Hospital Utilization & Access to Care (HUQ)	0 - 120						
Immunization (IMQ)	0 - 120						
Introduction & Verification (IVQ)	0 - 120						
Kidney Conditions (KIQ)	20 - 120						
Medical Conditions (MCQ)	1 - 120						
Miscellaneous Pain (MPQ)	20 - 120						
Occupation (OCQ)	12 - 120						
Oral Health (OHQ)	2 - 120						
Osteoporosis (OSQ)	20 - 120						
Physical Activity & Physical Fitness (PAQ)	2 - 120						
Physical Functioning (PFQ)	1 - 120						
Respiratory Health (RDQ)	1 - 120						
Respondent Selection (RIQ)	0 - 120						
Smoking and Tobacco Use (SMQ)	20 - 120						
Social Support (SSQ)	60 - 120						
Tuberculosis (TBQ)	1 - 120						
Vision (VIQ)	20 - 120						
Weight History (WHQ)	16 - 120						
<b>Family Questionnaire</b>							
Demographic Background/Occupation (DMQ)	0 - 120						
Food Security (FSQ)	0 - 120						
Health Insurance (HIQ)	0 - 120						
Housing Characteristics (HOQ)	0 - 120						
Income (INQ)	0 - 120						
Pesticide Use (PUQ)	0 - 120						
Smoking (SMQ)	0 - 120						
Tracking and Tracing (TTQ)	0 - 120						

\* Note: Age range varies within each section.



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# EXAMINATION COMPONENT MATRIX OF THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES) 1999-2004

Component	Age Range	1999	2000	2001	2002	2003	2004
Audiometry	1/2 sample 20-69 years						
Balance	1/2 sample 40-69 years				Note A		
BIA	8-49 years						
Body Measurements	All ages						
CV Fitness	12-49 years						
DXA	8 years and older	Note B					
Dietary	All ages				Note C		
LED	40 years and older						
PVD	40 years and older						
PN	40 years and older						
Physical Functioning	50 years and older						
Isokinetic	50 years and older						
20 ft timed walk	50 years and older						
8 ft timed walk	50 years and older						
Vision	12 years and older						
Oral Health	2 years and older						
Exclusion qx	13 years and older						
Tooth count	2 years and older				Note D		
Coronal caries	2 years and older				Note E		
Dental sealants	2-34 years						
Incisal trauma	10-29 years						
Root caries	18 years and older						
Fluorosis	6-49 years						
Saliva	40 years and older		Note F				
Orofacial pain qx	10-69 years						
Orofacial pain exam	13-69 years						
Periodontitis							
Loss of attachment	18 years and older				Note G		
Gingival bleeding	12-49 years						
Periodontal bleeding	13 years and older						
Denture questionnaire	25 years and older						
Referral/follow-up	2 years and older				Note H		
Physician Exam	All ages						
Blood pressure	8 years and older						
STDs	14-49 years						
BV/Trich Females	14-49 years						
Syphilis, HIV	18-49 years						
PSA	Males 40 years and older						
HPV	Females 14-59 years						

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

Note B: The age range for females in 1999 was 18 years and older

Note C: New interview system; 100% 2nd day by phone

Note D: Added counting residual dental roots

Note E: Added identifying caries status on residual dental roots

Note F: Discontinued in the mid year of 2000

Note G: Age range changed to 13 years and older;

LOA measurement positions modified, a third site added

Note H: Added recommendations to seek care for removable dental prosthetics

Note I: Pilot testing in 2002, began in 2003



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# EXAMINATION COMPONENT MATRIX OF THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES) 1999-2004

Component	AGE RANGE	1999	2000	2001	2002	2003	2004
TB	1 year and older	█	█				
VOC badge	Subsample 20-59 years	█	█	█			
Hair Mercury	1-5 years, females 16-49	█	█				
MRSA	1 year and older			█	█	█	█
Hepatitis C Follow-up	All SPs with Hep C			█	█		
Dermatology	20-59 years				Note I		
PSA Follow-up	SPs with high PSA					█	
MEC Interview		█	█	█	█	█	█
CAPI		█	█	█	█	█	█
Physical activity	12-15 years	█	█	█	█	█	█
Current health status	12 years and older	█	█	█	█	█	█
Tobacco use	20 years and older	█	█	█	█	█	█
Alcohol use	20 years and older	█	█	█	█	█	█
Reproductive health	12 years and older, health	█	█	█	█	█	█
Kidney/uro health	20 years and older	█	█	█	█	█	█
ACASI		█	█	█	█	█	█
Sexual behavior	14-59 years	█	█	█	█	█	█
Drug use	14-59 years	█	█	█	█	█	█
Tobacco use	12-19 years	█	█	█	█	█	█
Alcohol use	12-19 years	█	█	█	█	█	█
Conduct disorder	12-19 years	█	█	█	█	█	█
Urologic health PSA	Males 20 and older			█	█	█	█
Mental Health		█	█	█	█	█	█
CIDI		█	█	█	█	█	█
Panic disorder	1/2 sample 20-39 years	█	█	█	█	█	█
Generalized Anxiety	1/2 sample 20-39 years	█	█	█	█	█	█
Depression	1/2 sample 20-39 years	█	█	█	█	█	█
CDISC		█	█	█	█	█	█
Panic and anxiety	8-19 years	█	█	█	█	█	█
Eating disorders	8-19 years		█	█	█	█	█
Depression	8-19 years		█	█	█	█	█
Parent CDISC			█	█	█	█	█
Eating disorder	Parent of 8-15 years		█	█	█	█	█
Depression	Parent of 8-15 years		█	█	█	█	█
ADHD	Parent of 8-15 years		█	█	█	█	█
Conduct disorder	Parent of 8-15 years		█	█	█	█	█
Elimination disorders	Parent of 8-11 years		█	█	█	█	█
Physical Activity Monitor	6 years and older				Note I		
Food Frequency	2 years and older				Note I		

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# LABORATORY COMPONENT MATRIX OF THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES) 1999-2004

Lab Test	Age Range	1999	2000	2001	2002	2003	2004
Complete Blood Count	1 year and older						
Lead	1 year and older						
Cadmium	1 year and older						
Erythrocyte Protoporphyrin	1 year and older					Note B	
RBC Folate	3 years and older					Note C	
Serum Folate	3 years and older					Note C	
Glycohemoglobin	12 years and older						
Mercury (hair)	1-5 years, females 16-49 years						
Mercury (blood)	1-5 years, females 16-49 years					Note C	
Mercury (urine)	Females 16-49 years						
CD4	18-49 years						
WBC/DNA	20 years and older						
VOC (blood)	Subsample 20-59 years						
Iron	1 year and older					Note B	
TIBC	1 year and older					Note B	
Ferritin	1 year and older					Note D	
Vitamin B12	3 years and older					Note C	
C-reactive protein	3 years and older					Note C	
<i>Helicobacter pylori</i>	3 years and older						
Cryptosporidium	6-49 years						
Vitamin A/E/Carotenoids	3 years and older					Note E	
Vitamin C	6 years and older						
Measles/Varicella/Rubella	6-49 years						
Cotinine	3 years and older						
Chemistry panel	12 years and older						
Bone alkaline phosphatase	8 years and older					Note F	
Toxoplasma	6-49 years	Note A					
Total Cholesterol	3 years and older						
HDL	3 years and older						
LDL	Subsample 3 years and older						
Acrylamide	3 years and older						

- Note A: Surplus Sera 1999-2000
- Note B: Age range changed to 3-5 years and females 12-49 years
- Note C: Age range changed to 1 year and older
- Note D: Age range changed to 1-5 years and females 12-49 years
- Note E: Age range changed to 6 years and older
- Note F: Age range changed to 8-49 years
- Note G: Age range changed to 1/2 sample 6-11 years and 1/3 sample 12 years and older
- Note H: Age range changed to 40 years and older



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# LABORATORY COMPONENT MATRIX OF THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES) 1999-2004

Lab Test	Age range	1999	2000	2001	2002	2003	2004
Triglycerides	Subsample 3 years and older						
HIV antibody	18-49 years						
Insulin/c-peptide	Subsample 12 years and older						
Herpes 1 and 2 antibody	14-49 years						
Syphilis	18-49 years						
HPV antibody	14-59 years						
PSA	Males 40 years and older						
FSH/LH	Females 35-60 years						
Latex	12-59 years						
Vitamin D	6 years and older	Note C					
TSH/TH	1/3 sample 12 years and older						
Parathyroid Hormone	6 years and older						
Transferrin Receptor	1-5 years, females 12-49 years						
Surplus Sera	3 years and older	Reduced # of vials					
Vitamin B6	1 year and older						
Homocysteine	3 years and older						
Methyl malonic acid	3 years and older						
Glucose plasma	Subsample 12 years and older						
Fibrinogen	40 years and older						
Hepatitis AntiHBs	2-5 years						
Hepatitis A, B, C, D HbSAg	6 years and older						
Selenium	3-11 years	Note H					
Chlamydia (urine)	14-39 years						
Gonorrhea (urine)	14-39 years						
Albumin (urine)	6 years and older						
Arsenic (urine)	1/3 sample 6 years and older						
Creatinine (urine)	6 years and older						
NTX	8 years and older						
Iodine (urine)	1/3 sample 6 years and older						
BV/Trich	Females 14-49 years						
MRSA	1 year and older						
VOC exposure monitor	Subsample 20-59 years						
Pthalates (7)	1/3 sample 6 years and older	Additional 3 Pthalates					
Organophosphates metabolites	1/3 sample 6 years and older						
Metals (13)	1/3 sample 6 years and older						
Nonpersistent pesticides	½ of 6-11 yrs, ¼ of 12-59 yrs	Note G					
Persistent Pesticides	1/3 sample 6 years and older						
Phytoestrogens (8)	1/3 sample 6 years and older						
PAHs (16)	1/3 sample 6 years and older						
Dioxins	1/3 sample 12 years and older						
Lead dust	Households with 1-5 year olds						



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