



National Health and Nutrition Examination Survey: 1999–2022 Survey Content Brochure



**Centers for Disease
Control and Prevention**
National Center for
Health Statistics

This Survey Content Brochure summarizes the available 1999–2022 National Health and Nutrition Examination Survey data.

The National Health and Nutrition Examination Survey (NHANES) is a program of studies designed to assess the health and nutritional status of adults and children in the United States. The survey is unique in combining interviews with physical examinations and laboratory tests.

For more information about NHANES, visit:
www.cdc.gov/nchs/nhanes.htm.

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Table 1. Questionnaire components: National Health and Nutrition Examination Survey, 1999–2022

		<div> <div>Component or laboratory test conducted on original sample description</div> <div>Change from original sample description</div> <div>Component or laboratory test not conducted</div> </div>											
Section	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	2015–2016	2017–2018	2019–2020	2021–2022
Survey participant (SP) questionnaire													
Acculturation (ACQ)	12 years and over												
Allergy (AGQ)	1 year and over												
Air quality (AQQ)	16 years and over												
Balance (BAQ)	40 years and over												
Blood pressure and cholesterol (BPQ)	16 years and over												
Cardiovascular disease (CDQ)	40 years and over												
Cognitive functioning (CFQ)	60 years and over												
COVID-19 (COQ)	All ages												
Demographics (DMQ)	All ages												
Dermatology (DEQ)	6–59 years												
Diabetes (DIQ)	1 year and over												
Diet behavior and nutrition (DBQ)	All ages												
Dietary screener module (DTQ)	2–11 years												
Dietary supplements (DSQ) and prescription medications (RXQ)	All ages												
Disability status (DLQ)	1 year and over												
Early childhood (ECQ)	Birth–15 years												
Functioning (FNQ)	5 years and over												
Health insurance (HIQ)	All ages												
Hearing/audiometry (AUQ)	1 year and over												
Hepatitis (HEQ)	6 years and over												
Hospital utilization and access to care (HUQ)	All ages												
Immunization (IMQ)	All ages												
Infant formula (IFQ)	Birth to 2 years												
Inflammatory arthritis pain (ARQ)	20–69 years												
Kidney conditions (KIQ)	20 years and over												
Medical conditions (MCQ)	1 year and over												
Miscellaneous pain (MPQ)	20 years and over												
Occupation (OCQ)	16 years and over												

NOTE: NHANES 2021–2022 is officially referred to as NHANES August 2021–August 2023.

Table 1. Questionnaire components: National Health and Nutrition Examination Survey, 1999–2022—Con.

<div><div></div> Component or laboratory test conducted on original sample description</div> <div><div></div> Change from original sample description</div> <div><div></div> Component or laboratory test not conducted</div>															
Section	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	2015–2016	2017–2018	2019–2020	2021–2022		
Oral health (OHQ)	2 years and over														
Osteoporosis (OSQ)	20 years and over														
Physical activity and physical fitness (PAQ)	2 years and over														
Physical functioning (PFQ)	1 year and over														
Respiratory health and disease (RDQ)	1 year and over														
Sleep disorders (SLQ)	16 years and over														
Smoking and tobacco use (SMQ)	20 years and over														
Social support (SSQ)	60 years and over														
Taste and smell (CSQ)	40 years and over														
Tuberculosis (TBQ)	1 year and over														
Vision (VIQ)	50 years and over														
Weight history (WHQ)	16 years and over														
Family questionnaire															
Consumer behavior (CBQ)	All ages														
Demographic background (HFQ) occupation (DMQ)	All ages														
Food security (FSQ)	All ages														
Health insurance (HIQ)	All ages														
Housing characteristics (HOQ)	All ages														
Income (INQ)	All ages														
Pesticide use (PUQ)	All ages														
Salt use (SUQ)	All ages														
Smoking household (SMQ)	All ages														
Mobile examination center (MEC) questionnaire															
Audio computer-assisted self-interview (ACASI)	8 years and over														
Alcohol use (ALQ)	12–19 years														
Alcohol use (ALQ)	20 years and over														
Current health status (HSQ)	1 year and over														
Drug use (DUQ)	12–69 years														

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Table 1. Questionnaire components: National Health and Nutrition Examination Survey, 1999–2022—Con.



		<div> <div>Component or laboratory test conducted on original sample description</div> <div>Change from original sample description</div> <div>Component or laboratory test not conducted</div> </div>											
Section	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	2015–2016	2017–2018	2019–2020	2021–2022
Food security (FSQ)	12–15 years												
Kidney conditions/urology (KIQ)	20 years and over												
Mental health	8 years and over												
Attention deficit hyperactivity disorder (ADHD)	8–15 years												
Anxiety	8–19 years												
Conduct disorders	8–19 years												
Depression	8–19 years												
Depression and depression screener (DPQ)	1/2 sample 20–39 years												
Eating disorders	8–19 years												
Elimination disorders	8–11 years												
Generalized anxiety	1/2 sample 20–39 years												
Panic disorder	8–19 years												
Panic disorder	1/2 sample 20–39 years												
Physical activity and physical fitness (PAQ)	12–15 years												
Prostate conditions (PSQ)	Males 20 years and over												
Pubertal maturation (PMQ)	8–19 years												
Sexual behavior (SXQ)	14–59 years												
Smoking and tobacco use (SMQ)—Youth	12–19 years												
Computer-assisted personal interview (CAPI)	8 years and over												
Bowel health (BHQ)	20 years and over												
Dietary screener module (DTQ)	12–69 years												
Muscle pain/creatine kinase (CKQ)	12 years and over												
Pesticide use (PUQMEC)	6 years and over												
Prostate conditions (KIQ)	Males 20 years and over												

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Table 1. Questionnaire components: National Health and Nutrition Examination Survey, 1999–2022—Con.



<div><div></div> Component or laboratory test conducted on original sample description</div> <div><div></div> Change from original sample description</div> <div><div></div> Component or laboratory test not conducted</div>														
Section	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	2015–2016	2017–2018	2019–2020	2021–2022	
Reproductive health (RHQ)	Females 12 years and over													
Smoking and tobacco use (SMQ)—Adult	20 years and over													
Volatile toxicants (VTQ)	1/2 sample 12 years and over													
Weight history—Youth (WHQMEC)	8–15 years													

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Table 2. Postexamination follow-up questionnaire components: National Health and Nutrition Examination Survey, 1999–2022



		 Component or laboratory test conducted on original sample description Change from original sample description Component or laboratory test not conducted											
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	2015–2016	2017–2018	2019–2020	2021–2022
Dietary, day 1	All ages												
Dietary, day 2	All ages												
Dietary supplement, day 2	All ages												
Dietary supplement use, 30 day	All ages												
Flexible consumer behavior survey module (FCBS) phone follow-up (CBQ)	1 year and over												
Food frequency (FFQ)	2 years and over												
Hepatitis C follow-up (HCQ)	6 years and over with Hepatitis C												
Prostate-specific antigen follow-up (PSQ)	Males 40 years and over with high results												

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Table 3. Examination components: National Health and Nutrition Examination Survey, 1999–2022

		<div> <div>Component or laboratory test conducted on original sample description</div> <div>Change from original sample description</div> <div>Component or laboratory test not conducted</div> </div>											
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	2015–2016	2017–2018	2019–2020	2021–2022
Arthritis body measures	20–69 years												
Audiometry	1/2 sample (20–69 years)												
Balance	1/2 sample (40–69 years)												
Bioelectrical impedance analysis	8–49 years												
Blood pressure	8 years and over												
Body measurements	All ages												
Cardiovascular (CV) fitness	12–49 years												
Cognitive functioning	60 years and over												
Dermatology	20–59 years												
Dietary	All ages												
Dietary supplement	All ages												
Dual energy x-ray absorptiometry	8 years and over												
Abdominal aortic calcification	40 years and over												
Body composition	8 years and over												
Bone density—Hip and spine	8 years and over												
Vertebral fracture assessment	40 years and over												
Grip strength test	6 years and over												
Liver ultrasound transient elastography	12 years and over												
Lower extremity disease	40 years and over												
Peripheral neuropathy	40 years and over												
Peripheral vascular disease	40 years and over												
Ophthalmology	40 years and over												
Retinal photo	40 years and over												
Visual fields	40 years and over												
Oral health	2 years and over												
Dental fluorosis imaging	6–19 years												
Physical activity monitor	6 years and over												
Muscle strength	50 years and over												

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		<div> <div>Component or laboratory test conducted on original sample description</div> <div>Change from original sample description</div> <div>Component or laboratory test not conducted</div> </div>											
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	2015–2016	2017–2018	2019–2020	2021–2022
8-foot timed walk	50 years and over												
20-foot timed walk	50 years and over												
Isokinetic	50 years and over												
Physician examination	All ages												
Respiratory health	6–79 years												
Exhaled nitric oxide	6–79 years												
Spirometry	6–79 years												
Taste and smell	40 years and over												
Tuberculin skin test	1 year and over												
Vision	12 years and over												

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Table 4. Laboratory components: National Health and Nutrition Examination Survey, 1999–2022

		<div> <div>Component or laboratory test conducted on original sample description</div> <div>Change from original sample description</div> <div>Component or laboratory test not conducted</div> </div>											
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	2015–2016	2017–2018	2019–2020	2021–2022
Acetylcholinesterase, RBC (blood)	6 years and over												
Acrylamide (blood)	3 years and over												
Acrylonitrile (blood)	1/3 sample (6 years and over)												
Albumin (urine)	6 years and over												
Albumin (home urine)	6 years and over												
Aldehydes (blood)	1/3 sample (12 years and over) and all smokers 18 and over												
Alpha-1-acid glycoprotein (AGP) (blood)	1–5 years and females 12–49 years												
Apolipoprotein (B) (blood)	1/2 sample 12 years and over (fasting)												
Aromatic amines (urine)	1/3 sample (6 years and over) and all smokers 18 and over												
Aromatic diamines/amines (formerly diisocyanates) (urine)	3–5 years and 1/3 sample (6 years and over)												
Arsenic and arsenic species (including metabolites) (urine)	1/3 sample (6 years and over)												
Butyrylcholinesterase activity and concentration (blood)	6 years and over												
Bone alkaline phosphatase (blood)	8 years and over												
BV/trichomonas bacterial vaginosis (BV)/trichomonas (urine)	Females 14–49 years												
Cadmium (blood) (urine)	1 year and over												
Caffeine and caffeine metabolites (urine)	1/3 sample (6 years and over)												
CD4/CD8 (blood)	18–49 years, HIV+, and controls												
Celiac disease (tTG-EMA) (blood)	6 years and over												

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Table 4. Laboratory components: National Health and Nutrition Examination Survey, 1999–2022—Con.

<div><div>Component or laboratory test conducted on original sample description</div><div>Change from original sample description</div><div>Component or laboratory test not conducted</div></div>														
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	2015–2016	2017–2018	2019–2020	2021–2022	
Chemistry panel (standard biochemistry panel) (blood)	12 years and over													
Chlamydia (urine)	14–39 years													
Cholesterol (total) (blood)	3 years and over													
High density lipoprotein (HDL)	3 years and over													
Low density lipoprotein (LDL)	3 years and over (fasting)													
Chromium/cobalt (blood)	40 years and over													
Complete blood count (blood)	1 year and over													
Cotinine (blood)	3 years and over													
Cotinine and nicotine analogs (urine)	1/3 sample (6 years and over)													
COVID-19 serology (blood)	1 year and over													
C-reactive protein (CRP)\High-sensitivity C-reactive protein (HSCRp) (blood)	3 years and over													
Creatine phosphokinase (blood)	12 years and over													
Creatinine (urine)	6 years and over													
Creatinine (home urine)	6 years and over													
Cryptosporidium (blood)	6–49 years													
Cytomegalovirus (blood)	1–5 years													
Dust allergens	1 year and over													
Enterovirus (EVD-68) (blood)	1–11 years													
Environmental phenols (urine)	1/3 sample (6 years and over)													
Erythrocyte protoporphyrin (blood)	1 year and over													
Fatty Acids, washed RBCs (blood)	6 years and over													
Ferritin (blood)	1 year and over													
Fibrinogen (blood)	40 years and over													
Flame Retardants (urine)	3–5 years, 1/3 sample (6 years and over)													
Fluoride (blood - plasma)	6–19 years													

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Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	2015–2016	2017–2018	2019–2020	2021–2022
Fluoride (water)	Birth–19 years												
Fluoride (urine)	6–19 years												
Folate (RBC) (blood)	3 years and over												
Folate (blood)	3 years and over												
Folate Forms, washed RBCs (blood)	6 years and over												
Fungicides (urine)	1/2 sample (6–11 years)												
Glucose (blood)	12 years and over												
Glycohemoglobin (blood)	12 years and over												
Gonorrhea (urine)	14–39 years												
Halogenated phenolic compounds/ environmental pesticides (blood)	1/2 sample (6–11 years)												
Helicobacter pylori (blood)	3 years and over												
Hepatitis (antiHBs) (blood)	2 years and over												
Hepatitis A, B, C, D, E (blood)	6 years and over												
Herbicides—Substituted ureas and others (urine)	1/2 sample (6–11 years)												
Herpes 1 and 2 antibody (blood)	14–49 years												
Heterocyclic aromatic amines (urine) (tobacco markers)	1/3 sample (6 years and over) and all smokers 18 and over												
HLA-B27 (inflammatory arthritis) (blood)	20–69 years												
Homocysteine (blood)	3 years and over												
Human immunodeficiency virus (HIV) antibody (blood)	18–49 years												
Human papillomavirus (HPV) (oral rinse)	14–69 years												
Human papillomavirus (HPV) (blood)	14–59 years												
Human papillomavirus (HPV) (swab)	Females 14–59 years												
Human papillomavirus (HPV) (swab)	Males 14–59 years												
Immunoglobulin E-allergens (blood)	1 year and over												

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Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	2015–2016	2017–2018	2019–2020	2021–2022
Insulin/C-peptide (blood)	12 years and over (fasting)												
Iodine (urine)	1/3 sample (6 years and over)												
Iodine (salt)	3–5 years and 1/3 sample (6 years and over)												
Iron (blood)	12 years and over												
Iron Panel—Iron, Total iron-binding capacity (TIBC)/transferrin saturation (blood)	1 year and over												
Latex (blood)	12–59 years												
Lead (blood)	1 year and over												
Lead (urine)	1/3 sample (6 years and over)												
Lead dust	1–5 years												
Liver genetics (blood)	18 years and over												
Lp(a) (Lipoprotein(a)) (blood)	12 years and over (fasting)												
Magnesium (blood)	12 years and over												
Manganese (blood)	1 year and over												
Manganese (urine)	1/3 sample (6 years and over)												
Measles/varicella/rubella (blood)	6–49 years												
Mercury (hair)	1–5 years, females 16–49 years												
Mercury (urine)	Females 16–49 years												
Mercury, total and speciated (blood)	1–5 years, females 16–49 years												
Metals (blood)	1/3 sample (6 years and over)												
Metals (urine)	1/3 sample (6 years and over)												

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		<div> <div>Component or laboratory test conducted on original sample description</div> <div>Change from original sample description</div> <div>Component or laboratory test not conducted</div> </div>											
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	2015–2016	2017–2018	2019–2020	2021–2022
Methicillin resistant staphylococcus aureus (MRSA) (blood)	1 year and over												
Methylmalonic acid (blood)	3 years and over												
Neonicotinoids (urine)	3–5 years, 1/3 sample (6 years and over)												
Nicotine analogs (urine)	1/3 sample (6 years and over) and all smokers 18 years and over												
NNAL (urine)	6 years and over												
Nondioxin-like polychlorinated biphenyls (blood) (pooled)	1/3 sample (12 years and over)												
Nondioxin-like polychlorinated biphenyls (blood)	1/3 sample (12 years and over)												
N-teleopeptide (NTX) (blood)	8 years and over												
Oral glucose tolerance (OGTT) (blood)	12 years and over (fasting)												
Organophosphate insecticides (urine)	1/2 sample (6–11 years) and 1/3 sample (12 years and over)												
Osmolality (urine)	6 years and over												
Parathyroid hormone (blood)	6 years and over												
Perchlorate/thiocyanate/nitrates (urine)	1/3 sample (6 years and over)												
Perchlorate (water)	1/2 sample 12 years and over												
Personal care and consumer product chemicals and metabolites (urine)	1/3 sample (6 years and over)												
Pesticides (urine) (pooled)	1/3 sample (6 years and over)												
Pesticides (urine)	1/3 sample (6 years and over)												

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Table 4. Laboratory components: National Health and Nutrition Examination Survey, 1999–2022—Con.

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Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	2015–2016	2017–2018	2019–2020	2021–2022
Organochlorine (blood)	1/3 sample (12 years and over)												
Pyrethroid (urine)	1/3 sample (6 years and over)												
Phthalates (urine)	1/3 sample (6 years and over)												
Phytoestrogens (urine)	1/3 sample (6 years and over)												
Polyaromatic hydrocarbons (PAH) (urine)	1/3 sample (6 years and over)												
Polybrominated diphenyl ethers (blood) (pooled)	1/3 sample (12 years and over)												
Polybrominated diphenyl ethers (blood)	1/3 sample (12 years and over)												
Polychlorinated and polybrominated dibenzo-p-dioxins, dibenzo-furans, coplanar and mono-ortho-substituted biphenyls (blood) (pooled)	1/3 sample (12 years and over)												
Polychlorinated and polybrominated dibenzo-p-dioxins, dibenzo-furans, coplanar and mono-ortho-substituted biphenyls (blood)	1/3 sample (12 years and over)												
Perfluoroalkyl and polyfluoroalkyl substances (blood)	1/3 sample (12 years and over)												
Polyunsaturated fatty acids (blood)	3 years and over												
Prostate specific antigen (PSA) (blood)	Males 40 years and over												
Selenium (blood)	1 year and over												
Selenium/copper/zinc (blood)	1/3 sample (6 years and over)												
Sex steroid hormone panel (blood)	3 years and over												
17α-hydroxyprogesterone	6 years and over												
Androstenedione	6 years and over												
Anti-Müllerian hormone	6 years and over												

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		<div> <div>Component or laboratory test conducted on original sample description</div> <div>Change from original sample description</div> <div>Component or laboratory test not conducted</div> </div>											
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	2015–2016	2017–2018	2019–2020	2021–2022
Dehydroepiandrosterone	6 years and over												
Estradiol	6 years and over												
Estrone	6 years and over												
Estrone sulfate	6 years and over												
Follicle-stimulating hormone/ luteinizing hormone (FSH/LH)	Females 35–60 years												
Progesterone	6 years and over												
Sex hormone binding globulin	6 years and over												
Testosterone	6 years and over												
Stored sera (blood)	6 years and over												
Stored urine (urine)	6 years and over												
Syphilis (blood)	18–49 years												
Terpenes (blood)	1/3 sample (6 years and over for 2021) and 1/2 sample (6 years and over for 2022)												
Thyroid function testing (blood)	1/3 sample (12 years and over)												
Tobacco-specific nitrosamines (urine)	1/3 sample (6 years and over) and all smokers 18 and over												
Toxoplasma (blood)	6–49 years												
Trans fatty acids (blood)	3–11 years, a.m. 12 years and over												
Transferrin receptor (blood)	1–5 years, females 12–49 years												
Trichomonas (urine)	14–59 years												
Triglycerides (blood)	Subsample 3 years and over												
Tuberculosis (blood)	6 years and over												
Urine flow rate calculation (urine)	6 years and over												

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Table 4. Laboratory components: National Health and Nutrition Examination Survey, 1999–2022—Con.

		<div> <div>Component or laboratory test conducted on original sample description</div> <div>Change from original sample description</div> <div>Component or laboratory test not conducted</div> </div>											
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	2015–2016	2017–2018	2019–2020	2021–2022
Vitamin A/E/carotenoids (blood)	3 years and over												
Vitamin B6 (blood)	1 year and over												
Vitamin B12 (blood)	3 years and over												
Vitamin C (blood)	6 years and over												
Vitamin D (blood)	6 years and over												
Volatile N-nitrosamines (urine)	1/3 sample (6 years and over) and all smokers 18 and over												
Volatile organic compounds (VOC) (blood)	Subsample 20–59 years												
Volatile organic compounds (VOC) exposure monitor (blood)	Subsample 20–59 years												
Volatile organic compounds (VOC) (urine)	Subsample (6 years and over) and all adult smokers												
Volatile organic compounds (VOC) (water)	Subsample 20–59 years												
White blood cells/deoxyribonucleic acid (WBC/DNA) (blood)	20 years and over												

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NHANES Data Access

Data are posted for free download on the NHANES website: www.cdc.gov/nchs/nhanes.htm.

Research Data Center

The National Center for Health Statistics (NCHS) is responsible for protecting the confidentiality of all survey respondents, including NHANES respondents. To reduce the risk of disclosure, not all available data are released to the public. Secure access to restricted data may be granted through NCHS' Research Data Center (RDC). All researchers who are interested in using NHANES restricted data must submit a research proposal outlining the need for more sensitive data. Once approved, analysts from RDC work with researchers to create a data file specific to the research question. These data sets are never released to the researcher, but several modes of secure unidentifiable access are available. For more information about accessing NHANES data through RDC, including the format for the research proposal, the type of data available, and the estimated cost of access, visit: www.cdc.gov/rdc/.

Confidentiality—Maintaining study participant confidentiality is the primary objective of RDC. Together, the confidentiality orientation, confidentiality forms, and disclosure manual outline practices that are essential to protecting the data and preventing disclosure of confidential information. The research team and other authors listed in the proposal must complete the Confidentiality Orientation and Confidentiality forms.

Disclosure Review—RDC disclosure review policies and procedures exist to protect the confidentiality of NCHS study participants. Your output will be reviewed by an RDC staff member for disclosure concerns. It is your responsibility to use these statistics in a way that does not pose additional risk to the respondents.

Federal Statistical Research Data Centers—The Federal Statistical RDCs are partnerships between federal statistical agencies and leading research institutions. They are secure facilities managed by the U.S. Census Bureau to provide secure access to a range of restricted-use microdata for statistical data use purposes only. For more information, visit: www.census.gov/fsrdc.

Data Linkage

For information about NCHS data linkage, visit: www.cdc.gov/nchs/data-linkage/index.htm.