Understanding and Analyzing Data From NHANES Overview and Basic Analyses







Centers for Disease Control and Prevention National Center for Health Statistics



SAFER • HEALTHIER • PEOPLE™

First Step

- Review the tutorial
- Easiest way to learn about NHANES
 - Hands on

Why was this tutorial created?

- NCHS & the National Cancer Institute (NCI) developed the web-based tutorial to
 - meet growing demands of NHANES data users
 - promote broader & more proficient use of NHANES data

How the Tutorial Works

- Main tutorial made up of 17 modules
- Modules organized into four courses
 - Survey Orientation
 - Preparing Analytic Dataset
 - Survey Design Factors
 - Analyzing Data

What does the tutorial provide?

- Simulates a real life experience conduct analytical project from beginning to end
- Relevant NHANES data information & nuances
- Tips & explanations for SAS, SUDAAN and STATA programs
- Downloadable sample program code & analytical guidance

Tutorial: Multiple Tutorials

Survey

Main Tutorial

Dietary Data

Environmental Data

NHANES I, II & III

NHANES CMS Linked Data

Physical Activity & CV Fitness



How the Tutorial Works

- Each module is free-standing
- Can start anywhere & move around as you wish
 - later modules often build on previous ones
 - greater level of statistical & epidemiologic knowledge assumed for later modules

How the Tutorial Works, cont'd

- Format varies, depending on the module type
- Navigational layout split screen
 - tutorial is on the left
 - live NHANES website on the right
- Analytic layout
 - Annotated code
- Animations available in each lay-out

Challenges

- Deadline and Finite Resources
- Quantity and complexity of the information
- Novice vs experienced users
- NHANES vs SAS/SUDAAN focus
- Moving target Web redesign and Data updates

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National Health	and Nutrition Examination Survey	1
National Health and Nutrition Examination Survey	NCHS Home > Surveys and Data Collection Systems	
About NHANES	Recommend 102 Tweet 63 🗄 Share	
What's New	The National Health and Nutrition Examination Survey (NHANES) is a program of studies	What's New
Questionnaires, Datasets, and Related Documentation	designed to assess the health and nutritional status of adults and children in the United States. The survey is unique in that it combines	Publications The National Health and Nutrition
Tutorials	interviews and physical examinations.	Examination Survey: Sample Design, 1999–2006 🔂 [PDF - 1.41 MB]
Proposal Guidelines	Sen ed Participants	Health Characteristics of Medicare
Survey Results and Products	Have yes selected to take part in the National Hesselected to take part in the	Traditional Fee-for-Service and Medicare Advantage Enrollees: 1999–2004 National
Listserv	Surver Use navigation panel	Health and Nutrition Examination Survey Linked to 2007 Medicare Data 🔂 [PDF -
	Inform to view tutorials	 178 KB] Osteoporosis or Low Bone Mass at the
Related Sites	benefits with the National Health and Nutrition	Femur Neck or Lumbar Spine in Older
Growth Charts	Examination Survey	Adults: United States, 2005–2008 • Total and High-density Lipoprotein
Surveys and Data Collection Systems	NHANES National Youth Fitness Survey	Cholesterol in Adults: National Health and Nutrition Examination Survey, 2009–2010
Research Data Center	The NHANES National Youth Fitness Survey (NYFS) collects data on exercise and the nutrition habits of U.S. youth through	 Infectious Disease Prevalence in Los Angeles County–A Comparison to National Estimates, 1999–2004

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	Using the Tutoria	ls	
	NHANES Web Tutorial	NCHS Home > Tutorials > NHANES Web Tutorial	
•	Using the Tutorials		
	Introduction	Recommend Tweet 🔁 Share	
	Jump Start Guide	Poforo vou cot startodu	
	Tech Tips	Before you get started:	
	Continuous	Introduction Read this page to find answers to frequently asked questions about this	Technical & Software Requirements Find out what's required to view the tutorials correctly
	NHANES III	tutorial.	and run the sample programs properly.
	NHANES II	Jump Start Guide Get a jump on the features	How It Works Learn how make the tutorial
	NHANES I	of this tutorial and how to use them.	work for you!
	NHANES Dietary		
	NHANES Physical Activity and Cardiovascular Fitness Data Tutorial	Tech Tips A second technical issues using the tutorial? Use the second technical issues using the them.	Course Credit Find out how you can get continuing professional credit for this tutorial.
	NHANES Environmental Chemical Data	Use Jump Start Guid	eb Tutorial email. Do not direct
	NHANES-CMS Linked Data Tutorial	questions to	feedback and we will not be able to reply.
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Jump Start Guide	e	
NHANES Web Tutorial	NCHS Home > Tutorials > NHANES Web Tutorial > Using the Tutorials	
Using the Tutorials		
Introduction	Recommend Tweet Share	
▶Jump Start Guide	This guide will show you how to use the tutorial to get the most out of your exp	perience. This guide
How the Tutorials Work	covers several areas:How the Tutorials Work	
Technical & Software Requirements	Find out how to use the main templates, features and activities in these tu this link as a quick guide to orient yourself for maximum efficiency.	itorials, and use
Knowledge & Skill Requirements	 Technical & Software Requirements Find out what technical and software requirements are required to view th 	e tutorials correctly,
Tech Tips	as well as run the sample programs properly.	
Continuous	Knowledge & Skill Requirements	
NHANES III	Find out what basic knowledge and skills are required to use these tutoria	ls as self-learning
NHANES II		
NHANES I		
NHANES Dietary	Use Navigation	
NHANES Physical Activity and Cardiovascular Fitness Data Tutorial	Panel to pick tutorials	
NHANES Environmental		

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Continuous NHANES Web Tutorial	NCHS Home > Tutorials > Continuous NHANES Web	
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Survey Orientation		
1. Survey Overview	Continuous NHANES III The Survey Orientation course includes three r	NHANES II NHANES I
2. Navigate NHANES Website	Module 1. Survey Overview	nodules.
3. Data Structure & Contents	Module 2. <u>Navigate NHANES Website</u> Module 3. <u>Data Structure & Contents</u>	
Preparing an Analytic Dataset	since 1999, its website and data structure. NH organized and released in separate data files	
Survey Design Factors	organized according to certain conventions. Th	
NHANES Analyses	be more efficient in finding the information you	and how the data files are organized will help you need for your analysis.
Sample Code		nalyst, we recommend that you review this entire
A-Z index	course before starting the tutorial, as these th	ree modules serve as a roadmap that will help you
Course Registration	get oriented quickly or refresh your knowledge	of NHANES.
FAQs	Users who wish to pick and choose topics of ir	
Objectives	navigation bar to the left or by using the <u>Tutor</u>	ial A-Z Index.
Links		re you will learn about the history and methodology ch NHANES data have been used in the past. In the

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Preparing an Ana	lytic Dataset Course	
Continuous NHANES Web Tutorial	NCHS Home > Tutorials > Continuous NHANES Web Tutorial	
Using the Tutorial	Recommend Tweet Share	
Survey Orientation		
Preparing an Analytic Dataset	Continuous NHANES III NHANES II NHANES I The Preparing an Analytic Dataset course includes six modules: Image: Continuous includes six modules six modules includes six modules six modules includes	
4. Locate Variables	Mon <u>4 Locate Variables</u>	
5. Download Data	Module wnload Data Files	
6. Merge & Append Datasets	Module <u>d & Merge Datasets</u> Module 7 <u>sode Data</u>	
7. Review Data & Create	Md • courses for NH99+	
New Variables	If (continuous)	llos in
8. Format & Label Variables	se • COURSES FOR NH I, II & III he different tasks and steps in each	module,
9. Save a Dataset	yo share analytic course re process an analyst goes through where process and analyst	en
Survey Design Factors	If you are an experienced analyst who only needs specific information to help you compl	ete an
NHANES Analyses	analysis on your own, you can pick and choose topics of interest from the navigation ba	r to the
Sample Code	left, or from the <u>Tutorial A-Z Index</u> . You may also go to the <u>Sample Code and Datasets p</u> download and modify sample programs and datasets for your own use.	age to
A-Z index	The computer software, knowledge, and skills requirements are listed for your convenie	nce on the
Course Registration	<u>Software & Technical Requirements page</u> . The <u>Tech Tips page</u> can help you troubleshoot	

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Survey Orientation Course

Continuous NHANES Web Tutorial	NCHS Home > Tutorials > Continuous NHANES Web Tutorial	Print page
Using the Tutorial	£ 👽 💶	Contact Us:
Survey Orientation		🐔 National Center for
1. Survey Overview	Continuous NHANES III NHANES II NHANES I The Survey Orientation course includes three modules:	Health Statistics 3311 Toledo Rd
2. Navigate NHANES Website	Module 1. <u>Survey Overview</u>	Hyattsville, MD 20782 1 (800) 232-4636
3. Data Structure & Contents	Module 2. <u>Navigate NHANES Website</u> Module 3. <u>Data Structure & Contents</u> These three modules provide a general overview of the Continuous NHANES survey conducted since	✓ <u>cdcinfo@cdc.qov</u>
Preparing an Analytic Dataset	1999, its website and data structure. NHANES contains a vast amount of data that is organized and released in separate data files on the NHANES website. These data files are organized according to certain conventions. Therefore, a thorough understanding of how information is laid out on the	
Survey Design Factors	NHANES website and how the data files are organized will help you be more efficient in finding the	
NHANES Analyses	information you need for your analysis.	
Sample Code	Whether you are a novice or an experienced analyst, we recommend that you review this entire course before starting the tutorial, as these three modules serve as a roadmap that will help you get oriented	
A-Z index	quickly or refresh your knowledge of NHANES.	
Course Registration	Users who wish to pick and choose topics of interest in this course may do so by using the navigation	
FAQs	bar to the left or by using the <u>Tutorial A-Z Index</u> .	
Objectives	The course begins with Survey Overview, where you will learn about the history and methodology of NHANES as well as some of the ways in which NHANES data have been used in the past. In the next	
(and the second	module, Navigate the NHANES Website, you will learn where to find different documents, how to	
Related Sites	access datasets, and how to get help with NHANES data. Finally, Data Structure & Contents will show you how the data are organized.	
NHANES III Web Tutorial		
NHANES II Web Tutorial	The requirements for computer software, knowledge and skills are listed for your convenience on the <u>Software & Technical Requirements page</u> . The <u>Tech Tips page</u> can help you troubleshoot if you run into	
NHANES I Web Tutorial	technical difficulties. Before beginning the course, please see the Jump Start Guide for more	
NHANES Dietary Data Tutorial	information about how to use the tutorial and its features. To learn more about the CEU, CME, and CNE credit/contact hours offered for this course, see the <u>Course Registration page</u> .	
NHANES Phyical Activity		

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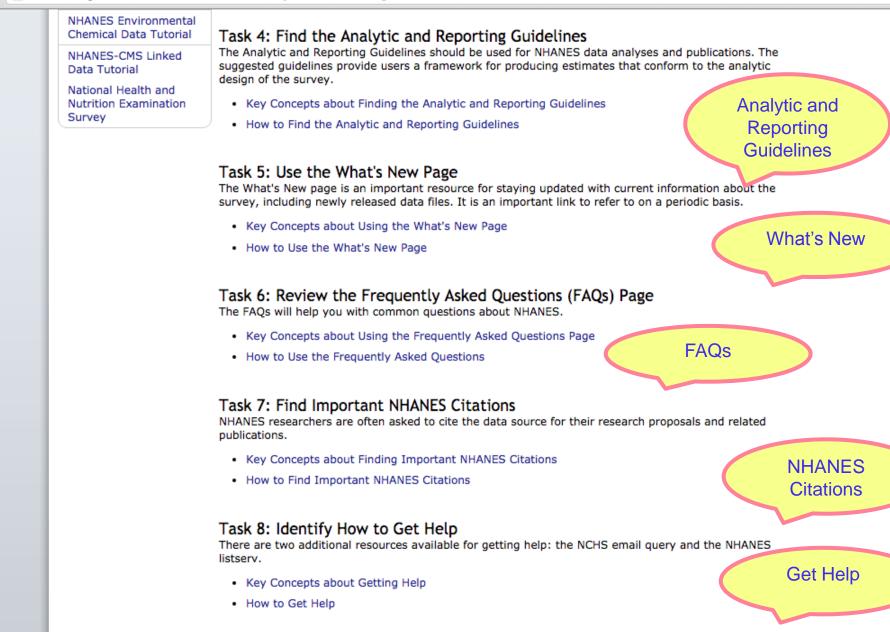
www.cdc.gov/nchs/tutorials/nhanes/SurveyOrientation/SurveyOverview/intro.htm

Continuous NHANES Web Tutorial	NCHS Home > Tutorials > Continuous NHANES Web Tutorial > Survey Orientation	🖨 Print page
Using the Tutorial	F 👽 💶	Contact Us:
Survey Orientation		📬 National Center for
▶1. Survey Overview	All NHANES	Health Statistics 3311 Toledo Rd
2. Navigate NHANES Website	Purpose This module provides an overview of the National Health and Nutrition Examination Surveys (NHANES)	Hyattsville, MD 20782 1 (800) 232-4636
3. Data Structure & Contents	by briefly describing the surveys history, methodology, and uses of the data.	cdcinfo@cdc.gov
Preparing an Analytic Dataset	Task 1: Review Survey History	
Survey Design Factors	Since 1959, the National Center for Health Statistics (NCHS) has been continuously monitoring the health status of the US population through a nationally representative survey utilizing health interview	Survey
NHANES Analyses	and physical examination data. The populations surveyed and questionnaire topics have evolved over time to accommodate a variety of public health and research priorities.	History
Sample Code		Thotory
A-Z index	Key Concepts about Survey History	
Course Registration		
FAQs	Task 2: Describe Survey Methodology	
Objectives	The NHANES program is unique in that it combines interviews with physical examinations and laboratory studies. NHANES adopted these three data collection modes to maximize the efficiency, quality, and accuracy of data collected.	
Related Sites	Key Concepts about Survey Methodology	
NHANES III Web Tutorial		
NHANES II Web Tutorial	Task 3: Explain Uses of the Data	
NHANES I Web Tutorial	The US Public Health Service, other federal agencies, and a wide range of researchers are major users	
NHANES Dietary Data Tutorial	 of NHANES data. These data have been central to the formulation of public health policy and practice. Key Concepts about Uses of the Data 	
NHANES Phyical Activity and Cardiovascular Fitness Data Tutorial		ses of the
NHANES Environmental Chemical Data Tutorial		Data
NHANES-CMS Linked Data Tutorial		
National Health and Nutrition Examination		

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	Navigate NHANES	Website	
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	Continuous NHANES Web Tutorial	NCHS Home > Tutorials > Continuous NHANES Web Tutorial > Survey Orientation	Print page
	Using the Tutorial		Contact Us:
	Survey Orientation		🚮 National Cent
	1. Survey Overview		Health Statist 3311 Toledo F
	2. Navigate NHANES Website	Purpose The NHANES website is the most important data source and analytical resource for all data users	Hyattsville, M
	3. Data Structure & Contents	Since the website contains both historic and current datasets, and covers a wide range of critica topics, it is very important to learn how to navigate this website and use these resources effective topics.	
	Preparing an Analytic Dataset	Task 4. Newigets the NULANIES Lienseners	
	Survey Design Factors	Task 1: Navigate the NHANES Homepage By getting acquainted with the NHANES homepage, you will gain an appreciation for the number	r and
	NHANES Analyses	diversity of materials available through the NHANES website.	
	Sample Code	Key Concepts about Navigating the NHANES Homepage	
	A-Z index	How to Navigate the NHANES Homepage Navigate	
	Course Registration		
	FAQs	Task 2: Find Datasets	
	Objectives	All publicly available data and related documentation are released and updated on the NHANES website. Information on accessing non-publicly released data is also available on the NHANES w	ebsite. Find
	Related Sites	 Key Concepts about Datasets on the NHANES Website 	
	NHANES III Web Tutorial	How to Find Publicly Released Datasets and Information on Non-publicly Released Datasets	Datasets
	NHANES II Web Tutorial		
	NHANES I Web Tutorial	Task 3: Find Survey Background Information	
	NHANES Dietary Data Tutorial	Reviewing the NHANES survey background information is an important step as you determine the scope of your analysis and which variables to include.	1 11 10
	NHANES Phyical Activity	 Key Concepts about Finding Survey Background Information 	Background
	and Cardiovascular Fitness Data Tutorial	How to Find Survey Background Information	Information

www.cdc.gov/nchs/tutorials/NHANES/SurveyOrientation/navigate/intro.htm



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Data Structure & Contents

Continuous NHANES Web Tutorial	NCHS Home > Tutorials > Continuous NHANES Web Tutorial > Survey Orientation	🚔 Print page
Using the Tutorial	f 😏	Contact Us:
Survey Orientation		🚮 National Ce
1. Survey Overview	Continuous NHANES III NHANES II NHANES I	Health Stati 3311 Toledo
2. Navigate NHANES Website	Purpose This module describes how Continuous NHANES data are structured and organized.	Hyattsville,
▶3. Data Structure & Contents		cdcinfo@cdo
Preparing an Analytic Dataset	Task 1: Explain NHANES Data Structure Before you begin a search for any specific survey contents on the website, you should first understand	
Survey Design Factors	the organizing principles of the NHANES data structure.	
NHANES Analyses	Key Concepts about the Data Structure Data Structure	
Sample Code		
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Preparing an Analytic Dataset Course

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Using the Tutorial Survey Orientation	f У 🕂	Contact Us:
Preparing an Analytic Dataset	Continuous NHANES III NHANES II NHANES I The Preparing an Analytic Dataset course includes six modules: Image: Continuous includes six modules includes six	National Cent Health Statist 3311 Toledo Hyattsville, M
4. Locate Variables	Module 4. Locate Variables	1 (800) 232-4
5. Download Data	Module 5. <u>Download Data Files</u> Module 6. Append & Merge Datasets	cdcinfo@cdc.
6. Merge & Append Datasets	Module 7. <u>Clean & Recode Data</u> Module 8. <u>Format & Label Variables</u> Module 9. Save Dataset	
7. Review Data & Create New Variables	If you are new to NHANES data analysis, we encourage you to approach these six modules in	
8. Format & Label Variables	sequence. By choosing to go sequentially through the different tasks and steps in each module, you will follow an order that resembles the real life process an analyst goes through when preparing an analytic dataset.	
9. Save a Dataset	If you are an experienced analyst who only needs specific information to help you complete an analysis	
Survey Design Factors	on your own, you can pick and choose topics of interest from the navigation bar to the left, or from the	
NHANES Analyses	Tutorial A-Z Index. You may also go to the <u>Sample Code and Datasets page</u> to download and modify sample programs and datasets for your own use.	
Sample Code	The computer software, knowledge, and skills requirements are listed for your convenience on the	
A-Z index	Software & Technical Requirements page. The Tech Tips page can help you troubleshoot if you run into	
Course Registration	technical difficulties. Before beginning the course, please see the <u>Jump Start Guide</u> for more information about how to use the tutorial and its features. To learn more about the CEU, CME, and	
FAQs	CNE credit/contact hours offered for this course, see the Course Registration page.	
Objectives		
Related Sites		
NHANES III Web Tutorial		

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Locate Variables

Continuous NHANES Web Tutorial	NCHS Home > Tutorials > Continuous NHANES Web Tutorial > Preparing an Analytic Dataset	🔒 Print page
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Survey Orientation		🚮 National Cer
Preparing an Analytic Dataset	Continuous NHANES III NHANES II NHANES I Purpose	Health Stati 3311 Toledo Hyattsville,
▶4. Locate Variables	Variables and the information about the variables is stored in various types of data and documentation	1 (800) 232
5. Download Data	files. You need to know what information is in these files and how to access them to prepare for your analysis. You use this documentation to decide which variables to include in your analysis, identify the	cdcinfo@cdo
6. Merge & Append Datasets	variable names and file locations, and consult the data file documentation for detailed data processing and analytic information.	
7. Review Data & Create New Variables	Task 1: Decide which variables to include Your analysis will require a subset of the variables available in NHANES. To decide which variables are	
8. Format & Label Variables	 needed in your analysis, you need to review the survey documentation. Key Concepts about Deciding Which NHANES Variables to Include 	Which
9. Save a Dataset	How to Decide Which NHANES Variables to Include	variables
Survey Design Factors		
NHANES Analyses	Task 2: Identify variable names and file locations Variables are stored in different components. Use the variable list of each component to identify the	
Sample Code	variable names and file locations.	
A-Z index	- Key concepts about racitarying variable names and the cocacions	tify variable
Course Registration	How to Identify Variable Names and File Locations	nes and file
FAQs	Task 3: Consult the documentation	ocations
Objectives	Before analyzing the data, you will need to know how the variable is coded, data editing, processing,	
	and collection information, and the frequency (or sample size) of the variable. This information is found in the documentation.	documentat
Related Sites		
NHANES III Web Tutorial	⁽ⁱ⁾ IMPORTANT NOTE You cannot determine whether a variable is appropriate to use in your analysis without consulting the	
NHANES II Web Tutorial	data file documentation. Variables may have similar names, be auxiliary, or used for excluding sample	
NHANES I Web Tutorial	persons from certain measures. Read the documentation.	
NHANES Dietary Data Tutorial	Key Concepts about Consulting Data File DocumentationHow to Consult the Data File Documentation	
NHANES Phylical Activity		

Download Data Sets

• 2009-2010

- Demographic: demo_f
- Body measures: bmx_f
- Total nutrients day 1: dr1tot_f
- 2011-2012
 - Demographic: demo_g
 - Body measures: bmx_g
 - Total nutrients day 1: dr1tot_g

Run SAS on your own computer

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www.cdc.gov/nchs/tutorials/NHANES/SurveyDesign/intro.htm

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Survey Design Factors Course

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Survey Orientation		🚯 National Cer
Preparing an Analytic Dataset	Continuous NHANES III NHANES II NHANES I The Survey Design Factors course includes three modules:	Health Statis 3311 Toledo Hyattsville, I
Survey Design Factors	Module 10. Sample Design	1 (800) 232
10. Sample Design	Module 11. Weighting Module 12. Variance Estimation	cdcinfo@cdc
11. Weighting	These three modules provide an overview of the design features for the Continuous NHANES samples,	
12. Variance Estimation	as well as how to correctly account for these design features in analyses.	
NHANES Analyses	The Sample Design module describes the complex sampling design of NHANES, which includes multi-	
Sample Code	stage, unequal probability, and cluster sampling methods. This module also explains how to specify sampling parameters in an analysis. The Weighting module describes how NHANES weights are	
A-Z index	calculated to take into account survey nonresponse, oversampling, post-stratification, and sampling	
Course Registration	error. More importantly, this module teaches how to select the correct weights for an analysis. The Variance Estimation module introduces methods to calculate variance estimates and degrees of	
FAQs	freedom.	
Objectives	These modules will provide analysts who are new to NHANES with an in-depth knowledge of the survey™s sampling and weighting procedures and basic tools for calculating variance estimates.	
Related Sites	The computer software, knowledge, and skills requirements are listed for your convenience on the	
NHANES III Web Tutorial	<u>Software & Technical Requirements page</u> . The <u>Tech Tips page</u> can help you troubleshoot if you run into technical difficulties. Before beginning the course, please see the <u>Jump Start Guide</u> for more	
NHANES II Web Tutorial	information about how to use the tutorial and its features. To learn more about the CEU, CME, and CNE credit/contact hours offered for this course, see the <u>Course Registration page</u> .	
NHANES I Web Tutorial	creaty contact hours offered for this course, see the <u>course Registration page</u> .	
NHANES Dietary Data Tutorial		
NHANES Phyical Activity and Cardiovascular Fitness Data Tutorial		

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About NHANES	Recommend Tweet Share			Email page
What's New	The NHANES	listson		🖨 Print page
Questionnaires,			E-mail	
Datasets, and Related Documentation	The National Health and Nutrition Examination Survey (NHANES) lis dissemination of information regarding NHANES activities, products questions abou			
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