

# National Health and Nutrition Examination Survey 2003-2004

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## Documentation, Codebook, and Frequencies

MEC Laboratory Component:  
Urinary Chlamydia and Gonorrhea

Survey Years:  
2003 to 2004

SAS Export File:  
L05\_C.XPT



July 2008

# NHANES 2003–2004 Data Documentation

## Laboratory Assessment: Laboratory 5 - Urinary Chlamydia and Gonorrhea

First Published: January 2006

Last Revised: July 2008

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### Component Description

Sexually transmitted infections caused by *Chlamydia trachomatis* may lead to pelvic inflammatory disease, ectopic pregnancy, infertility, and chronic pelvic pain in women. They are associated with increased risk of HIV transmission. Pregnant women may transmit infection to their newborn causing serious medical complications. At present there are no reliable estimates on the prevalence of chlamydial and gonococcal infection in the general population of the United States.

NHANES offers an opportunity to assess the prevalence of chlamydia and gonococcal infection in the general population and to monitor trends in prevalence as prevention programs are established and expanded.

### Eligible Sample

Participants aged 14-39 years were tested. Public data file includes data for persons 18-39 years of age. Please see Analytic Notes for Data Users about the release of data for adolescents 14-17 years of age.

### Description of Laboratory Methodology

Urinary Chlamydia and Urinary Gonorrhea

The BDProbeTec CT *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Amplified DNA Assays are based on the simultaneous amplification and detection of target DNA using amplification primers and a fluorescent labeled detector probe. The Strand Displacement Amplification (SDA) reagents are dried in two separate disposable microwell strips. The processed sample is added to the Priming Microwell which contains the amplification primers, fluorescent labeled detector probe, and other reagents necessary for amplification. After incubation, the reaction mixture is transferred to the Amplification Microwell, which contains two enzymes (a DNA polymerase and a restriction endonuclease) necessary for SDA. The Amplification Microwells are sealed to prevent contamination and then incubated in a thermally controlled fluorescent reader which monitors each reaction for the generation of amplified products. The presence or absence of *C. trachomatis* and *N. gonorrhoeae* is determined by relating the BDProbeTec ET MOTA (Method Other Than Acceleration) scores for the sample to pre-determined cutoff values. The MOTA score is a

metric used to assess the magnitude of signal generated as a result of the reaction.

**Laboratory  
Quality  
Control and  
Monitoring**

The NHANES quality control and quality assurance protocols (QA/QC) meet the 1988 Clinical Laboratory Improvement Act mandates. Detailed quality control and quality assurance instructions are discussed in the NHANES Laboratory/Medical Technologists Procedures Manual (LPM). Read the LABDOC file for detailed QA/QC protocols.

**Data  
Processing  
and Editing**

Urine specimens were processed, stored and shipped to the Division of AIDS, STD, and TB Laboratory Research, National Center for Infectious Diseases, National Centers for Disease Control and Prevention for analysis. Detailed specimen collection and processing instructions are discussed in the NHANES Laboratory/Medical Technologists Procedures Manual (LPM). Read the LABDOC file for detailed data processing and editing protocols. The analytical methods are described in the Description of the Laboratory Methodology section.

Public data file includes data for persons 18-39 years of age. Urinary Chlamydia data for youth 14-17 years of age will be in the Research Data Center (RDC) or through special agreement.

**Analytic  
Notes**

Collaborators may obtain the 2005-2006 NHANES Adolescent STD Special Use Data file through a special agreement. The data set is a SAS file containing 3 variables for examined participants aged 14-17 years. Other interested researchers may use this file in the NCHS Research Data Center (RDC). The variable descriptors and variable names are as follows:

Sequence number-Seqn  
Chlamydia result-URXUCL  
Gonorrhea result-URXUGC

**References**

None

## Locator Fields

**Title:** Urinary Chlamydia and Gonorrhea

**Contact Number:** 1-866-441-NCHS

**Years of Content:** 2003–2004

**First Published:** January 2006

**Last Revised:** July 2008

**Access Constraints:** Public data file includes data for persons 18-39 years of age. Urinary chlamydia and gonorrhea data for youth 14-17 years of age will be in the Research Data Center (RDC) or through special agreement.

**Use Constraints:** None

**Geographic Coverage:** National

**Subject:** Urinary Chlamydia and Gonorrhea

**Record Source:** NHANES 2003–2004

**Survey Methodology:** NHANES 2003–2004 is a stratified multistage probability sample of the civilian non-institutionalized population of the U.S.

**Medium:** NHANES Web site; SAS transport files

National Health and Nutrition Examination Survey  
Codebook for Data Production (2003-2004)

Urinary Chlamydia and Gonorrhea (L05\_C)

Person Level Data

July 2008



<b>SEQN</b>	<b>Target</b>
	B(18 Yrs. to 39 Yrs.)
<b>Hard Edits</b>	<b>SAS Label</b>
	Respondent sequence number
<b>English Text:</b> Respondent sequence number.	
<b>English Instructions:</b>	

<b>URXUCL</b>	<b>Target</b>
	B(18 Yrs. to 39 Yrs.)
<b>Hard Edits</b>	<b>SAS Label</b>
	Urinary Chlamydia
<b>English Text:</b> Chlamydia, urine	
<b>English Instructions:</b>	

Code or Value	Description	Count	Cumulative	Skip to Item
1	Positive	67	67	
2	Negative	2061	2128	
3	Indeterminate	0	2128	
.	Missing	89	2217	

<b>URXUGC</b>	<b>Target</b>
	B(18 Yrs. to 39 Yrs.)
<b>Hard Edits</b>	<b>SAS Label</b>
	Urinary Gonorrhea

**English Text:** Urinary Gonorrhea

**English Instructions:**

<b>Code or Value</b>	<b>Description</b>	<b>Count</b>	<b>Cumulative</b>	<b>Skip to Item</b>
1	Positive	16	16	
2	Negative	2112	2128	
3	Indeterminate	0	2128	
.	Missing	89	2217	