

National Health and Nutrition Examination Survey 2001–2002

Documentation, Codebook, and Frequencies

**Surplus Specimen Laboratory Component:
Cystatin C (Surplus Sera)**

**Survey Years:
2001 to 2002**

**SAS Export File:
SSCYST_B.XPT**



**First Published: June 2008
Last revised: N/A**

NHANES 2001-2002 Data Documentation

Laboratory Assessment: Cystatin C (NHANES Surplus Sera) (SSCYST_B)

First Published: June 2008

Last Revised: N/A

Component Description	Cystatin C assayed from stored serum samples from NHANES 2001-2002.
Eligible Sample	All participants aged 60+ with available specimen and a 25% random sample of participants aged 12-59 years. This younger group is supplemented with all individuals with high serum creatinine (1.2 mg/dl in men and >1.0 mg/dl in women) after calibration.
Description of Laboratory Methodology	All assays were conducted using the Dade Behring N Latex Cystatin C assay which is an automated particle-enhanced nephelometric assay (PENIA) run on the Dade Behring Nephelometer II (BNII) (1).
Laboratory Quality Control and Monitoring	This assay has an intra-assay imprecision of 2.0 - 3.0% coefficient of variation and an inter-assay imprecision of 3.2 - 4.4% coefficient of variation. The assay range is 0.23 - 7.25 mg/dL. A thorough review of different assay methodologies by Newman (2) concluded that it is the most precise automated assay across the clinical concentration range and performed slightly better than the other automated assays in terms of sensitivity and lack of analytical interference.
Data Processing and Editing	All data will be made publicly available.
Analytic Notes	The sub-sample of participants aged 12-59 requires modification of original sampling weights. Weights will be provided by investigators to NCHS and will be adjusted by age, sex, race, and serum creatinine strata to match the original NHANES 2001-2002 design.

References

- (1) Finney H, Newman DJ, Gruber W, Merle P, Price CP. Initial evaluation of cystatin C measurement by particle-enhanced immunonephelometry on the Behring nephelometer systems (BNA, BN II). Clin Chem 1997; 43(6 Pt 1):1016-1022.
- (2) Newman DJ. Cystatin C. Ann Clin Biochem 2002; 39(Pt 2):89-104.

Acknowledgement

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Locator Fields

Title: Cystatin C

Contact Number: 1-866-441-NCHS

Years of Content: 2001-2002

First Published: June 2008

Revised: N/A

Access Constraints: None

Use Constraints: None

Geographic Coverage: National

Subject: Serum Cystatin C

Record Source: NHANES 2001-2002

Survey Methodology: NHANES 2001-2002 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 (2001-2002)

Cystatin C (SSCYST_B)

June 2008



SEQN	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Respondent sequence number
English Text: Respondent sequence number.	
English Instructions:	

SSCYPC	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Cystatin C (mg/L)
English Text: Cystatin C (mg/L)	
English Instructions:	

Code or Value	Description	Count	Cumulative	Skip to Item
0.43 to 10.7	Range of Values	2924	2924	
.	Missing	8	2932	

WTSCY4YR	Target
	B(12 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Surplus sera cystatin 99-02 weights
English Text: Surplus sera cystatin 99-02 weights	
English Instructions:	

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 376844.2148	Range of Values	2932	2932	
.	Missing	0	2932	