Documentation, Codebook, and Frequencies

Surplus Sera Laboratory Component: Cystatin C (Surplus Sera)

Survey Years: 1988 to 1994

SAS Export File: SSCYSTAT.XPT



First Published: May 2007

Last revised: N/A

NHANES III Data Documentation

Laboratory Assessment: Cystatin C (NHANES III Surplus Sera)

Years of Coverage: 1988–1994 First Published: May 2007 Last Revised: N/A

Component Description

Cystatin C assayed from stored serum samples from NHANES III

(1988-1994)

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 III design.

References

(1) Finney H, Newman DJ, Gruber W, Merle P, Price CP. Initial evaluation of cystatin C measurement by particle-enhanced

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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.

Locator Fields

Title: Cystatin C
Contact Number:

Years of Content: 1988-1994 First Published: May 2007

Revised: N/A

Access Constraints: None
Use Constraints: None

Geographic Coverage: National

Subject: Serum Cystatin C

Record Source: NHANES III (1988-1994)

Survey Methodology: NHANES III is a stratified multistage probability sample of the civilian non-

institutionalized population of the U.S.

Medium: NHANES Web site; SAS transport files

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National Health and Nutrition Examination Survey Codebook for Data Production (1988-1994) (NHANES III)

Cystatin C (Surplus Sera) (SSCYSTAT) Person Level Data

First Published: May 2007 Last Revised: N/A



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

SSCYSTAT		Target			
		B(12 Yrs. to 150 Yrs.)			
Hard Edits		SAS Label			
		Surplus sera Cystatin C (mg/L)			
English Text: Surplus	sera Cysta	ystatin C (mg/L)			
English Instructions:					
Code or Value	J	Description Count Cumulative Skip to Item			
0.05 to 8.5	Ra	nge of Values	7670	7670	
		Missing	51	7721	

WTCYPEX6		Target				
		B(12 Yrs. to 150 Yrs.)				
Hard Edits		SAS Label				
		Serum Cystatin MEC sample weight				
English Text: Serum	Cystatin MEC sa	MEC sample weight				
English Instructions:						
Code or Value	Descr	ription	Count	Cumulative	Skip to Item	
0 to 557278.42094	Range o	of Values	7647	7647		

Missing

WTCYPHX6	Target			
VV 1 0 11 11110	B(12 Yrs. to 150 Yrs.)			
Hard Edits	SAS Label			
Serum Cystatin MEC+Home sample weight				
English Text: Serum Cystatin MEC+Home sample weight				

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
0 to 555987.69015	Range of Values	7721	7721	
	Missing	0	7721	

WTSCREX6	Target			
WISCREM	B(12 Yrs. to 150 Yrs.)			
Hard Edits	SAS Label			
	Serum Creatinine MEC sample weight			
English Torres Comme Constinue MEC comple society				

English Text: Serum Creatinine MEC sample weight

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
231.90933542 to 149994.33431	Range of Values	7647	7647	
·	Missing	74	7721	

Target			
B(12 Yrs. to 150 Yrs.)			
SAS Label			
Serum Creatine MEC+Home sample weight			

English Text: Serum Creatine MEC+Home sample weight

English Instructions:

Code or Value	Description	Count	Cumulative	Skip to Item
230.64285023 to 149245.02088	Range of Values	7721	7721	
	Missing	0	7721	