

Third National Health and Nutrition Examination Survey 1988–1994

Documentation, Codebook, and Frequencies

Surplus Sera Laboratory Component:
Antibody to Mumps from Surplus Sera
Samples (SSMUMP3)

Survey Years:
1988 to 1991

SAS Export File:
SSMUMP3.XPT



First Published: April 2008
Last revised: N/A

NHANES III Data Documentation

Laboratory Assessment: Antibody to mumps virus (NHANES III Surplus Sera)

Years of Coverage: 1988-1991

First Published: April 2008

Last Revised: N/A

Component Mumps IgG antibody testing of stored serum specimens from NHANES III (1988-1991) was conducted to estimate the seroprevalence of mumps antibody in the US population in 1999-2000.

Eligible Sample Participants aged 6-49 years from of NHANES III with stored sera.

Description of Laboratory Methodology Mumps antibody testing was performed using enzyme-linked immunosorbent assays (ELISAs) to detect mumps IgG (Wampole Laboratories, Princeton, NJ)

Specimens were tested according to manufacture directions. Index values were calculated for each specimen by dividing the OD value by the cutoff OD.

Interpretation	Index Value of OD Ratio
Negative specimens	<0.90
Equivocal Specimens	0.91 to 1.09
Positive Specimens	>1.0

Laboratory Quality Control and Monitoring Serum samples were tested using Wampole Mumps IgG Test (Ref. # 425901CE). These were tested on two lots, the first lot used 19 kits and second lot used 57 kits.

Samples that initially tested Indeterminate or negative were repeated. If a discrepancy (difference in result and a change in ISR of > 0.5) was found the sample was repeated one more time. The previous result that matched the final test was the one accepted.

Assay reproducibility was assessed by random selection of 10% of the total number of serum specimens tested and repeating the ELISA assay.

**Data
Processing
and Editing**

Data Access: All data are publicly available.

**Analytic
Notes**

The specimen index ratio (ISR) should be linked to the sequence number for all data analyses.

References

N/A

Locator Fields

Title: Mumps IgG Antibody seroprevalence

Contact Number:

Years of Content:1988-1991

First Published: April 2008

Revised: N/A

Access Constraints: None

Use Constraints: None

Geographic Coverage: National

Subject: Mumps

Record Source: NHANES III (1988-1991)

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

**National Health and Nutrition Examination Survey
Codebook for Data Production (1988-1991)
(NHANES III)**

**Antibody to Mumps from Surplus Sera Samples (SSMUMP3)
Person Level Data**

April 2008



SEQN	Target
	B(6 Yrs. to 49 Yrs.)
Hard Edits	SAS Label
	Respondent sequence number
English Text: Respondent sequence number.	
English Instructions:	

SSISR	Target
	B(6 Yrs. to 49 Yrs.)
Hard Edits	SAS Label
	Specimen Index ratio
English Text: Specimen Index ratio	
English Instructions:	

Code or Value	Description	Count	Cumulative	Skip to Item
0.144 to 8.417	Range of Values	2507	2507	
.	Missing	3	2510	

SSMUMPS		Target		
		B(6 Yrs. to 49 Yrs.)		
Hard Edits		SAS Label		
		Antibody to mumps		
English Text: Antibody to mumps				
English Instructions:				
Code or Value	Description	Count	Cumulative	Skip to Item
1	Positive	2292	2292	
2	Negative	139	2431	
3	Indeterminate	76	2507	
9	Quantity not sufficient	0	2507	
.	Missing	3	2510	