

National Health and Nutrition Examination Survey 2001–2002

Documentation, Codebook, and Frequencies

Surplus Specimen Laboratory Component:
Antibody to Cytomegalovirus IgG
(NHANES Surplus Sera) (SSCMV_B)

Survey Years:
2001 to 2002

SAS Export File:
SSCMV_B.XPT



First Published: March 2008
Last revised: N/A

NHANES 2001-2002 Data Documentation

Laboratory Assessment: Antibody to Cytomegalovirus IgG (NHANES Surplus Sera) (SSCMV_B)

First Published: March 2008

Last Revised: N/A

Component Description Cytomegalovirus (CMV) antibody testing of stored sera specimens from NHANES 1999-2004 was conducted to estimate the seroprevalence of CMV infection (CMV IgG) in participants aged 6 to 49 years. An optical density measure for IgG is also included in this data release as an estimate of antibody titer.

Eligible Sample Participants aged 6 to 49 years from NHANES 1999-2004 with stored sera (N = 15,336).

Description of Laboratory Methodology CMV specific IgG was measured with an ELISA by Quest International, Inc., Miami FL. Sera with values near the ELISA cutoff (approx 5.2% of total) were confirmed with a second ELISA assay by bioMerieux, Inc., Durham, NC. When the results from these 2 tests disagreed (approx. 2.7% of total), an IFA from Bion International, Inc., was used and the result of the IFA was given as the final result.

Optical Density for the IgG test is reported. Optical density was measured with the ELISA assay by Quest International, Inc. and approximately corresponds to antibody titer; a low and positive optical density indicates low antibody titer and a high optical density indicates high antibody titer.

Laboratory Quality Control and Monitoring Commercial reagents were used for all CMV testing. All QC procedures recommended by the manufacturers were followed.

Data Processing and Editing Data were received after all the antibody testing was complete. The data were not edited.

Data Access: All data are publicly available.

Analytic Notes

There are two variables:

SSCMV: CMV specific IgG results (1=Positive, 2=Negative, 3= Equivocal)

SSCMVOD: CMV IgG Optical Density from the ELISA by Quest International, Inc., Miami FL. Measured in AU/ml which stands for Arbitrary units/ml. Continuous variable - Values range from 0.048 to 3.001. Values reported as "out of range" (i.e. over the detectable range, > 3.00) were assigned values of 3.001

References

1. Starr, S.E., and Friedman, H.M. "Human Cytomegalovirus", Chapter 65 in Manual of Clinical Microbiology, fourth edition, edited by E.H. Lennette, A. Balows, W.J. Hausler, Jr., and H.J. Shadomy, American Society for Microbiology, pp 711-719. 1985.
2. Peckham, C.S. "Cytomegalovirus in the neonate". Journal of Antimicrobial Chemotherapy. 23:17-21. 1989.
3. Joassin, L., and Reginster, M. "Elimination of nonspecific cytomegalovirus immunoglobulin M activities in the enzyme-linked immunosorbent assay by using anti-human immunoglobulin G". Journal of Clinical Microbiology. 23:576-581. 1986.

Locator Fields

Title: Antibody to Cytomegalovirus (CMV)

Contact Number: 1-866-441-NCHS

Years of Content: 2001-2002

First Published: March 2008

Revised: N/A

Access Constraints: None

Use Constraints: None

Geographic Coverage: National

Subject: Cytomegalovirus (CMV)

Record Source: NHANES 2001-2002

Survey Methodology: Continuous NHANES (including 2001-2002 data) 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)**

**Antibody to Cytomegalovirus (CMV) IgG (SSCMV_B)
Person Level Data**

March 2008



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

SSCMVOD	Target
	B(6 Yrs. to 49 Yrs.)
Hard Edits	SAS Label
	CMV optical density from ELISA
English Text: CMV optical density from ELISA	
English Instructions:	

Code or Value	Description	Count	Cumulative	Skip to Item
0.062 to 3.001	Range of Values	5534	5534	
.	Missing	0	5534	

SSCMV	Target
	B(6 Yrs. to 49 Yrs.)
Hard Edits	SAS Label
	CMV specific IgG results
English Text: CMV specific IgG results	
English Instructions:	

Code or Value	Description	Count	Cumulative	Skip to Item
1	Positive	3136	3136	
2	Negative	2394	5530	
3	Equivocal	4	5534	
.	Missing	0	5534	