

Third National Health and Nutrition Examination Survey 1988–1994

Documentation, Codebook, and Frequencies

Surplus Sera Laboratory Component:
Antibody to Toxocara Larva Migrans (Surplus Urine)

Survey Years:
1988 to 1994

SAS Export File:
SSTOXO.XPT



First Published: January 2007
Last Revised: N/A

NHANES III Data Documentation

Laboratory Assessment: Antibody to *Toxocara Larva Migrans* (NHANES III Surplus Sera)

Years of Coverage: 1988-1994

First Published: January 2007

Last Revised: N/A

Component Description

All available sera from NHANES III (1988-1994) participants 6+ years were tested for antibodies to *Toxocara* in an indirect enzyme immunoassay (EIA) with an excretory/secretory antigen of *Toxocara canis*. All results in this data release are reported as positive or negative.

Eligible Sample

All participants 6+ years from NHANES III with stored sera (n = 23,532)

Description of Laboratory Methodology

Toxocara antibodies were measured with an in-house EIA developed at the Centers for Disease Control and Prevention (CDC). This assay utilizes an excretory/secretory antigen of *Toxocara canis*, absorbed to 96-well Immulon II HB Flat Bottom plates. Serum is allowed to react with the antigen, and then horseradish peroxidase labeled anti-human IgG is added. The reaction is then visualized using TMB substrate. Optical density was determined on a vMax microplate reader and computer equipped with SOFTmax software (Molecular Devices Corp., Menlo Park, CA).

Quality control samples are included on every plate. All results are reported as positive or negative. A positive result indicates an infection with *Toxocara* sp. at some point in time. Titers to *Toxocara* may remain elevated for several years.

Laboratory Quality Control and Monitoring

The *Toxocara* EIA test is considered in control provided the quality control serum is within two standard deviations of its mean.

Data Processing and Editing

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

Data Access: All data are publicly available.

**Analytic
Notes**

TWP Toxocara antibody
1= positive
2= negative

References

1. Glickman, L.T., P.M. Schantz, R.B. Grieve. Toxocariasis. in Immunodiagnosis of Parasitic Diseases, Vol. 1, Helminthic Diseases. Ed. K.W. Walls and P.M. Schantz, Academic Press, 1986. pp 163-181.
2. Glickman, L.T., P.M. Schantz, R. Dombroske, R. Cypess. 1978. Evaluation of serodiagnostic tests for visceral larva migrans. Am J Trop Med Hyg 27:492-498.
3. Glickman, L.T. R.B. Grieve, S.S. Lauria, D.L. Jones. 1985. Serodiagnosis of ocular toxocariasis: a comparison of two antigens. J. Clin. Pathol. 38:103-107.
4. Schantz, P.M. 1989. Toxocara larva migrans now. Am J Trop Med Hyg 41:21-34.
5. Smith, H.V. 1993. Antibody reactivity in human toxocariasis. p 91-109. In Toxocara and Toxocariasis: Clinical Epidemiological and Molecular Perspectives. ed. Lewis, J.W. and R.M. Maizels. Institute of Biology, London.
6. Despommier, D. 2003. Toxocariasis: Clinical Aspects, Epidemiology, Medical Ecology, and Molecular Aspects. Clinical Microbiology Reviews. pp. 265-272.

Locator Fields

Title: Antibody to *Toxocara* Larva Migrans

Contact Number: 1-866-441-NCHS

Years of Content:1988-1994

First Published: January 2007

Revised: N/A

Access Constraints: None

Use Constraints: None

Geographic Coverage: National

Subject: Toxocara

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

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

**Antibody to Toxocara (SSTOXO)
Person Level Data**

First Published: January 2007

Last Revised: N/A



SEQN	Target
	B(4 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Respondent sequence number
English Text: Respondent sequence number.	
English Instructions:	

TWP	Target
	B(4 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Toxocara antibody result
English Text: Toxocara antibody result	
English Instructions:	

Code or Value	Description	Count	Cumulative	Skip to Item
1	Positive	3333	3333	
2	Negative	18166	21499	
.	Missing	1	21500	