

DRAFT

Analysis of the Causes of Declining Blood
Lead Levels During the NHANES II Survey

- I. Introduction - to follow
- II. NHANES II and the Reported Blood Lead Decline

The NHANES II program was a stratified, multistage probability cluster sample survey designed to gather health and nutritional data reflecting a representative cross section of the noninstitutionalized U.S. population. The study took four years, from February 1976 to February 1980, covering 64 primary sampling locations - 16 in each of 4 approximately equipopulated regions of the U.S. The four-year study was designed to provide an estimate of the prevalence of specifically defined diseases in the U.S. population, and to permit estimation of a broad variety of health-related measurements, at the midpoint of the survey period.

The NHANES II protocol called for a probability sample of the U.S. population for persons 6 months to 74 years of age. Subgroups of special interest were preschool children (6 months - 5 years), the aged (60-74 years) and persons living in poverty areas. These groups were oversampled to improve the reliability of the statistics for the subgroups. The total sample size was 27,801 persons with each primary sampling unit being 300-600 persons. Of this total, 20,322 (73.1%) were examined. The survey was designed so that precise statistics could be produced for the four broad geographic regions of the United States and for the total population by age, sex, race and income classifications.

Findings for each sample person were inflated by the reciprocal of the probability of selecting a person, adjusted for persons who were not examined and post-stratified so that the final estimates closely approximate the population of the U.S. by race, sex and age as of March 1, 1978.

With respect to the blood lead portion of the program, blood lead determinations were requested on all children through the age of 6 and on a half sample of all examinees over that age.

Table II-1 is a list of the sampling sites, in chronological order, based on site location information released by NIHS in March, 1983 at a meeting of NHANES II statistics panel, and on the data tape.

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**NHANES II VENOUS BLOOD LEAD SUMMARY
IN CHRONOLOGICAL ORDER OF START OF SAMPLING**

Sampling Period	Stratum, Pseudo PSU	County, State	Stand Site	N	Mean Date
2/20/76 - 3/25/76	1,1	Dade, FL	Miami	141	3/ 6/76
3/ 4/76 - 3/19/76	2,2	Santa Clara, CA	San Jose	80	3/12/76
3/26/76 - 5/ 4/76	4,2	Fresno, CA	Fresno	256	4/14/76
4/ 2/76 - 5/ 8/76	3,1	Caddo, LA	Shreveport	161	4/19/76
5/13/76 - 6/ 5/76	6,2	Pierce, WA	Tacoma	124	5/22/76
5/18/76 - 6/16/76	5,1	Newport News (city), Hampton (city), VA	Newport News- Hampton	135	5/30/76
6/19/76 - 7/16/76	8,2	Bingham, ID	Blackfoot	202	7/ 1/76
6/24/76 - 8/ 5/76	7,1	New Madrid, Stoddard, MO	Dexter	225	7/15/76
7/21/76 - 8/12/76	10,2	Laramie, WY	Cheyenne	121	7/29/76
8/13/76 - 9/ 8/76	9,1	Polk, IA	Des Moines	107	8/24/76
8/20/76 - 9/15/76	12,2	Hennepin, MN	Minneapolis- St. Paul	151	8/31/76
9/15/76 - 10/ 7/76	11,1	Dakota, MN	Farmington	129	9/24/76
9/23/76 - 11/ 3/76	13,1	Cook, IL	Chicago	156	10/ 9/76
10/14/76 - 11/ 5/76	9,2	Lake, IL	Waukegan	94	10/24/76
11/11/76 - 12/18/76	15,1	Bledsoe, Mc Minn, Meigs, Rhea, TN	Athens Pikeville	223	11/29/76
11/13/76 - 12/18/76	14,2	Craven, Pitt, NC	Greenville, New Bern	202	11/30/76
1/19/77 - 2/12/77	3,2	Brevard, FL	Cocoa	122	1/27/77
1/20/77 - 3/ 3/77	16,2	Lafayette, LA	Lafayette	199	2/ 7/77
2/19/77 - 3/30/77	18,2	Blount, St. Clair, AL	Oneonta, Pell City	197	3/10/77
3/10/77 - 4/12/77	17,1	Banks, Hall, Towns, White, GA	Gainesville, Cleveland	178	3/23/77
4/ 7/77 - 5/24/77	19,2	Manhattan, NY	New York City	130	4/24/77
4/21/77 - 6/ 2/77	19,1	Bronx, NY	New York City	146	5/ 5/77
5/25/77 - 6/17/77	21,1	Bergen, NJ	Patterson - Clifton-Passaic	107	6/ 4/77
5/25/77 - 6/30/77	20,2	Union, NJ	Plainfield	87	6/17/77
7/ 7/77 - 8/ 6/77	22,1	Hartford (part), New Haven (part), CT	New Britain, Meriden	153	7/19/77
7/20/77 - 8/ 6/77	22,2	Norfolk (part), MA	Braintree	93	7/29/77
8/12/77 - 9/15/77	23,2	Cumberland (part), ME	Portland	157	8/26/77
8/19/77 - 9/24/77	23,1	Bristol (part) Norfolk (part), MA	Taunton	176	9/ 4/77
10/13/77 - 11/ 8/77	26,2	Erie, PA	Erie	149	10/24/77
10/13/77 - 11/12/77	25,1	Allegheny, PA	McKees Rocks	117	10/25/77
11/19/77 - 12/17/77	18,1	Hardin, Larue, Nelson, KY	Elizabethtown, Bordstown	145	12/ 2/77
11/28/77 - 12/17/78	5,2	DeKalb, GA	Atlanta	122	12/ 6/77
1/19/78 - 2/18/78	27,1	Los Angeles, CA	Los Angeles	127	1/31/78
1/19/78 - 2/18/78	27,2	Los Angeles, CA	Los Angeles	127	2/ 2/78
2/25/78 - 3/23/78	2,1	Honolulu, HI	Honolulu	129	3/ 8/78
2/25/78 - 3/28/78	28,2	San Diego, CA	San Diego	120	3/10/78
3/31/78 - 5/ 4/78	4,1	Yolo, CA	Sacramento	190	4/13/78
4/ 6/78 - 5/ 3/78	8,1	Linn, OR	Lebanon	132	4/17/78
5/17/78 - 6/17/78	6,1	Sedgwick, KS	Wichita	142	5/30/78

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5/17/78 - 6/29/78	29,1	Hickory, St Clair, MO	Osceola	226	6/ 6/78
6/28/78 - 8/ 5/78	7,2	Cheboygan, Emmett, MI	Cheboygan	201	7/16/78
7/ 7/78 - 8/ 5/78	11,2	Racine, WI	Racine	179	7/21/78
8/11/78 - 9/ 2/78	13,2	Wayne, MI	Detroit	236	8/29/78
8/11/78 - 9/16/78	30,2	Ionia, Montcalm, MI	Greenville	179	8/27/78
10/12/78 - 11/ 7/78	21,2	Westchester, NY	Mt. Kisco	83	10/22/78
10/12/78 - 11/11/78	26,1	Orange, NY	Middletown	113	10/24/78
11/15/78 - 12/12/78	20,1	Mercer, NJ	Trenton	141	11/26/78
11/17/78 - 12/14/78	25,2	Montgomery, PA	Norristown	87	11/28/78
1/18/79 - 2/21/79	28,1	Harris, TX	Houston	143	1/30/79
1/18/79 - 3/ 1/79	29,2	Parmer, TX	Bovina	236	2/ 4/79
3/ 1/79 - 4/11/79	15,2	Poinsett, AK	Marked Tree	240	3/19/79
3/ 8/79 - 4/ 3/79	10,1	Potter, Randall, TX	Amarillo	138	3/18/79
4/12/79 - 5/24/79	32,1)	Coles, Cumberland, IL	Mattoon	190	4/28/79
4/18/79 - 5/24/79	32,2)	Greene, Monroe, IN	Bloomington	186	5/ 1/79
5/31/79 - 7/ 1/79	31,1)	Marion, IN	Indianapolis	147	6/13/79
6/ 1/79 - 7/ 5/79	31,2)	Hamilton, OH	Cincinnati	155	6/14/79
8/ 1/79 - 8/31/79	12,1	Montgomery, OH	Dayton	147	8/13/79
8/ 3/79 - 9/ 8/79	24,1	Lycoming, PA	Williamsport	183	8/17/79
9/ 8/79 - 10/13/79	30,1	Richland, OH	Mansfield	156	9/21/79
9/18/79 - 10/27/79	24,2	Delaware, NY	Oneonta	170	10/ 1/79
10/20/79 - 12/ 5/79	14,1	Floyd, Johnson, Magoffin, KY	Saylersville, Prestonburg	218	11/12/79
11/ 3/79 - 12/14/79	1,2	District of Columbia	Washington, D.C.	112	11/21/79
1/15/80 - 2/23/80	17,2	Cherokee, York, SC	Rock Hill	118	1/31/80
1/30/80 - 2/26/80	16,1	Greene, Harrisonburg (city), Rockingham, VA	Harrisonburg	127	2/10/80

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