

SUPPLEMENTAL APPENDIX A
Published studies quantifying soil-transmitted helminth prevalence in the United States (likely endemic)

Study and year	Study location	Study population description	No. of patients	Hookworm (%)	<i>Trichuris trichiura</i> (%)	<i>Ascaris lumbricoides</i> (%)	<i>Strongyloides stercoralis</i> (%)
Headlee and Cable, 1942 ¹	KY	Prospective college-based	2,393	14.6	7.9	5.1	3.8
Teague, 1945 ²	KY	Laboratory	7,499	9.6	5.2	14.7	—*
Young, 1955 ³	TN	Prospective school-based	3,138	19.7	1.5	6.1	0.1
Kelley, 1955 ⁴	NE	Prospective community-based	1,096	0.4	—	0.4	—
Atchley and others, 1956 ⁵	KY	Prospective community-based (January to March)	843	0.0	24.2	26.8	1.2
Atchley and others, 1956 ⁵	KY	Prospective community-based (April to July)	1,800	0.5	14.6	21.3	2.6
Neuman and others, 1956 ⁶	NY	Screening in patients with gastrointestinal complaints at outpatient physician	222	1.8	2.7	0.9	1.4
Fournelle and others, 1958 ⁷	AK	Prospective community-based convenience sample of Alaska Eskimos	1,680	0.1	0.1	0.0	—
Myers and others, 1959 ⁸	PA	Prospective community-based sample of Puerto Rican children of varying birthplace.	170	2.4	22.4	7.1	0.0
Weiner and others, 1959 ⁹	PA	School-based, Caucasian children	169	0.0	0.0	0.6	0.0
Weiner and others, 1959 ⁹	PA	School-based, African-American children	49	0.0	2.0	0.0	0.0
Ching, 1961 ¹⁰	HI	Laboratory testing of all stool samples submitted to hospitals and physicians	1,380	0.6	2.0	0.9	1.2
Melvin and Brooke, 1962 ¹¹	MT, SD, NM, AZ, WI	Community-based convenience sample	907	—	0.1	0.0	—
Jeffrey and others, 1963 ¹²	SC	Community-based random sample of African-Americans	212	3.8	37.3	63.7	—
Fulmer and Huemphner, 1965 ¹³	KY	Prospective school-based, county 1 of 3	366	3.6	55.2	48.6	3.8
Fulmer and Huemphner, 1965 ¹³	KY	Prospective school-based, county 2 of 3	120	0.0	6.7	23.3	0.0
Fulmer and Huemphner, 1965 ¹³	KY	Prospective school-based, county 3 of 3	125	4.0	40.8	38.4	4.0
Hiller, 1965 ¹⁴	NY	Laboratory	2,055	3.8	12.4	1.2	0.4
Fournelle and others, 1966 ¹⁵	AK	Prospective community-based convenience sample of Alaska Native Americans	389	0.3	0.0	0.3	—
Reiber and McCoy, 1967 ¹⁶	WV	Hospital-based sampling of veterans	200	—	—	—	4.5
Foltz and Harding, 1968 ¹⁷	IL	Laboratory	25,405	0.1	0.5	0.2	0.1
Healy and others, 1969 ¹⁸	NC	Prospective school-based	631	3.0	38.0	49.4	—
DiSalvo and Melonas, 1969 ¹⁹	SC	Laboratory	26,489	2.5	1.9	13.2	—
Gloor and others, 1970 ²⁰	KY	Prospective school-based	439	14.8	4.8	7.7	—
Carter and others, 1970 ²¹	SC	Outpatient physician, African-American children	131	0.0	51.9	48.1	—
Carter and others, 1970 ²¹	SC	Outpatient physician, Caucasian children	46	0.0	2.2	2.2	—
Jacobs and others, 1972 ²²	SC	Prospective school-based	5,103	0.2	13.9	16.5	—
Martin, 1972 ²³	GA	Prospective school-based, Caucasian	3,729	4.6	0.5	1.3	—
Martin, 1972 ²³	GA	Prospective school-based, African-American	199	8.0	0.0	0.0	—
Martin, 1972 ²⁴	GA	Community-based random sample of African-Americans and Caucasians	749	13.6	0.5	4.3	—
Morgan and others, 1972 ²⁵	LA	Community-based random sample of lowest 25% socioeconomic stratum	1,651	0.4	12.3	5.3	0.3
Sargent and others, 1972 ²⁶	SC	Prospective school-based, 32% African-American	2,932	1.8	1.1	21.5	—
Yoeli and others, 1972 ²⁷	NY	Facility-based, intellectually challenged adults	18,709	0.0	2.8	0.0	8.1
Berke and others, 1972 ²⁸	NY	Hospital-based, veterans	215	7.0	0.9	0.0	0.5
Dudley and Lease, 1972 ²⁹	SC	Facility-based, intellectually challenged children	2,164	0.7	1.2	4.9	—
Dudley and Lease, 1973 ³⁰	SC	School-based, after anthelmintic treatment	2,114	2.5	1.5	29.8	—
Pierz and others, 1973 ³¹	CT	Outpatient physician, children from Puerto Rico or of African-American descent.	160	5.6	41.9	3.8	—
Hubbard and others, 1974 ³²	LA	Prospective school-based, mostly African-American	887	0.1	5.3	2.3	—
Farhadian and Schneider, 1975 ³³	LA	Community referral to health center	1,078	0.1	14.5	3.9	—
Desowitz and Wiebenga, 1975 ³⁴	HI	Prospective school-based, foreign born	115	4.3	24.3	9.6	0.9
Desowitz and Wiebenga, 1975 ³⁴	HI	Prospective school-based, United States born	275	1.1	0.4	0.0	0.0
Eveland and others, 1975 ³⁵	NY	Laboratory	1,801	2.1	10.2	2.2	1.3

(continued)

SUPPLEMENTAL APPENDIX A

Continued

Study and year	Study location	Study population description	No. of patients	Hookworm (%)	<i>Trichuris trichiura</i> (%)	<i>Ascaris lumbricoides</i> (%)	<i>Strongyloides stercoralis</i> (%)
Andrade and Noda, 1977 ³⁶	HI	Hospital-based, high percentage of immigrants	200	1.5	2.0	4.0	—
Ruebush and others, 1978 ³⁷	All	Laboratory	414,820	0.8	2.7	2.3	0.2
Centers for Disease Control and Prevention, 1978 ³⁸	All	Laboratory	363,567	0.8	2.2	1.8	0.2
Dowda and Moose, 1978 ³⁹	SC	Laboratory	63,978	0.4	2.1	5.6	0.1
Bruckner and others, 1979 ⁴⁰	CA	Hospital-based, facility 1 of 2	1,350	—	3.1	3.9	—
Bruckner and others, 1979 ⁴⁰	CA	Hospital-based, facility 2 of 2	493	—	2.6	2.0	—
Centers for Disease Control and Prevention, 1979 ⁴¹	All	Laboratory	332,312	0.6	1.6	1.4	0.2
Lynch and Harmon, 1979 ⁴²	CA	Community-based, farm workers	134	0.0	0.0	1.5	0.0
Walker and others, 1980 ⁴³	WV	Outpatient physician	108	0.0	2.8	15.7	0.0
Jones, 1975 ⁴⁴	KY	Outpatient physician, rectal exam based	79	2.5	1.3	15.2	1.3
Elliott and others, 1981 ⁴⁵	TX	Hospital-based	1,626	0.4	0.3	0.6	0.6
Milder and others, 1981 ⁴⁶	KY	Laboratory	3,217	0.2	1.5	1.6	2.5
Walzer and others, 1982 ⁴⁷	KY	Laboratory	11,654	0.6	4.8	4.4	0.9
Walzer and others, 1982 ⁴⁷	KY	Prospective school-based	561	0.2	12.6	14.4	3.0
Flores and others, 1983 ⁴⁸	TX	Prospective outpatient physician	321	0.0	5.0	5.0	—
Adams and Perkin, 1985 ⁴⁹	FL	Prospective community-based	65	1.5	13.8	32.3	—
Dover and others, 1986 ⁵⁰	SC	Hospital-based laboratory	3,770	0.3	1.0	1.5	0.2
Dove and others r, 1986 ⁵⁰	SC	Laboratory	27,820	0.3	0.7	1.9	0.1
Berk and others, 1987 ⁵¹	TN	Prospective random sample, hospitalize veterans	229	—	—	—	6.1
Berk and others, 1987 ⁵¹	TN	Prospective random sample, outpatient veterans	346	—	—	—	2.6
Kappus and others, 1994 ⁵²	All	Laboratory	216,275	1.5	1.2	0.8	0.4
Schupf and others, 1995 ⁵³	NY	Facility-based, intellectually challenged	3,383	< 0.5†	< 0.5†	< 0.5†	1.2
Amin, 2002 ⁵⁴	48 states	Laboratory, patients with gastrointestinal complaint	5,792	0.0	0.0	0.2	0.0
Escobedo and others, 2009 ⁵⁵	TX	Community-based, high percentage of children from Mexico included	304	0.0	0.0	0.0	0.0
Cardenas and others, 2010 ⁵⁶	TX	Community-based, high percentage from Mexico	388	0.3	0.0	0.3	0.0
Church and others, 2010 ⁵⁷	CO, UT, NM, MT	Laboratory	2,604	0.0	0.0	0.0	0.0

* Denotes that *S. stercoralis* testing was not performed as part of this survey.

† Exact prevalence data was not available.

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SUPPLEMENTAL APPENDIX B

Published studies quantifying soil-transmitted helminth prevalence in the United States (likely imported or population unknown)

Study and year	Study location	Study population description	No. of patients	Hookworm (%)	<i>Trichuris trichiura</i> (%)	<i>Ascaris lumbricoides</i> (%)	<i>Strongyloides stercoralis</i> (%)
Weiner and others, 1959 ¹	PA	School-based, recent immigrants from Puerto Rico	167	21.0	67.7	3.6	0.6
Winsberg and others, 1975 ²	IL	Community-based, recent immigrants from Puerto Rico	358	6.7	14.0	0.0	1.7
Hargus and others, 1976 ³	CT	School-based, recent immigrants from Puerto Rico	129	5.4	34.9	3.9	0.8
Goldsmith and others, 1976 ⁴	CA	Outpatient physician, children adopted from Vietnam	88	0.0	0.0	8.0	1.1
Holtan and others, 1979 ⁵	MN	Immigration clinic, Laotian immigrants	195	12.3	3.6	0.0	0.0
Lindes, 1979 ⁶	OH	Immigration clinic, Laotian immigrants	70	61.4	15.7	11.4	4.3
Erickson and Hoang, 1980 ⁷	CT	Immigration clinic, Southeast Asian immigrants	138	23.2	11.6	23.9	2.9
Jones and others, 1980 ⁸	MN	Immigration clinic, Southeast Asian immigrants	100	16.0	30.0	41.0	1.0
Ortiz, 1980 ⁹	MA	Community-based, Puerto Rican migrant workers	377	4.5	26.0	2.1	0.5
Wiesenthal and others, 1980 ¹⁰	IL	Immigration clinic, Laotian immigrants	165	64.2	12.1	8.5	1.8
Arfaa, 1981 ¹¹	CA	Immigration clinic, Southeast Asian immigrants	186	24.7	22.0	19.9	9.1
Arfaa, 1981 ¹¹	CA	Immigration clinic, Mexican immigrants	90	2.0	12.0	12.0	1.0
Borchardt and others, 1981 ¹²	CA	Immigration clinic, Southeast Asian immigrants	2,226	25.8	16.1	30.4	4.5
Hoffman and others, 1981 ¹³	CA	Immigration clinic, Vietnamese immigrants	68	8.8	19.1	76.5	7.4
Hoffman and others, 1981 ¹³	CA	Immigration clinic, Southeast Asian immigrants	149	44.3	22.8	16.8	17.4
Catanzaro and Moser, 1982 ¹⁴	CA	Immigration clinic, Southeast Asian immigrants	618	37.5	4.2	7.4	6.1
Lerman and others, 1982 ¹⁵		Immigration clinic, Southeast Asian immigrants	226	19.9	7.1	21.7	4.9
Skeels and others, 1982 ¹⁶	NM	Immigration clinic, Southeast Asian immigrants	776	19.3	22.2	25.4	11.5
Tittle and others, 1982 ¹⁷	CA	Immigration clinic, Southeast Asian immigrants	98	23.5	14.3	12.2	11.2
Sarfaty and others, 1983 ¹⁸	CA	Immigration clinic, children from Mexico/Latin America	96	1.0	22.9	17.7	1.0
Barry and others, 1983 ¹⁹	CT	Immigration clinic, Southeast Asian immigrants	142	22.5	23.9	32.4	—
DeGirolami and Kimber, 1983 ²⁰	MA	Immigration clinic, Southeast Asian immigrants	1,478	41.7	13.2	12.2	14.1
Sutherland and others, 1983 ²¹	MN	Immigration clinic, Southeast Asian immigrants	483	41.2	27.7	25.1	18.0
Goldenring and Castle, 1983 ²²	CA	School-based, Southeast Asian immigrant teenagers	89	5.6	6.7	0.0	3.4
Moore and Buster, 1984 ²³	FL	Immigration clinic, Haitians	97	33.0	52.6	25.8	1.0
Judson and others, 1984 ²⁴	CO	Immigration clinic, Southeast Asian immigrants	781	42.4	26.1	18.1	11.5
Kramer and others, 1984 ²⁵	HI	Immigration clinic, Laotian immigrants	447	54.8	28.2	15.4	4.3
Kramer and others, 1984 ²⁵	HI	Immigration clinic, Vietnamese immigrants	105	13.3	11.4	12.4	4.8
McCaw and DeLay, 1985 ²⁶	CA	Immigration clinic, Ethiopian immigrants	89	4.5	1.1	0.0	4.5
McCaw and DeLay, 1985 ²⁶	CA	Immigration clinic, Afghan immigrants	51	0.0	2.0	9.8	0.0
Parish, 1985 ²⁷	WA	Immigration clinic, Southeast Asian immigrant children	338	20.7	8.0	2.1	9.2
Roberts and others, 1985 ²⁸	PA	Prenatal care, Southeast Asian immigrant pregnant women	97	37.1	20.6	10.3	10.3
Ungar and others, 1986 ²⁹	DE, MD, VA	Migrant farmworker women and children from Latin/Central America	339	2.1	9.7	0.9	0.6
Parenti and others, 1986 ³⁰	MA, DC	Immigration clinic, Ethiopian immigrants	191	3.7	4.2	1.1	4.2
Fitzpatrick and others, 1987 ³¹	CA	Immigration clinic, Cambodian immigrant teenagers	46	37.0	0.0	8.7	19.6
Fitzpatrick and others, 1987 ³¹	CA	Immigration clinic, Vietnamese immigrant teenagers	23	0.0	17.4	56.5	0.0
Molina and others, 1988 ³²	CA	Immigration clinic, Cambodian immigrants	2,468	14.9	2.0	1.1	4.4
Molina and others, 1988 ³²	CA	Immigration clinic, Hmong immigrant	52	1.9	1.9	1.9	1.9
Nwanyanwu and others, 1989 ³³	TX	Immigration clinic, Southeast Asian immigrants	1,271	12.4	12.7	8.6	7.8
Salas and others, 1990 ³⁴	CA	Immigration clinic, Mexican immigrants	125	4.8	27.2	16.0	—
Salas and others, 1990 ³⁴	CA	Immigration clinic, Mexican ancestry born in US	91	0.0	1.1	1.1	—
Lurio and others, 1991 ³⁵	NY	Immigration clinic, Cambodian immigrants	271	56.1	3.7	4.8	28.8
Hostetter and others, 1991 ³⁶	MN	International adoptees from Asia and Central/South America	279	1.4	2.2	1.1	0.7
Johnson and others, 1992 ³⁷	MN, MA	International adoptees from Romania	61	0.0	9.8	24.6	14.8
Ciesielski and others, 1992 ³⁸	NC	Migrant farmworkers from the United States, Central America, and Mexico	265	5.7	5.7	1.1	0.8
Ciesielski and others, 1992 ³⁸	NC	Migrant farmworkers from the United States, Central America, and Mexico	181	8.8	7.2	1.1	2.2
Buchwald and others, 1995 ³⁹	WA	Immigration clinic, Southeast Asian immigrants	201	4.5	1.0	0.5	2.5
Meropol, 1995 ⁴⁰	NY	International adoptees from Asia and Africa	87	5.7	2.3	9.2	—
Hayes and others, 1998 ⁴¹	ME	International adoptees from Asia, Africa, and Central/South America	87	4.6	18.4	5.7	—
Adair and Nwaneri, 1999 ⁴²	MN	Immigration clinic, African immigrants	53	0.0	13.2	1.9	0.0
Miller and Hendrie, 2000 ⁴³	MA	International adoptees from China	169	0.0	0.0	1.2	0.0
Sachs and others, 2000 ⁴⁴	MN	Immigration clinic, East African immigrants	51	0.0	5.9	2.0	0.0
Saiman and others, 2001 ⁴⁵	NY	International adoptees from Asia, Africa, and Central/South America	504	0.0	0.0	0.2	0.0

(continued)

SUPPLEMENTAL APPENDIX B
Continued

Study and year	Study location	Study population description	No. of patients	Hookworm (%)	<i>Trichuris trichiura</i> (%)	<i>Ascaris lumbricoides</i> (%)	<i>Strongyloides stercoralis</i> (%)
Lifson and others 2002 ⁴⁶	MN	Immigration clinic	2,129	3.0	8.4	1.4	0.8
Geltman and others, 2003 ⁴⁷	MA	Immigration clinic, African immigrants	1,254	1.3	9.1	1.6	0.2
Garg and others, 2005 ⁴⁸	CA	Immigration clinic	533	2.1	0.4	1.3	1.3
Franco-Paredes and others, 2007 ⁴⁹	GA	Immigration clinic, Sudanese immigrants	40	0.0	0.0	0.0	25.0
Posey and others, 2007 ⁵⁰	US	Immigration clinic, Sudanese immigrants	462	—	—	—	46.3
Posey and others, 2007 ⁵⁰	US	Immigration clinic, Somali Bantu	100	—	—	—	23.0
Varkey and others, 2007 ⁵¹	MN	Immigration clinic, African	1,547	8.9	44.8	8.6	1.7
Varkey and others, 2007 ⁵¹	MN	Immigration clinic, Asian	214	32.2	8.4	28.0	7.0
Varkey and others, 2007 ⁵¹	MN	Immigration clinic, European	207	1.0	13.5	12.6	2.4
Miller and others, 2008 ⁵²	MA	International adoptees from Ethiopia	32	3.1	18.8	6.3	0.0
Russell and others, 2010 ⁵³	NC	Migrant farmworkers from Mexico and Central/ South America	16	0.0	0.0	0.0	0.0

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