

# Epidemiology of Pediatric Tuberculosis in the United States, 1993–2014

## Slide 1

Epidemiology of Pediatric Tuberculosis in the United States, 1993–2014

Surveillance, Epidemiology, and Outbreak Investigations Branch Division of Tuberculosis Elimination  
Centers for Disease Control and Prevention (CDC)

## Slide 2

Pediatric Tuberculosis—Background

- Definition of pediatric tuberculosis (TB): TB disease in a person <15 years old
  
- In 2014,
  - 9,421 TB cases were reported among all age groups
  - 460 (4.9%) were pediatric
    - 262 (2.8%) in ages 0–4
    - 198 (2.1%) in ages 5–14

## Slide 3

2009 TB Case Definition and Verification

- Incident case of disease
- Case verification categories:
  1. Laboratory confirmed cases:
    - Positive culture or nucleic acid amplification test
    - Positive Acid-Fast Bacillus smear when culture not attainable
  2. Clinical case definition
    - Positive tuberculin skin test or positive interferon gamma release assay
    - Signs and symptoms of TB disease
    - Current treatment for TB disease
    - Completed diagnostic evaluation
  3. Provider diagnosis:
    - Diagnosed by health care provider
    - Does not fulfill all criteria necessary to meet laboratory or clinical case definitions

**Slide 4**

TB Cases, All Ages, by Age Group, 1993–2014

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<15 years	1660	1659	1536	1356	1251	1077	1038	964	929	944	911	952	851	803	777	788	647	636	578	488	484	460
15-24 years	1821	1832	1697	1637	1674	1543	1518	1618	1597	1498	1573	1603	1540	1532	1580	1444	1278	1199	1031	1019	980	961
25-44 years	9589	9043	8200	7564	6884	6335	6062	5576	5610	5288	5074	4940	4739	4690	4313	4238	3891	3669	3365	3118	2961	2823
45-64 years	6195	6126	5960	5572	5278	4954	4860	4635	4515	4182	4283	4192	4123	4039	4037	3929	3424	3429	3291	3115	2959	2961
65+ years	5820	5540	5328	5076	4663	4377	4019	3515	3293	3142	2994	2811	2810	2663	2574	2496	2283	2228	2245	2199	2181	2216

**Slide 5**

TB Case Rates, All Ages, by Age Group 1993–2014

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Overall US	9.7	9.3	8.6	8.0	7.4	6.8	6.4	5.8	5.6	5.2	5.1	5.0	4.8	4.6	4.4	4.2	3.8	3.6	3.4	3.2	3.0	3.0
<15 years	2.9	2.9	2.7	2.3	2.2	1.9	1.8	1.6	1.5	1.6	1.5	1.6	1.4	1.3	1.3	1.3	1.1	1.0	0.9	0.8	0.8	0.8
15-24 years	5.0	5.1	4.7	4.5	4.6	4.1	4.0	4.1	4.0	3.7	3.8	3.8	3.6	3.6	3.7	3.3	2.9	2.7	2.4	2.3	2.2	2.2
25-44 years	11.6	10.9	9.8	9.0	8.2	7.6	7.3	6.6	6.6	6.3	6.1	5.9	5.7	5.7	5.2	5.1	4.7	4.5	4.1	3.8	3.5	3.4
45-64 years	12.5	12.0	11.4	10.4	9.5	8.7	8.2	7.4	7.0	6.3	6.2	5.9	5.6	5.4	5.2	5.0	4.3	4.2	4.0	3.8	3.6	3.5
65+ years	17.7	16.7	15.8	14.9	13.6	12.7	11.6	10	9.3	8.8	8.3	7.8	7.7	7.2	6.8	6.4	5.8	5.5	5.4	5.1	4.9	4.8

Note: Rates presented on a logarithmic scale

**Slide 6**

Percentage of Pediatric TB Cases by Age Group 1993–2014

N=20,789

	Age < 1 year	Age 1–4 years	Age 5–9 years	Age 10–14 years
Pediatric	10.1	48.8	22.5	18.6

**Slide 7**

Pediatric TB Cases by Age Group 1993–2014

N=20,789

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Age < 1 year	156	139	118	102	111	103	96	91	97	101	95	81	80	91	115	117	93	76	72	59	67	45
Age 1–4 years	858	856	776	668	623	535	506	453	446	455	452	468	394	391	352	382	310	289	279	202	229	217
Age 5–9 years	358	395	393	368	305	243	250	222	208	196	195	203	195	159	159	141	140	139	96	109	92	100
Age 10–14 years	288	269	249	218	212	196	186	198	178	192	169	200	182	162	151	148	104	132	131	118	96	98

**Slide 8**

Pediatric TB Case Rates by Age Groups 1993–2014

N=20,789

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Age &lt; 1 year</b>	4.0	3.6	3.1	2.7	2.9	2.7	2.5	2.4	2.4	2.6	2.4	2.0	2.0	2.3	2.8	2.8	2.3	1.9	1.8	1.5	1.7	1.1
<b>Age 1–4 years</b>	5.4	5.4	4.9	4.3	4.1	3.5	3.3	3.0	2.9	2.9	2.9	3.0	2.5	2.5	2.2	2.4	1.9	1.8	1.7	1.3	1.4	1.4
<b>Age 5–9 years</b>	1.9	2.1	2.1	1.9	1.5	1.2	1.3	1.1	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.4	0.5
<b>Age 10–14 years</b>	1.6	1.4	1.3	1.1	1.1	1.0	1.0	1.0	0.8	0.9	0.8	0.9	0.9	0.8	0.7	0.7	0.5	0.6	0.6	0.6	0.5	0.5

Note: Rates presented on a logarithmic scale

**Slide 9**

Pediatric TB Cases by Race/Ethnicity 1993–2014

N=20,789

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>White, non-Hispanic</b>	250	230	185	157	136	137	125	104	87	103	82	76	65	64	70	49	47	46	47	36	46	35
<b>Black, non-Hispanic</b>	559	572	517	515	469	372	345	334	310	330	257	289	263	251	225	228	158	177	158	126	125	105
<b>Hispanic</b>	639	642	624	512	438	423	432	374	413	401	431	457	396	387	353	359	310	283	255	188	182	190
<b>American Indian/ Alaskan Native</b>	22	31	34	37	29	15	15	27	8	13	13	13	12	9	9	10	4	13	12	19	12	4
<b>Asian</b>	151	158	146	110	138	97	97	95	94	82	115	103	99	84	104	132	107	93	88	104	100	88

Note: Unknown, multiple race/ethnicity, and Native Hawaiian and Other Pacific Islander not shown

**Slide 10**

Pediatric TB Case Rates by Race/Ethnicity 1993–2014

N=20,789

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>White, non-Hispanic</b>	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>Black, non-Hispanic</b>	6.7	6.8	6.1	6.1	5.5	4.4	4.1	3.7	3.4	3.7	2.9	3.3	3.0	2.9	2.6	2.7	1.9	2.1	1.9	1.5	1.5	1.3
<b>Hispanic</b>	8.4	8.1	7.6	6.0	5.0	4.6	4.6	3.5	3.8	3.5	3.7	3.8	3.2	3.0	2.6	2.6	2.2	2.0	1.7	1.3	1.2	1.3
<b>Asian</b>	7.6	7.7	6.8	5.0	6.1	4.1	4.0	4.6	4.4	3.7	5.1	4.4	4.1	3.4	4.1	5.1	4.0	3.4	3.2	3.8	3.5	3.0

Rates presented on a logarithmic scale.

Note: American Indian/Alaska Native, and Native Hawaiian and Other Pacific Islander rates not shown because of small denominators

**Slide 11**

Pediatric TB Case Rates by Age Groups U.S.-born, 1994–2014  
N=15,522

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Age &lt; 1 year, USB</b>	3.3	2.8	2.4	2.7	2.3	2.3	2.1	2.2	2.6	2.6	2.2	1.9	2.1	2.6	2.5	2.1	1.7	1.8	1.4	1.8	1.1
<b>Age 1-4 years, USB</b>	4.4	4.1	3.6	3.4	2.9	2.7	2.4	2.3	2.4	2.2	2.3	2.0	2.0	1.8	2.0	1.6	1.5	1.4	1.0	1.2	1.2
<b>Age 5-9 years, USB</b>	1.3	1.4	1.3	1.1	0.9	0.8	0.8	0.6	0.6	0.6	0.7	0.6	0.6	0.5	0.4	0.5	0.5	0.3	0.4	0.3	0.4
<b>Age 10-14 years, USB</b>	0.8	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.3	0.3

Note: Rates presented on a logarithmic scale. Data is not available before 1994.

**Slide 12**

Pediatric TB Case Rates by Age Groups Foreign-born, 1994–2014  
N=5,191

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Age &lt; 1 year, FB</b>	23.3	106.3	45.1	177.6	43.5	55.7	53.7	69.7	9.3	25.4	9.4	16.2	217.8	32.4	52.8	11.8	26.7	5.6	22.4	16.8	7.5
<b>Age 1-4 years, FB</b>	61.1	56.6	37.8	38.6	32.3	34.2	28.5	24.8	24.1	34.5	32.5	24.1	21.9	25.3	19.6	17.7	12.4	17.2	18.0	18.7	16.2
<b>Age 5-9 years, FB</b>	22.7	22.7	16.6	13.2	9.9	15.3	11.1	15.2	9.8	12.0	10.7	11.2	6.0	9.2	8.1	8.5	7.4	4.5	6.7	5.4	4.5
<b>Age 10-14 years, FB</b>	14.8	16.0	12.1	10.6	9.2	7.9	8.6	8.6	9.3	7.7	10.8	9.2	7.8	6.9	8.1	4.1	6.5	6.5	6.3	4.3	5.1

Note: Rates presented on a logarithmic scale. Data is not available before 1994.

**Slide 13**

Number and Percentage of Pediatric TB Cases by U.S. and Foreign Birth, 1993–2014

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Foreign-born</b>	413	386	353	313	287	249	265	255	269	249	268	280	243	200	206	203	143	152	120	136	98	103
<b>U.S.-born</b>	1231	1252	1181	1040	960	822	762	707	659	690	643	671	607	603	570	585	504	484	458	351	385	357
<b>Percentage foreign-born</b>	24.9	23.3	23.0	23.1	22.9	23.1	25.5	26.4	29.0	26.4	29.4	29.4	28.6	24.9	26.5	25.8	22.1	23.9	20.8	27.9	20.2	22.4

**Slide 14**

Number of Pediatric TB Cases with Foreign Birth by Birth Country\*, by 7-Year Intervals, 1994–2014  
N=4,778

1994-2000 (n)	2001-2007 (n)	2008-2014 (n)
Mexico (836)	Mexico (563)	Mexico (129)
Philippines (182)	Somalia (123)	Ethiopia (90)
Viet Nam (119)	Philippines (109)	Philippines (81)
Somalia (87)	Haiti (77)	Burma (65)
Haiti (62)	Ethiopia (65)	Haiti (53)
Russia (61)	Viet Nam (57)	Somalia (45)
Other (761)	Other (721)	Other (492)

\*Ranked by counts

**Slide 15**

States with the Greatest Percentage of Total Pediatric TB Cases, 1993-2014

N=20,789

	California	Texas	New York	Florida	Georgia	Illinois	All Others
<b>Pediatric Percentage (%)</b>	23.7	12.5	8.0	5.3	4.5	4.4	41.6

**Slide 16**

States with Greatest Numbers of Pediatric TB Cases, 1993–2014

Pediatric TB Cases

State	Number	Percent*	Rate**
<b>California</b>	4,932	6.9	2.9
<b>Texas</b>	2,604	7.1	2.3
<b>New York</b>	1,660	4.5	2.0
<b>Florida</b>	1,110	4.6	1.6
<b>Georgia</b>	932	7.7	2.3
<b>Illinois</b>	907	6.2	1.6
<b>All others</b>	8,644	5.9	1.1
<b>Overall U.S.</b>	20,789	6.1	1.6

\*Average percentage of total state cases that are pediatric, for all years

\*\*Time-averaged annual rate per 100,000

**Slide 17**

States with Greatest Percentage of Pediatric TB cases, 1993–2014

State	Number	Percent*	Rate**
<b>Alaska</b>	165	11.6	4.8
<b>Oklahoma</b>	362	10.5	2.2
<b>Rhode Island</b>	95	10.3	2.3
<b>Minnesota</b>	393	10.0	1.7
<b>North Dakota</b>	17	9.1	0.6
<b>South Dakota</b>	33	8.8	0.9
<b>All others</b>	19,724	6.0	1.6
<b>Overall U.S.</b>	20,789	6.1	1.6

\*Average percentage of total state cases that are pediatric, for all years

\*\*Time-averaged annual rate per 100,000

**Slide 18**

States with Greatest Rate of Pediatric TB Cases, 1993–2014

State	Number	Percent*	Rate**
<b>Alaska</b>	165	11.6	4.8
<b>D.C.<sup>†</sup></b>	70	4.1	3.5
<b>California</b>	4,932	6.9	2.9
<b>Texas</b>	2,604	7.1	2.3
<b>Georgia</b>	932	7.7	2.3
<b>Rhode Island</b>	95	10.3	2.2
<b>All others</b>	11,991	5.5	1.2
<b>Overall U.S.</b>	20,789	6.1	1.6

\*Average percentage of total state cases that are pediatric, for all years

\*\*Time-averaged rate per 100,000

†D.C. (District of Columbia) is a distinct reporting jurisdiction

**Slide 19**

Pediatric TB Cases by Case Verification Criteria\*, 1993–2014  
N=20,789

Laboratory Confirmed	Clinical Case	Provider Diagnosis
26%	51%	23%

\*Based on the public health surveillance definition for TB [MMWR 1997:46(No. RR-10):40-41]

**Slide 20**

Pediatric TB Cases by Case Verification Criteria and Age Group, 1993–2014  
N=20,789

Age < 1 year n=2,105

Laboratory Confirmed	Clinical Case	Provider Diagnosis
51%	26%	23%

Age 1–4 years n=10,141

Laboratory Confirmed	Clinical Case	Provider Diagnosis
20%	55%	25%

Age 5–9 years n=4,666

Laboratory Confirmed	Clinical Case	Provider Diagnosis
16%	60%	24%

Age 10–14 years n=3,877

Laboratory Confirmed	Clinical Case	Provider Diagnosis
38%	46%	16%

**Slide 21**

Pediatric TB Cases by Site of Disease, 1993–2014

	<b>Pulmonary</b>	<b>Extrapulmonary</b>	<b>Both</b>
<b>Site of Disease</b>	70.6%	22.2%	7.2%

<b>Any extrapulmonary involvement*</b> <b>(totaling 29.4%)</b>	
<b>Lymphatic</b>	18.8%
<b>Meningeal</b>	3.5%
<b>Miliary</b>	1.3%
<b>Bone &amp; Joint</b>	1.5%
<b>Other</b>	4.3%

\* Any extrapulmonary involvement which includes cases that are extrapulmonary only and both. Patients may have more than one disease site but are counted in mutually exclusive categories for surveillance purposes.

**Slide 22**

Pediatric TB Cases by Site of Disease and Age Group, 1993–2014

N=20,789

Age <1 year n=2,105

	<b>Pulmonary</b>	<b>Extrapulmonary</b>	<b>Both</b>
<b>Site of Disease</b>	75.3%	10.5%	14.2%

Age 1–4 years n=10,141

	<b>Pulmonary</b>	<b>Extrapulmonary</b>	<b>Both</b>
<b>Site of Disease</b>	71.8%	20.8%	7.4%

Age 5–9 years n=4,666

	<b>Pulmonary</b>	<b>Extrapulmonary</b>	<b>Both</b>
<b>Site of Disease</b>	69.4%	25.7%	4.9%

Age 10–14 years n=3,877

	<b>Pulmonary</b>	<b>Extrapulmonary</b>	<b>Both</b>
<b>Site of Disease</b>	66.1%	27.9%	6.0%

**Slide 23**

Pediatric TB Cases with Any Extrapulmonary Involvement\* by Age Group and Selected Sites of Disease, 1993–2014  
N=20,789

<b>Site of Disease</b>	<b>Age &lt; 1 (n=2,105)</b>	<b>Age 1-4 (n=10,141)</b>	<b>Age 5-9 (n=4,666)</b>	<b>Age 10-14 (n=3,877)</b>
<b>Lymphatic</b>	7.9%	19.2%	22.1%	19.4%
<b>Meningeal</b>	8.3%	3.9%	1.6%	2.1%
<b>Miliary</b>	4.7%	1.1%	0.5%	1.1%
<b>Bone &amp; Joint</b>	0.4%	1.3%	1.8%	2.3%
<b>Other</b>	3.4%	2.6%	4.5%	9.0%
<b>Total</b>	24.7%	28.1%	30.5%	33.9%

\*Any extrapulmonary involvement includes extrapulmonary only and both

Note: Combine the total extrapulmonary percentage shown with the pulmonary percentage in slide #22 to obtain 100% for each age group.

**Slide 24**

Percentage of TB Cases in Children Age < 1 Year with Any Extrapulmonary Involvement\*, 1993–2014  
N=2,105

<b>Site of Disease</b>	<b>U.S.-born (n=1,955)</b>	<b>Foreign-born (n=145)</b>
<b>Lymphatic</b>	7.2%	17.9%
<b>Meningeal</b>	8.7%	2.7%
<b>Miliary</b>	4.8%	3.5%
<b>Bone &amp; Joint</b>	0.3%	0.7%
<b>Other</b>	3.4%	3.5%
<b>Total</b>	24.4%	28.3%

\*Any extrapulmonary involvement includes extrapulmonary only and both

**Slide 25**

Percentage of TB Cases in Children Age 1–4 Years with Any Extrapulmonary Involvement\*, 1993–2014  
N=10,141

Site of Disease	U.S.-born (n=8,440)	Foreign-born (n=1,659)
<b>Lymphatic</b>	19.3%	18.7%
<b>Meningeal</b>	4.4%	1.9%
<b>Miliary</b>	1.1%	0.9%
<b>Bone &amp; Joint</b>	1.2%	2.2%
<b>Other</b>	2.7%	2.0%
<b>Total</b>	28.7%	25.7%

\*Any extrapulmonary involvement includes extrapulmonary only and both

**Slide 26**

Percentage of TB Cases in Children Age 5–9 Years with Any Extrapulmonary Involvement\*, 1993–2014  
N=4,666

Site of Disease	U.S.-born (n=3,086)	Foreign-born (n=1,561)
<b>Lymphatic</b>	23.3%	19.8%
<b>Meningeal</b>	2.0%	1.0%
<b>Miliary</b>	0.5%	0.6%
<b>Bone &amp; Joint</b>	1.5%	2.4%
<b>Other</b>	4.7%	4.2%
<b>Total</b>	32.0%	28.0%

\*Any extrapulmonary involvement includes extrapulmonary only and both

**Slide 27**

Percentage of TB Cases in Children Age 10–14 Years with Any Extrapulmonary Involvement\*, 1993–2014  
N=3,877

Site of Disease	U.S.-born (n=2,041)	Foreign-born (n=1,826)
<b>Lymphatic</b>	20.3%	18.5%
<b>Meningeal</b>	2.2%	2.0%
<b>Miliary</b>	1.5%	0.7%
<b>Bone &amp; Joint</b>	2.0%	2.6%
<b>Other</b>	10.0%	7.7%
<b>Total</b>	36.0%	31.5%

\*Any extrapulmonary involvement includes extrapulmonary only and both

**Slide 28**

Pediatric TB Cases by HIV Status, 1993–2013\*

N=20,329

- Information on HIV result is not available for the majority of pediatric TB cases (74.1%)
- Percentage of pediatric TB cases with HIV-positive test results, minimum estimate\*\* (0.9%)
- Percentage of pediatric cases with HIV-positive test results of those patients with known results (3.4%)

\*California HIV data missing from 2005 – 2010; Vermont HIV data through 2006 only.

\*\*Pediatric TB cases with positive HIV test results divided by all pediatric TB cases.

Through 2004, California only reported positive HIV test results based on TB and AIDS registry matching; all other California TB cases were classified as “Unknown.”

**Slide 29**

Number and Percentage of Culture-confirmed Pediatric TB Cases with Drug Resistance, 1993–2013

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
<b>Resistance to any 1st line drug</b>	31	43	31	38	38	28	28	27	38	33	31	40	38	27	24	44	32	22	18	22	30
<b>Percentage with resistance to any 1st line drug</b>	9.7	13.3	10.3	12.7	13.4	12.2	12.3	11.3	15.0	14.7	14.8	17.4	18.2	13.3	11.3	21.4	19.4	13.8	11.7	15.8	18.5
<b>MDR TB</b>	6	6	4	6	4	6	5	1	3	4	3	1	5	4	4	5	3	2	3	3	2
<b>Percent with MDR TB</b>	1.9	1.9	1.3	2.0	1.4	2.6	2.2	0.4	1.2	1.8	1.4	0.4	2.4	2.0	1.9	2.4	1.8	1.3	1.9	2.2	1.2

First line drugs are Isoniazid, Rifampin, Pyrazinamide and Ethambutol

MDR TB = resistance to at least Isoniazid and Rifampin

**Slide 30**

Pediatric TB Cases by Use of Directly Observed Therapy (DOT), 1993–2012

N=19,782\*

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
<b>DOT only</b>	22.1	26.9	41.0	47.4	55.5	58.3	56.6	61.8	61.9	64.5	63.5	65.8	64.6	65.2	63.7	68.3	66.5	65.2	67.3	68.0
<b>Self-Administered only</b>	64.3	51.0	34.5	28.2	20.1	17.1	15.1	13.4	11.3	7.6	6.3	6.3	6.6	4.7	4.0	3.4	4.8	5.0	2.4	3.9
<b>DOT and Self-Administered</b>	12.1	19.1	22.3	22.1	22.5	23.4	26.0	23.9	26.0	26.3	29.3	25.7	27.9	30.1	32.0	27.0	28.1	29.5	28.9	27.5

\*Pediatric TB cases with patient alive at diagnosis and started on treatment

**Slide 31**

**Pediatric TB Cases by Treatment Outcome 1993–2012**

N=19,782\*

<b>Outcome</b>	<b>Cases</b>	<b>%</b>
<b>Completed treatment</b>	18,898	95.6
<b>Moved</b>	397	2.0
<b>Lost to follow-up</b>	162	0.8
<b>Died</b>	103	0.5
<b>Other**</b>	222	1.1

Note: Cause of death not recorded in TB case reports until 2009; “Moved” no longer a valid response

\*Pediatric TB cases with patient alive at diagnosis and started on treatment

\*\*Other includes refused, other, unknown, adverse drug reaction, and missing

**Slide 32**

**Deaths Occurring Among Pediatric TB Cases, by Age Group, 1993–2012**

N=19,782

<b>Age Group</b>	<b>Cases</b>	<b>Deaths*</b>	<b>% of Cases</b>
<b>Age&lt;1 year</b>	1,975	38	1.9
<b>Age 1–4 years</b>	9,671	62	0.6
<b>Age 5–9 years</b>	4,459	28	0.6
<b>Age 10–14 years</b>	3,677	24	0.7

Note: Cause of death not recorded in TB case reports for the full time period analyzed

\*Death includes died during therapy or dead at TB diagnosis