Mississippi State Department of Health
Office of Tuberculosis and Refugee Health
Mississippi
2017 Population by Health District

State = 2,984,100
Mississippi 2016/2017 TB Case Rates by District

STATE RATE
2016 – 2.04
2017 – 1.74
Mississippi & U.S. TB Case Rates, 1981-2017

Year of Diagnosis

U.S. = 2.87 2.79
MS = 2.04 1.74
Mississippi Verified TB Disease by Health District

Number of Cases

Health District

Mississippi 2017
TB Cases by Race

- White: 13 cases (25%)
- Black: 35 cases (49%)
- Asian/Pacific Islander: 3 cases (6%)
- American Indian: 1 case (2%)
- Other: 35 cases (25%)
Mississippi 2017
US vs. Foreign-Born Reported Tuberculosis Disease

US 83%
Foreign 17%
Mississippi 2011-2017
U.S. vs. Foreign-Born Reported TB Disease
Country of Origin of Foreign Born TB Cases Reported in 2017 (N=9, 17%)

- Vietnam, 2
- Mexico, 2
- China, 1
- Guatemala, 1
- Jordan, 1
- Nicaragua, 1
- Yemen, 1
Mississippi 2011-2017
Reported TB Cases by Age

Number of Cases

Age Groups

0-14 15-24 25-44 45-64 65+

Mississippi
Reported TB Disease Rates by Age

Year of Diagnosis

Cases per 100,000

0-14
15-24
25-44
45-64
65+

Mississippi 2017
Reported TB Cases by Age

- 0-14: 44%
- 15-24: 8%
- 25-44: 21%
- 45-64: 23%
- 65+: 4%
Mississippi
TB Cases by Gender 2006-2016

Year of Diagnosis

Number of Cases

- Male
- Female
Mississippi 2017
Location of Disease

- Pulmonary: 84%
- Lymphatic: 4%
- Spinal Cord: 2%
- Meningeal: 2%
- Brain: 2%
- Genitourinary: 2%
- Subcutaneous: 2%
<table>
<thead>
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<th>Year of Diagnosis</th>
<th>Positive NAA</th>
<th>Culture +</th>
<th>Provider Dx</th>
<th>Clinical</th>
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<td>6</td>
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Mississippi Cases by Verified Criteria

Number of Cases

Year of Diagnosis

Clinical
Provider Dx.
Culture +
Positive NAA
Mississippi
Impact of HIV on Incidence of TB

Number of TB Cases

Year of Diagnosis

Total TB
TB w/o HIV
Mississippi
TB Cases and Suspects 1992-2017
Mississippi
TBI Patients 1992-2017

Year of Diagnosis

Number of TBI Patients

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2005-2017 TBI Treatment
(2017 Incomplete)

Number of TBI Patients

Year of Diagnosis

Total TBI
Started Rx
Completed Rx
Total Patients Reported for TB Infection vs. Total Completing Therapy for TB Infection (2017 Preliminary)
Patients Starting Treatment for TB Infection vs. Therapy Completion (2017 Preliminary)
Patients Completing Treatment for TB Infection

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<td>82%</td>
<td>83%</td>
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Mississippi
Overall Completion of Therapy for TB Infection

Completion Percentage

Year of Diagnosis

'00 '02 '04 '06 '08 '10 '12 '14 '16

0 10 20 30 40 50 60 70 80 90 100

MS
Goal
Mississippi
Verified TB Disease/HIV Co-infection

Number of Cases

Year of Diagnosis

[Bar chart showing the number of cases of verified TB disease/HIV co-infection from 2001 to 2017. The chart indicates a peak in 2009.]
Percentage of TBI Patients Starting Rx

Year of Diagnosis

2007: 83%
2009: 83%
2011: 81%
2013: 62%
2015: 77%
2017: 66%

Starting Rx
Total TBI
Total TBI vs. TBI Patients Starting Rx

Year of Diagnosis

Total TBI Patients

- 2007
- 2009
- 2011
- 2013
- 2015
- 2017

Total TBI vs. Start Rx
Percent of TBI Patients Completed Rx

Year of Diagnosis:
- 2006: 50%
- 2008: 59%
- 2010: 62%
- 2012: 57%
- 2014: 55%
- 2016: 49%

Chart showing the percentage of TBI patients who completed their treatment over the years 2006 to 2016.
Mississippi
TB Disease Rates by Race and Year
(including Hispanic Ethnicity)
Drug Resistance Among Mississippi Cases
2013 Drug Resistance Among Mississippi Cases

2013
48 Culture-Positive cases counted.
- 1 patient, or 2%: Resistant to both INH and SM.
- 1 patient, or 2%: Solely resistant to SM.
2014 Drug Resistance Among Mississippi Cases

2014

57 Culture-Positive cases counted.
- 2 patients, or 3.5%: Solely resistant to PZA.
- 1 patient, or 2%: Solely resistant to INH.
- 2 patients, or 3.5%: Resistant to both INH and SM.
- 5 patients, or 9%: Resistant to SM.
2015 Drug Resistance Among Mississippi Cases

2015
43 Culture-Positive cases counted.
- 4 patients, or 9.3%: Solely resistant to SM.
- 2 patients, or 4.6%: Solely resistant to INH.
- 1 patient, or 2.3%: Solely resistant to PZA (not M. bovis).
2016 Drug Resistance Among Mississippi Cases

2016
48 Culture-Positive cases counted.
- 2 patients, or 4.2%: Resistant to INH, RIF, EMB, PZA, and SM.
- 2 patients, or 4.2%: Resistant to INH and SM.
- 1 patient, or 2.1%: Solely resistant to PZA (M. bovis).
2017 Drug Resistance Among Mississippi Cases

2017

43 Culture-Positive cases counted.
- 1 patient, or 2.3%: Resistant to INH, SM, and PZA.
- 2 patients, or 4.7%: Solely resistant to SM.
- 1 patient, or 2.3%: Solely resistant to INH.