

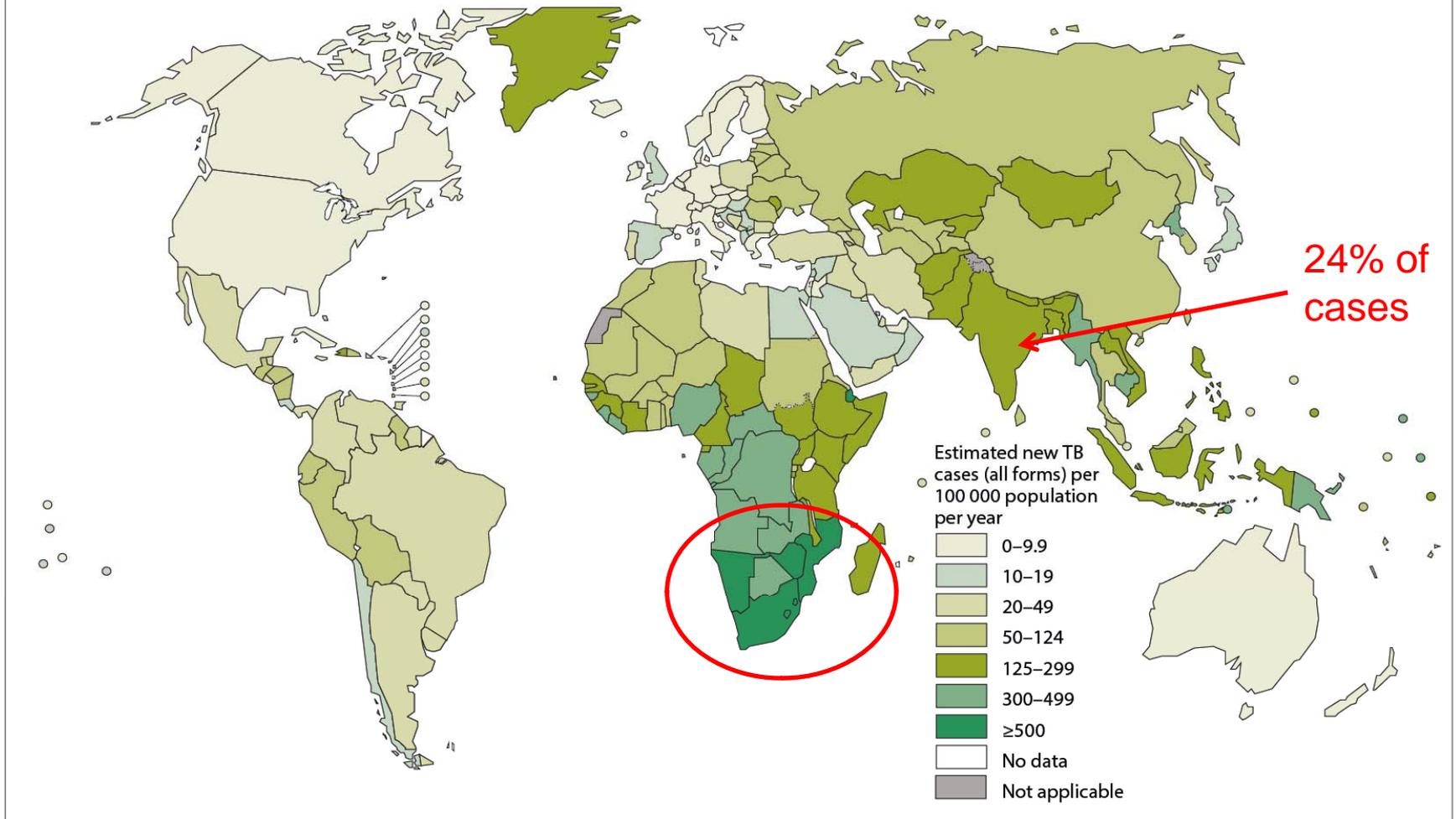
# Tuberculosis by the Numbers

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October 2015

# Global Burden of TB, 2013

- Estimated 9.0 million cases of TB disease
  - >50% in South-East Asia & Western Pacific Regions
  - 1.1 million (13%) were HIV-positive
    - Africa accounts for 4/5 of HIV-positive TB cases & TB deaths
  - 3.5% of cases are MDR-TB
- Estimated 1.5 million deaths from TB

## Estimated TB incidence rates, 2013



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: *Global Tuberculosis Report 2014*. WHO, 2014.

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# Global Progress in TB

- TB mortality rate fell by 45% between 1990 & 2013
  - TB prevalence rate fell by 41%
- TB incidence falling at ~1.5% per year
- Increase in number of direct measurements of TB prevalence from nationwide population-based surveys

# TB in the United States

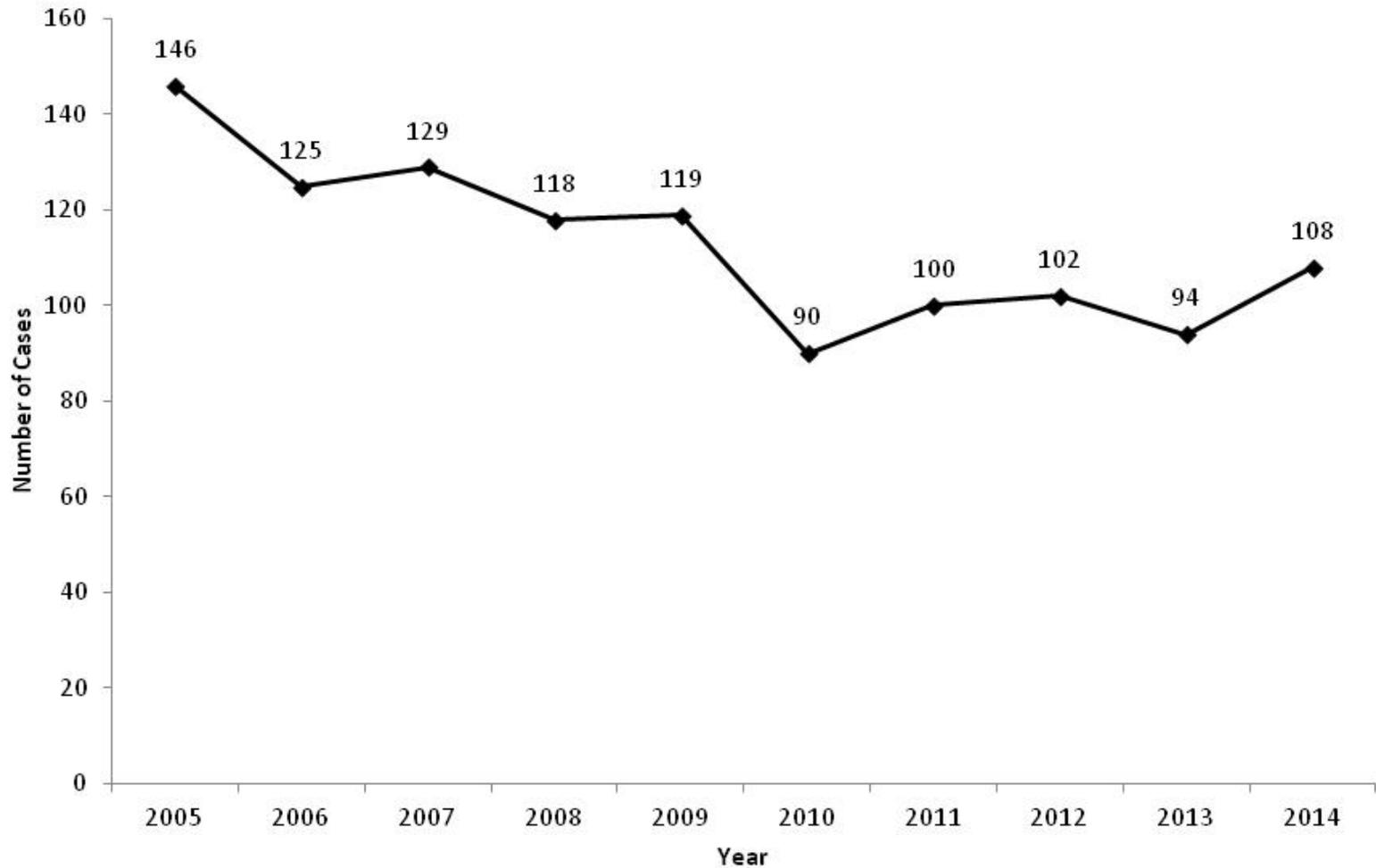
- 2013
  - 9,582 cases of TB
    - 3.6% decline from 2012
  - 3.02 per 100,000 persons
    - 4.3% decline from 2012
- 2014
  - 9,421 cases of TB
    - 1.5% decline from 2013
  - 2.96 per 100,000 persons
    - 2.2% decline from 2013

# TB in Indiana, 2014

- 108 cases
  - 1.6 per 100,000 population
- 4 deaths
- 67.6% pulmonary
- 80% of cases were lab-confirmed
- Marion County had highest burden

Figure 1.

## Number of Tuberculosis Cases Indiana, 2005 - 2014

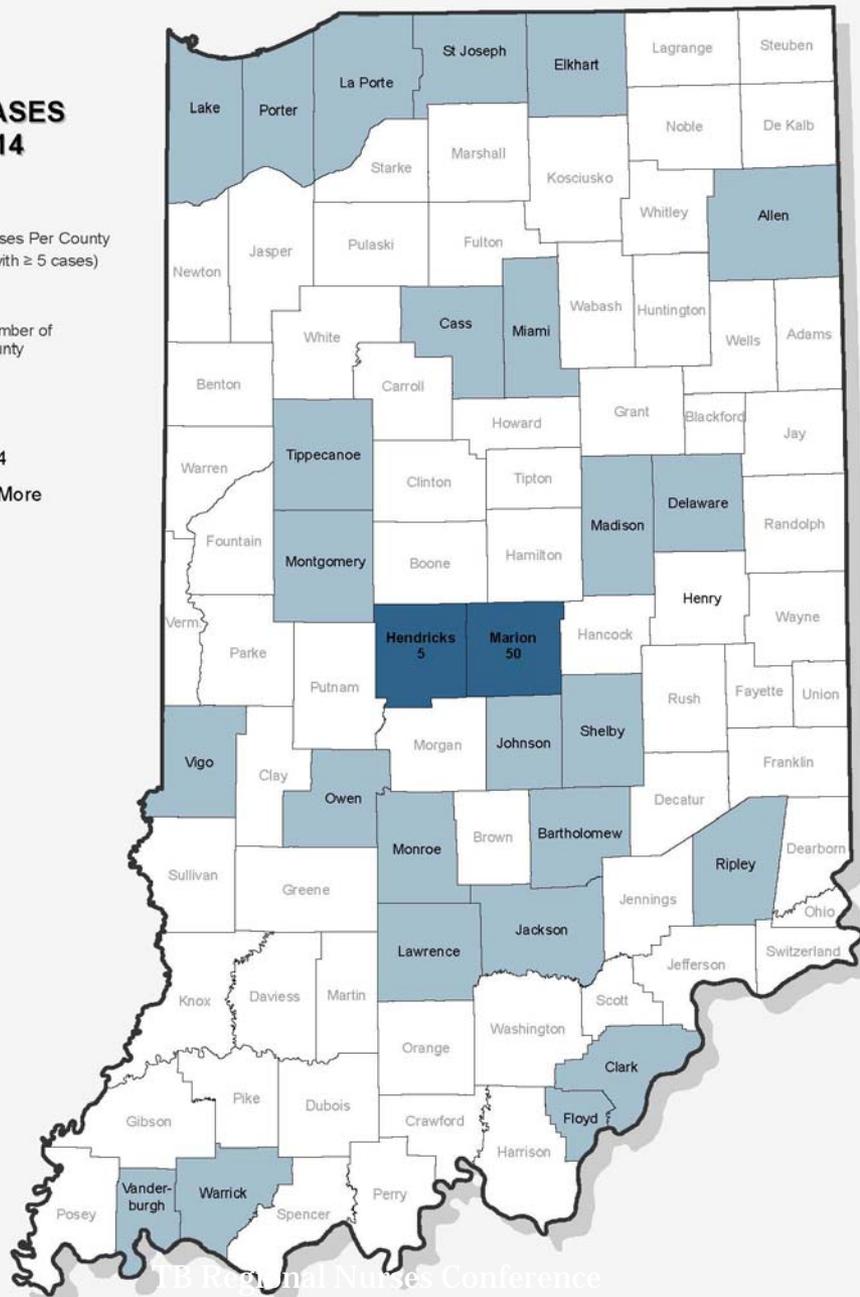
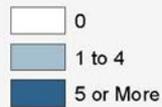


Source: 2014 TB Annual Report

# TB CASES 2014

Labeled by Cases Per County  
(for counties with ≥ 5 cases)

Shaded by Number of  
Cases per County



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Map Author: ISDH TB Control - April, 2014

Source: 2014 TB Annual Report

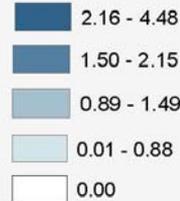
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# TB CASES AND INCIDENCE RATES

10-YEAR PERIOD:  
2005 to 2014

Labeled by Cases Per County  
(for counties with ≤ 5 cases)

Shaded by County Incidence  
Per 100,000 population\*



Rates based upon < 20 cases are unstable

\* 2014 population estimates were unavailable at the time of publication. The 2013 Census estimates were used in place of 2014 estimates.

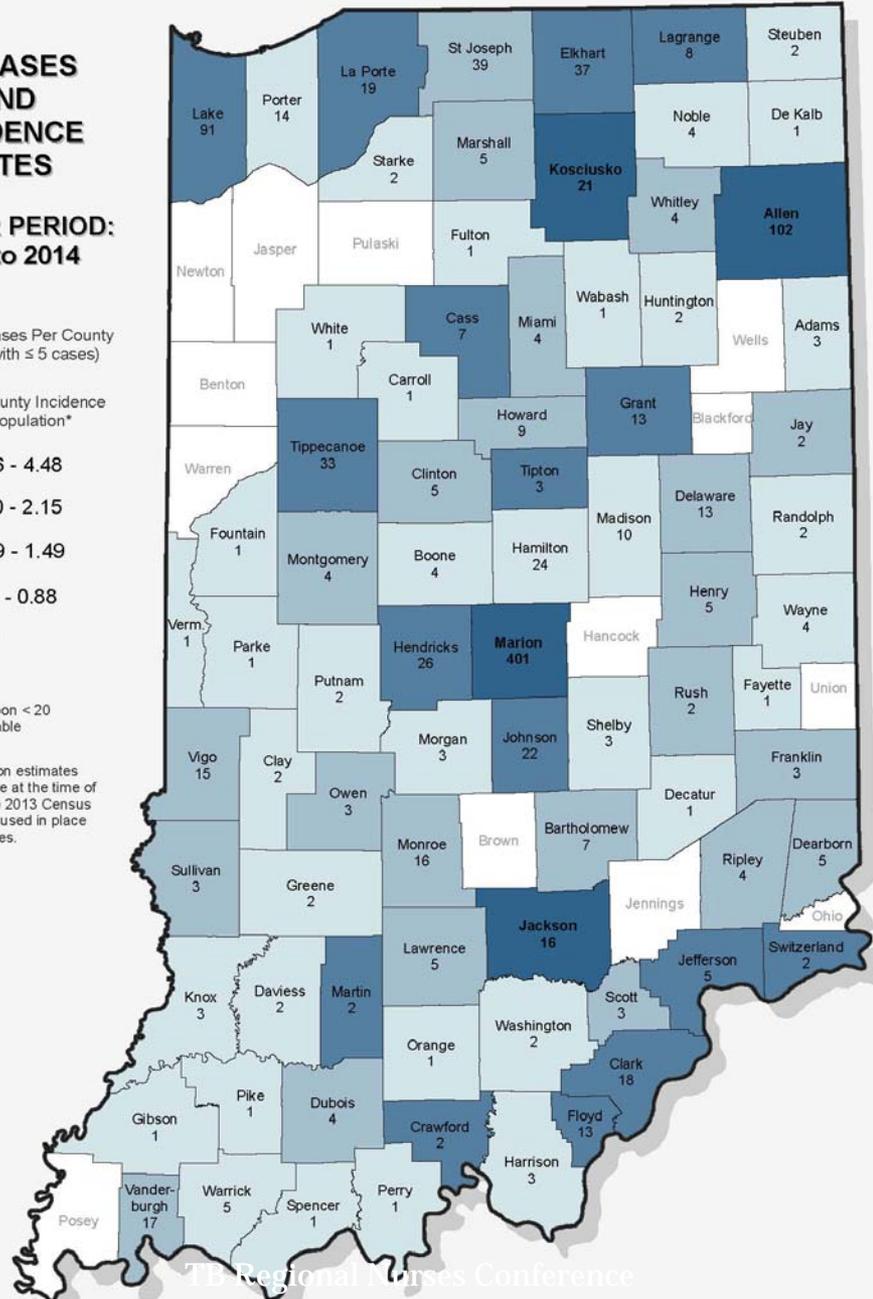
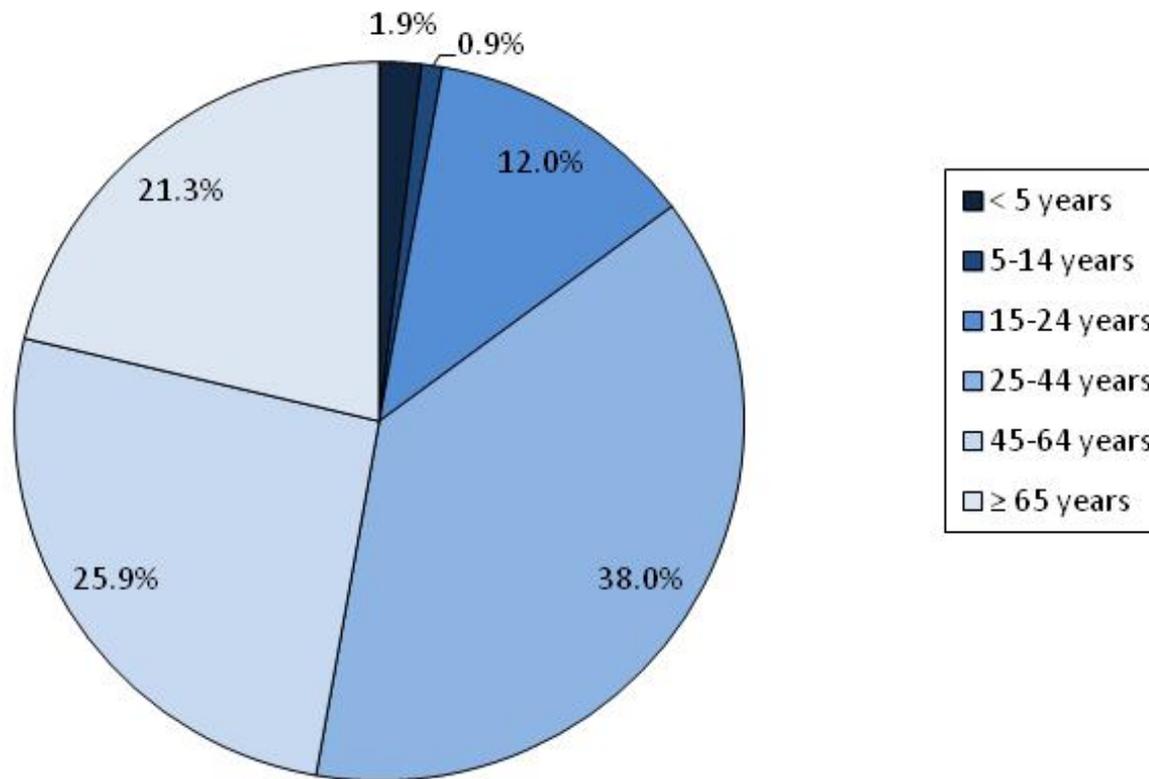


Figure 8.

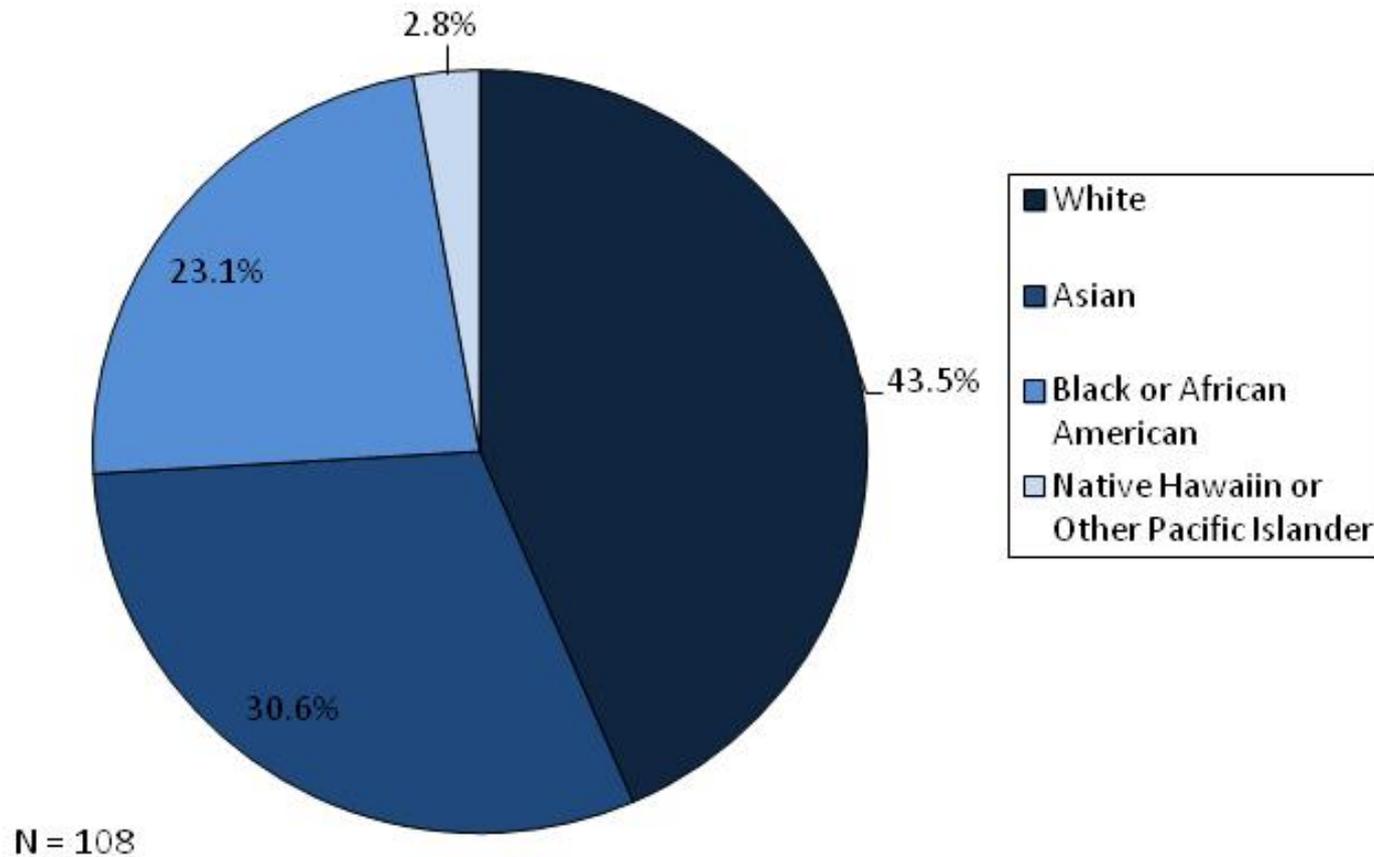
## Tuberculosis Cases by Age Group Indiana, 2014



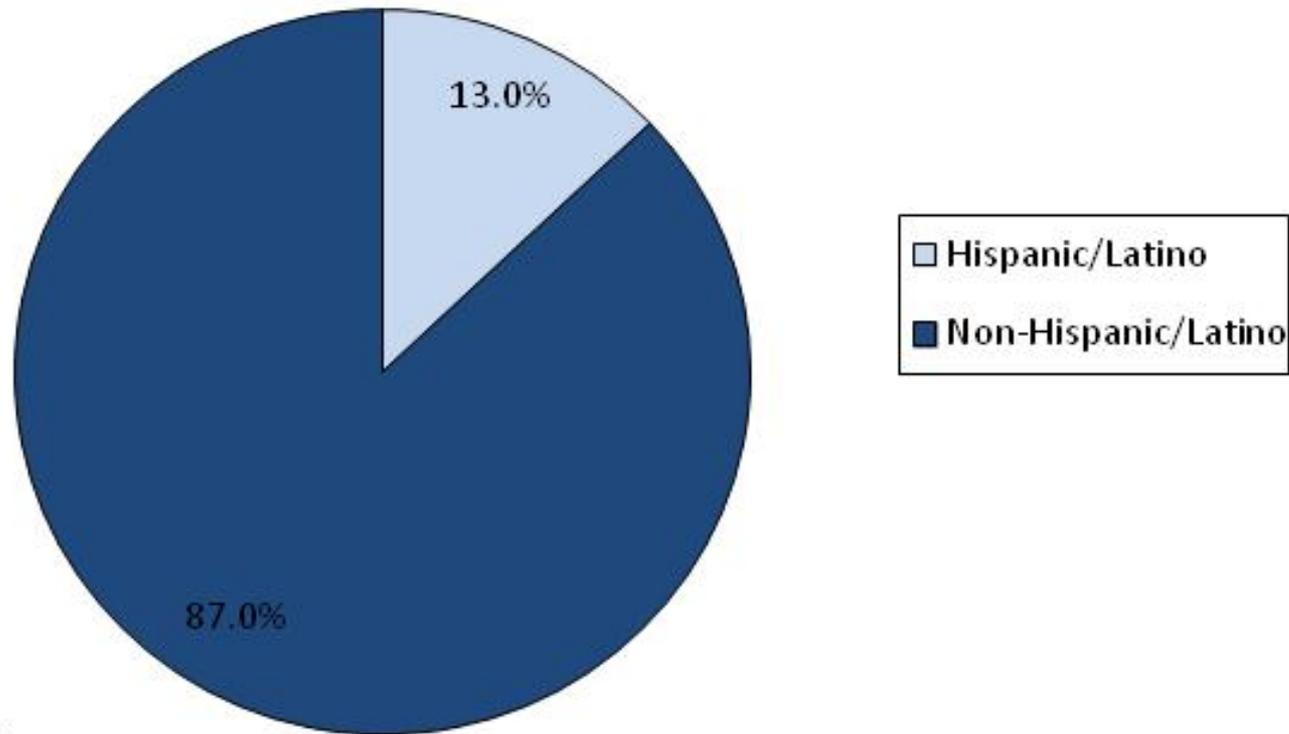
N = 108

Figure 11.

## Tuberculosis Cases by Race Indiana, 2014



**Figure 12. Tuberculosis Cases by Ethnicity  
Indiana, 2014**



N = 108

# TB in Foreign-Born Hoosiers

- 54.6% (59 cases) of 2014 cases were among foreign-born
- Burma, Mexico, India, & the Philippines were top countries of origin
- 39.0% had resided in the U.S. >5 years

## Number & Percentage of TB Cases by Risk Factor Indiana, 2014

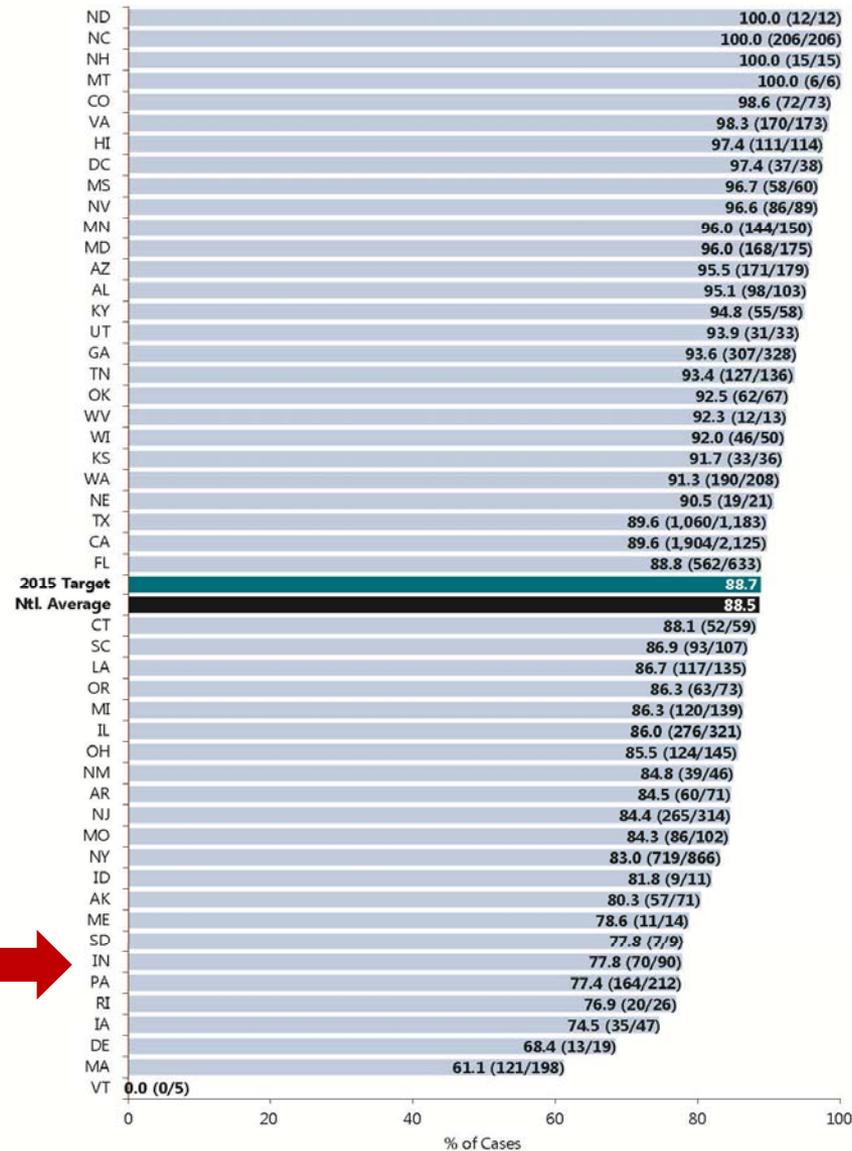
<b>Risk Factor</b>	<b>Number of Cases</b>	<b>Percent of Cases</b>
Resident of Correctional Facility	5	4.6%
Homelessness	10	9.3%
Resident of Long-Term Care Facility	2	1.9%
Injecting Drug Use	4	3.7%
Non-Injecting Drug Use	7	6.5%
Excess Alcohol Use	13	12.0%

# National Tuberculosis Indicators Project

- Monitoring system for tracking the progress of U.S. TB control programs toward achieving the national TB program objectives
- 15 program objective categories
  - Completion of Treatment
  - TB Case Rates
  - Known HIV Status

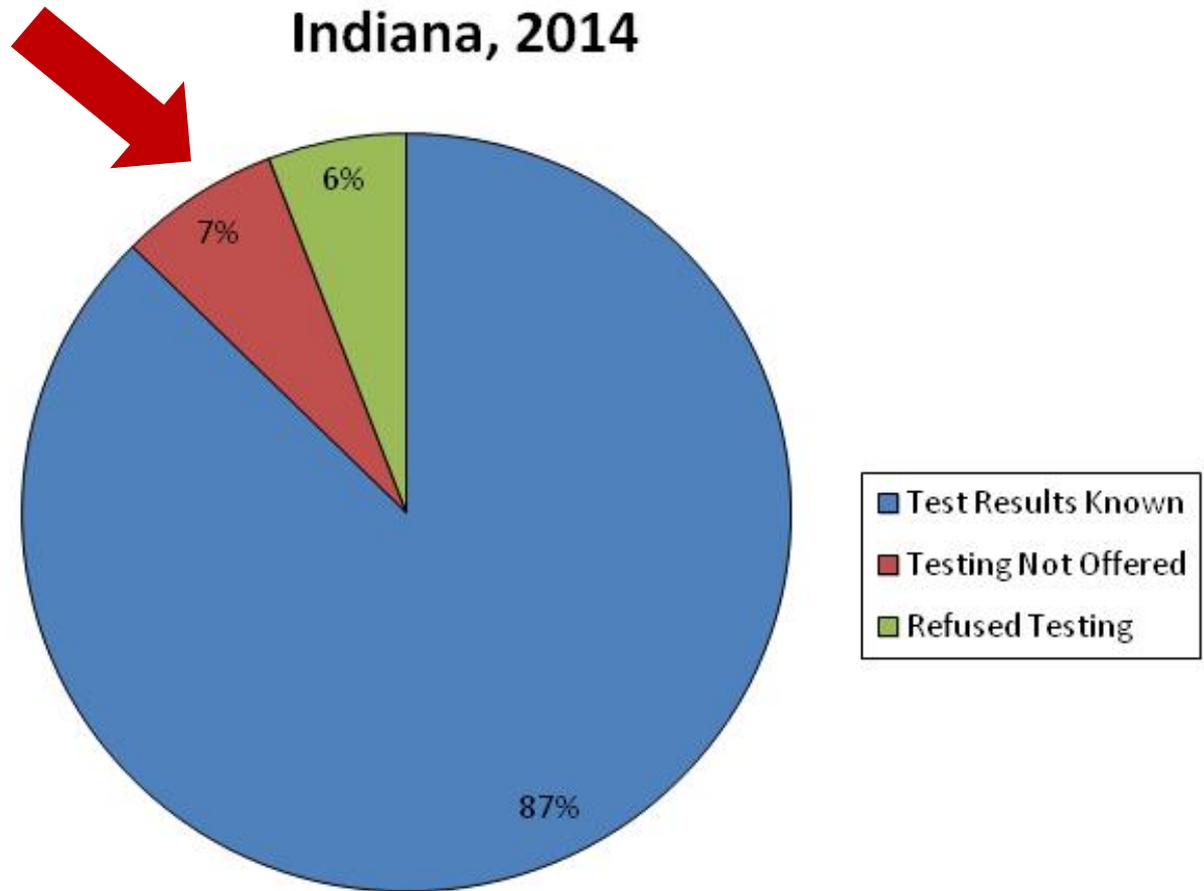
# What is an objective?

- National or state level “targets” with set time frame
- 2015 & 2020 national targets, yearly state targets
- Ex. 2015 National: Increase the proportion of TB cases with positive or negative HIV test results reported to 88.7%

Figure 5. TB Cases with Known HIV Status (positive or negative), United States, 2013<sup>1,2,3</sup>

<sup>1</sup>DC, DE, IA, ID, KS, ME, MT, ND, NE, NH, NM, RI, SD, UT, VT, WV, and WY reported 50 or fewer TB cases in 2013. Due to the small denominator, data should be interpreted with caution. <sup>2</sup>The fraction in each bar represents the number of TB cases with known HIV status (either positive or negative HIV test results) out of the total number of TB cases. <sup>3</sup>WY reported zero cases of TB in 2013.

## Percentage of Tuberculosis Cases $\geq$ 15 Years of Age by HIV Testing Status Indiana, 2014



N = 103

# Indiana 2020 Treatment Targets

- Increase the proportion of TB patients with positive AFB sputum-smear results who initiate treatment within 7 days of specimen collection to 98.0%
  - 2014: 90.2%
- Increase the proportion of patients who are started on RIPE to 99.0%
  - 2014: 94.3%

# Indiana 2020 Drug Susceptibility Target

- Increase the proportion of TB patients with a positive culture results who also have initial drug-susceptibility results reported to 100%
  - 2014: 100%!
  - 8.3% cases had INH resistance
  - 2 cases of MDR (1.9%)

# 2020 Indiana Sputum Culture Targets

- Increase the proportion of TB cases > 12 years old with a pleural or respiratory site of disease that have a sputum-culture result reported to 93.0%
  - 2014: 83.1%
- Increase the proportion of TB cases with positive sputum culture results who have sputum conversion within 60 days of treatment to 75.0%
  - 2014: 50.9%

# Completion of Treatment

- Increase the proportion of TB patients who complete treatment within 12 months for whom 12 months or less of treatment is recommended to 98.0%
  - 2013: 100% completed therapy, 96.1% within 1 year

# Sources

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