

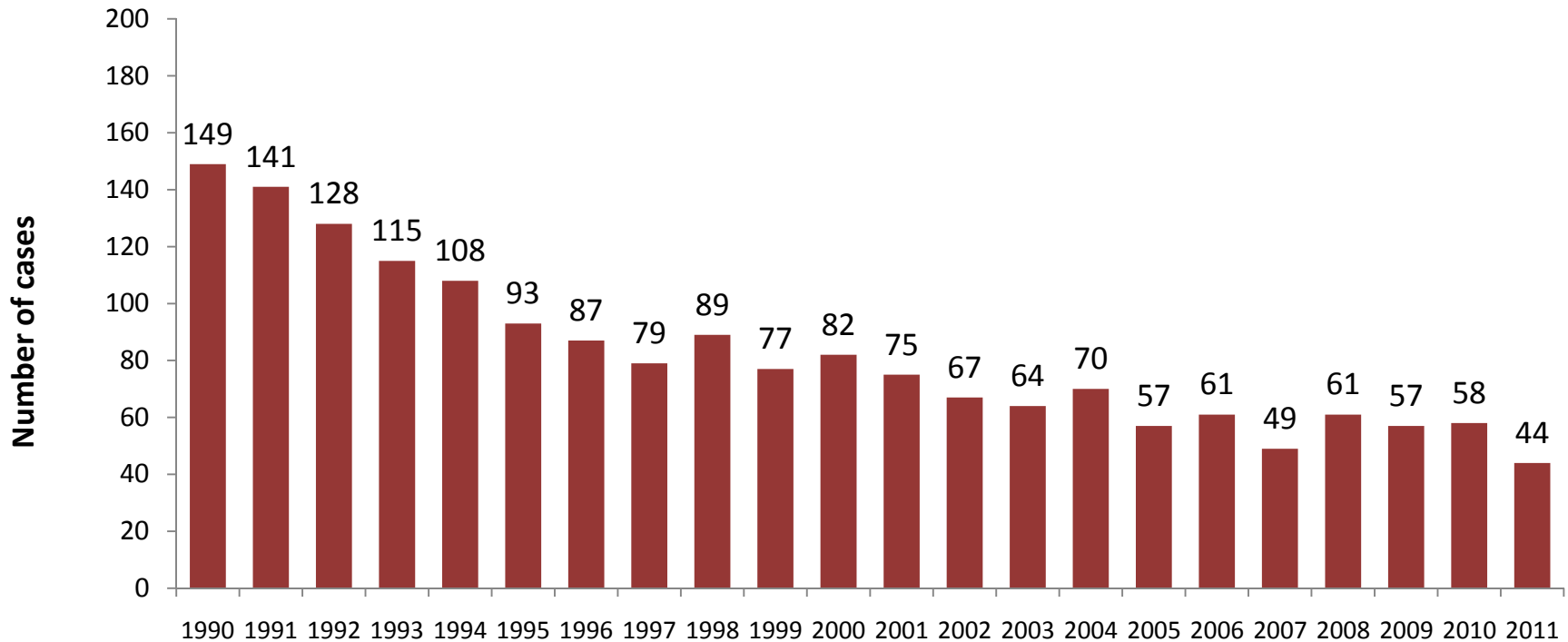


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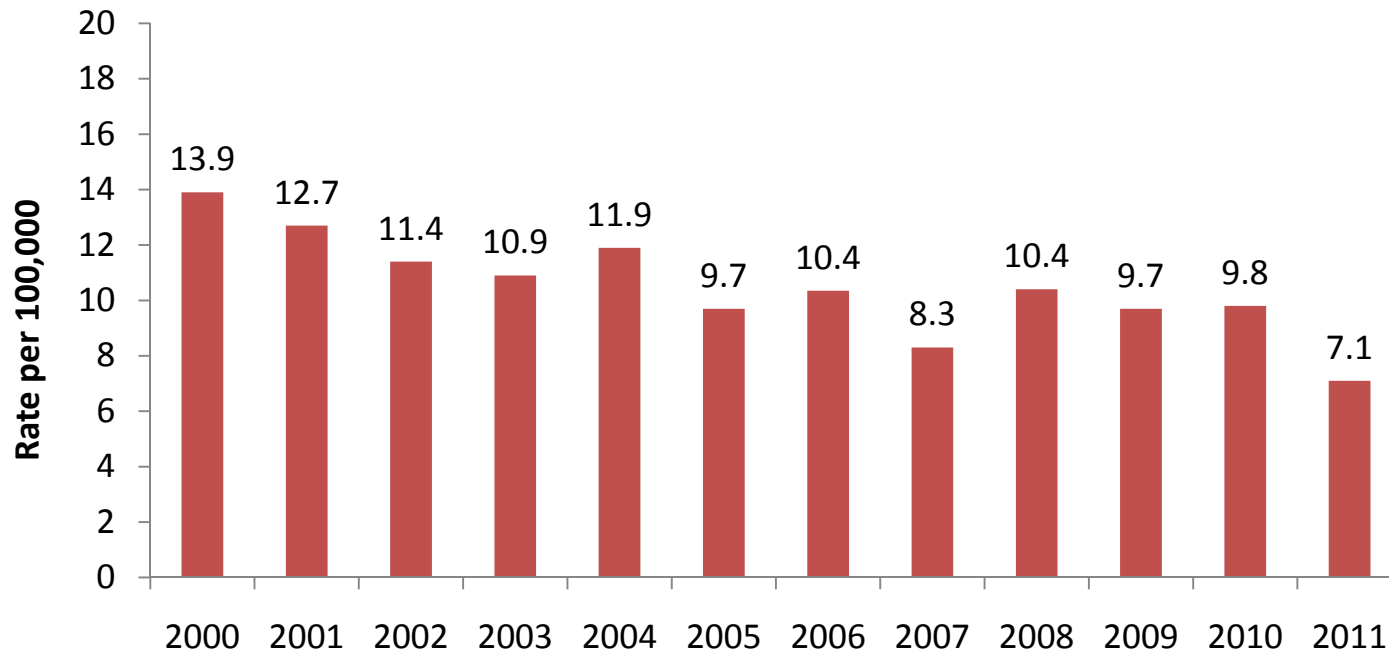
# **Tuberculosis Impact in Boston Residents: 2011**

**BOSTON PUBLIC HEALTH COMMISSION  
Infectious Disease Bureau  
Communicable Disease Control Division**

# Number of TB Cases: Boston, 1990-2011



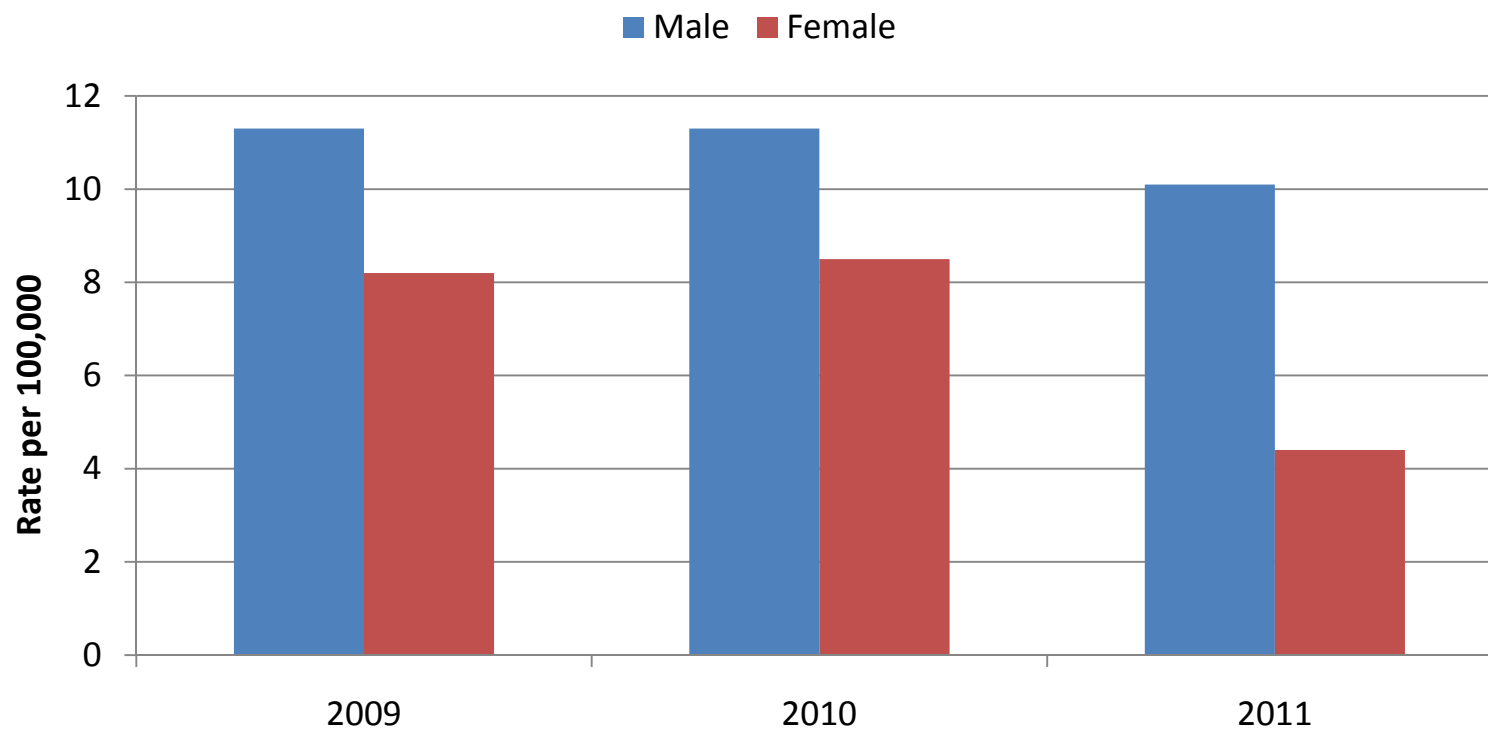
# Incidence of TB: Boston, 2000-2011



# Incidence of TB by Gender: Boston, 2009-2011



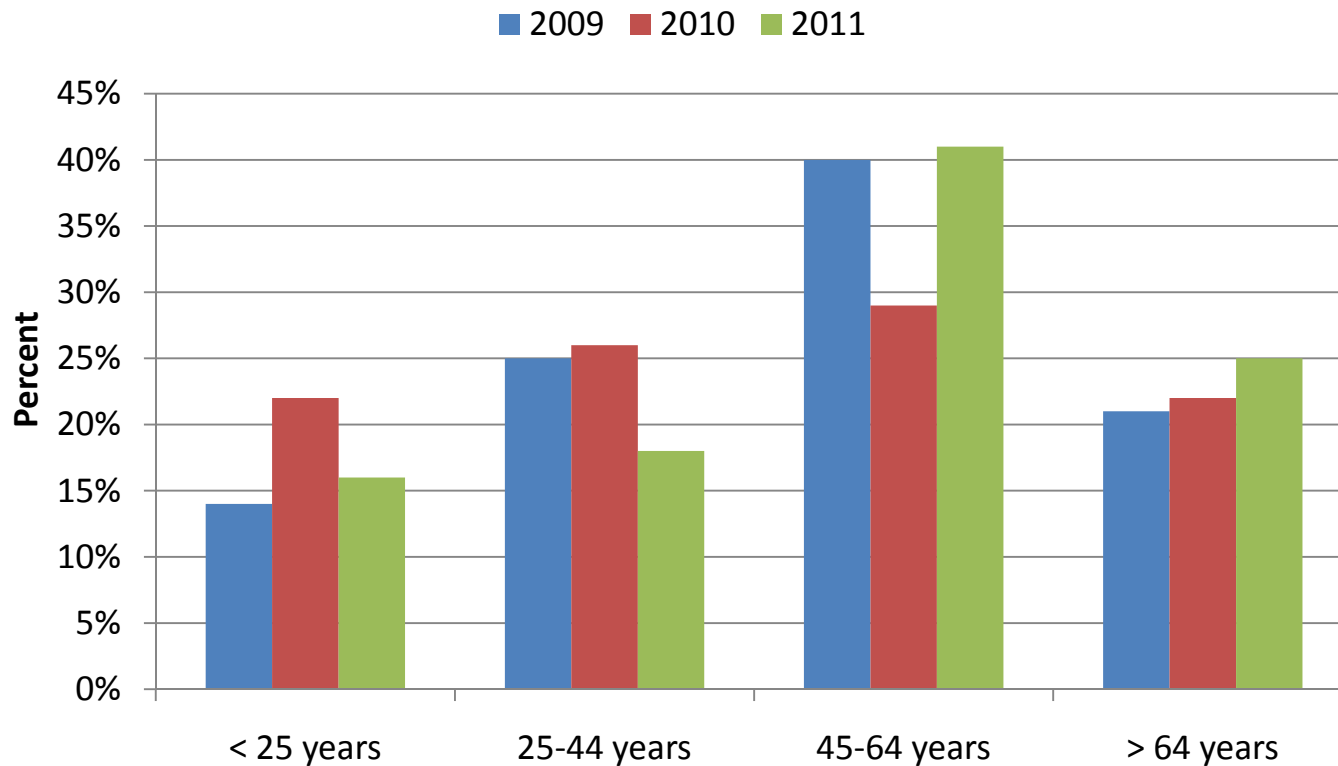
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# Percent of Reported TB Cases by Age Group: Boston, 2009-2011



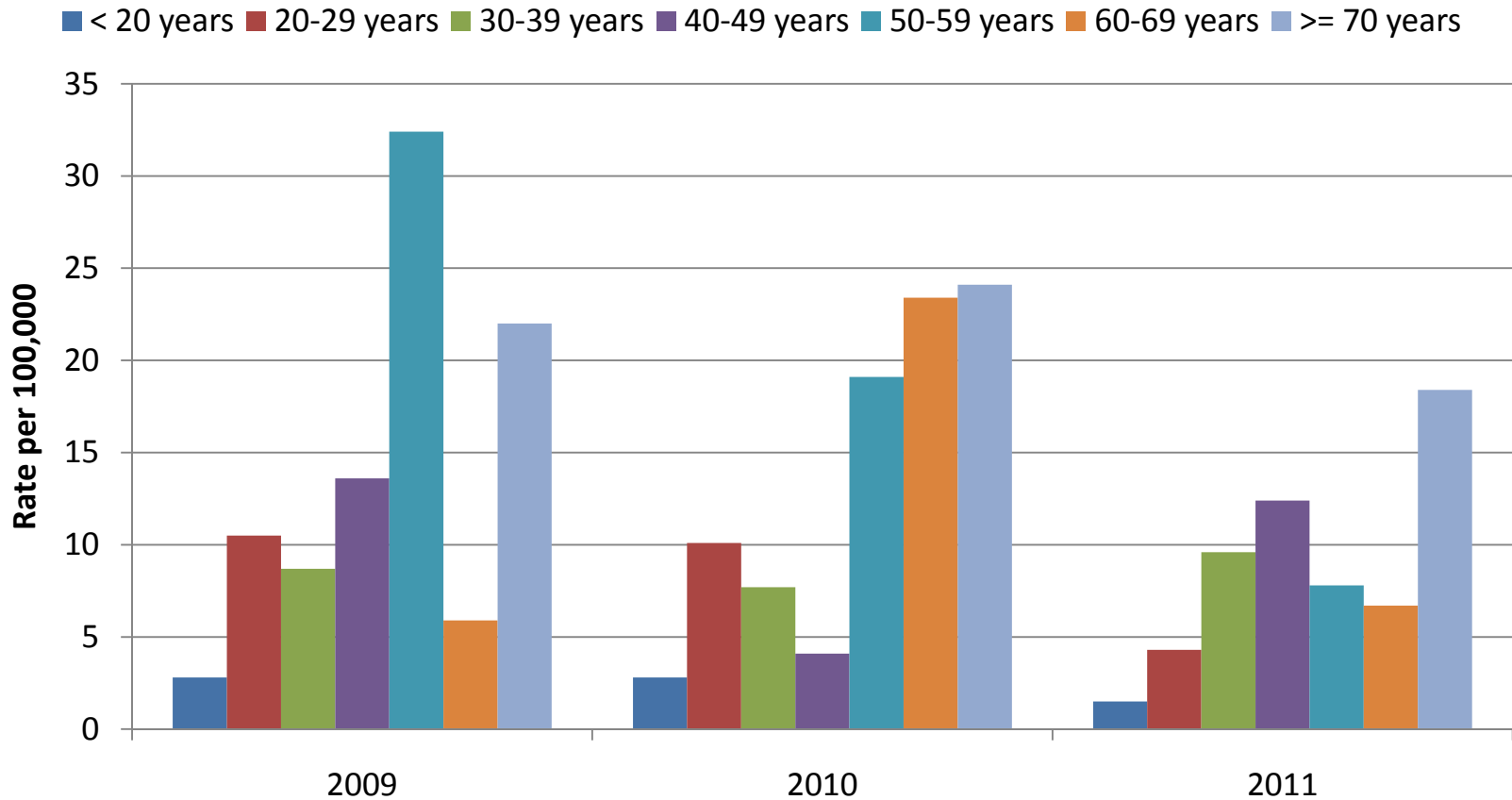
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# Incidence of TB by Age Group: Boston, 2009-2011



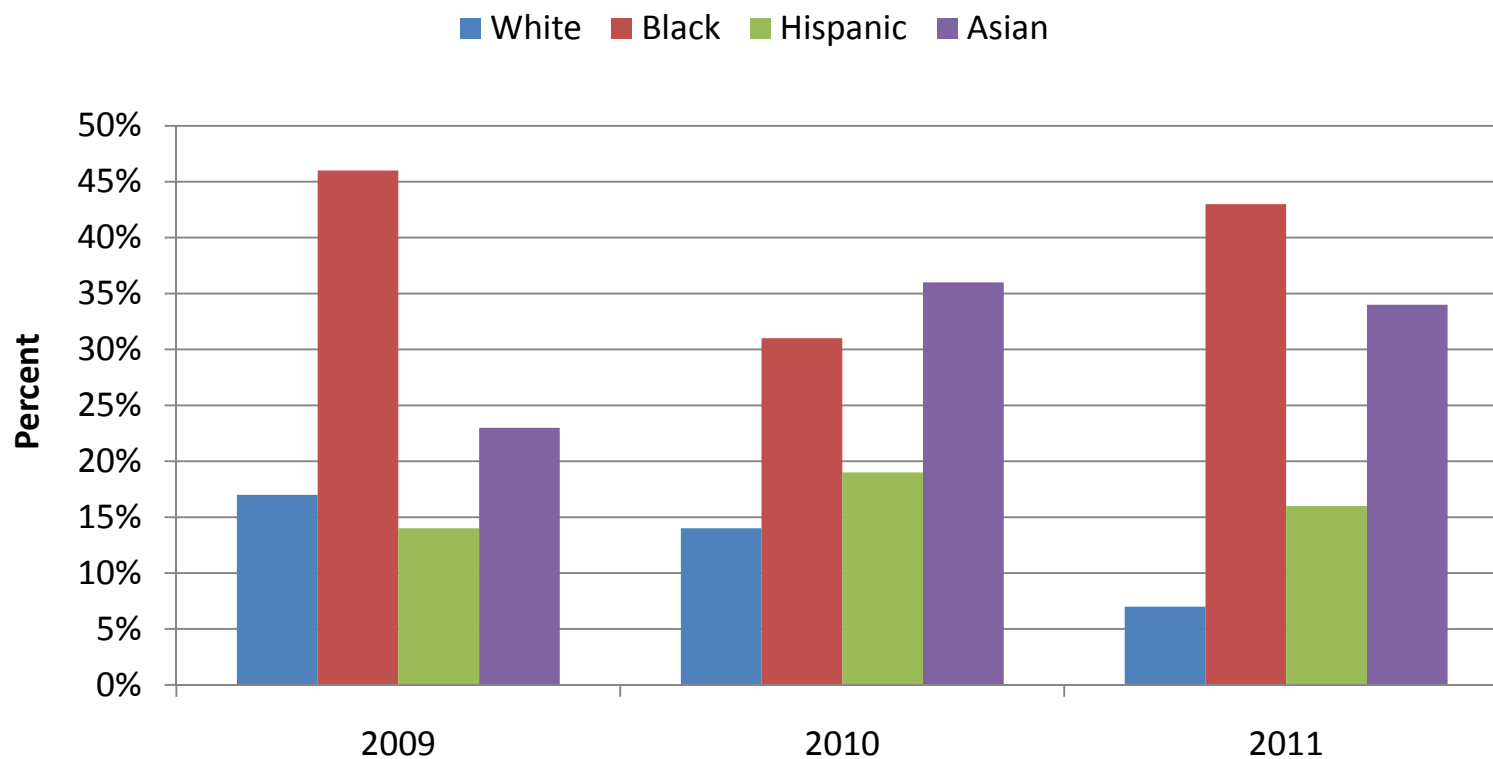
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# Percent of Reported Tuberculosis Cases by Race/Ethnicity: Boston, 2009-2011



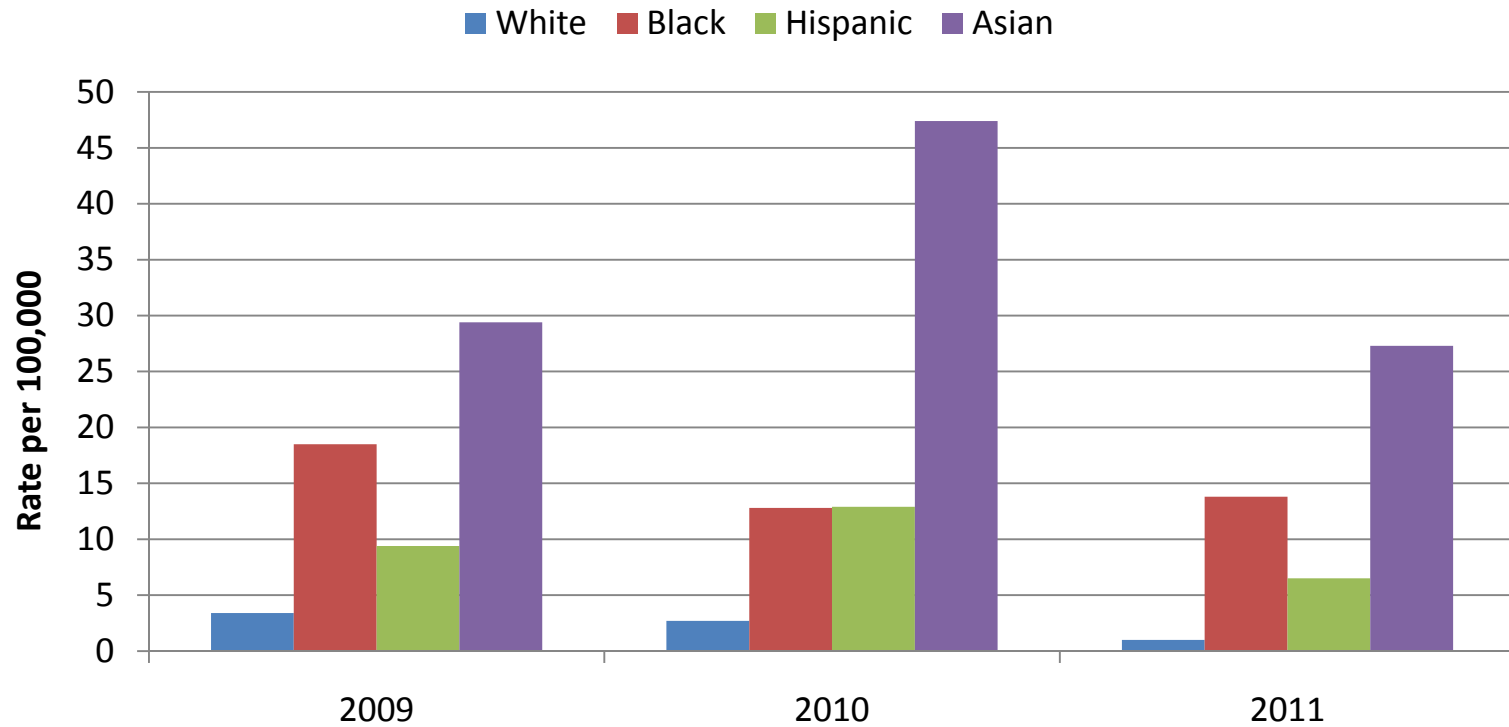
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# Incidence of TB by Race/Ethnicity: Boston, 2009-2011



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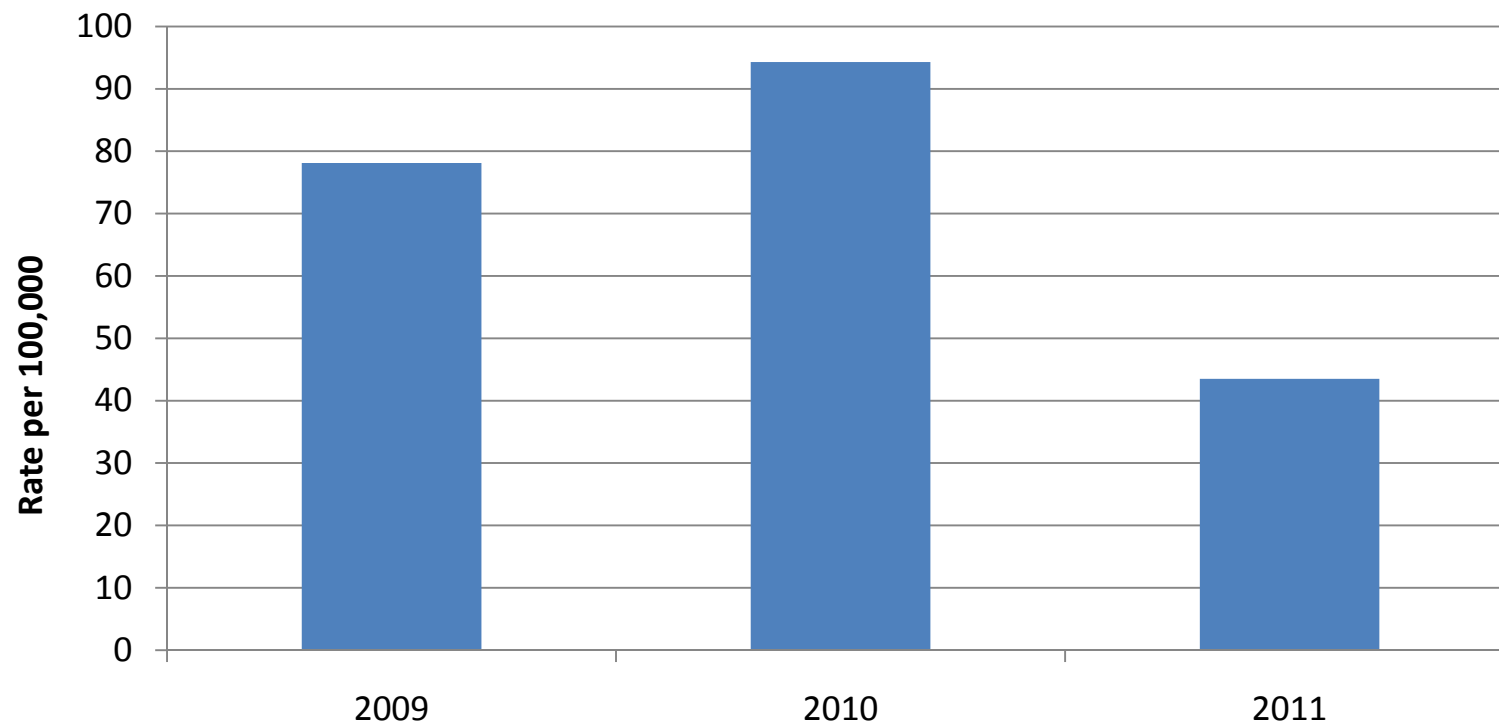




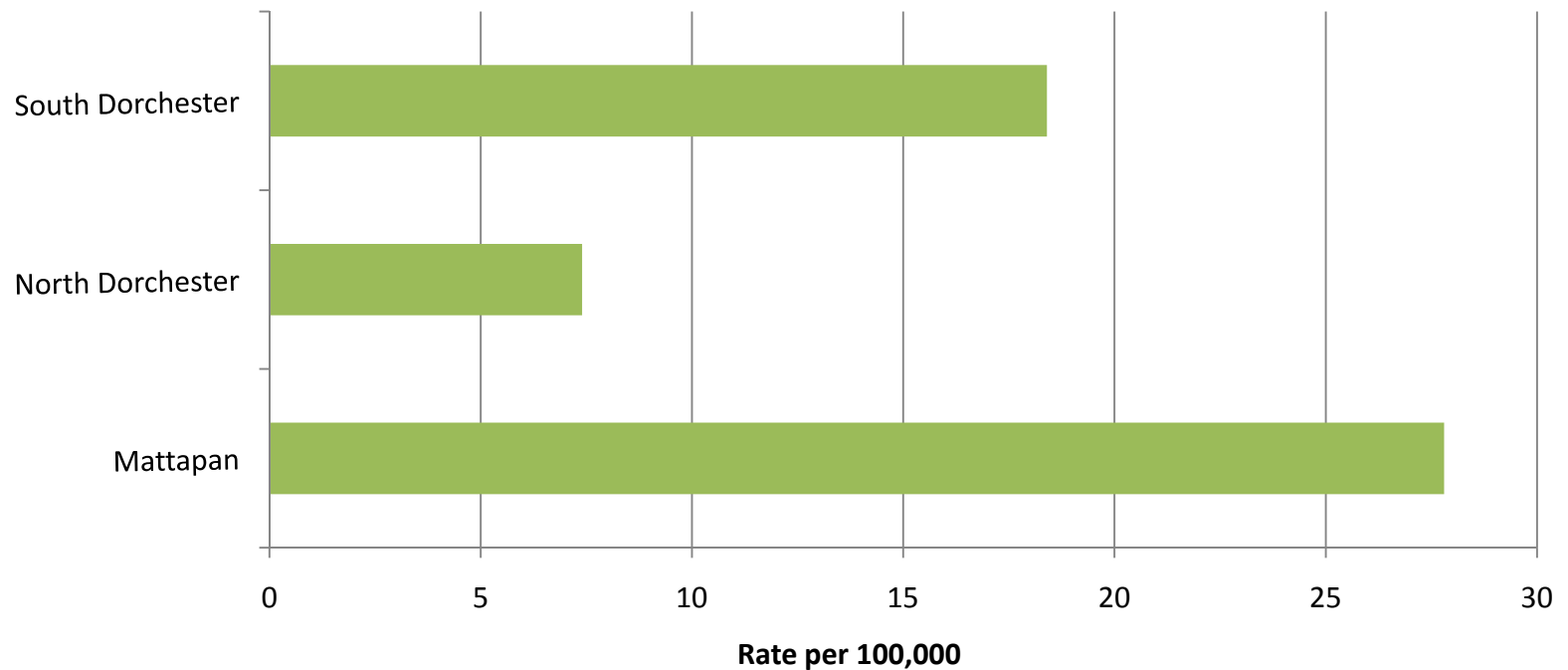
# Incidence of TB Among the Homeless: Boston, 2009-2011



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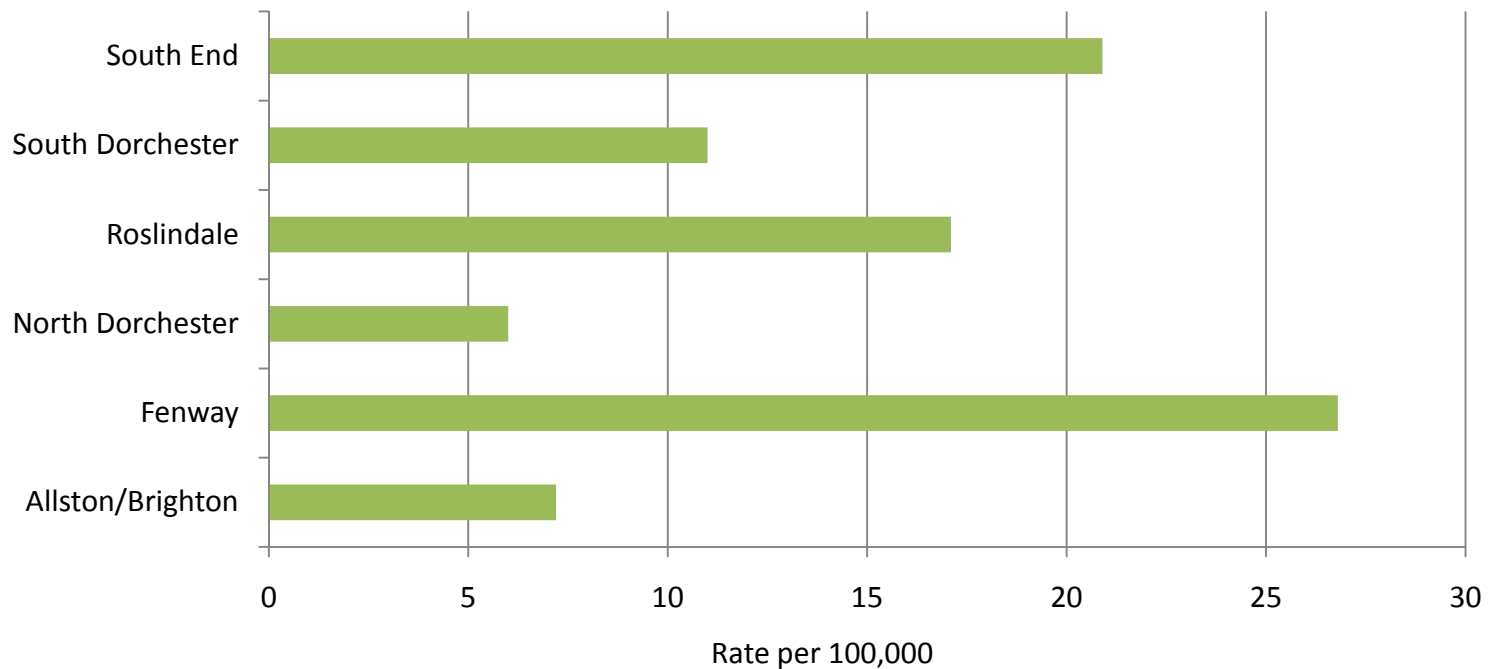


# TB Incidence by Neighborhood\*, 2011



\* Allston/Brighton, Back Bay/Beacon Hill/North End, East Boston, Fenway, Hyde Park, Jamaica Plain, Roslindale, Roxbury, South Boston & South End: < 5 cases; Charlestown, West Roxbury: 0 cases

# TB Incidence by Neighborhood\*, 2010

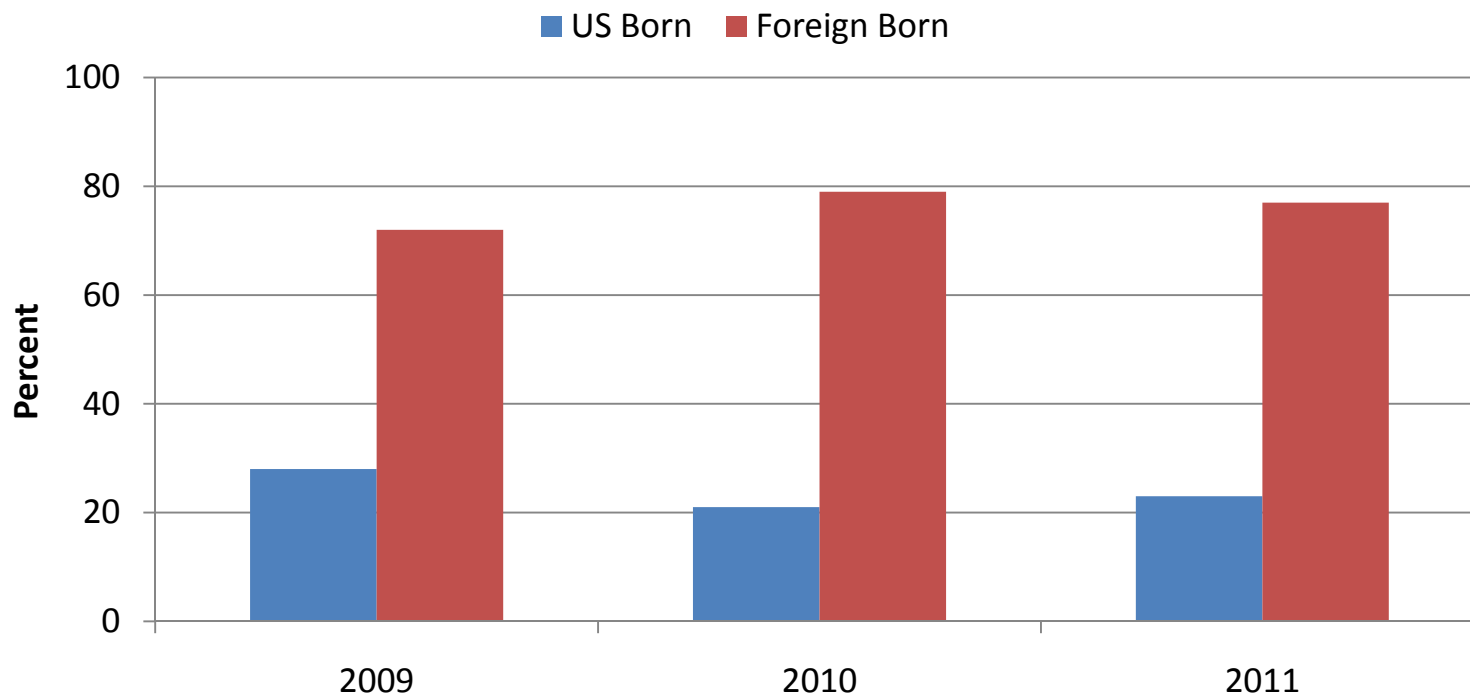


\* Back Bay/Beacon Hill/ North End, Charlestown, East Boston, Hyde Park, Jamaica Plain, Mattapan, Roxbury, & South Boston: < 5 cases; West Roxbury: 0 cases

# TB Cases by Birthplace: Boston, 2009-2011



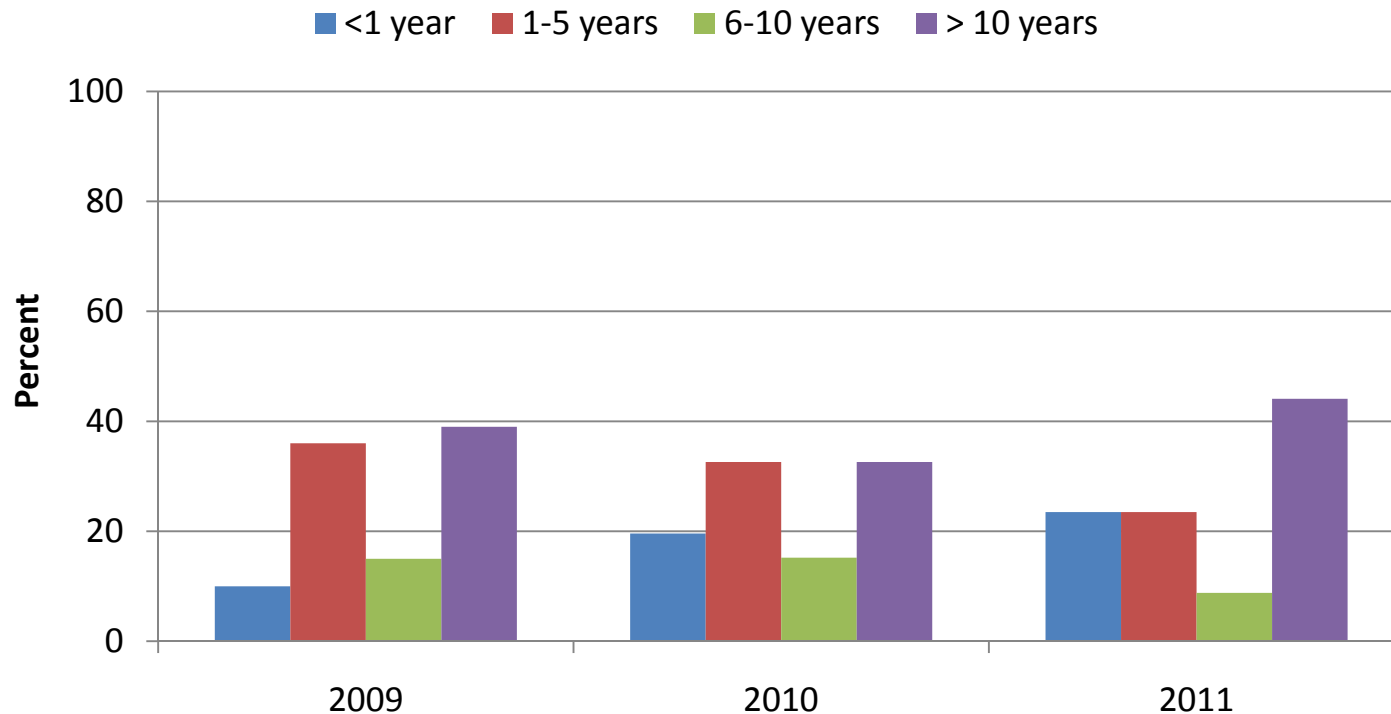
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# Length of US Residence for Foreign Born TB Cases Prior to TB Diagnosis: Boston, 2009-2011



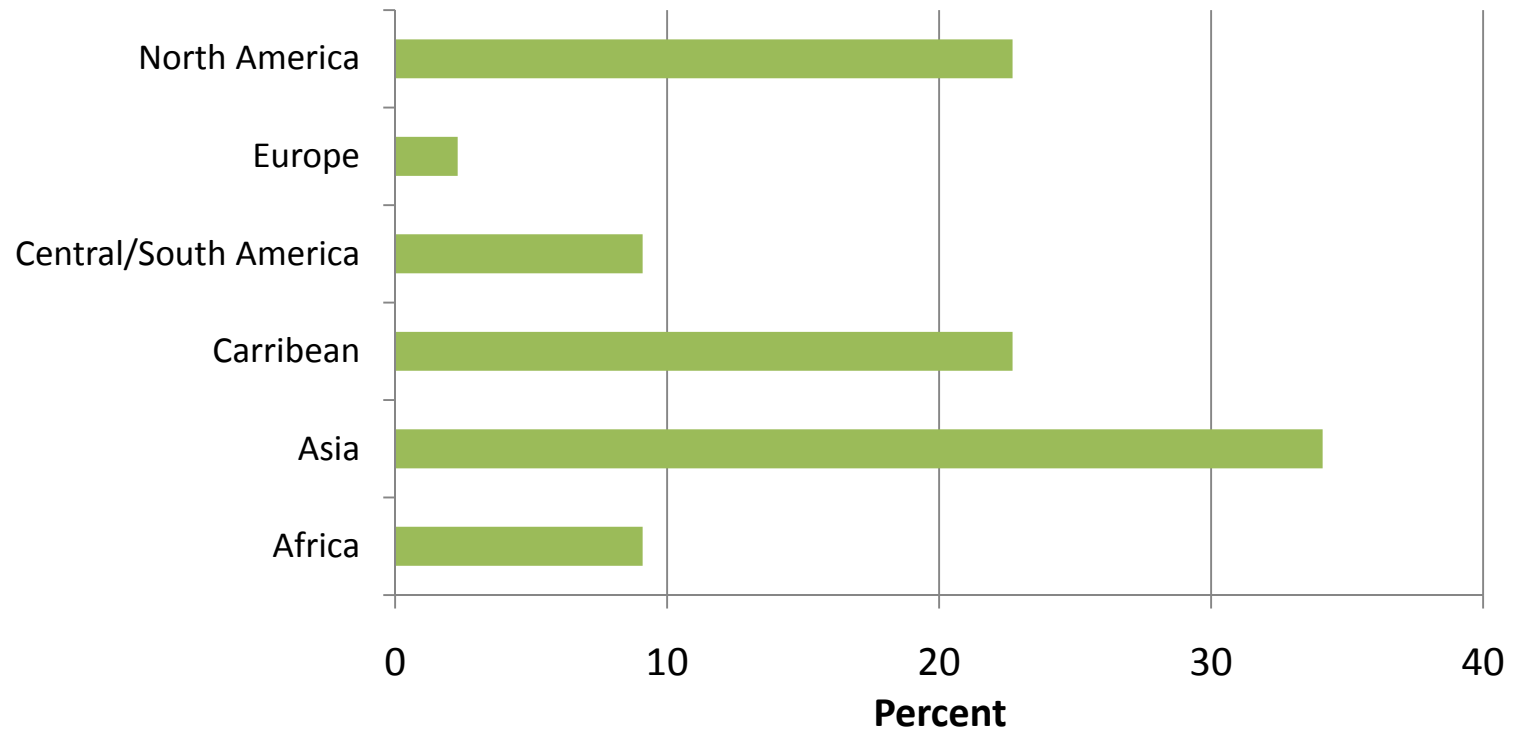
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# Region of Birth for TB Cases: Boston, 2011



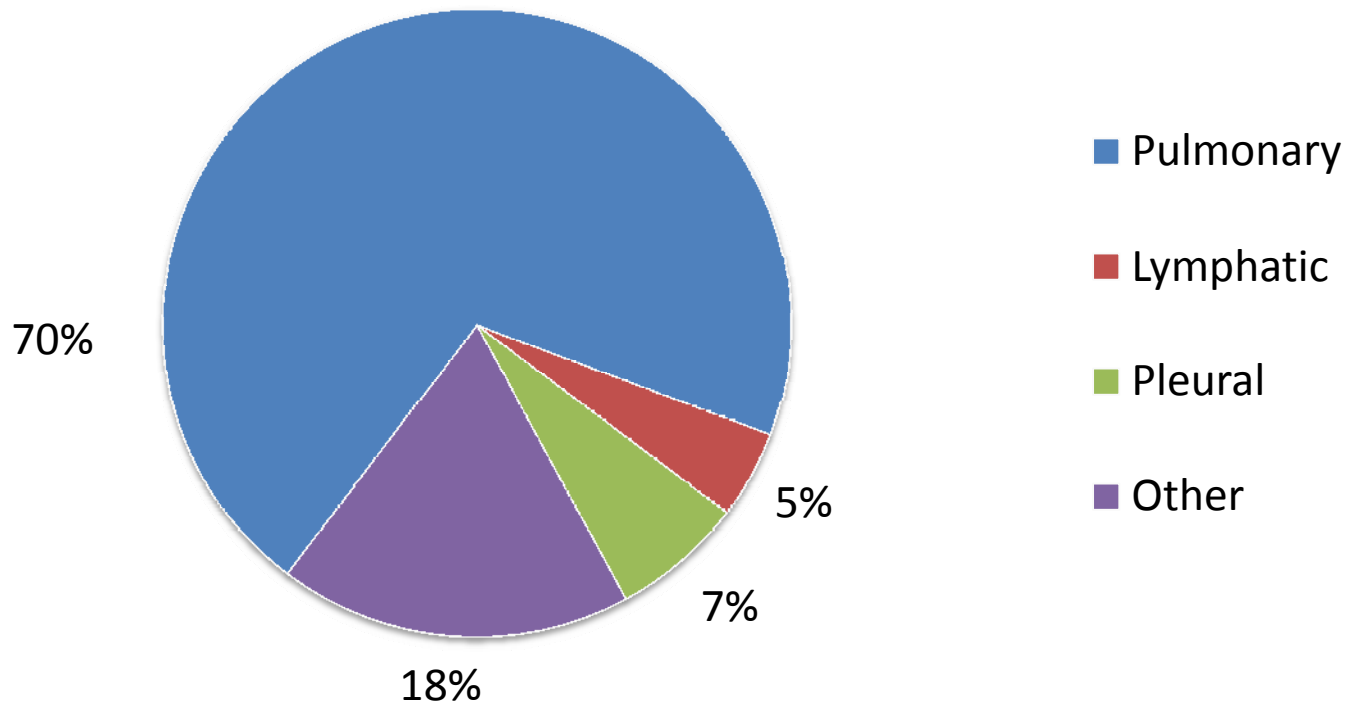
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# Primary Site of TB Disease: Boston, 2011



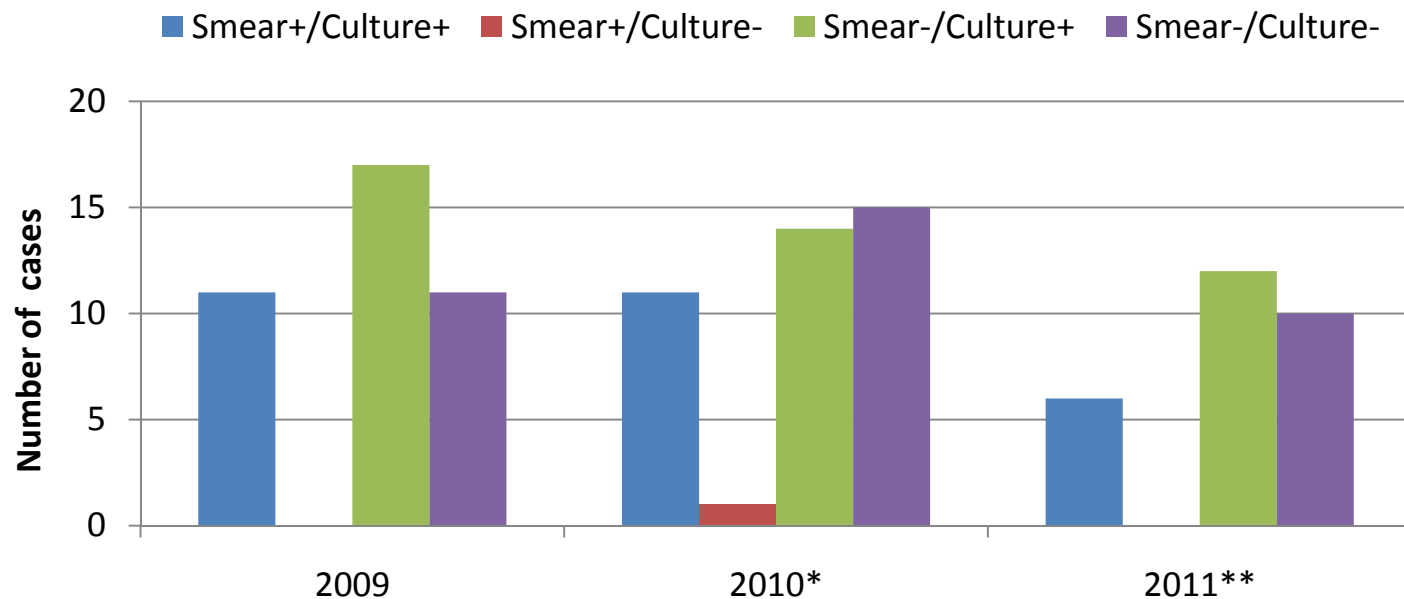
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# Sputum Smear and Culture Results for Cases with Primary Pulmonary TB: Boston, 2009-2011



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\*Sputum samples unavailable for 2 cases

\*\*Sputum samples unavailable for 3 cases



# Drug Resistance in TB Cases: Boston, 2011



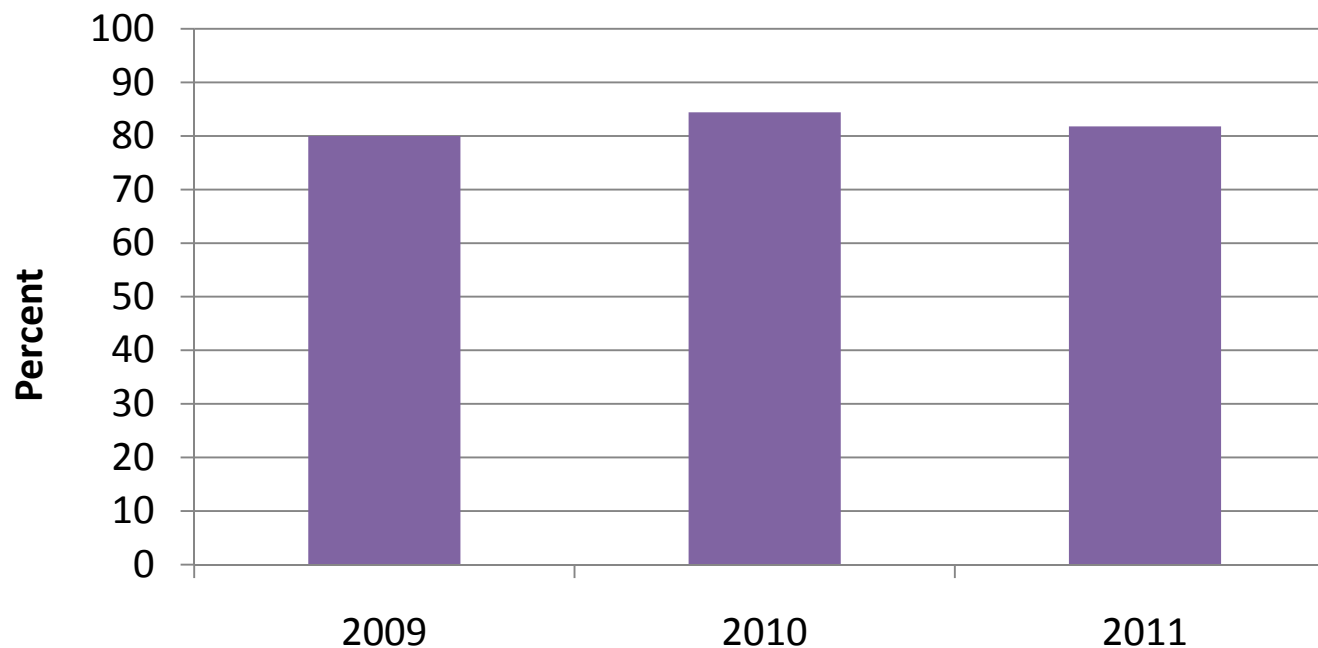
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		Number
Two Drugs	Isoniazid, Streptomycin	1
	Rifampin, Streptomycin	1

# Completeness of HIV Testing\* of TB Cases: Boston, 2009-2011



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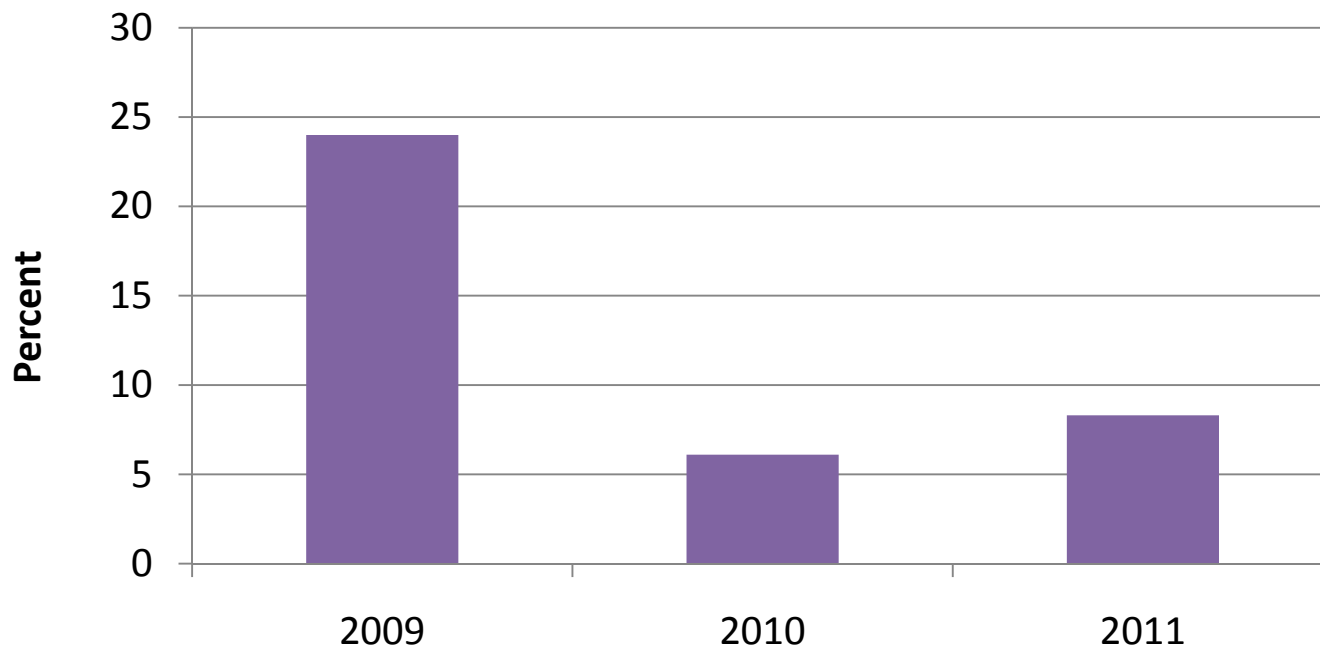


**\*Includes cases with negative, positive and indeterminate HIV test results**

# Percent TB Cases with HIV Infection: Boston, 2009-2011



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**\*Of those tested**

# What health care sites are diagnosing and initiating TB treatment for Boston cases?



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		2010* N=57	2011** N=42
Diagnosing site	Inpatient	37(64%)	29(66%)
	Outpatient	21(36%)	15(34%)
Initial treatment site*	Inpatient	20(35%)	28(67%)
	TB clinic	26(46%)	10(24%)
	Hospital outpatient clinic	11(19%)	2(5%)
	Other	-	2(5%)

\*1 case died prior to identification of tuberculosis

\*\*2 case died prior to identification of tuberculosis

# Who do Boston TB cases identify as their primary care site?



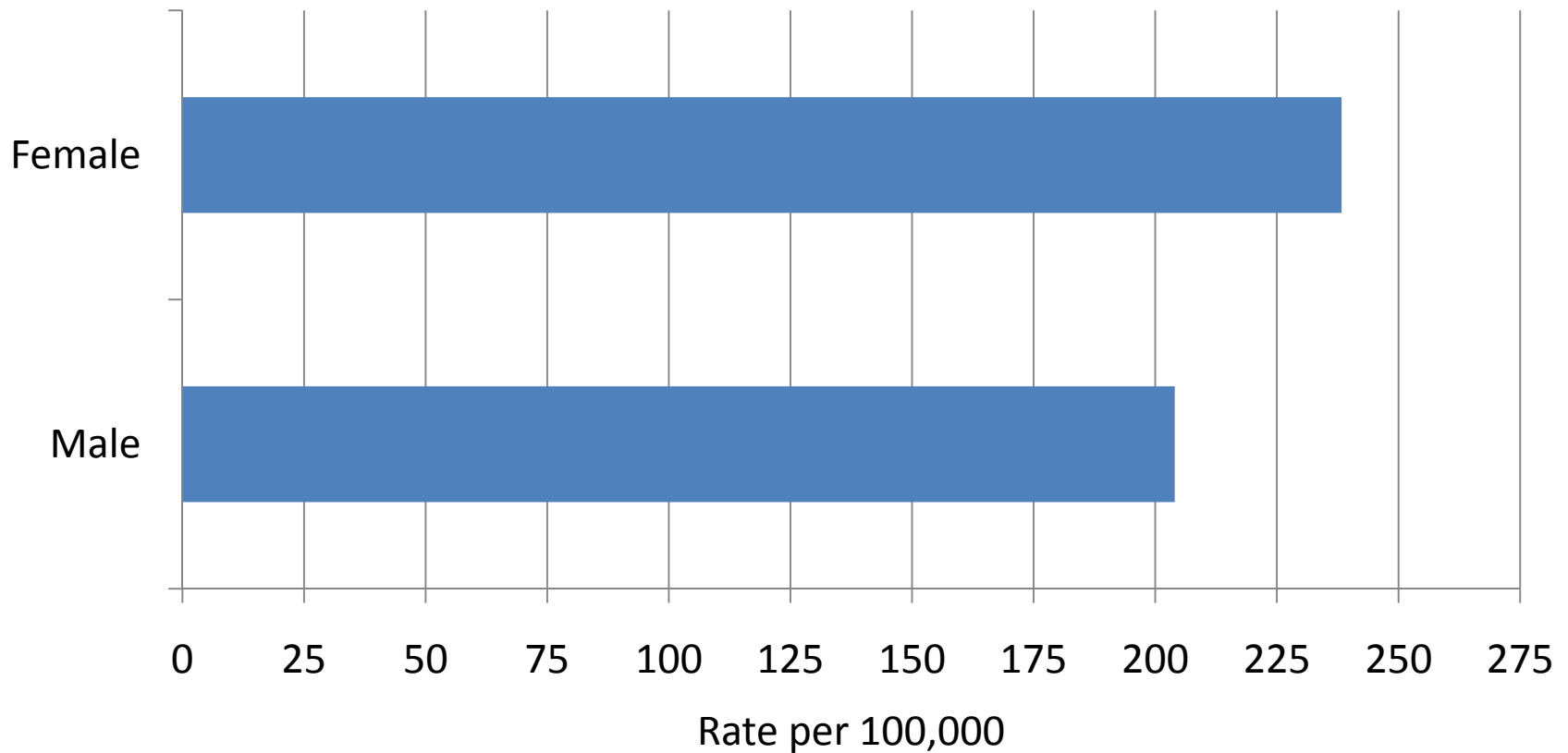
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	2010 N=58	2011 N=44
Hospital outpatient clinic	26 (45%)	17 (39%)
Community health center	16 (28%)	13 (30%)
Private practices	2 (3%)	1 (2%)
Other sites	4 (7%)	6 (14%)
None identified	10 (17%)	7 (16%)

# Boston Residents with Latent TB Infection (N=1,373) Evaluated at the BPHC TB Clinic, Incidence by Gender: 2011



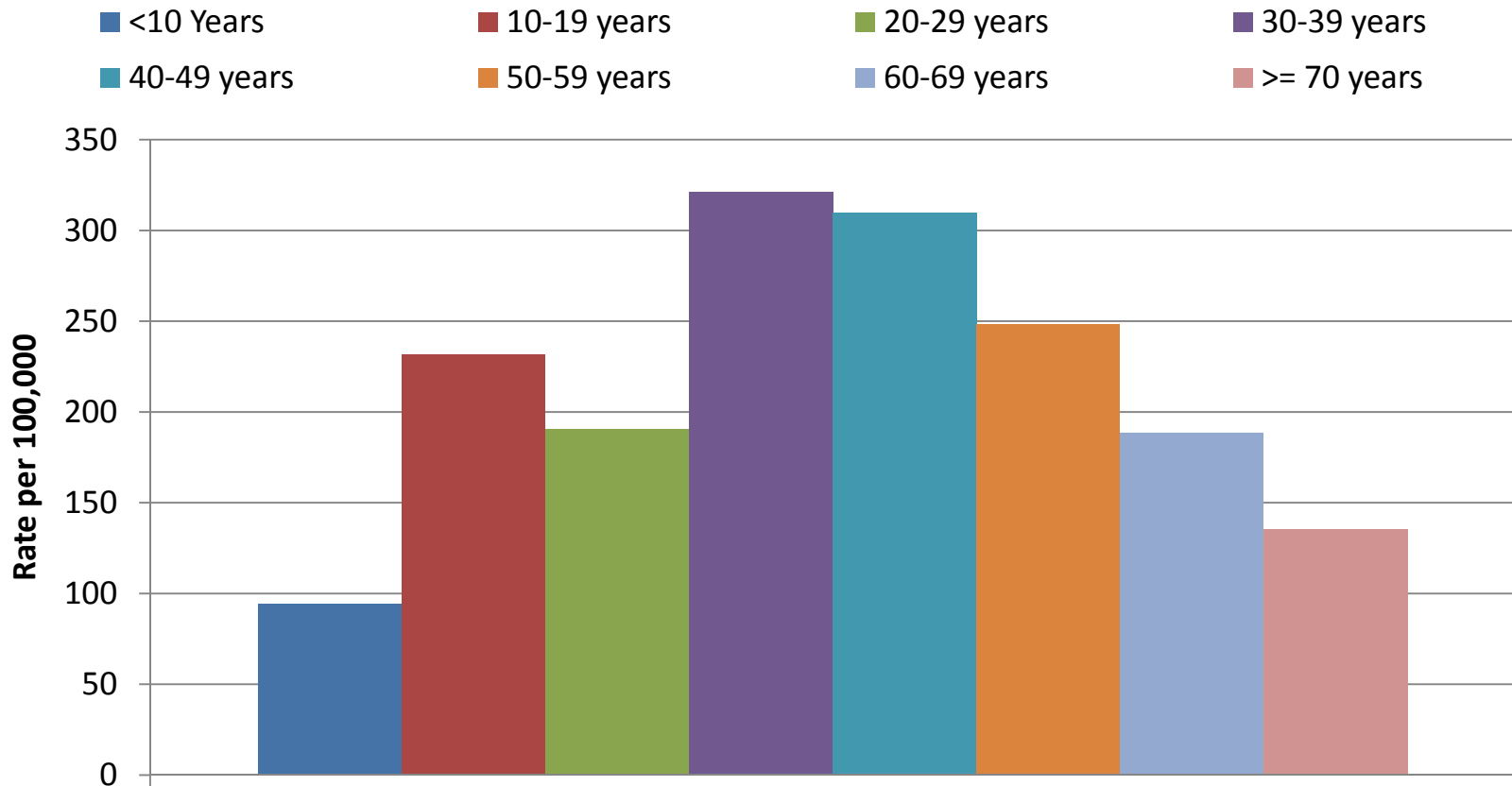
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# Boston Residents with Latent TB Infection (N=1,373) Evaluated at the BPHC TB Clinic, Incidence by Age Group: 2011



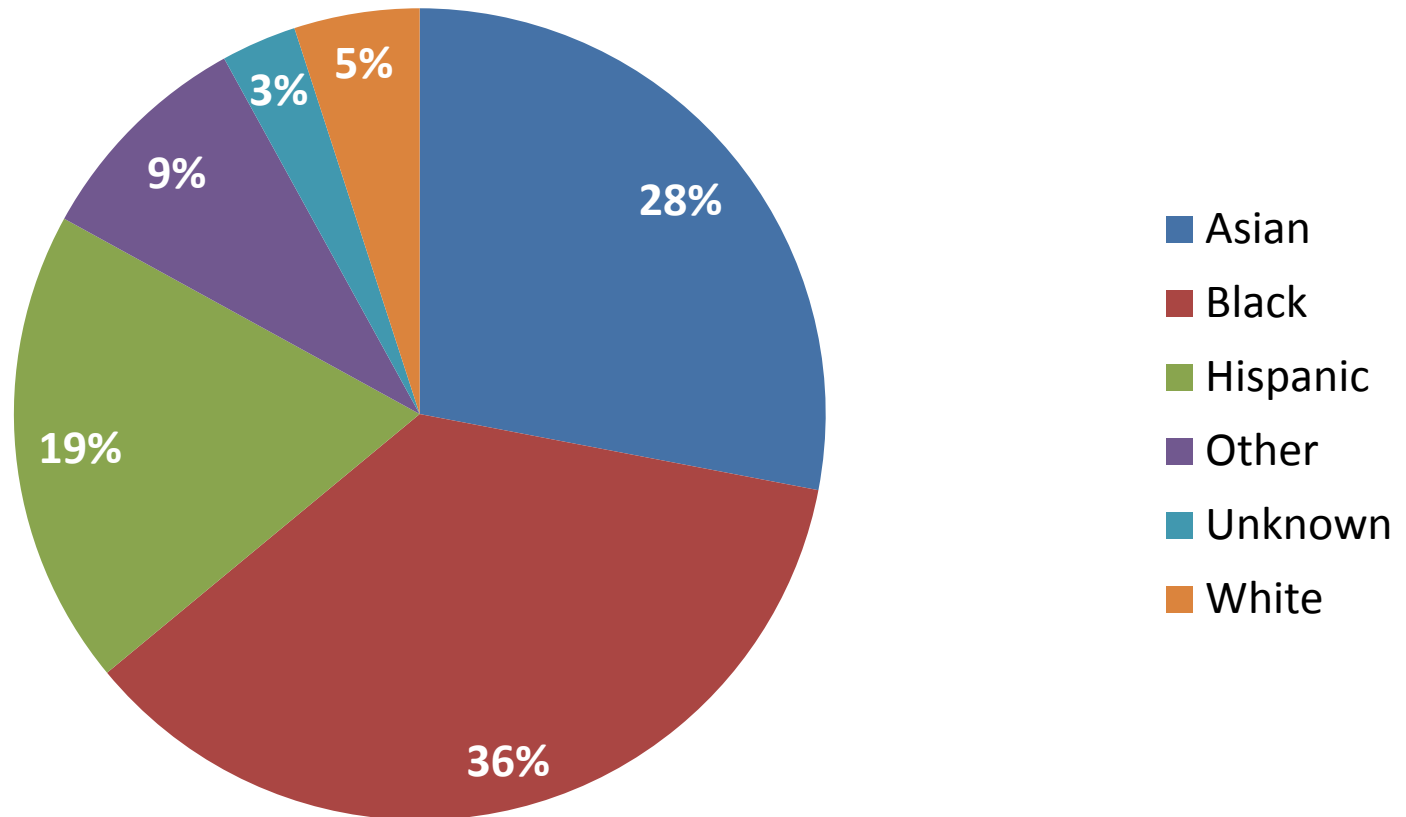
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# Percent of Boston Residents with Latent TB Infection (N=1,373) Evaluated at the BPHC TB Clinic by Race/Ethnicity: 2011



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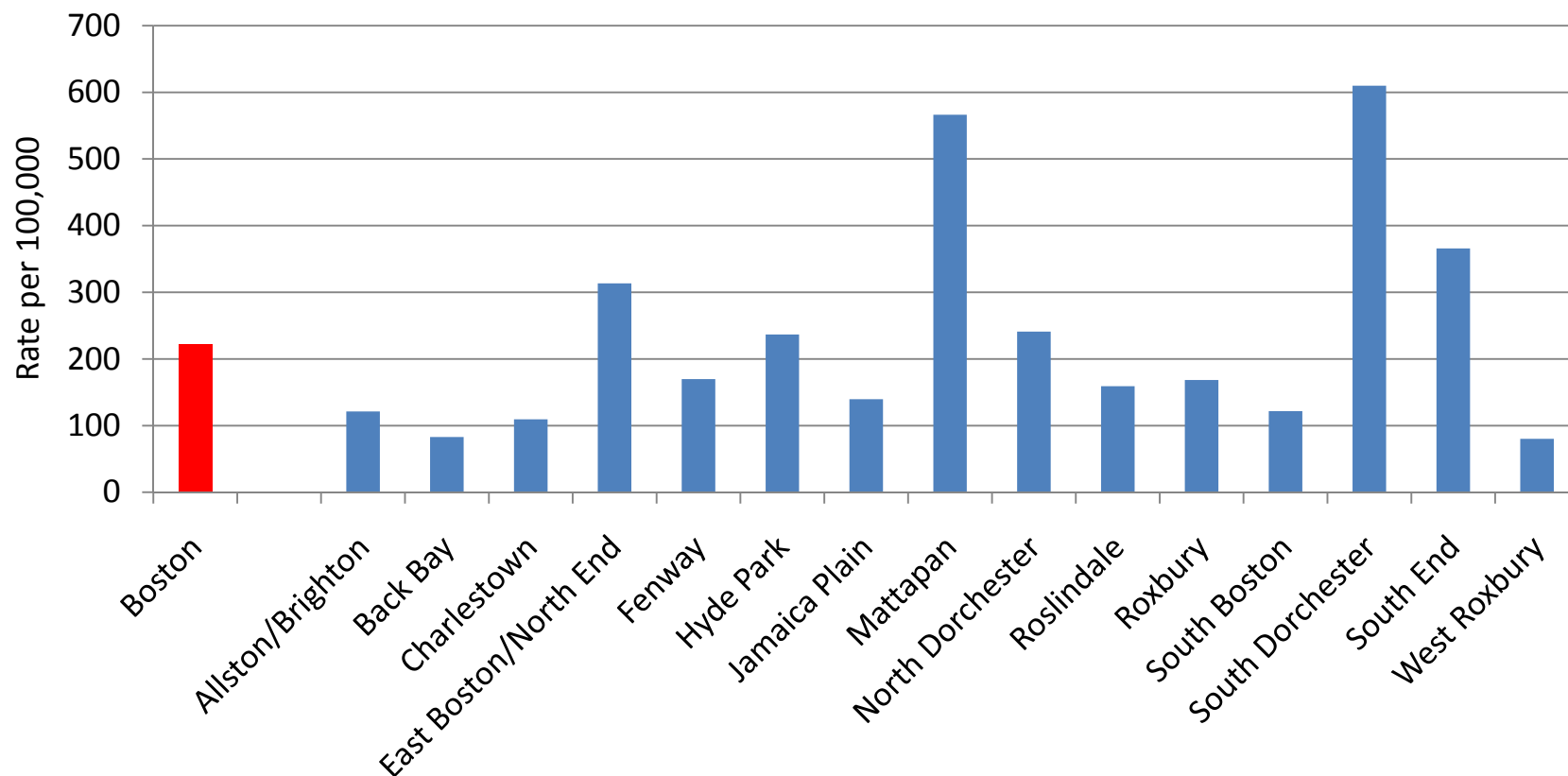




# Boston Residents with Latent TB Infection (N=1,375) Evaluated at the BPHC TB Clinic, Incidence by Neighborhood: 2011



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# Help To Eliminate TB in Boston

- Evaluate any patient who has a risk factor for TB.
- Ensure that patients with evidence of latent TB infection are completely evaluated AND appropriately treated.
  - TB is a preventable disease.
- Consider TB as a diagnosis in persons with appropriate symptoms and risk factors.

# Help to Eliminate TB in Boston



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- Healthcare institutions and healthcare providers in all settings should have a TB exposure control plan in place, including routine assessment of healthcare workers in accordance with Centers for Disease Control and Prevention (CDC) guidelines.

**For More Information:**



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**BOSTON PUBLIC HEALTH COMMISSION**  
**Communicable Disease Control Division**

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Boston, MA 02118

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