



# New Mexico STD Surveillance Report 2011

STD Program, Infectious Disease Bureau, Public Health Division

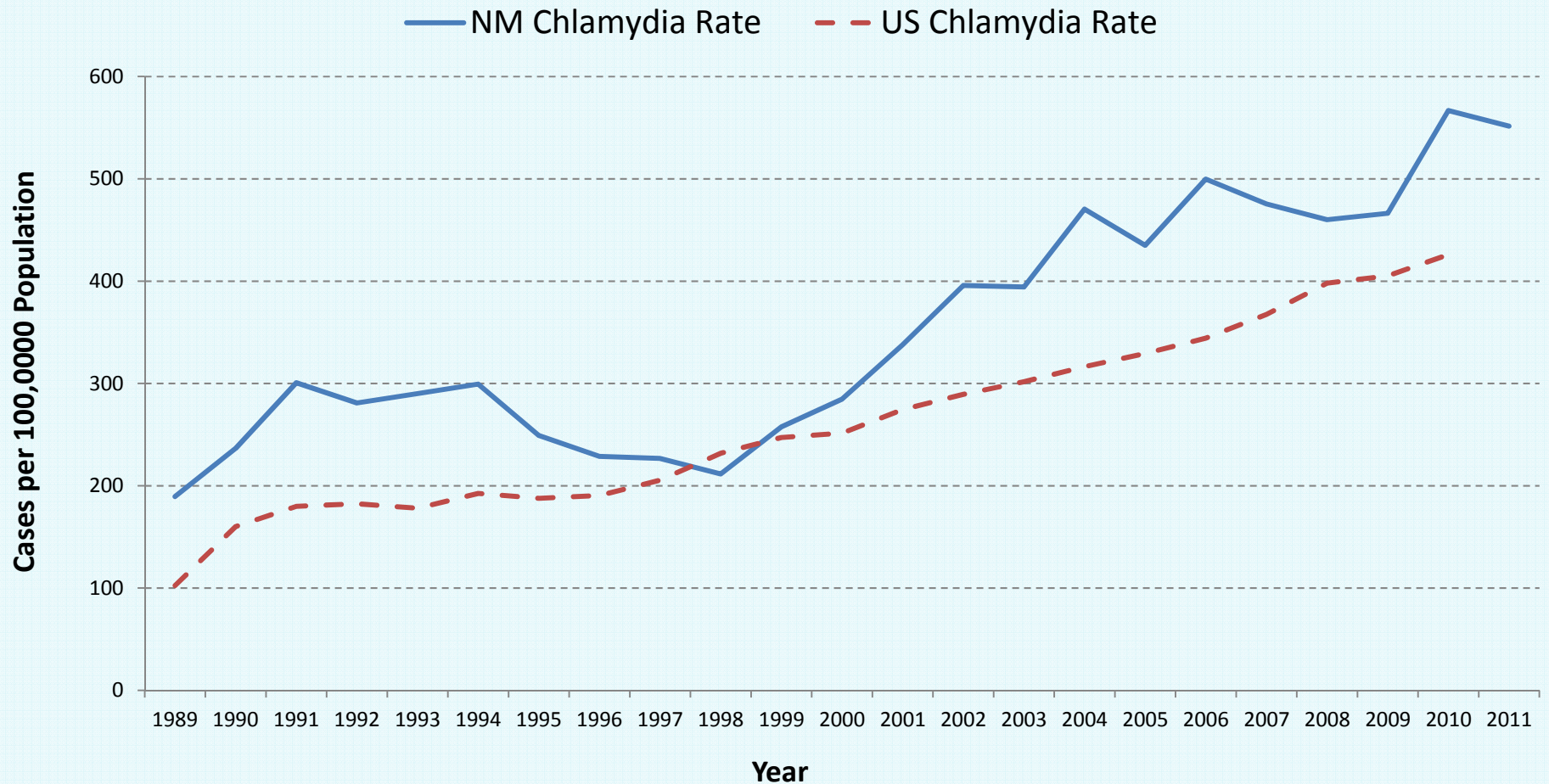
Daniel Burke, STD Program Manager

Linda Gorgos, Medical Director

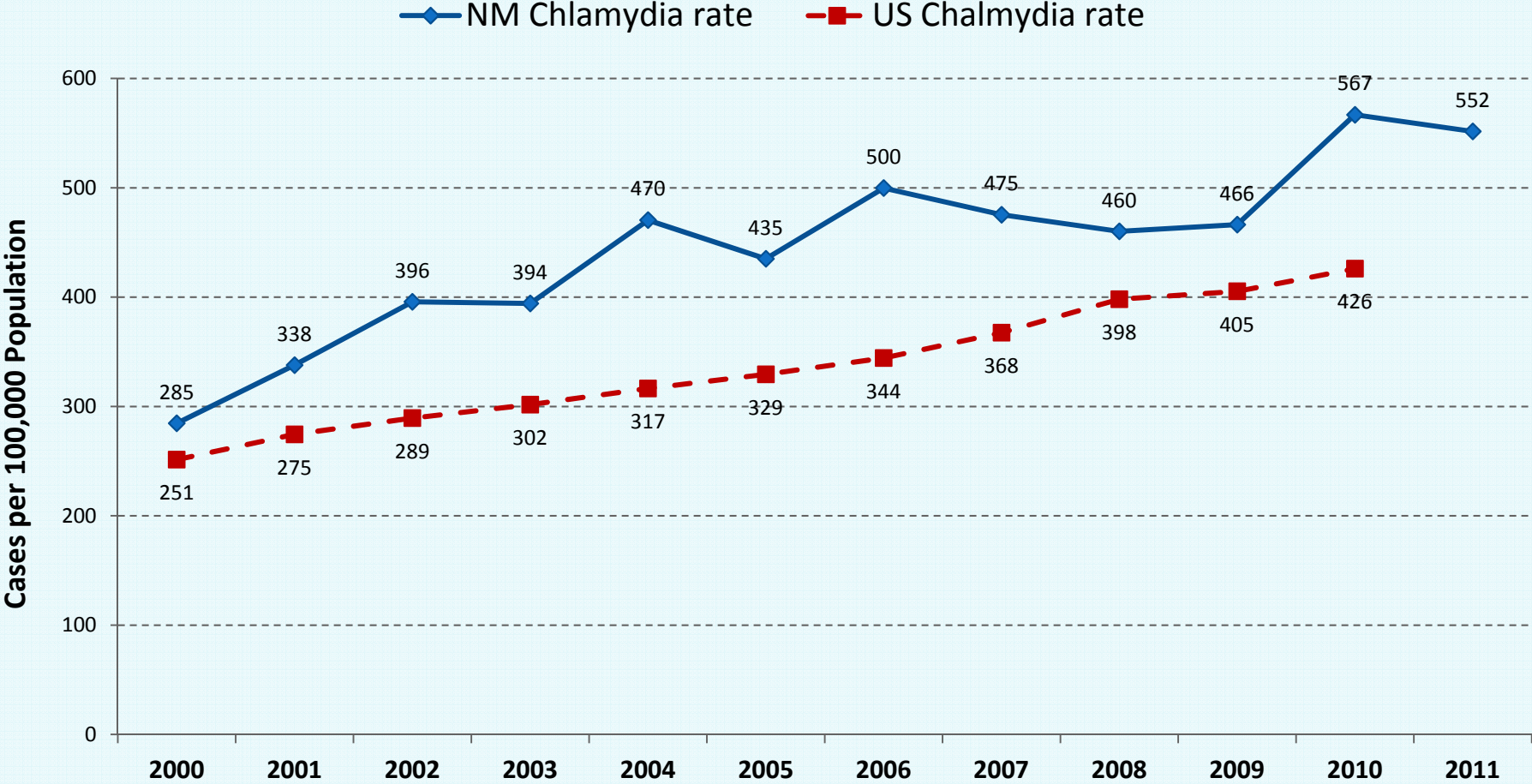
Lewis Smith, Surveillance Coordinator

Margo Yee, Surveillance Coordinator

# Historical Trends in Chlamydia Rates, New Mexico and U.S. – 1989-2011

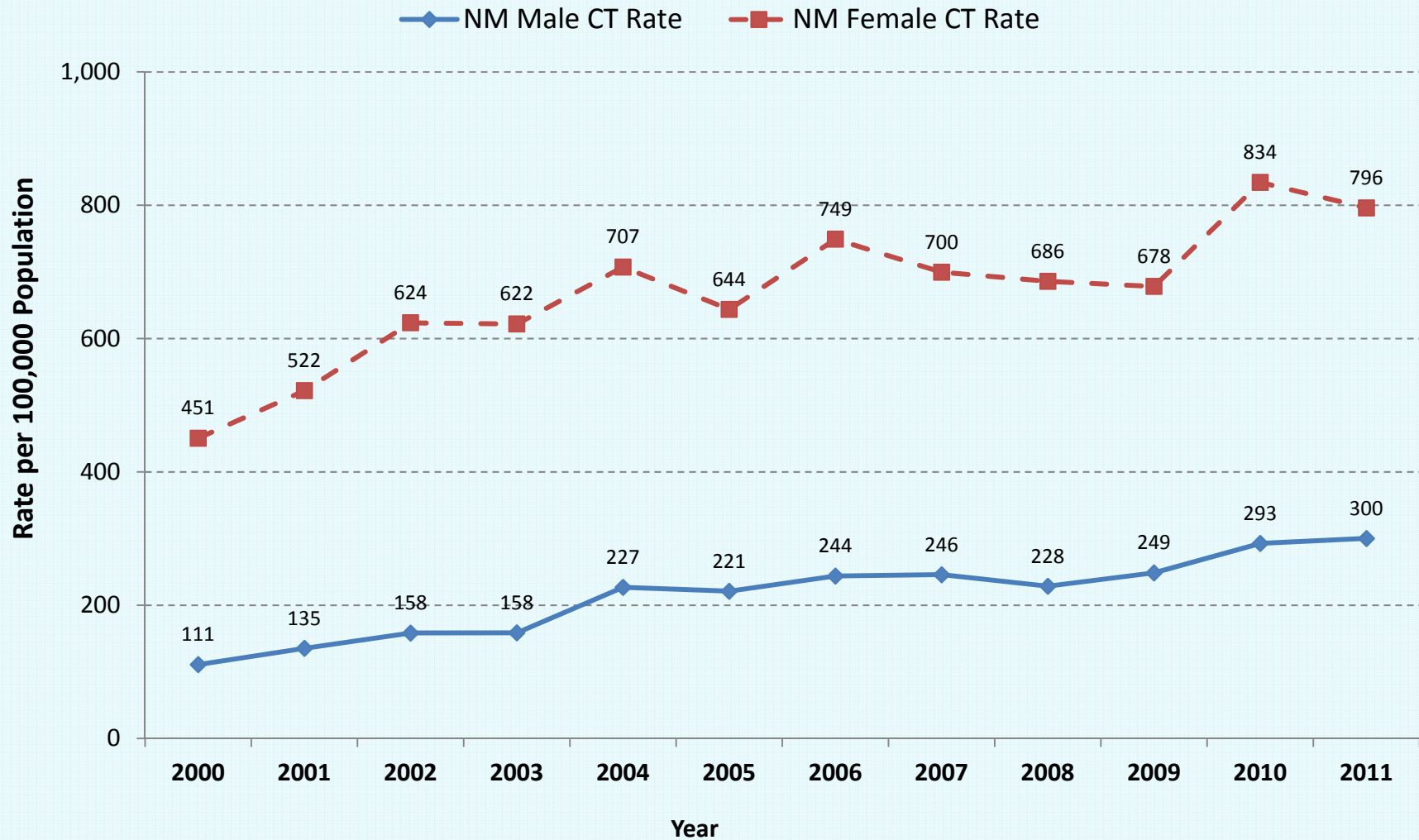


# Chlamydia Rates, NM and U.S. 2000-2011



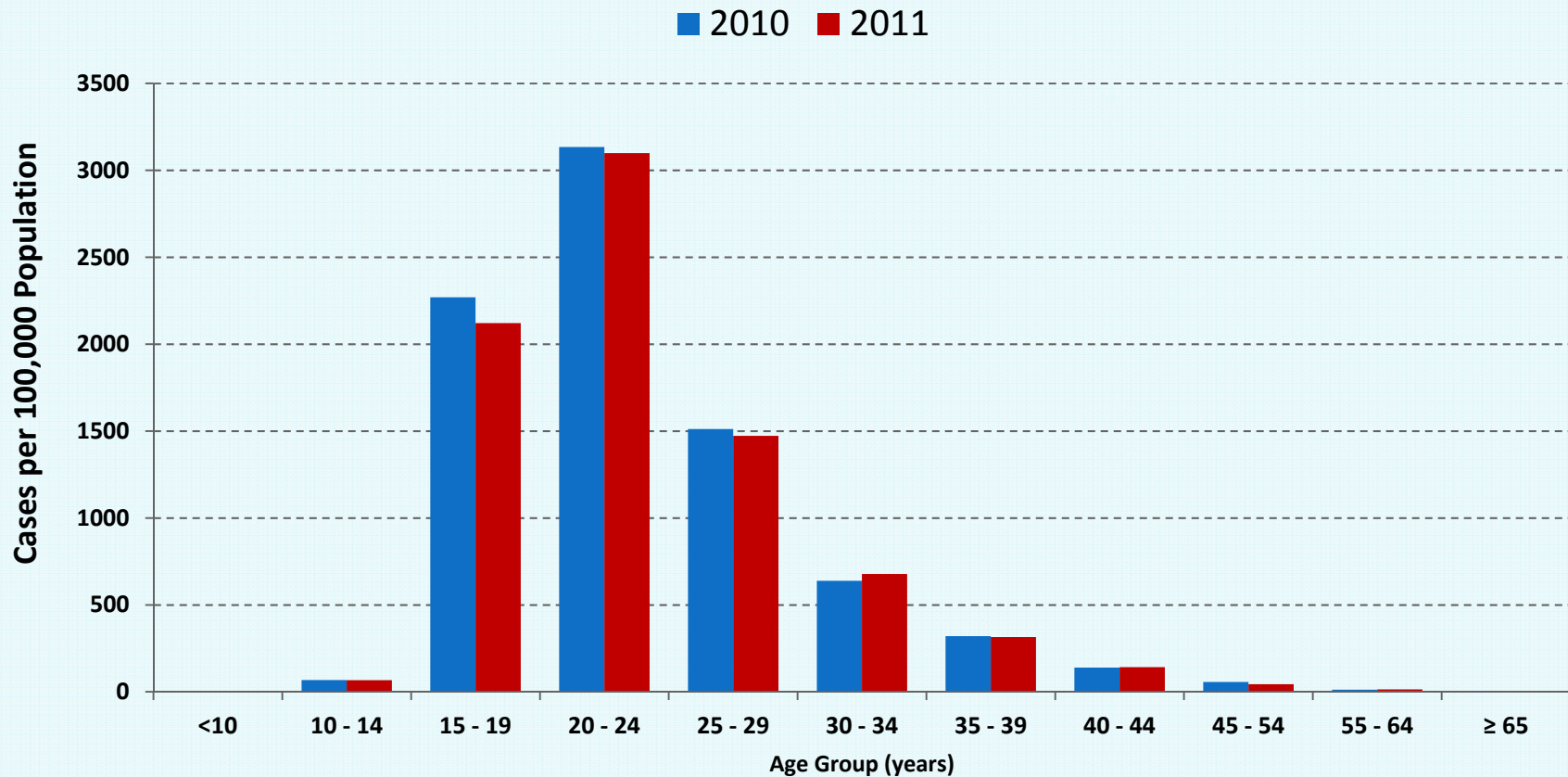
**NM ranked 4<sup>th</sup> in the nation for chlamydia rates in 2010**

# Chlamydia Rates by Sex New Mexico, 2000 - 2011



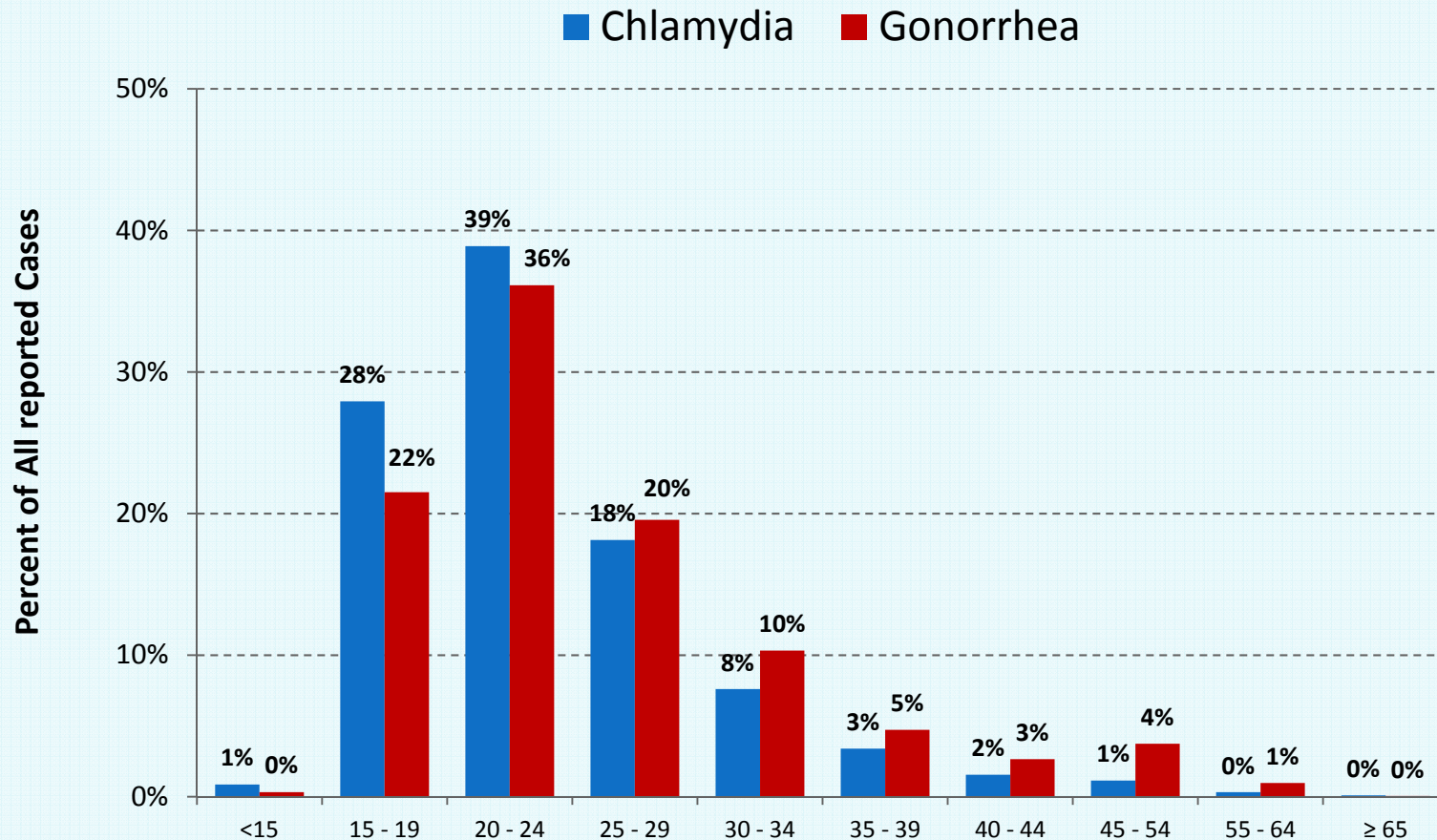
# Chlamydia Rates by Age Group

## New Mexico, 2010 - 2011



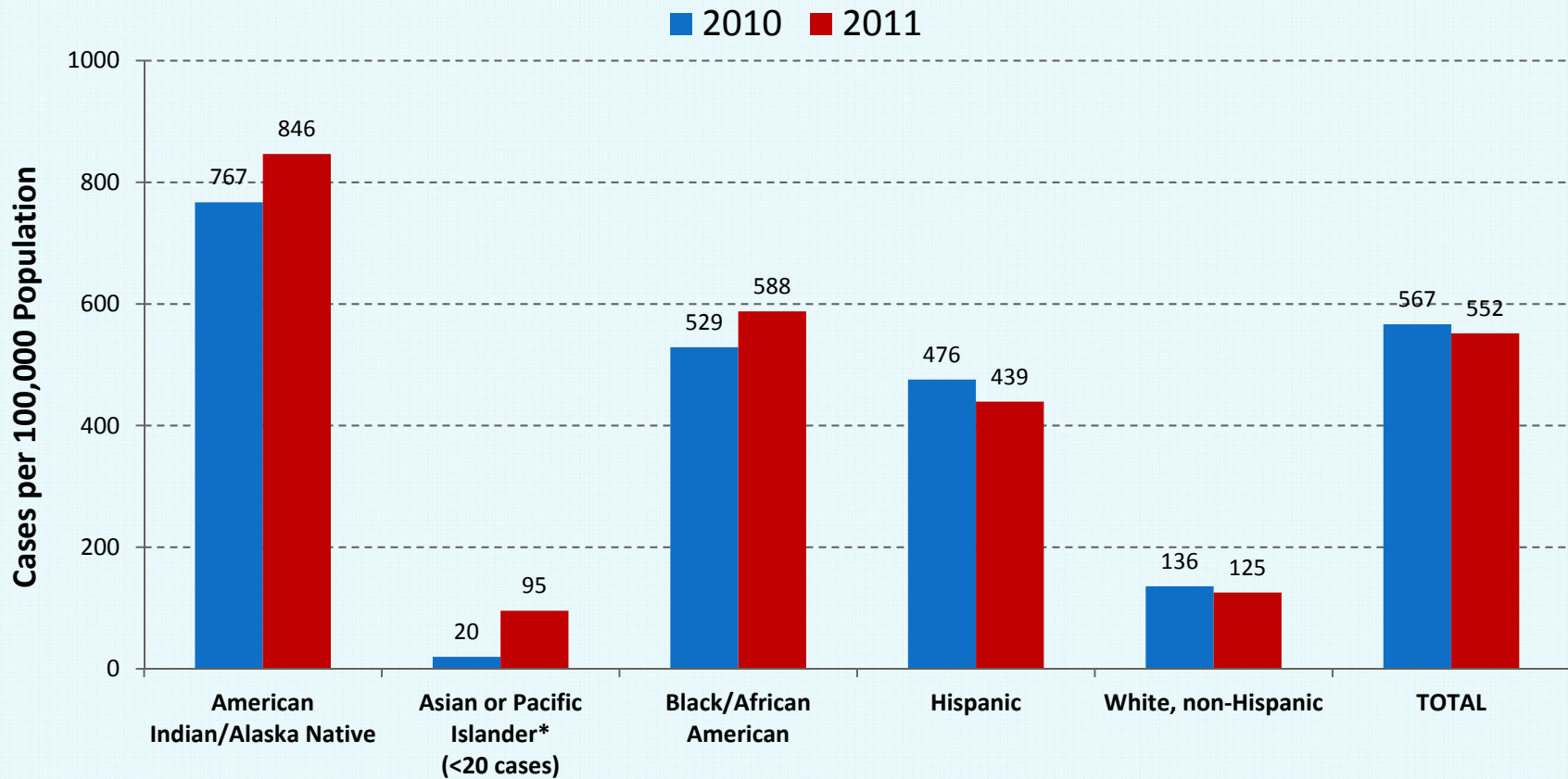
**Chlamydia predominantly affects adolescents and young adults, with rates of infection highest among 20-24 year olds followed by 15-19 year olds**

# Percent of Reported Chlamydia and Gonorrhea Cases by Age Group, New Mexico, 2011



- **67% of reported chlamydia cases are among persons ages 15-24 years**
- **58% of reported gonorrhea cases are among persons age 15-24 years**

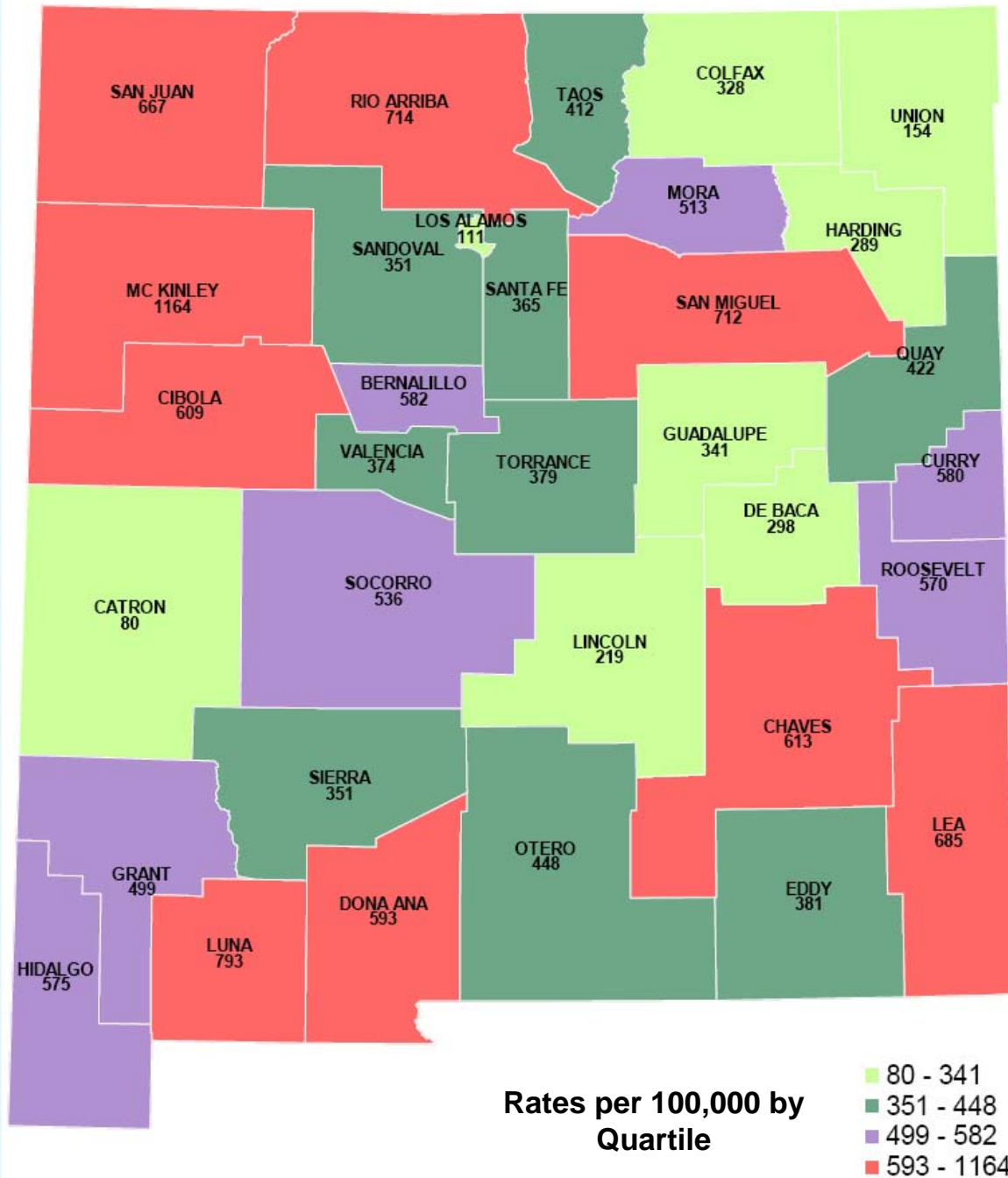
# Chlamydia Rates by Race/ Ethnicity New Mexico, 2010 - 2011



*\*Rates based on <20 cases are unstable and should be interpreted with caution*

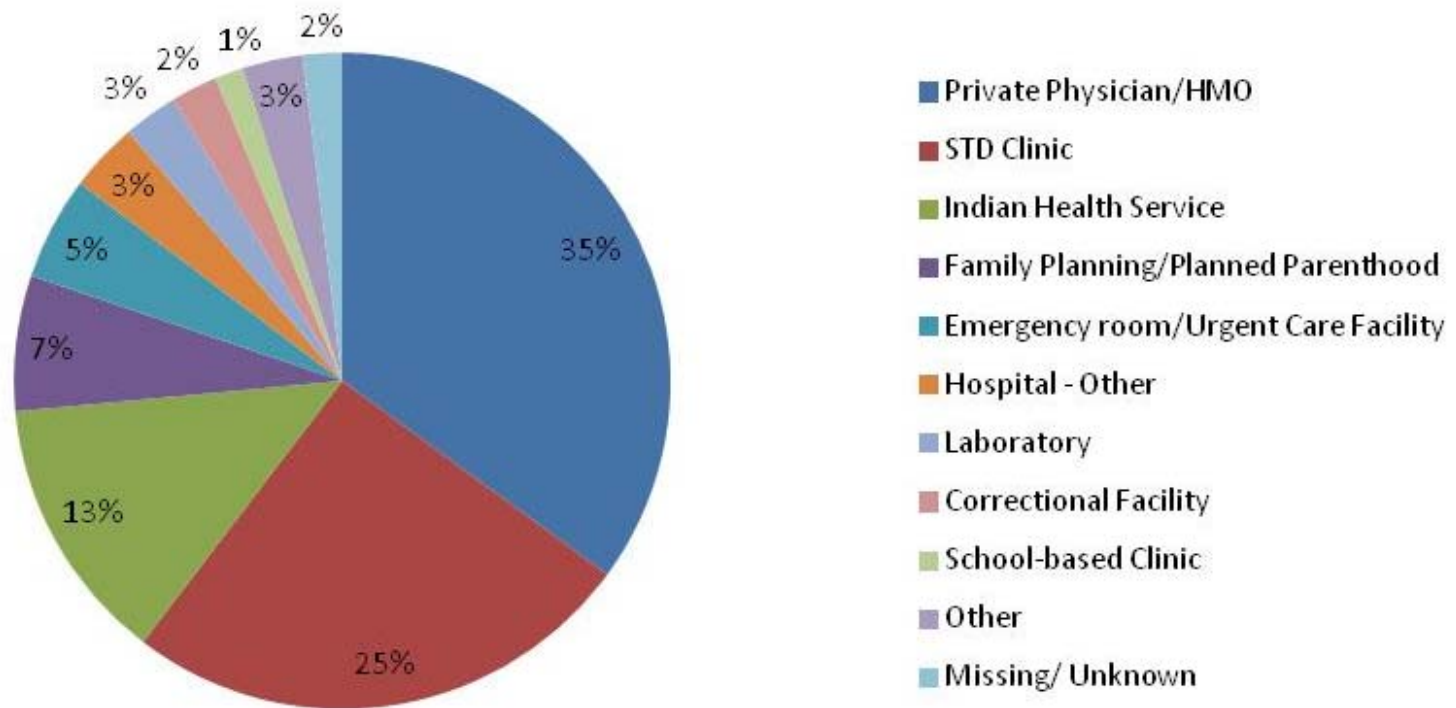
**Similar to national level data, chlamydia rates show health disparities:  
Chlamydia disproportionately affects African American, American Indian, and  
Hispanic populations in New Mexico**

# Chlamydia Rates per 100,000 by County, New Mexico, 2011

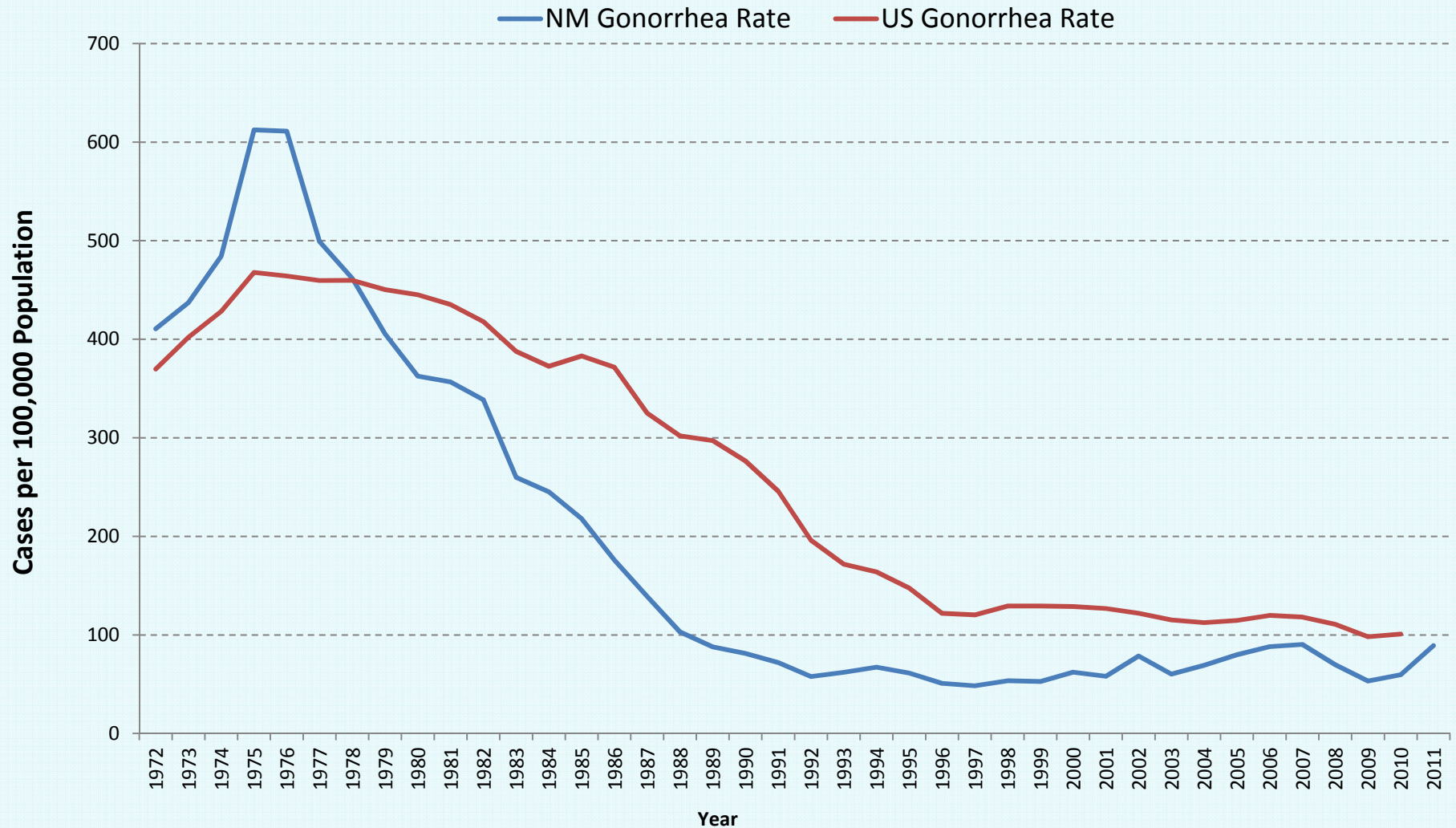




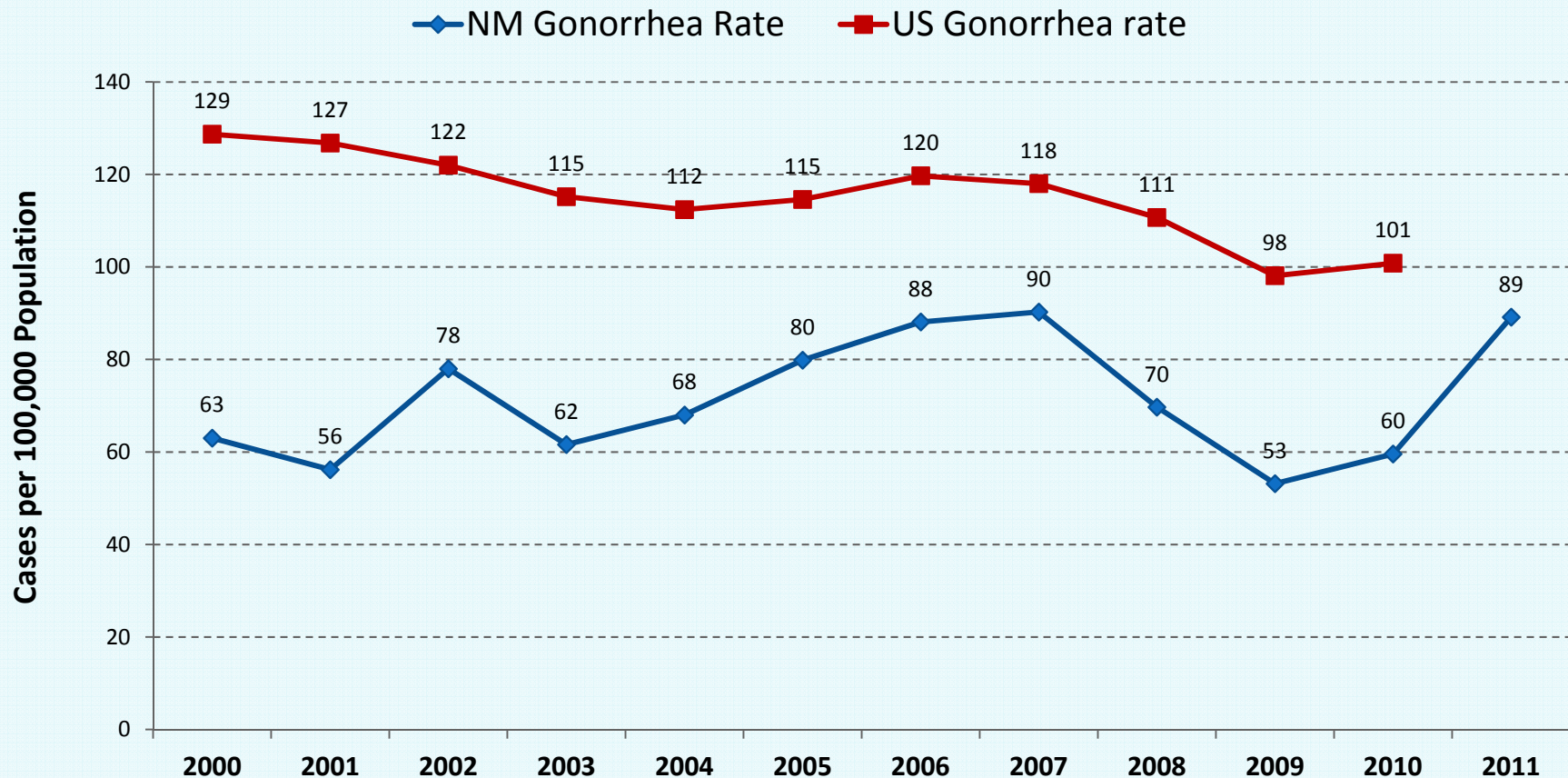
# Percent of Chlamydia Cases by Diagnosing Provider Type, New Mexico, 2011



# Historical Trends in Gonorrhea Rates, New Mexico and U.S., 1972 - 2011

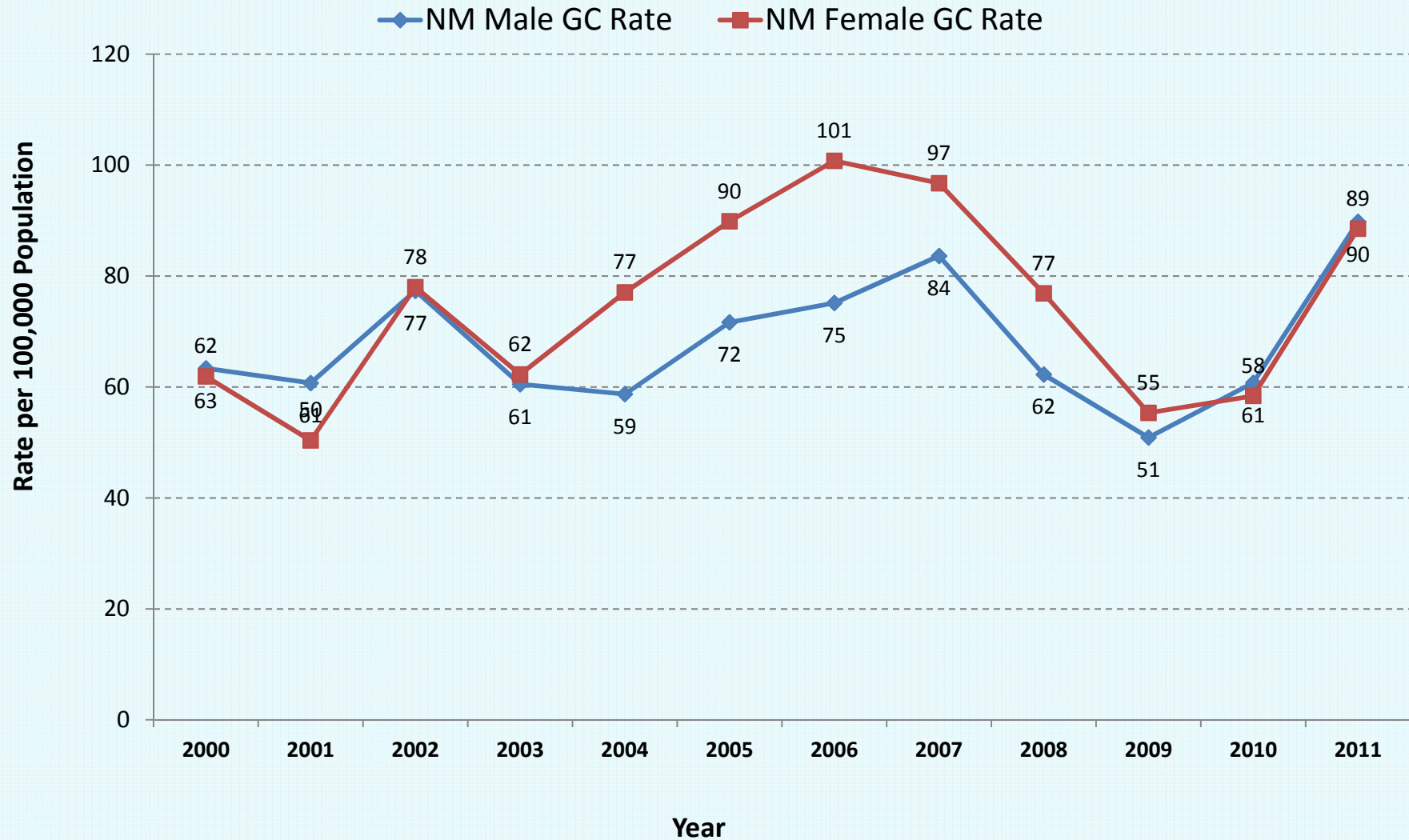


# Gonorrhea Rates, New Mexico and U.S., 2000-2011

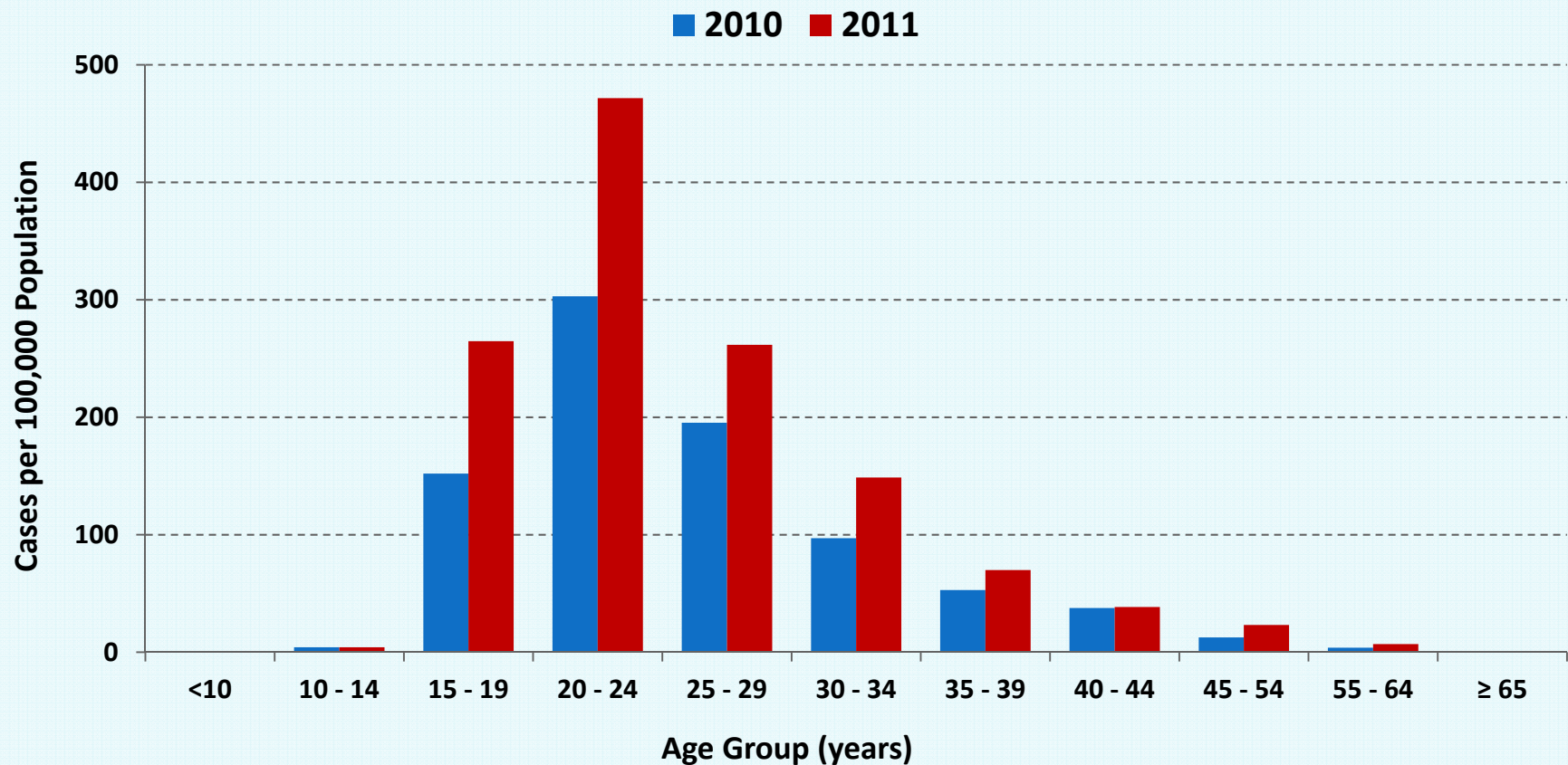


- **New Mexico experienced a 50% increase in gonorrhea cases from 2010 to 2011**
- **Increases in gonorrhea rates occurred in several counties including Bernalillo, Doña Ana, McKinley, and Sandoval counties**

# Gonorrhea Rates by Sex New Mexico, 2000-2011

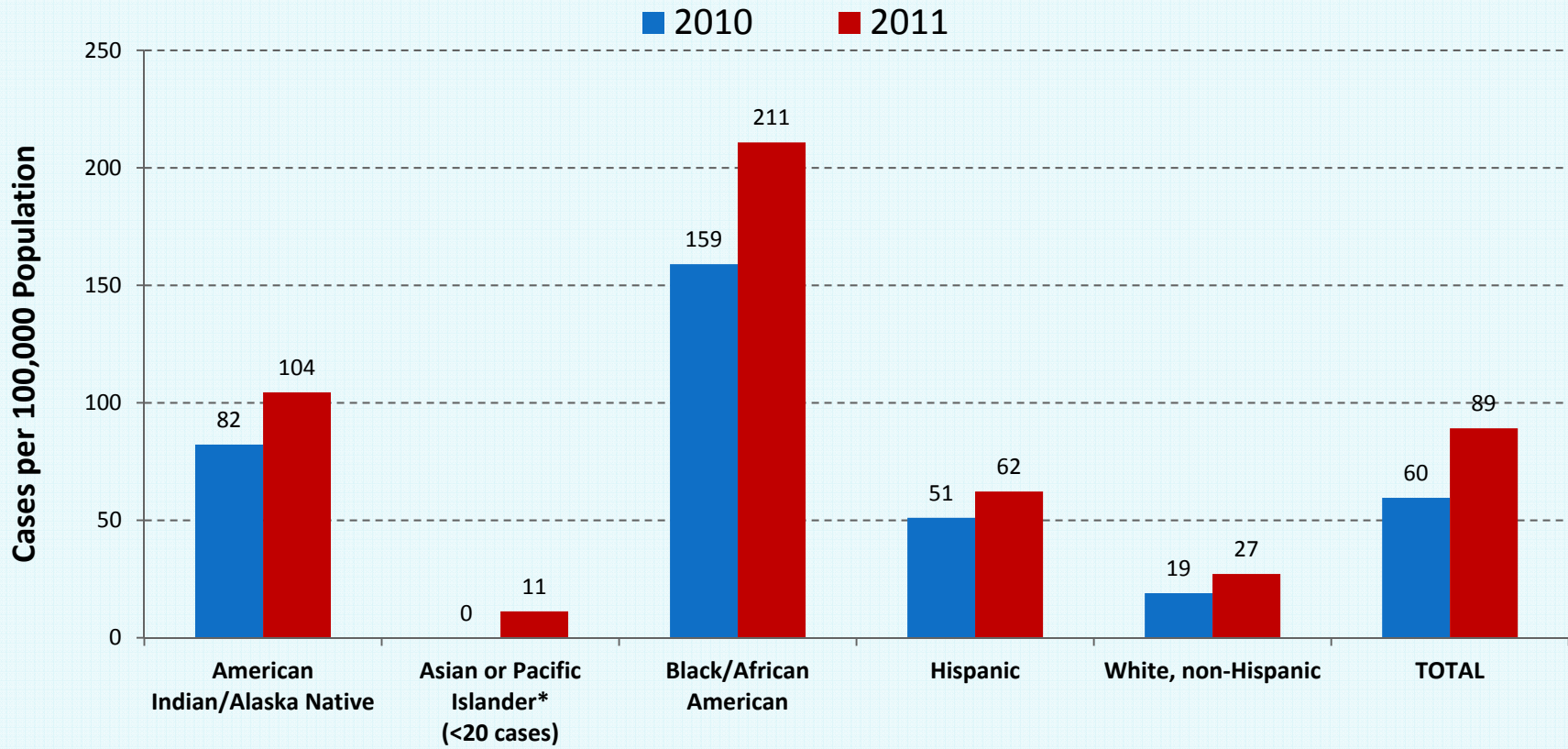


# Gonorrhea Rates by Age Group New Mexico, 2010 - 2011



- Gonorrhea rates increased among most age groups from 2010 to 2011
- Rates among women ages 15-19 increased by 90% compared to 2010
- Rates among men ages 20-24 increased by 64% compared to 2010

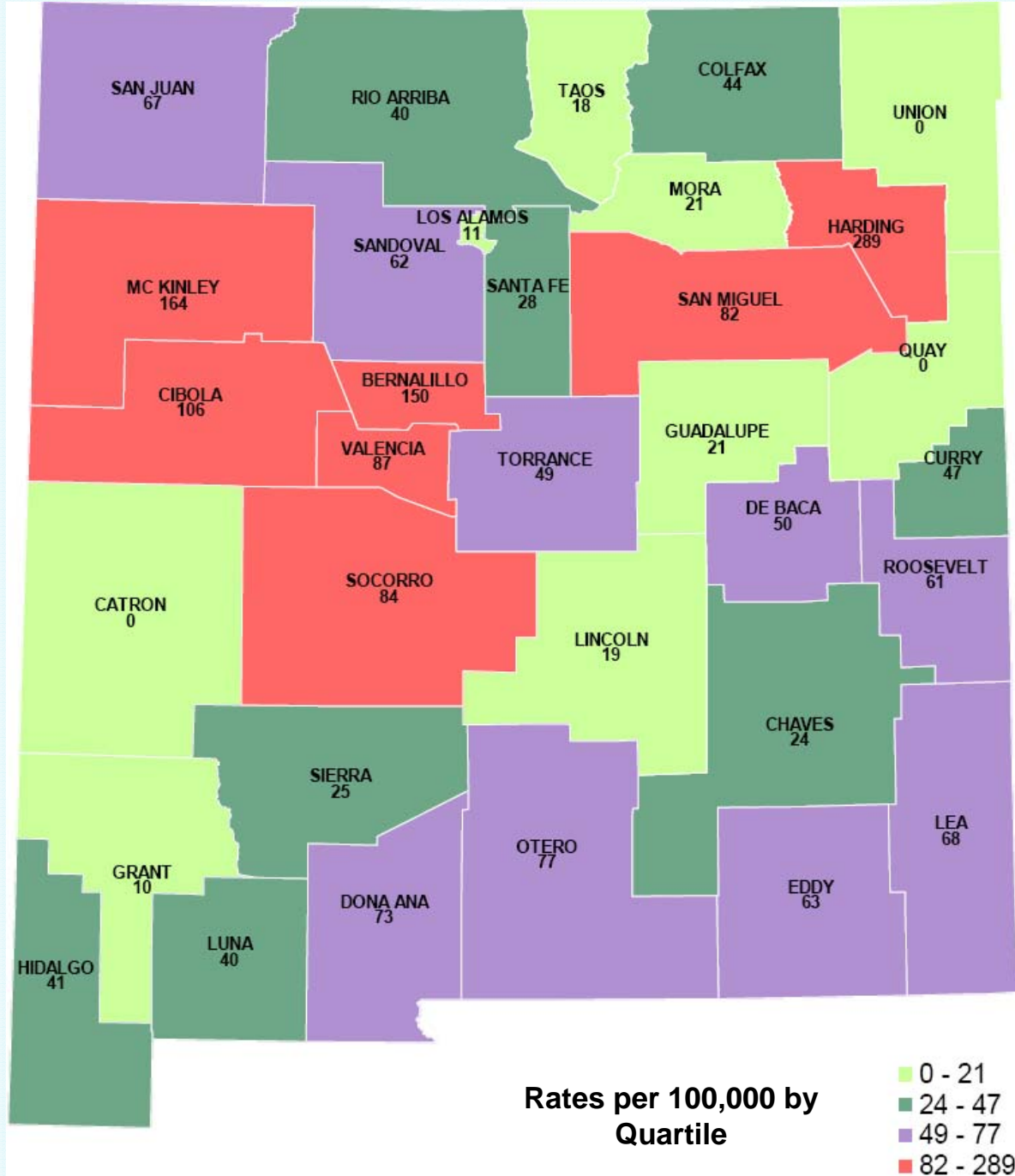
# Gonorrhea Rates by Race/ Ethnicity New Mexico, 2010 - 2011



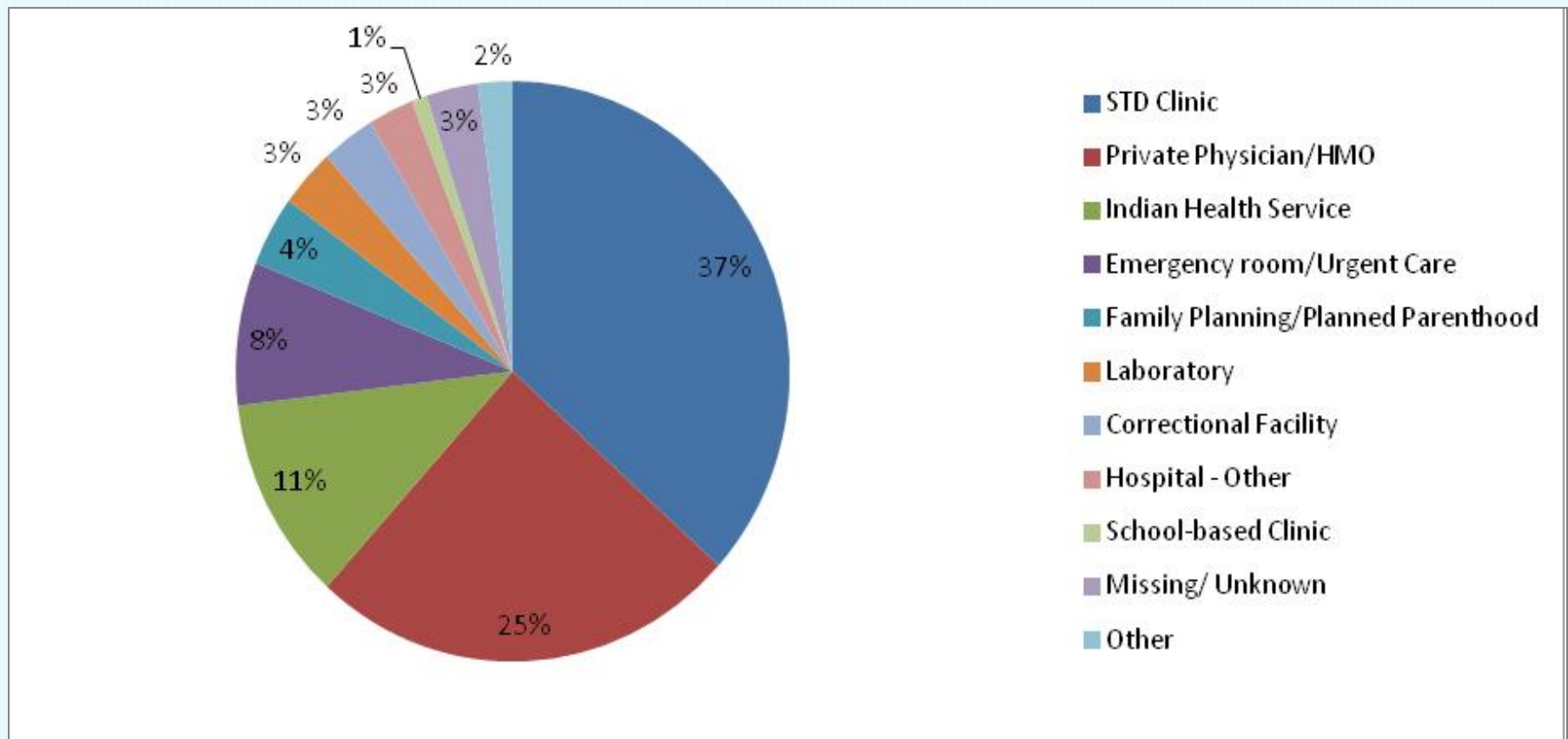
*\* Rates based on <20 cases are unstable and should be interpreted with caution*

**Similar to national level data, gonorrhea rates show health disparities:  
Gonorrhea disproportionately affects African American, American Indian, and  
Hispanic populations in New Mexico**

# Gonorrhea Rates per 100,000 by County, New Mexico, 2011



# Percent of Gonorrhea Cases by Diagnosing Provider Type, New Mexico, 2011



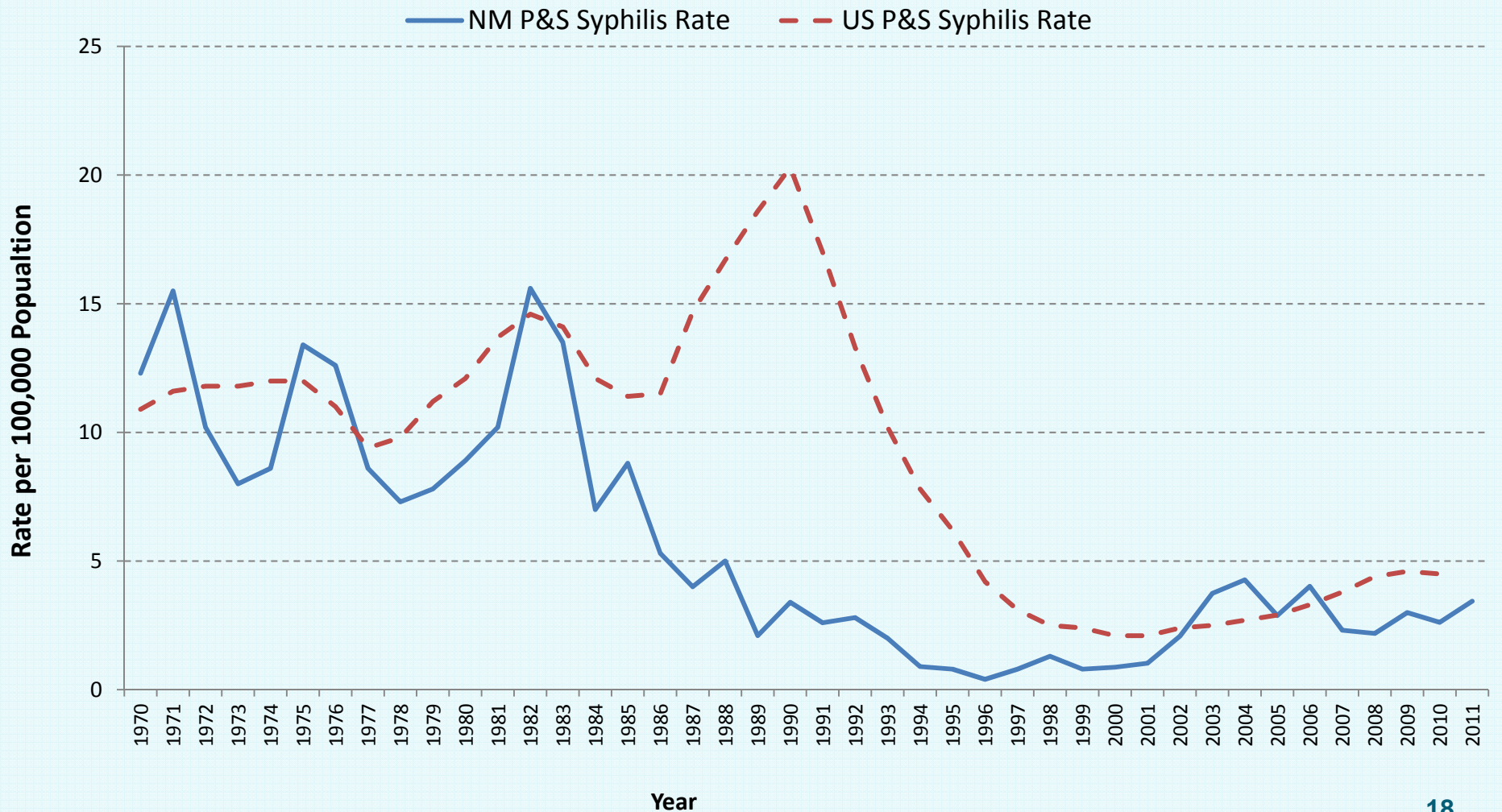


# Gonococcal Isolate Susceptibility Project (GISP) Data, Albuquerque, 2010

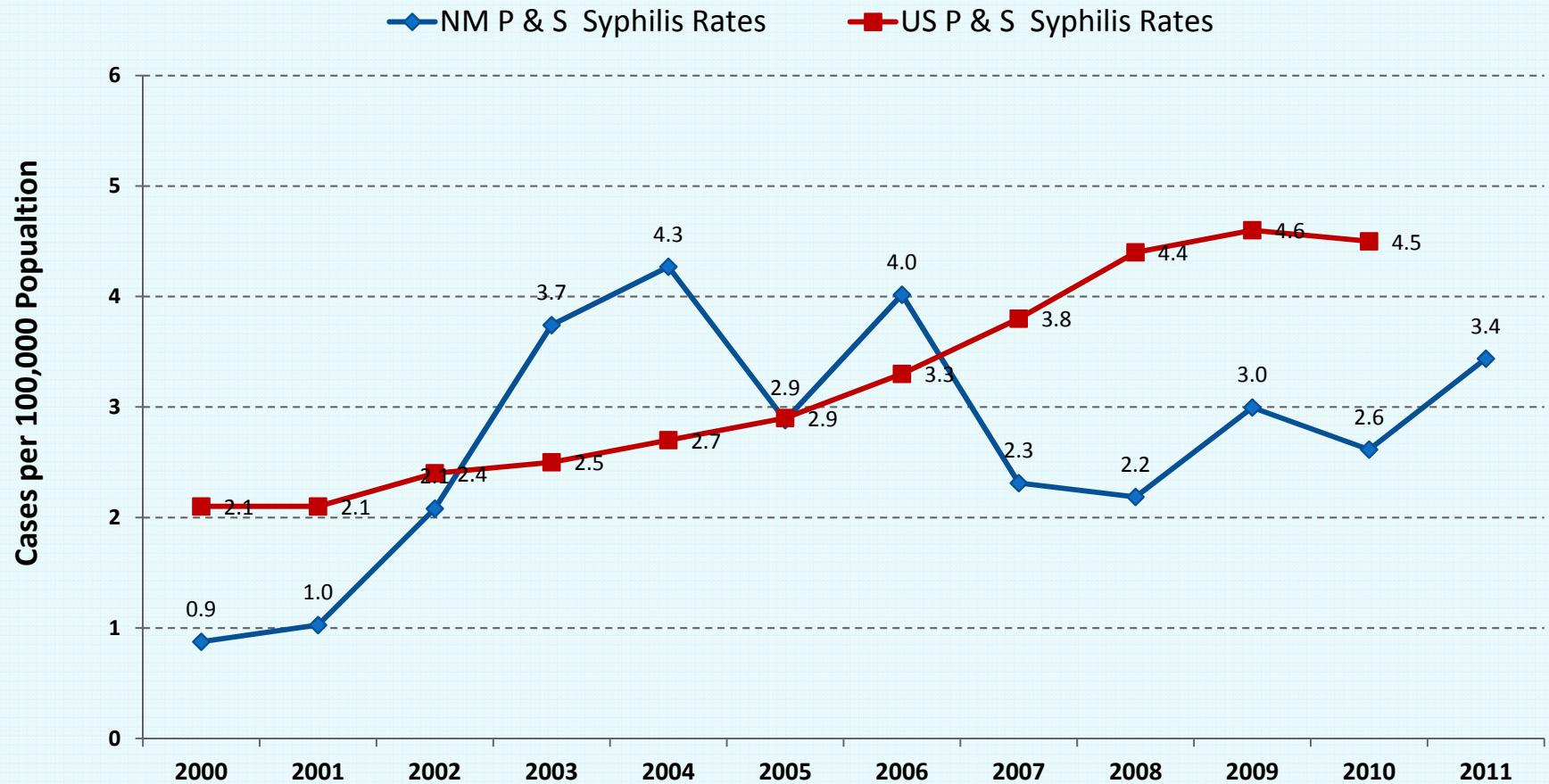
| Antimicrobial                                 | % of Isolates |
|---|---------------|
| Penicillin Resistant                          | 33%           |
| Tetracycline Resistant                        | 31%           |
| Quinolone Resistant                           | 23%           |
| Pen R/ Tet R/ Quinolone R                     | 21%           |
| <b>Azithromycin</b>                           |               |
| Decreased susceptibility                      | 1.9%          |
| High level resistance                         | 0%            |
| <b>Cefixime</b> - decreased susceptibility    | 0%            |
| <b>Ceftriaxone</b> - decreased susceptibility | 0%            |

- 35% of GISP participants in 2010 identify as MSM
- First 2 cefpodoxime alerts (early warning for resistance) in May 2010 , others have followed

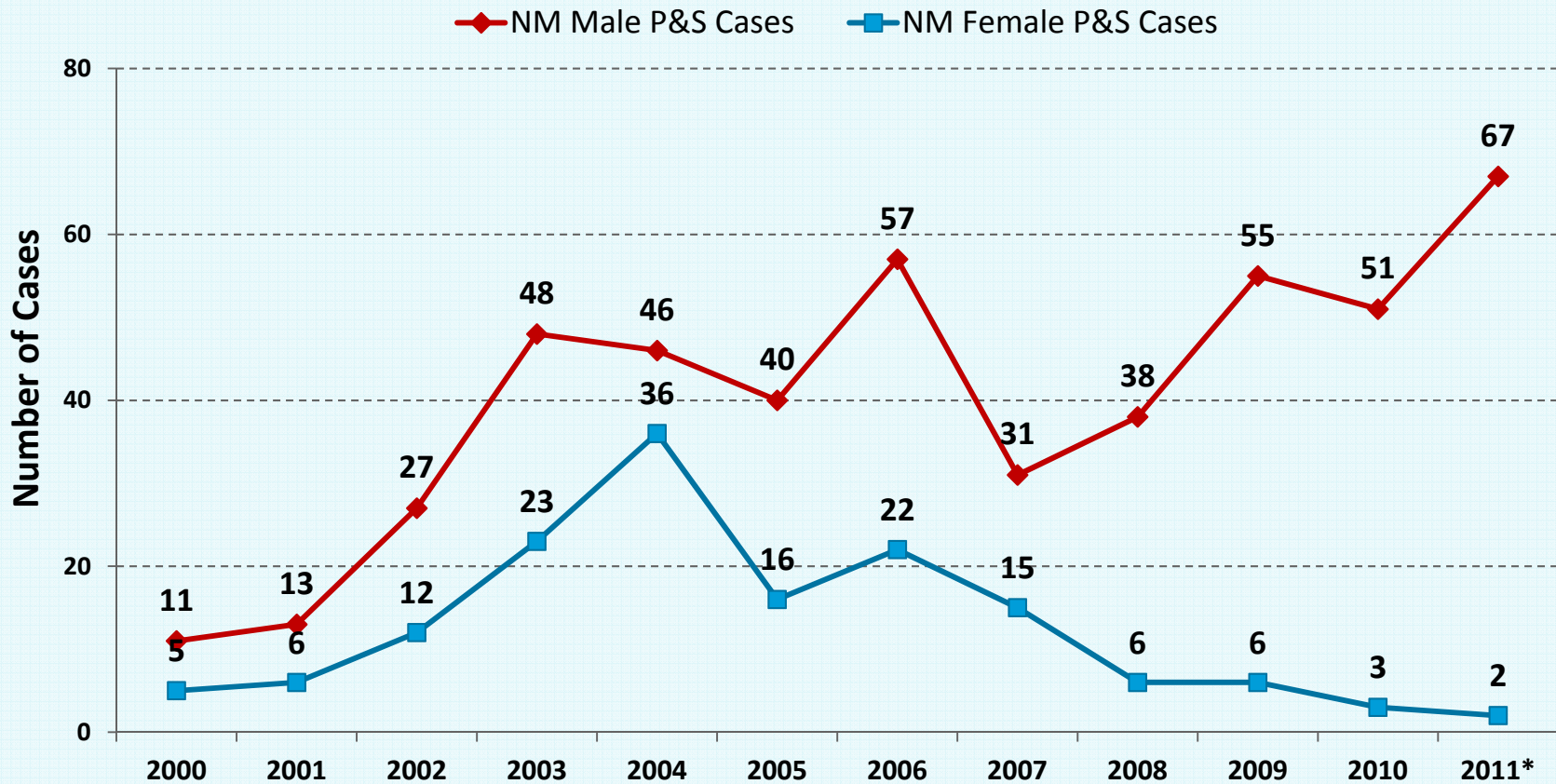
# Historical Trends in Primary and Secondary Syphilis Rates, New Mexico and U.S. 1970-2011



# Rates of Primary and Secondary Syphilis, New Mexico and US, 2000 - 2011

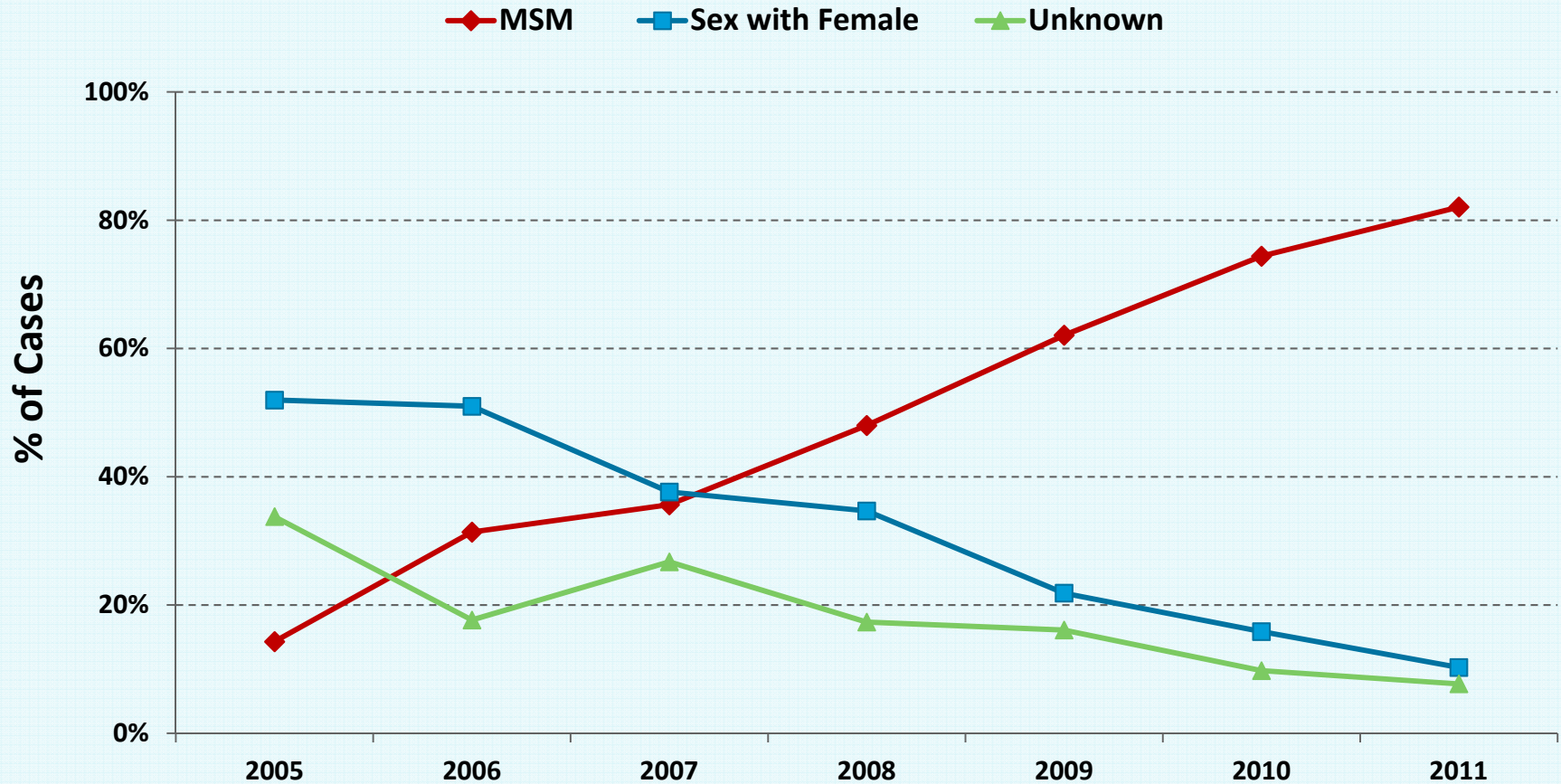


# NM Primary and Secondary Syphilis Case Numbers by Sex, New Mexico, 2000-2011



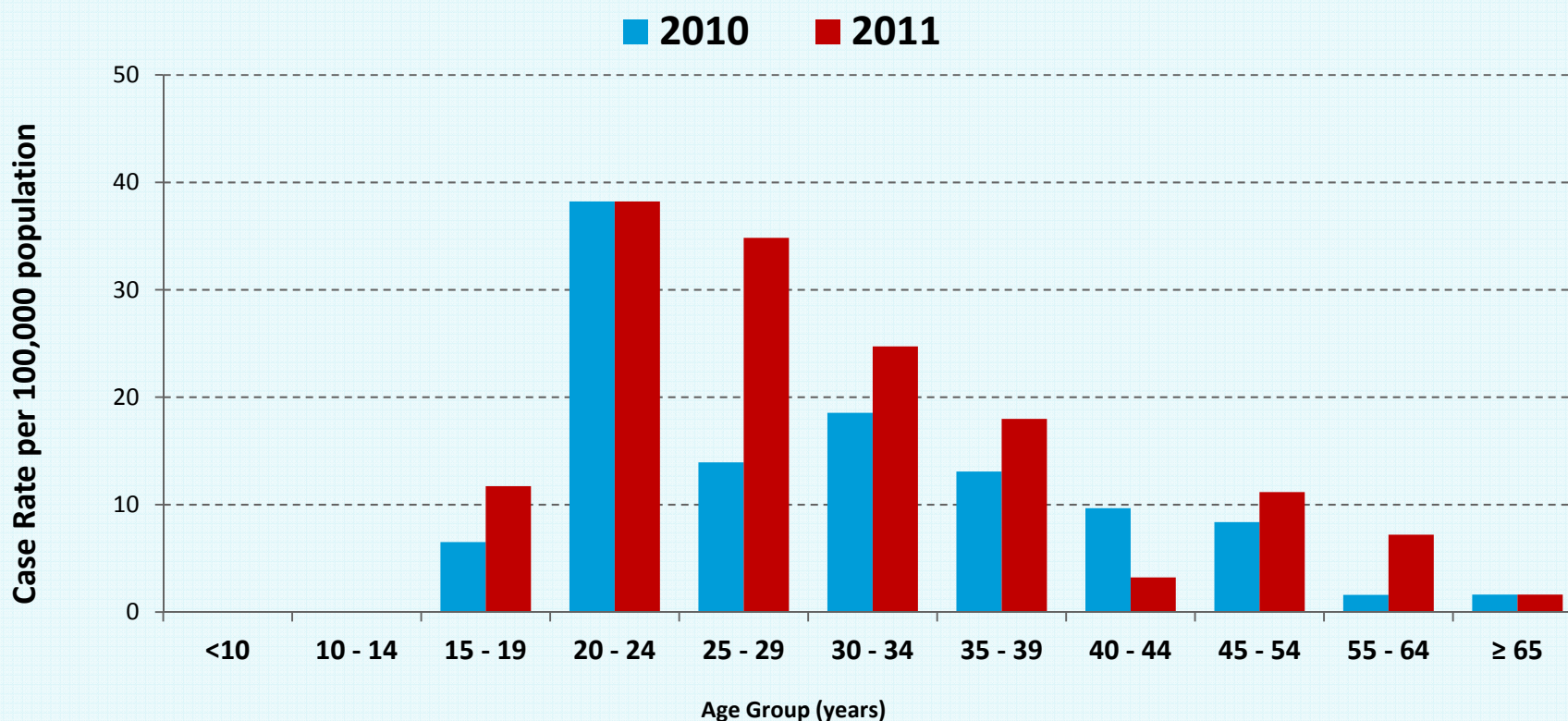
**97% of all reported primary and secondary syphilis cases in 2011 were male**

# Cases of Primary, Secondary, and Early Latent Syphilis Among Men, by Gender of Partner, New Mexico 2005 - 2011



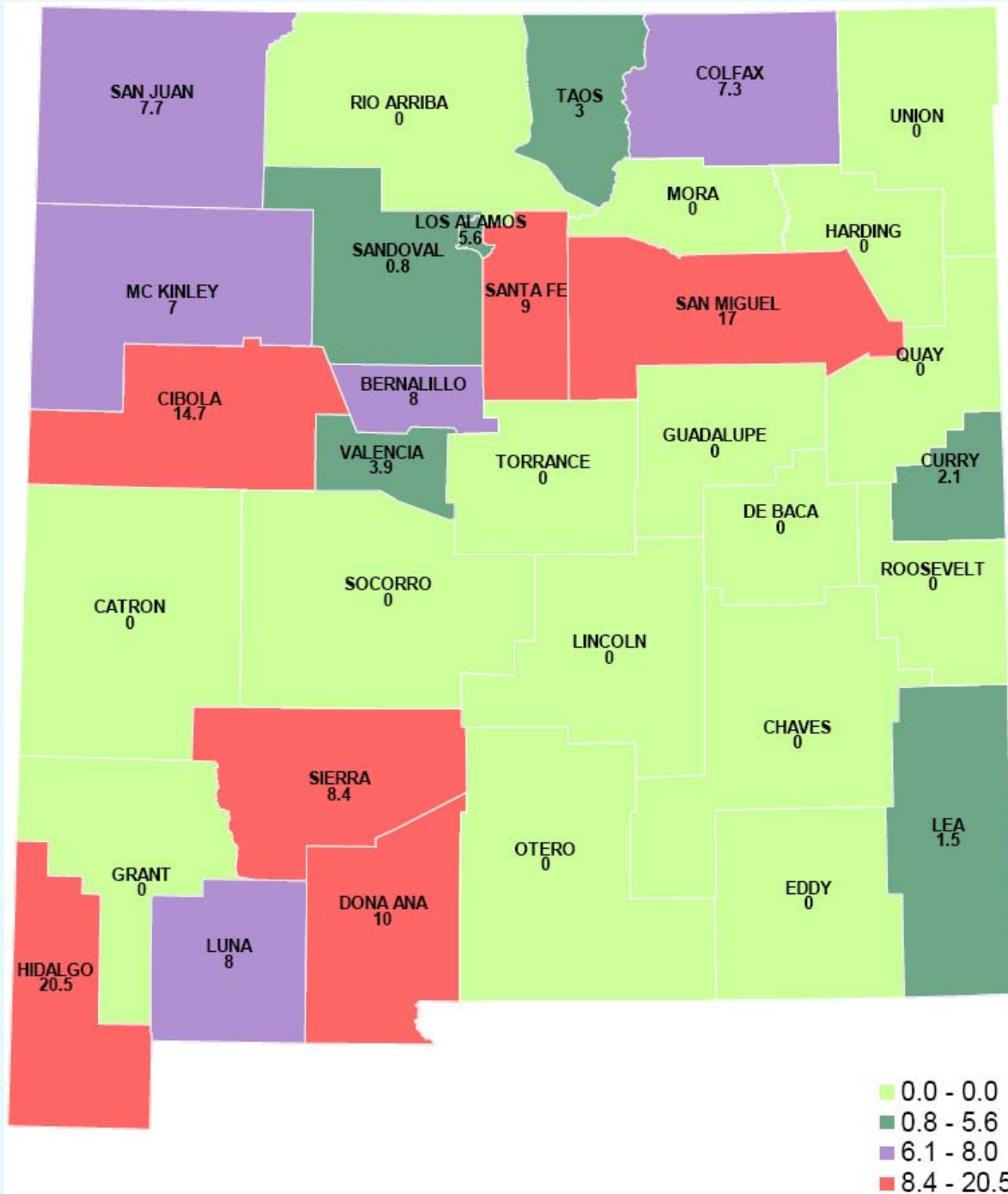
**Of all male cases of syphilis in 2011, where gender of partner was known, 89% of cases were men with male sex partners (MSM). This mirrors national trends early syphilis infections.**

# Primary, Secondary, and Early Latent Syphilis Rates by Age Group, Males, New Mexico 2010-2011

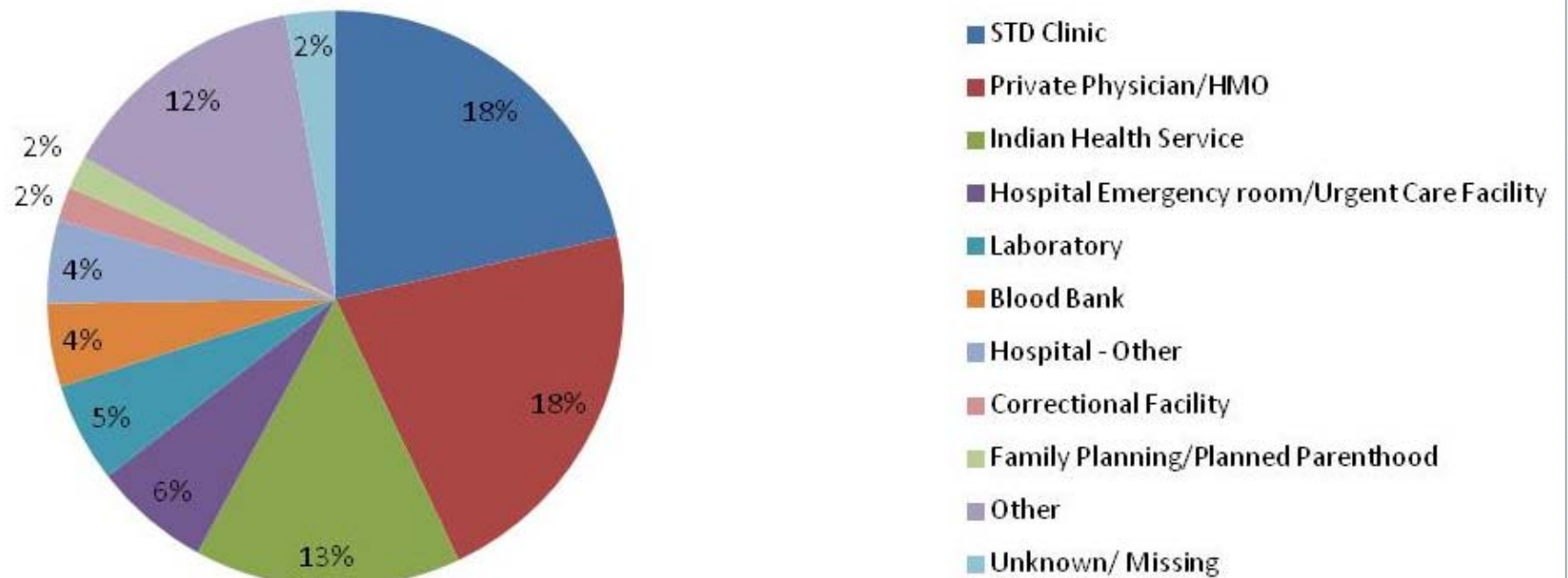


**Compared to 2010, there was a large increase in Primary, Secondary Early Latent syphilis rates among men age 25-29 years old in 2011**

# Primary, Secondary, and Early Latent Syphilis Rates by County, New Mexico, 2011



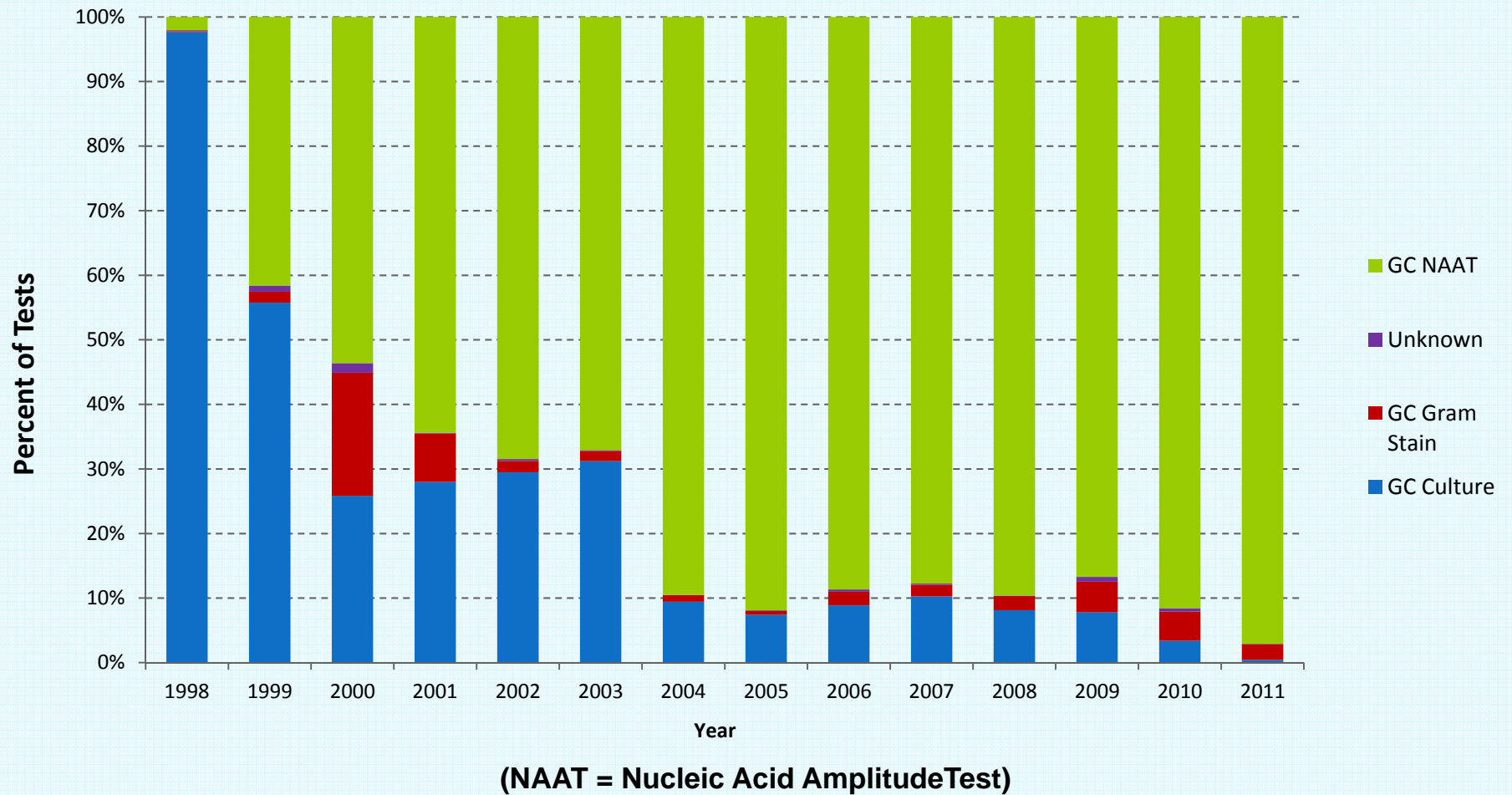
# Percent of Primary, Secondary and Early Latent Syphilis Cases by Diagnosing Provider, New Mexico 2011



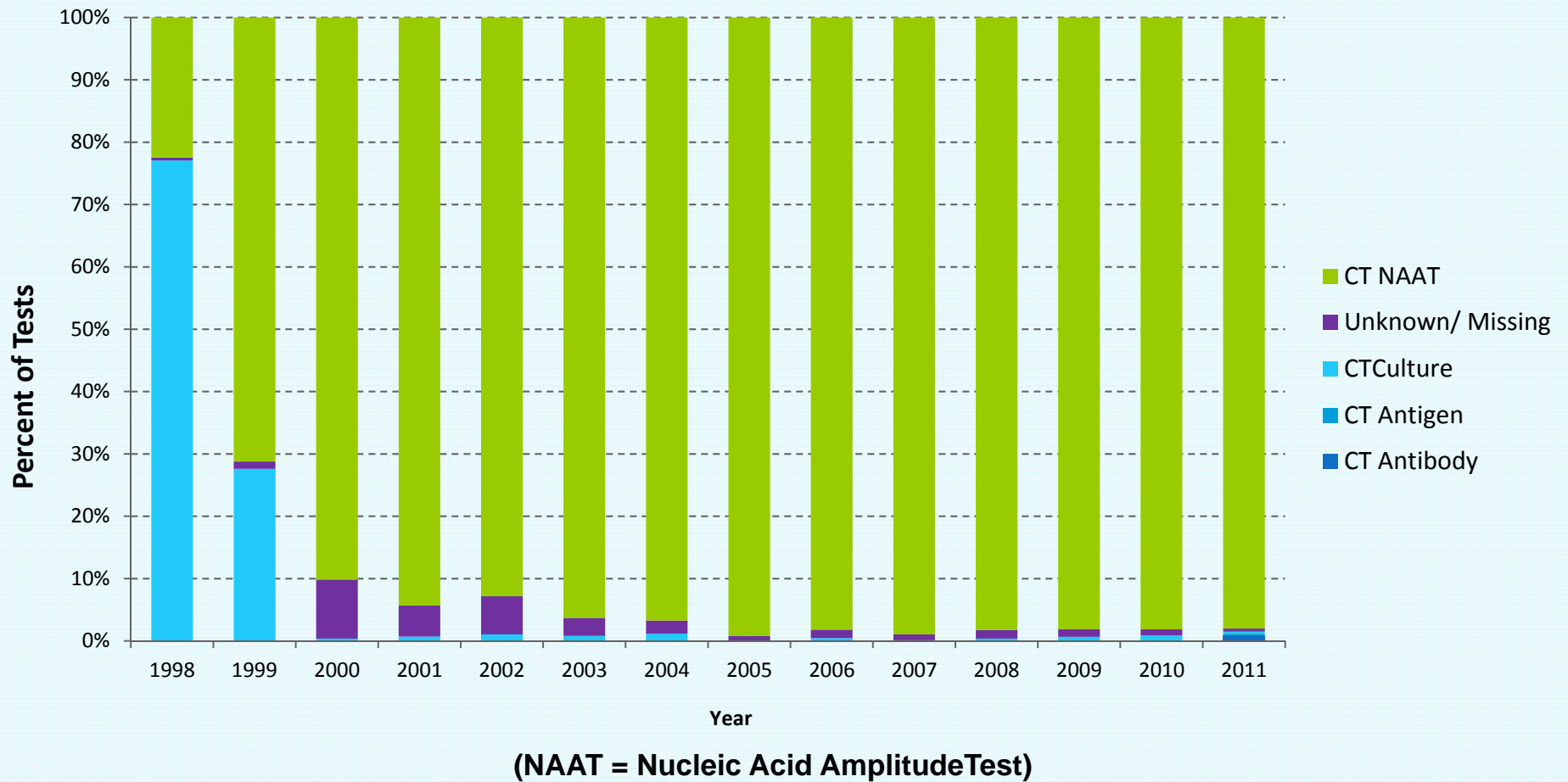


# Gonorrhoea and Chlamydia Testing Methods

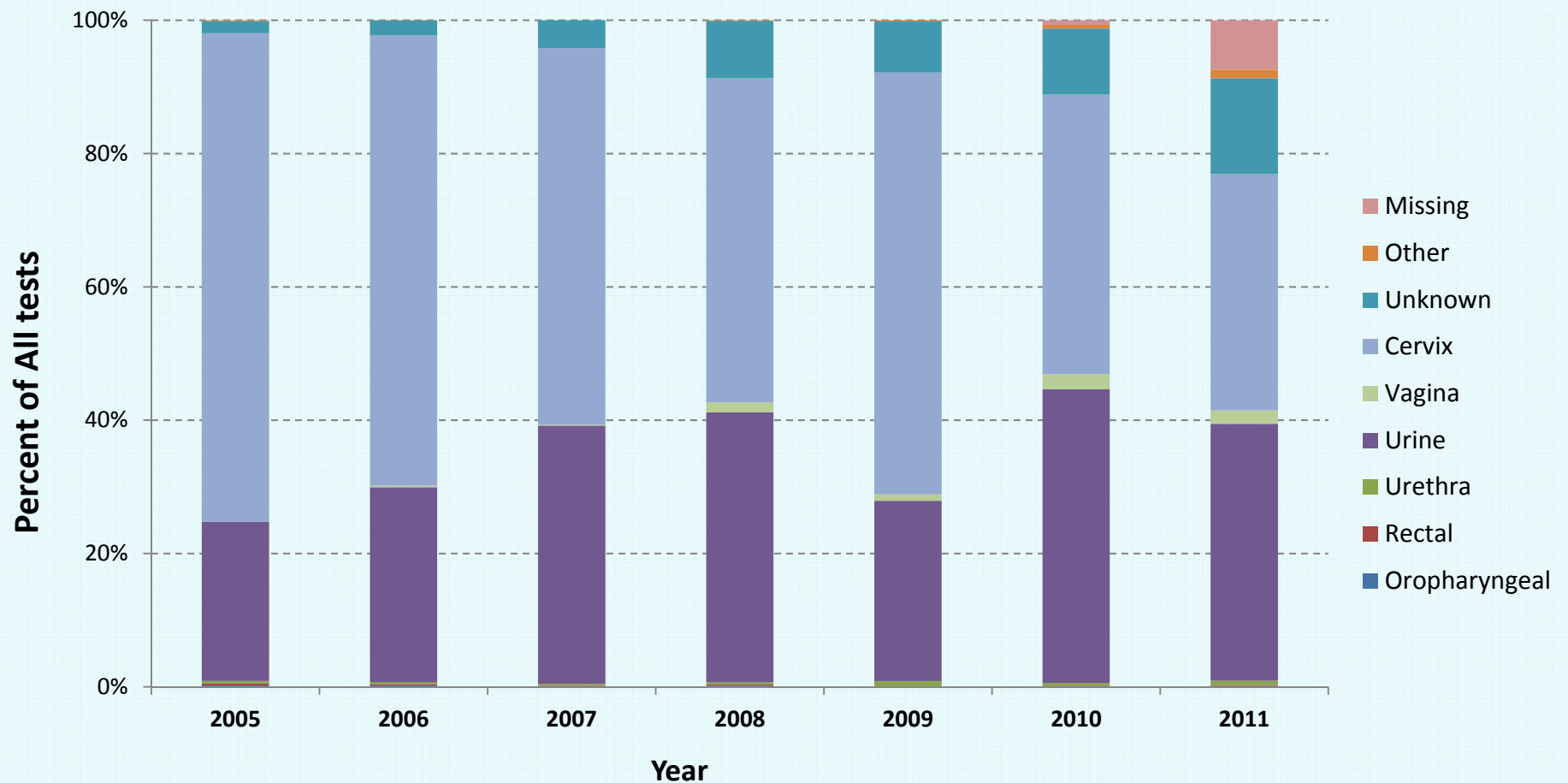
# Changes in Gonorrhea Testing Methods, New Mexico, 1998 - 2011



# Changes in Chlamydia Testing Methods New Mexico, 1998 - 2011



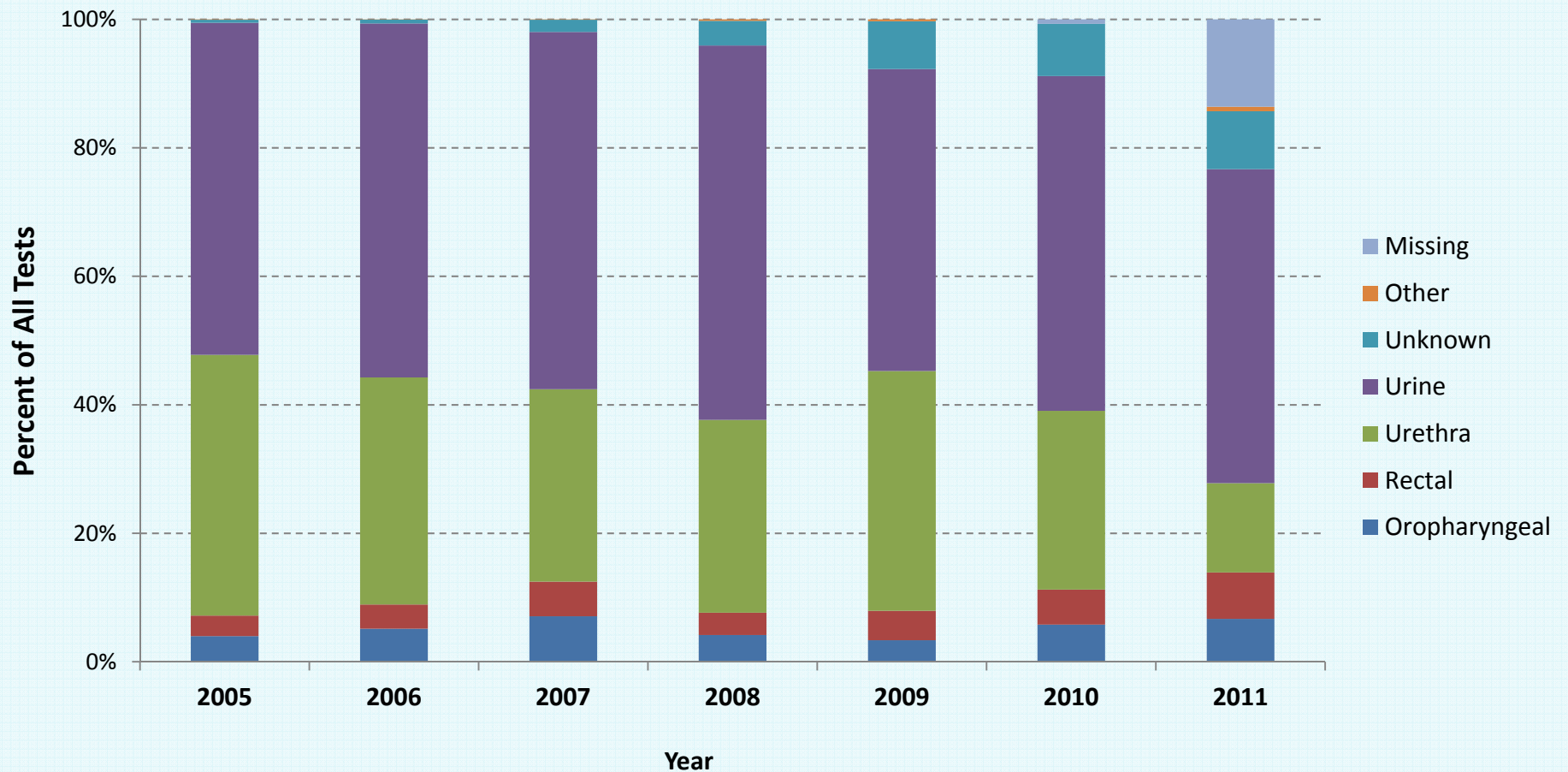
# Specimen Source, All Gonorrhea Tests in NM Database, Females, 2005-2011



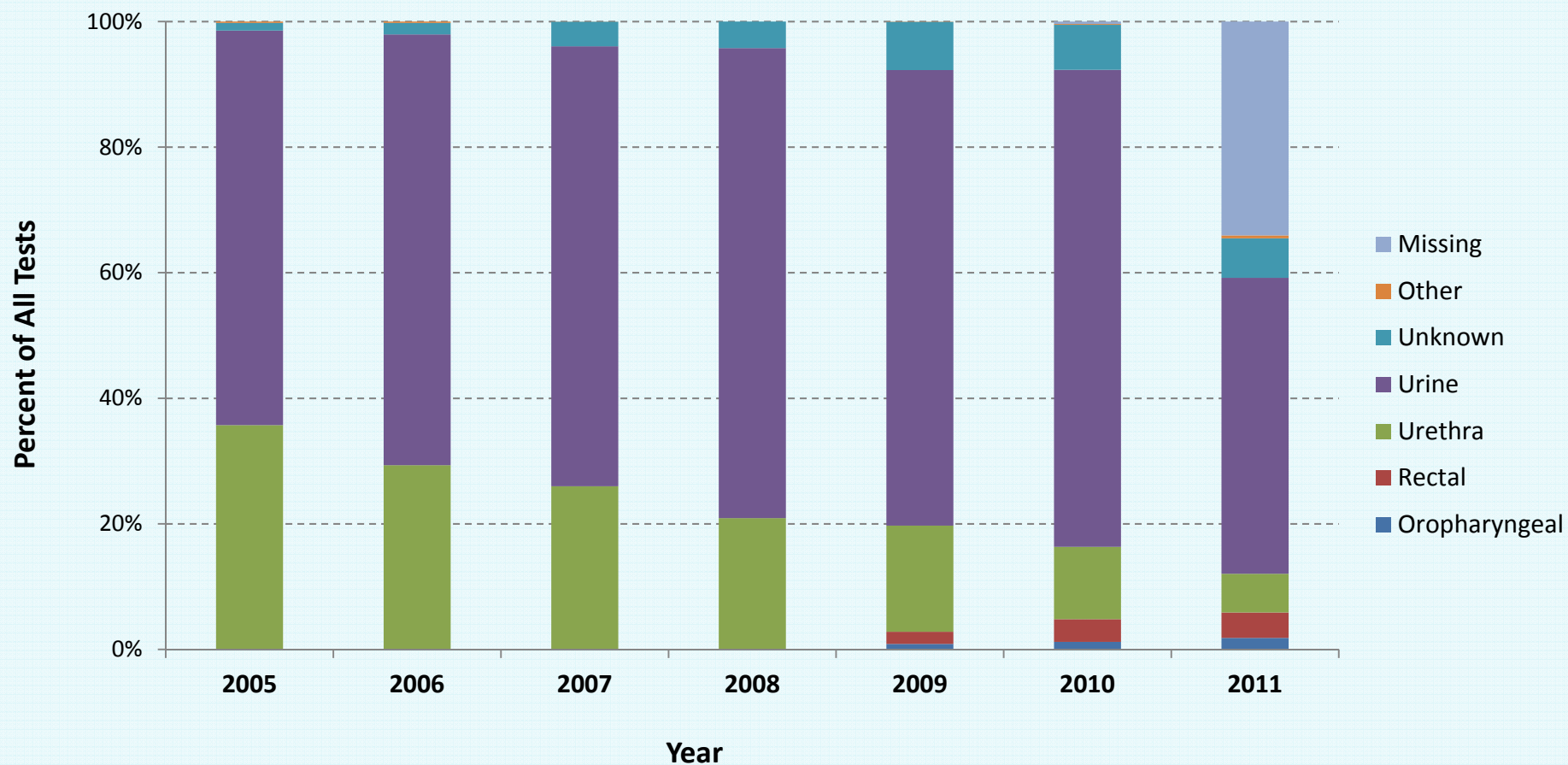
# Specimen Source, All Chlamydia Tests in NM Database, Females, 2005-2011



# Specimen Source, All Gonorrhea Tests in NM Database, Males, 2005-2011



# Specimen Source, All Chlamydia Tests in NM Database, Males, 2005-2011

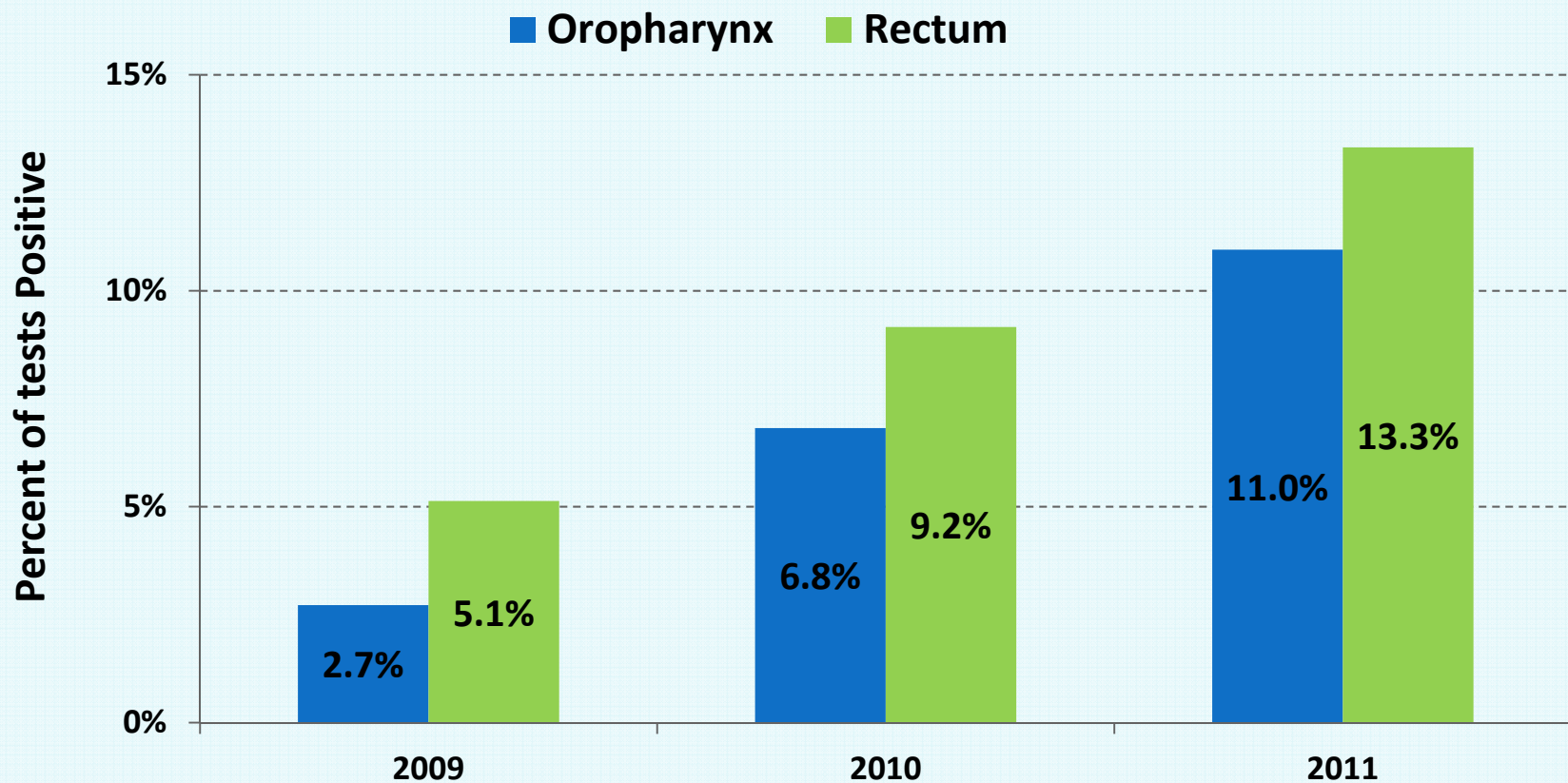


# Special Populations

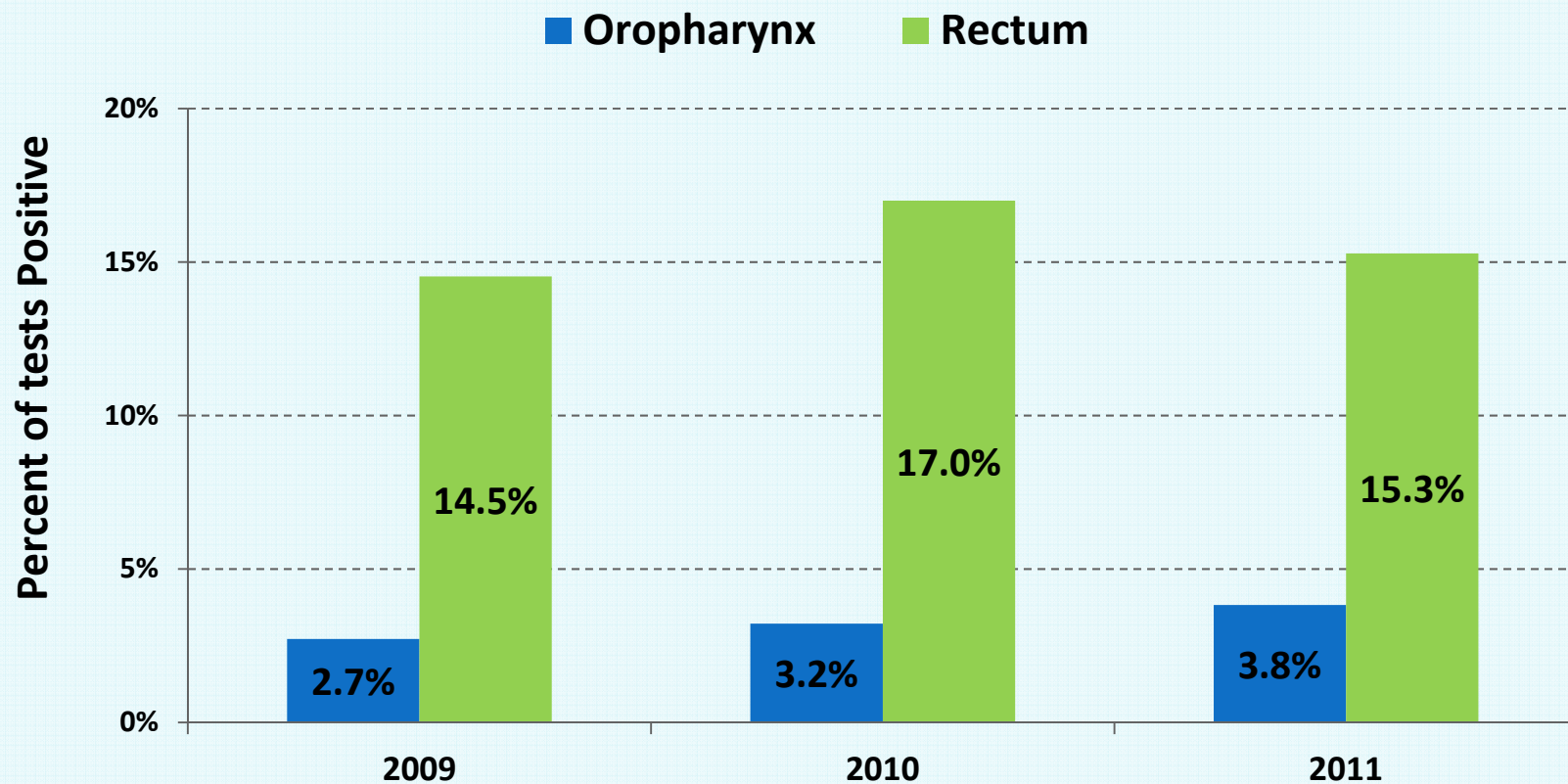
Men with Male Sex Partners (MSM)



## GC Positivity among Men Tested at Alternate Sites, NMDOH clinics and contracted providers, 2009-2011



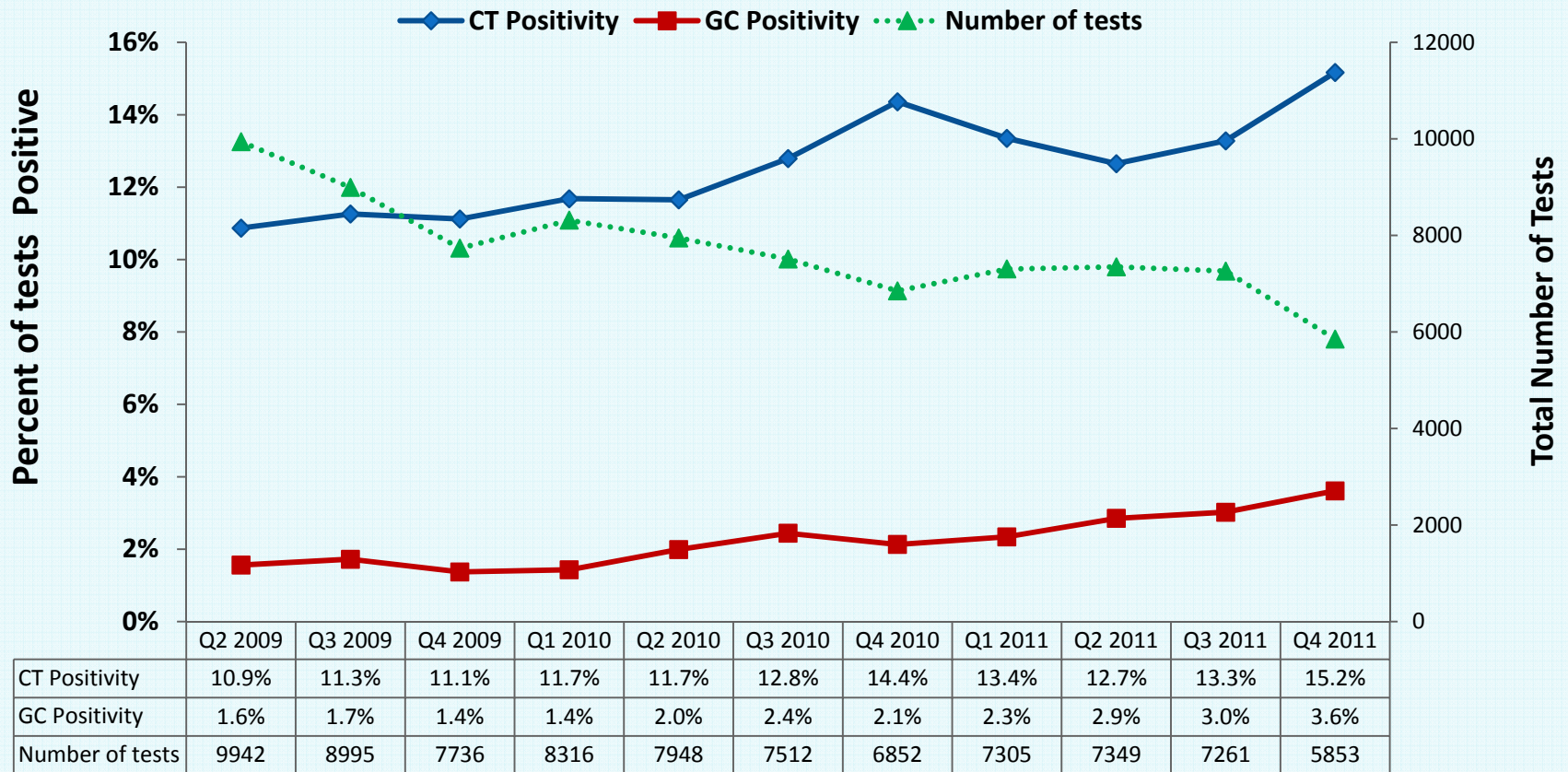
## CT Positivity among Men Tested at Alternate Sites, NMDOH clinics and contracted providers, 2009-2011



# Gonorrhea and Chlamydia Testing in NM DOH Testing Programs

# Streamlining NMDOH Testing Efforts

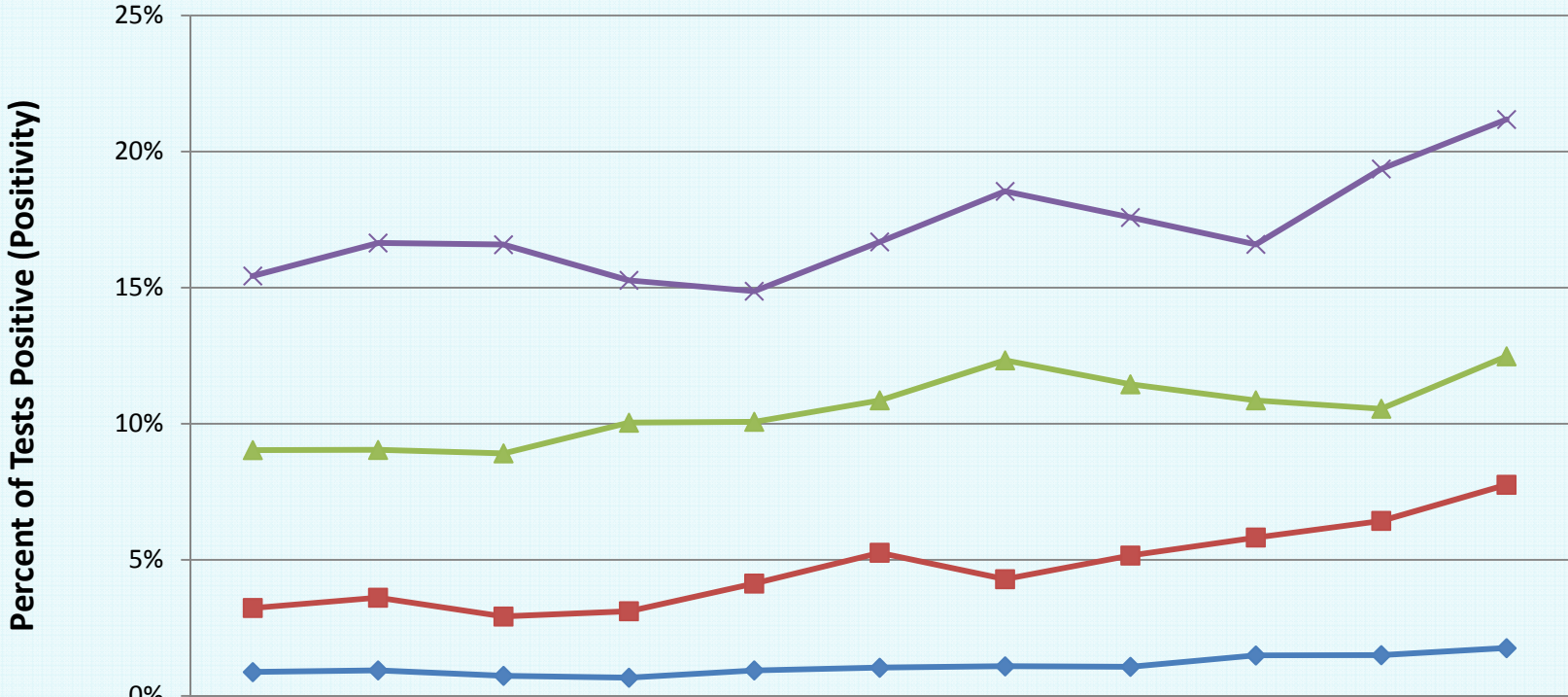
## CT and GC Positivity and Testing Volume, 2009 to 2011



Testing ratios by sex remained stable : 70% female, 30% male

% of tests in women age 25 and under rose from 65% to 73%

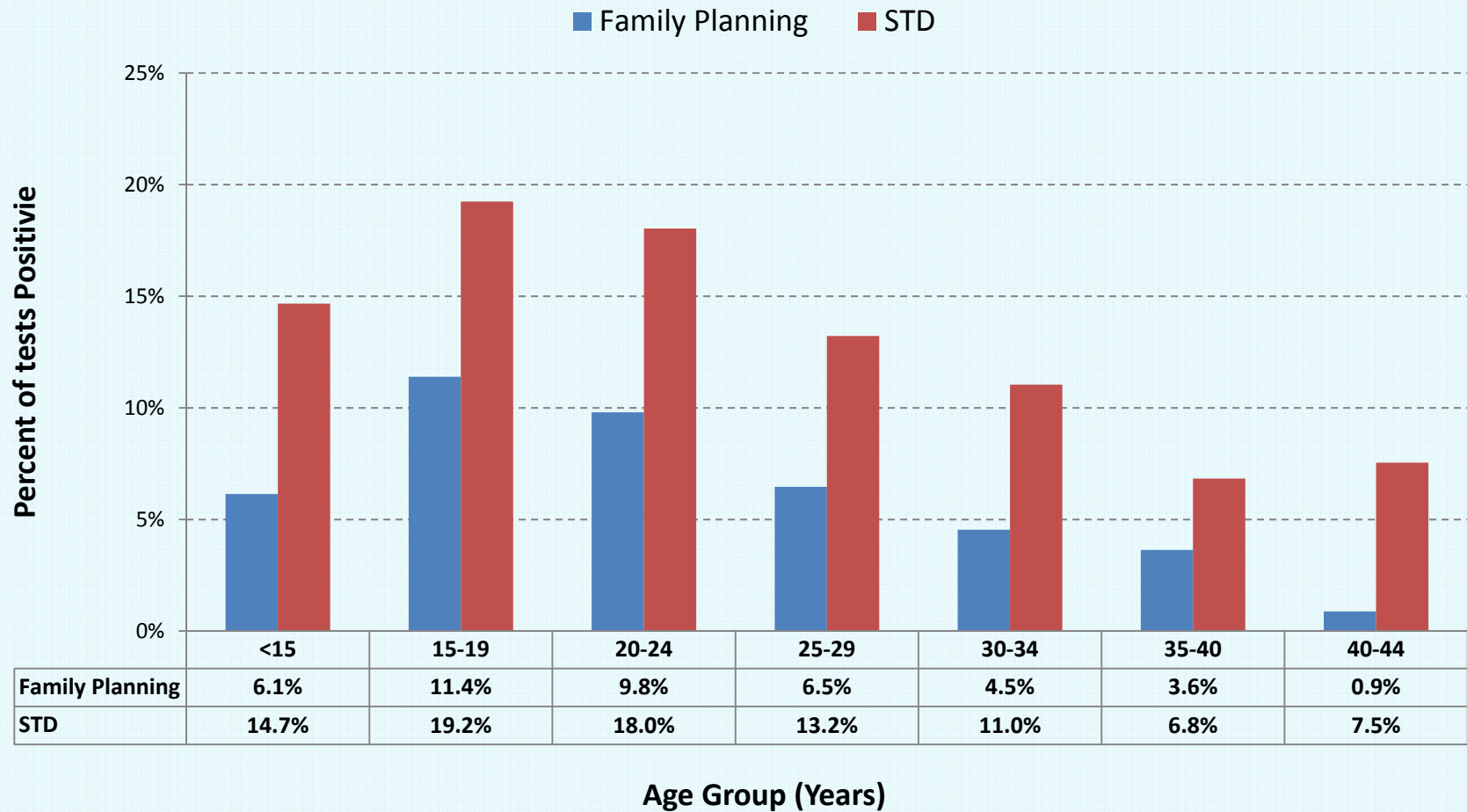
# Chlamydia and Gonorrhea Positivity by Sex, all NMDOH Testing Sites, 2009 - 2011



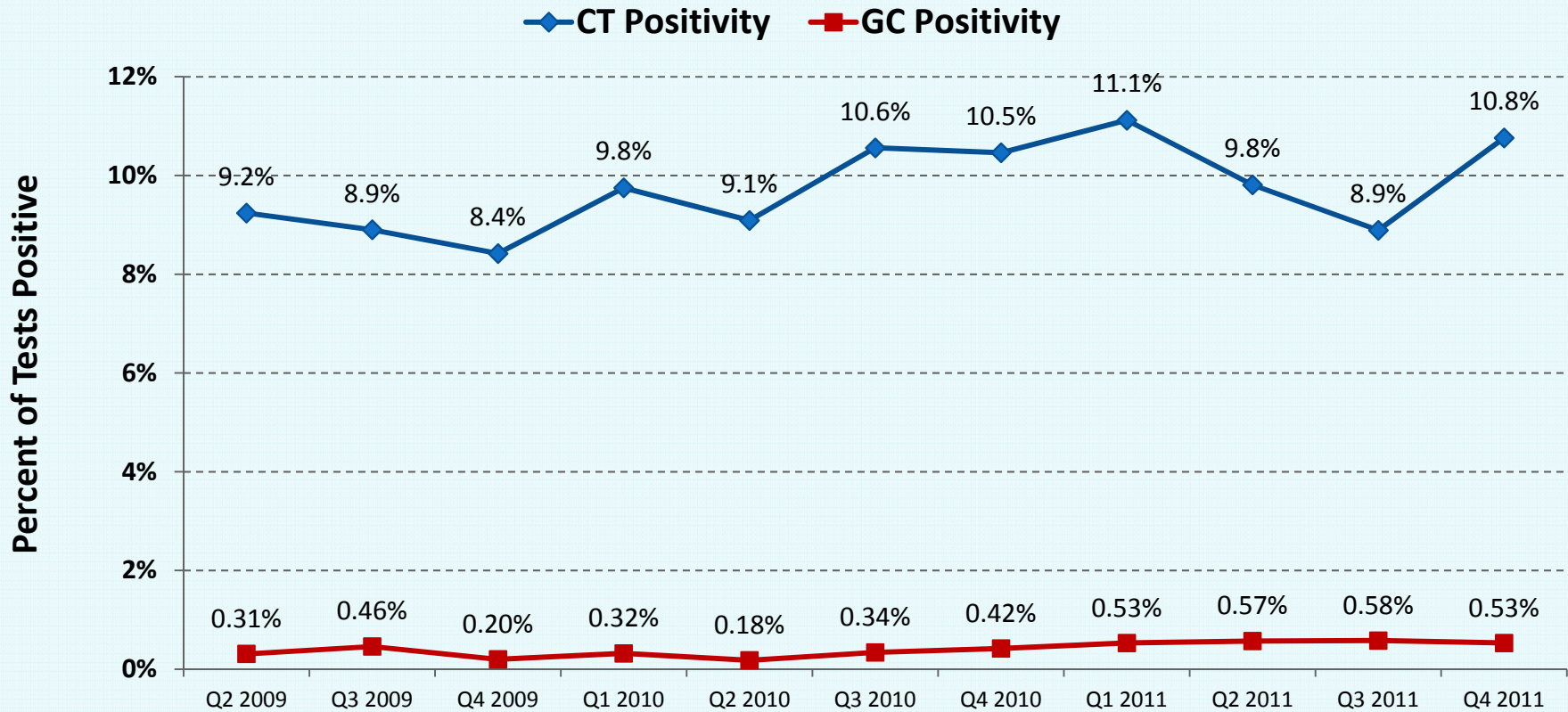
|                         | Q2 2009 | Q3 2009 | Q4 2009 | Q1 2010 | Q2 2010 | Q3 2010 | Q4 2010 | Q1 2011 | Q2 2011 | Q3 2011 | Q4 2011 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| GC Positivity - Females | 0.88%   | 0.94%   | 0.74%   | 0.67%   | 0.94%   | 1.04%   | 1.09%   | 1.07%   | 1.49%   | 1.50%   | 1.76%   |
| GC Positivity- Males    | 3.23%   | 3.61%   | 2.92%   | 3.11%   | 4.13%   | 5.26%   | 4.29%   | 5.16%   | 5.82%   | 6.43%   | 7.76%   |
| CT Positivity - Females | 9.0%    | 9.0%    | 8.9%    | 10.0%   | 10.1%   | 10.9%   | 12.3%   | 11.5%   | 10.9%   | 10.6%   | 12.5%   |
| CT Positivity - Males   | 15.4%   | 16.6%   | 16.6%   | 15.3%   | 14.9%   | 16.7%   | 18.5%   | 17.6%   | 16.6%   | 19.4%   | 21.2%   |

# Chlamydia Positivity by Clinic Type

## Females, all NM DOH Test Sites, 2009-2011

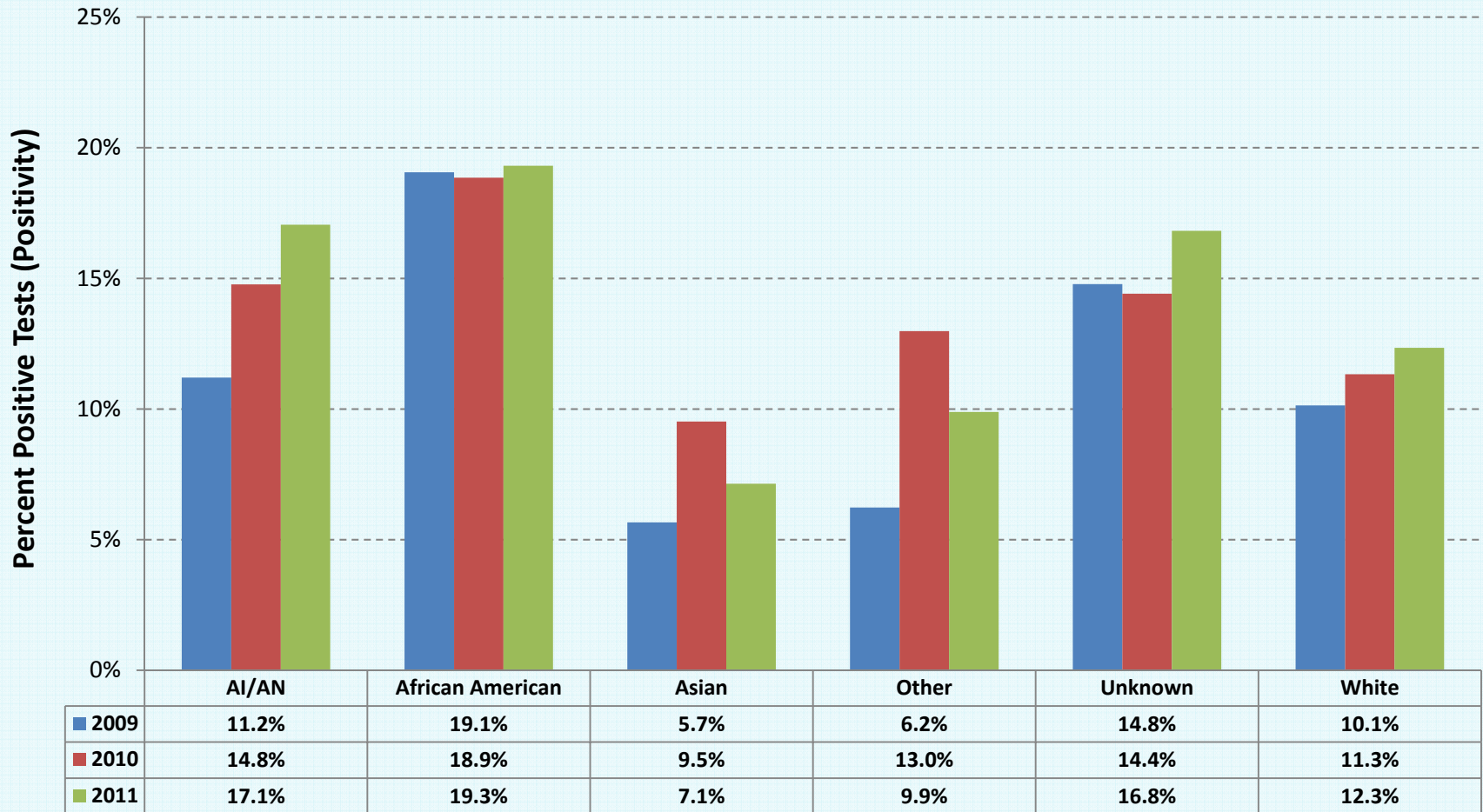


# Chlamydia and Gonorrhea Positivity, Females $\leq 25$ years Tested in NMDOH Family Planning Sites, 2009 - 2011



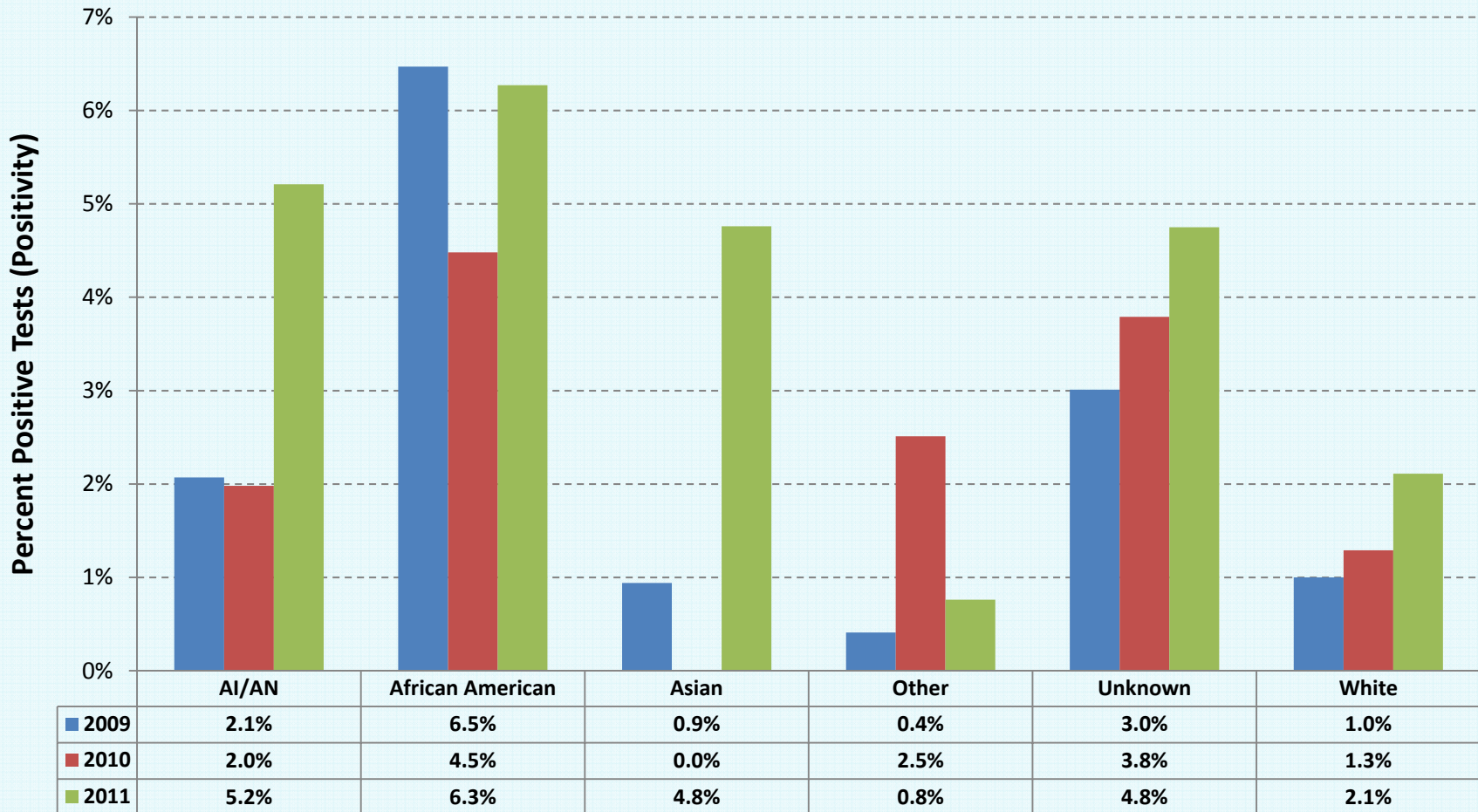
**Upward trends in test positivity from 2009 - 2011**

# Chlamydia Positivity by Race/ Ethnicity, all NMDOH Test Sites, 2009-2011





# Gonorrhea Positivity by Race/ Ethnicity all NMDOH Test Sites, 2009-2011



| <b>Chlamydia by County 2011</b> | <b>Cases</b> | <b>Rates</b> |
|---------------------------------|--------------|--------------|
| McKinley County                 | 831          | 1157.4       |
| Luna County                     | 199          | 791.8        |
| Rio Arriba County               | 287          | 711.5        |
| San Miguel County               | 209          | 711.2        |
| Lea County                      | 445          | 687.8        |
| San Juan County                 | 871          | 669.3        |
| Chaves County                   | 403          | 612.7        |
| Cibola County                   | 166          | 609.2        |
| Dona Ana County                 | 1246         | 591.8        |
| Bernalillo County               | 3873         | 582.7        |
| Hidalgo County                  | 28           | 576.8        |
| Curry County                    | 281          | 574.1        |
| Roosevelt County                | 113          | 563.6        |
| Socorro County                  | 96           | 537.8        |
| Mora County                     | 25           | 511.4        |
| Grant County                    | 147          | 500.0        |
| Otero County                    | 286          | 444.9        |
| Quay County                     | 38           | 418.6        |
| Taos County                     | 136          | 412.7        |
| Eddy County                     | 205          | 380.4        |
| Torrance County                 | 62           | 378.6        |
| Valencia County                 | 287          | 373.9        |
| Santa Fe County                 | 527          | 364.4        |
| Sandoval County                 | 465          | 351.4        |
| Sierra County                   | 42           | 349.2        |
| Guadalupe County                | 16           | 340.9        |
| Colfax County                   | 45           | 327.8        |
| DeBaca County                   | 6            | 296.7        |
| Harding County                  | 2            | 289.4        |
| Lincoln County                  | 45           | 219.5        |
| Union County                    | 7            | 154.2        |
| Los Alamos County               | 20           | 110.9        |
| Catron County                   | 3            | 80.4         |
| Out of State/ Unknown           | 2            |              |
| <b>TOTAL</b>                    | <b>11414</b> | <b>552.5</b> |

| <b>Gonorrhea by County 2011</b> | <b>Cases</b> | <b>Rates</b> |
|---------------------------------|--------------|--------------|
| Harding County                  | 2            | 289.4        |
| McKinley County                 | 117          | 163.0        |
| Bernalillo County               | 996          | 149.9        |
| Cibola County                   | 29           | 106.4        |
| Valencia County                 | 67           | 87.3         |
| Socorro County                  | 15           | 84.0         |
| San Miguel County               | 24           | 81.7         |
| Otero County                    | 49           | 76.2         |
| Dona Ana County                 | 153          | 72.7         |
| Lea County                      | 44           | 68.0         |
| San Juan County                 | 87           | 66.8         |
| Eddy County                     | 34           | 63.1         |
| Sandoval County                 | 82           | 62.0         |
| Roosevelt County                | 12           | 59.9         |
| DeBaca County                   | 1            | 49.5         |
| Torrance County                 | 8            | 48.9         |
| Curry County                    | 23           | 47.0         |
| Colfax County                   | 6            | 43.7         |
| Hidalgo County                  | 2            | 41.2         |
| Luna County                     | 10           | 39.8         |
| Rio Arriba County               | 16           | 39.7         |
| Santa Fe County                 | 41           | 28.4         |
| Sierra County                   | 3            | 24.9         |
| Chaves County                   | 16           | 24.3         |
| Guadalupe County                | 1            | 21.3         |
| Mora County                     | 1            | 20.5         |
| Lincoln County                  | 4            | 19.5         |
| Taos County                     | 6            | 18.2         |
| Los Alamos County               | 2            | 11.1         |
| Grant County                    | 3            | 10.2         |
| Catron County                   | 0            | 0.0          |
| Quay County                     | 0            | 0.0          |
| Union County                    | 0            | 0.0          |
| Out of State/ Unknown           | 1            |              |
| <b>TOTAL</b>                    | <b>1855</b>  | <b>89.8</b>  |

| Early Syphilis by County 2011 | Cases | Rates |
|-------------------------------|-------|-------|
| Hidalgo County                | 1     | 20.6  |
| San Miguel County             | 5     | 17.0  |
| Cibola County                 | 4     | 14.7  |
| Dona Ana County               | 21    | 10.0  |
| Santa Fe County               | 13    | 9.0   |
| Sierra County                 | 1     | 8.3   |
| Bernalillo County             | 53    | 8.0   |
| Luna County                   | 2     | 8.0   |
| San Juan County               | 10    | 7.7   |
| Colfax County                 | 1     | 7.3   |
| McKinley County               | 5     | 7.0   |
| Los Alamos County             | 1     | 5.5   |
| Valencia County               | 3     | 3.9   |
| Taos County                   | 1     | 3.0   |
| Curry County                  | 1     | 2.0   |
| Lea County                    | 1     | 1.5   |
| Sandoval County               | 1     | 0.8   |
| Catron County                 | 0     | 0.0   |
| Chaves County                 | 0     | 0.0   |
| DeBaca County                 | 0     | 0.0   |
| Eddy County                   | 0     | 0.0   |
| Grant County                  | 0     | 0.0   |
| Guadalupe County              | 0     | 0.0   |
| Harding County                | 0     | 0.0   |
| Lincoln County                | 0     | 0.0   |
| Mora County                   | 0     | 0.0   |
| Otero County                  | 0     | 0.0   |
| Quay County                   | 0     | 0.0   |
| Rio Arriba County             | 0     | 0.0   |
| Roosevelt County              | 0     | 0.0   |
| Socorro County                | 0     | 0.0   |
| Torrance County               | 0     | 0.0   |
| Union County                  | 0     | 0.0   |
| Out of State/ Unknown         |       |       |
| TOTAL                         | 124   | 6.0   |