

Texas Department of State Health Services

VPD Update, 2016

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www.ImmunizeTexas.com



Overview

- VPD 5 Year Summary
- 2015 Notable VPD Activity
- HPV-associated Cancer Data
- 2016 Notable VPD Activity
- Changes for 2017

VPDs in Texas, 2012-2016*

| | 2012 | 2013 | 2014 | 2015 | 2016* |
|----------------------------------|-------|-------|-------|-------|-------|
| Hepatitis A | 134 | 109 | 123 | 147 | 100 |
| Hepatitis B, acute | 170 | 142 | 122 | 159 | 100 |
| Hepatitis B, perinatal | 4 | 2 | 3 | 1 | 0 |
| <i>Haemophilus influenzae</i> ** | 3 | 5 | 12 | 11 | 222 |
| Measles | 0 | 27 | 10 | 1 | 1 |
| Meningococcal | 37 | 30 | 22 | 30 | 19 |
| Mumps | 15 | 13 | 15 | 20 | 34 |
| Pertussis | 2,218 | 3,985 | 2,576 | 1,504 | 882 |
| Pneumococcal | 1,535 | 1,715 | 1,562 | 1,693 | 1,184 |
| Tetanus | 3 | 2 | 4 | 2 | 2 |
| Varicella | 2,410 | 1,874 | 1,647 | 1,491 | 970 |

*Provisional data as of 10/4/2016

**Prior to 2016, only *Haemophilus influenzae* type B was reportable

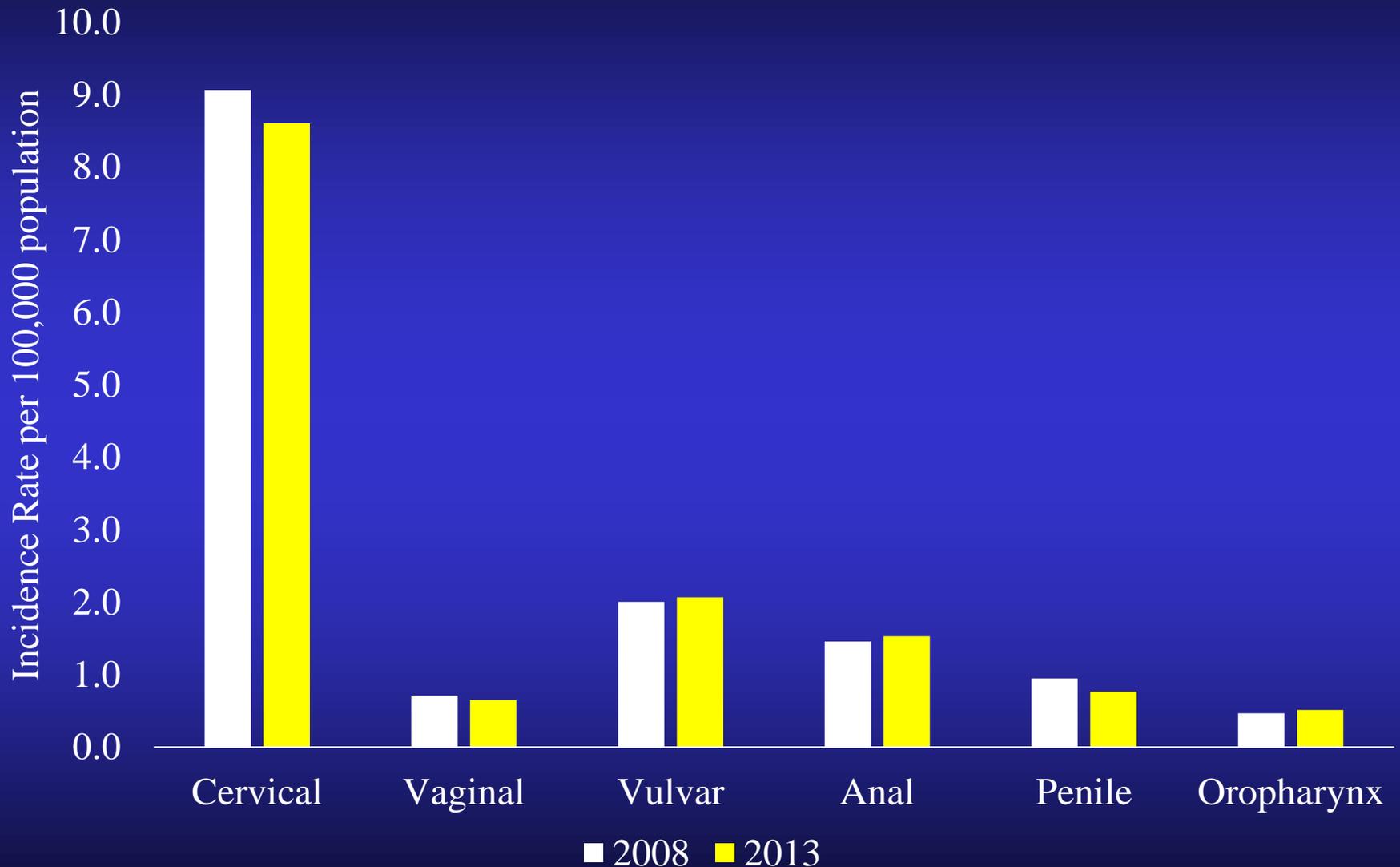
Rubella, 2015

- Last seen in Texas in 2004...
- Imported twice to Texas in 2015!
- No spread
- Proves once again these diseases are only a plane ride away

HPV-associated Cancers in 2013

| Type of Cancer | New Diagnoses | Deaths |
|-----------------------|----------------------|---------------|
| Cervical (female) | 1,150 | 364 |
| Vaginal (female) | 87 | 29 |
| Vulvar (female) | 276 | 50 |
| Anal (both) | 412 | 66 |
| Penile (male) | 104 | 31 |
| Oropharynx (both) | 138 | 74 |

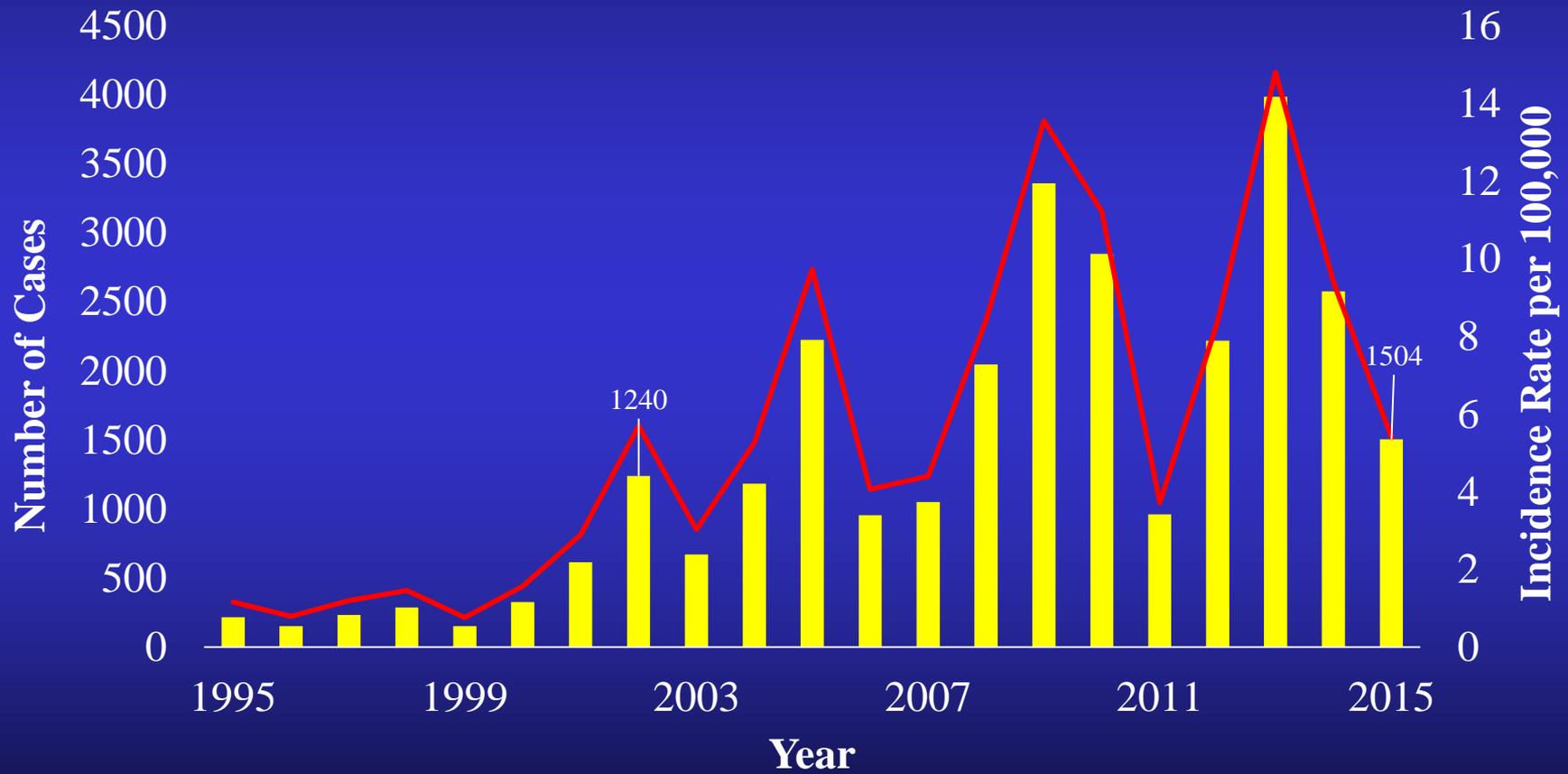
HPV-associated Cancers 2008 vs. 2013



Pertussis, as of 10/4/16

- 882 cases
 - Appears to be “valley” in 3-5 year cycle
- 20% of cases are in children under one year of age
- 10% hospitalization rate for all ages
 - 40% hospitalization rate for children under one year of age
- No deaths

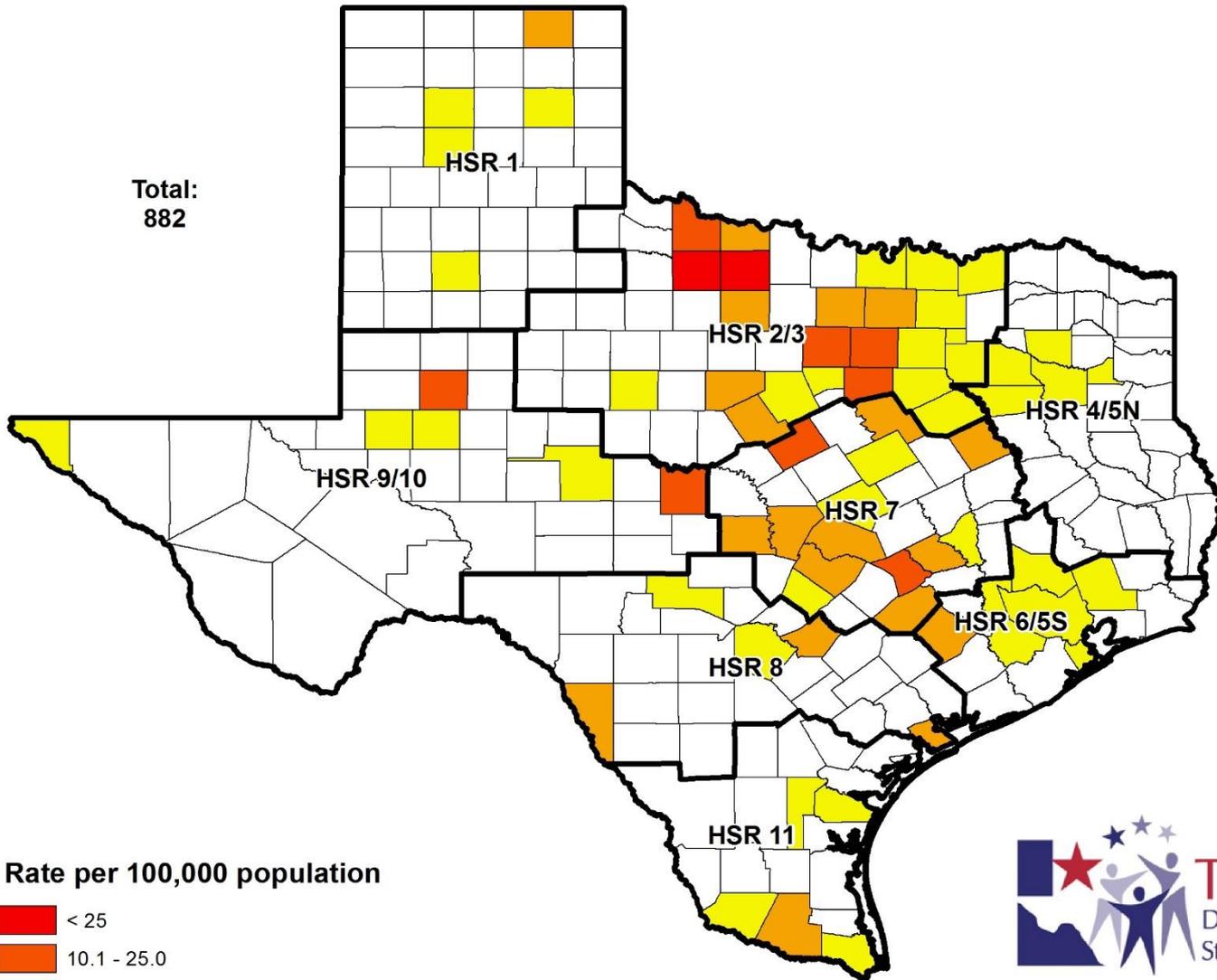
Pertussis Cases and Rates in Texas, 1995-2015



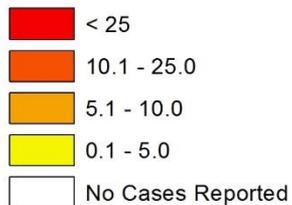
Incidence Rates of Pertussis Cases in Texas, 2016 *

* As of 10/04/2016

Total:
882



Incidence Rate per 100,000 population



Source: Texas Department of State Health Services, Infectious Disease Control Unit.

Prepared: October, 2016



Mumps, as of 10/4/16

- 34 cases
- Cluster of cases at UT in Spring
 - 15 cases (4 confirmed with PCR testing at DSHS)
 - Collaborative response effort by university and Austin-Travis County Health Department
- Multiple outbreaks across the country

Mumps in U.S., as of 10/8/2016

- Multiple outbreaks across the country
 - 2,345 mumps cases reported to CDC from 45 states
 - Five states have reported more than 100 cases
- In 2015-2016 several outbreaks at universities

Haemophilus influenzae, as of 10/4/16

- Prior to 2016, only *H. influenzae* type B was reportable
 - Changed to match national surveillance standards
 - Will ensure better capture of HIB cases
 - Will improve understanding of epi of HIB/*H. flu*
- *H. flu* isolates from children under 5 years old mandated to be sent to DSHS lab for serotyping
- 222 *H. influenzae* cases to date
- 31 deaths

Haemophilus influenzae, as of 10/4/16

| Age (Years) | Serotype | | | | | | | Total |
|--------------------|-----------|----------|----------|----------|-----------|--------------|-----------|------------|
| | A | B | D | E | F | Not typeable | Unknown | |
| 0 | 3 | 0 | 0 | 1 | 1 | 8 (1) | 4 (1) | 17 |
| 1-19 | 4 | 2 | 0 | 0 | 0 | 7 | 11 | 24 |
| 20-49 | 1 | 3 | 0 | 0 | 0 | 10 (1) | 15 | 29 |
| 50-69 | 0 | 0 | 0 | 3 | 7 | 24 (1) | 31 (6) | 65 |
| 70+ | 2 (1) | 3 | 2 (1) | 3 (1) | 8 (2) | 39 (9) | 30 (7) | 87 |
| Total Cases | 10 | 8 | 2 | 7 | 16 | 88 | 91 | 222 |
| Deaths | 1 | 0 | 1 | 1 | 2 | 12 | 14 | 31 |

No cases of serotype C have been reported in 2016.

Deaths shown in ()

Meningococcal Disease, as of 10/4/16

| Age (Years) | Serogroup | | | | | Total |
|------------------------|-----------|----------|----------|----------|----------|-----------|
| | B | C | Y | W-135 | Unk | |
| 0 | 2 (1) | 0 | 0 | 0 | 0 | 2 |
| 1-6 | 0 | 1 | 1 | 0 | 0 | 2 |
| 7-18 | 1 | 0 | 0 | 0 | 0 | 1 |
| 19-24 | 0 | 0 | 0 | 0 | 1 | 1 |
| 25-29 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30-49 | 0 | 3 (1) | 0 | 1 | 2 (1) | 6 |
| 50+ | 0 | 3 | 3 | 1 | 0 | 7 |
| Total Cases | 3 | 7 | 4 | 2 | 3 | 19 |
| Deaths | 1 | 1 | 0 | 0 | 1 | 3 |

No cases of serogroup A have been reported in 2016.

Deaths shown in ()

Acute Flaccid Myelitis, as of 10/4/16

- AFM can have many causes including viral infections such as West Nile virus, adenoviruses, enteroviruses (polio and non-polio)
- 11 cases in Texas
 - Ages 6 months – 14 years
- No single cause associated with all cases
- As of August, 2016, 50 confirmed cases reported in 24 states

2017 Administrative Code Changes

- *Streptococcus pneumoniae* isolates from normally sterile sites from children under 5 years old mandated to be sent to DSHS lab for serotyping
- Mumps reporting timeframe changing from 1 week to 1 day
 - With potential for outbreaks, quicker identification of suspect cases can allow for proper testing to be done and control measures to be implemented

Thank you!

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