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Infectious Diseases State of the State: Texas

Linda Gaul, PhD, MPH
State Epidemiologist, DSHS

Hepatitis C, STDs, Tuberculosis, HIV



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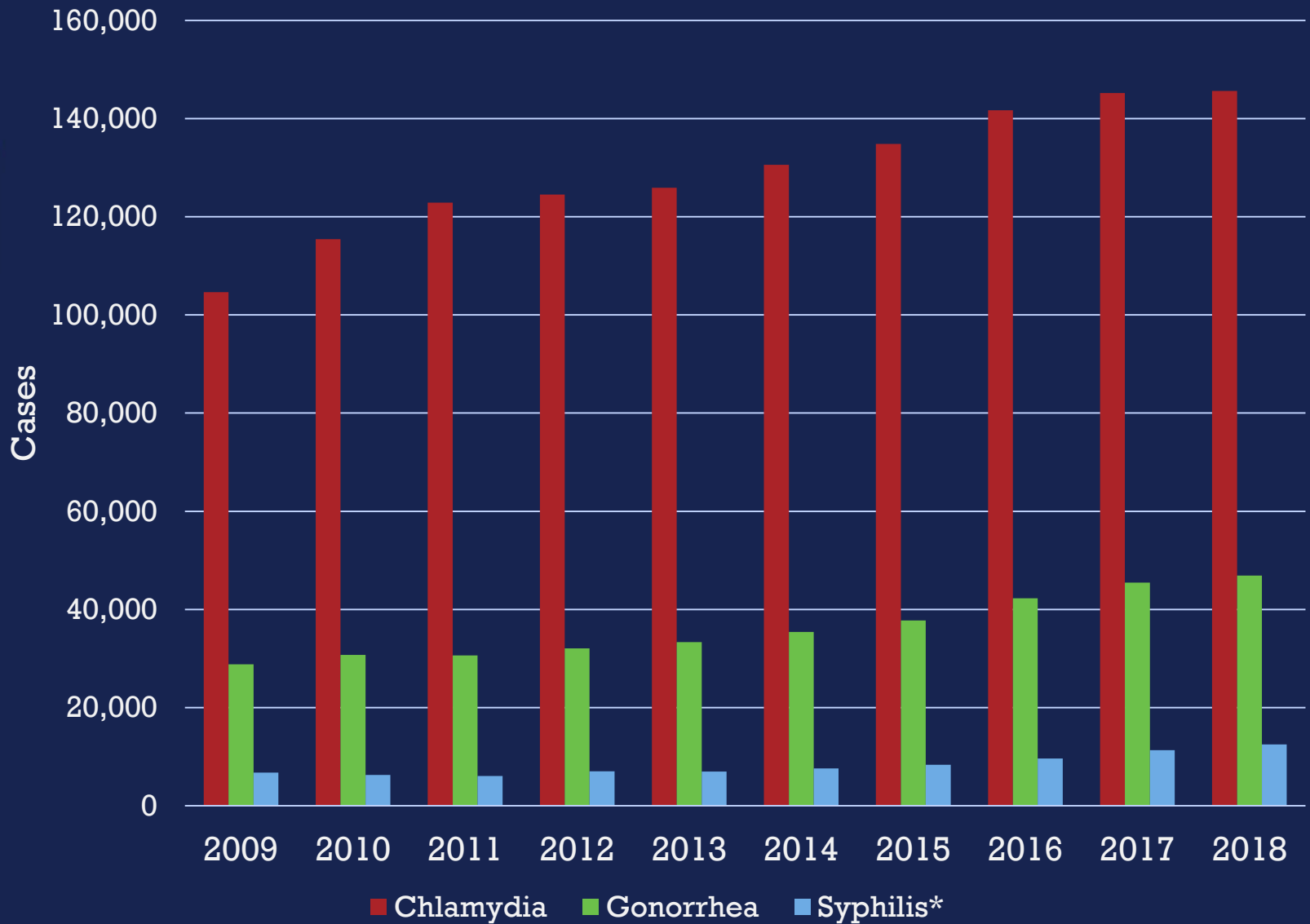
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STD Incident Cases, 2009-2018



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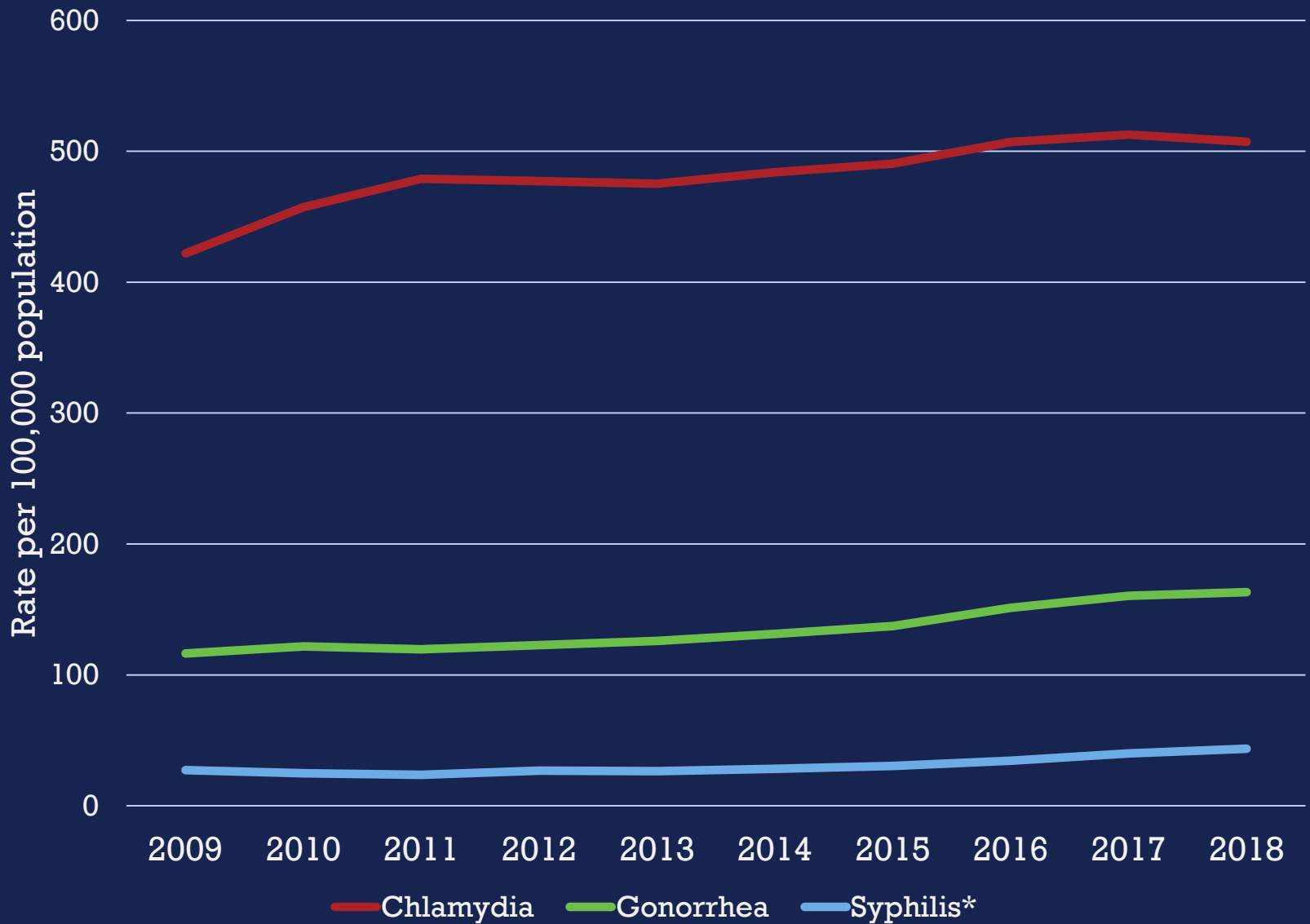
*Includes primary, secondary, early latent, late, and unknown syphilis diagnoses

STD Incidence Rates, 2009-2018



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*Includes primary, secondary, early latent, late, and unknown syphilis diagnoses

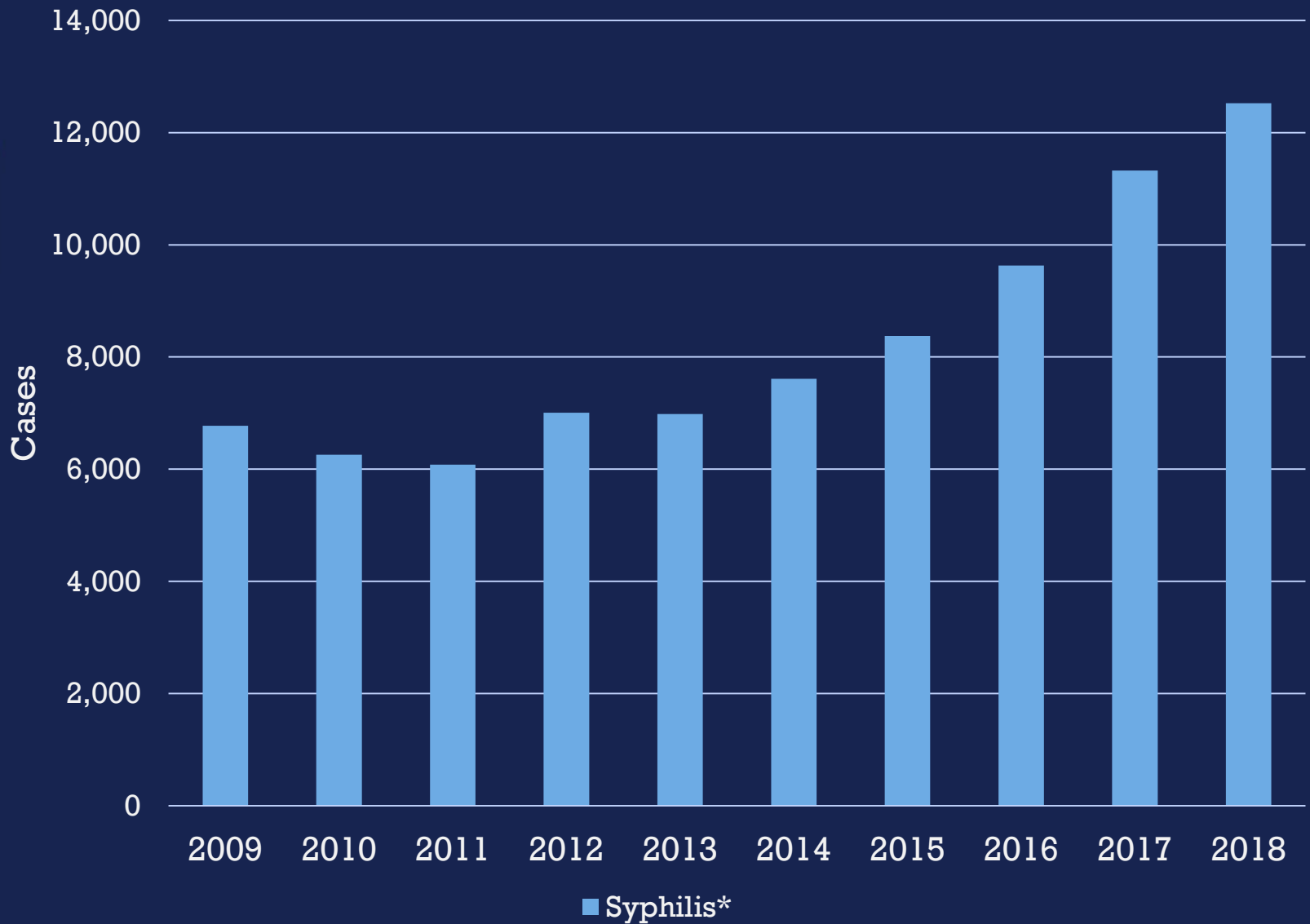
Syphilis Incident Cases, 2009-2018



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*Includes primary, secondary, early latent, late, and unknown syphilis diagnoses

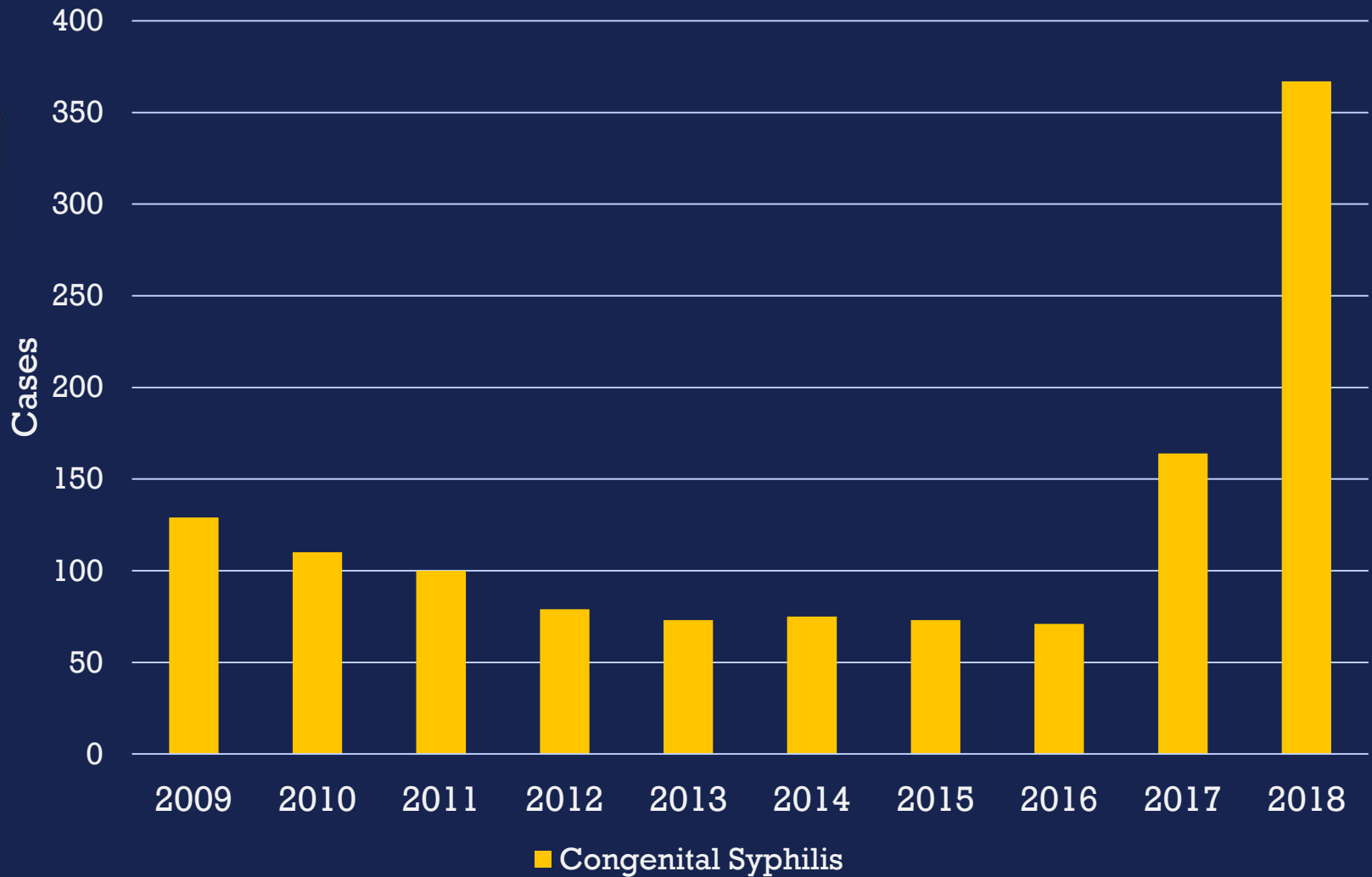
Congenital Syphilis Incident Cases, 2009-2018



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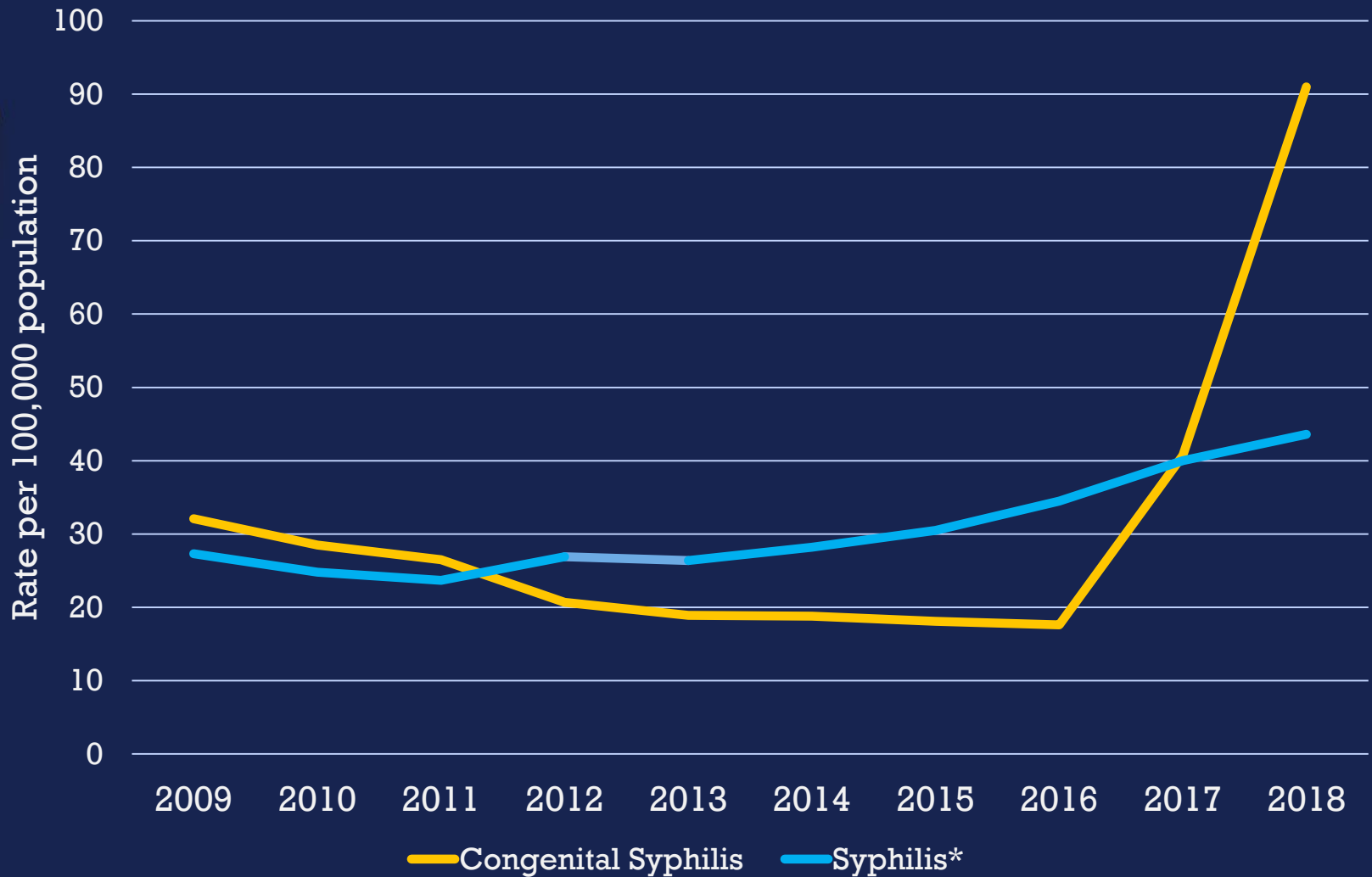
Syphilis Rates, 2009-2018



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*Includes primary, secondary, early latent, late, and unknown syphilis diagnoses

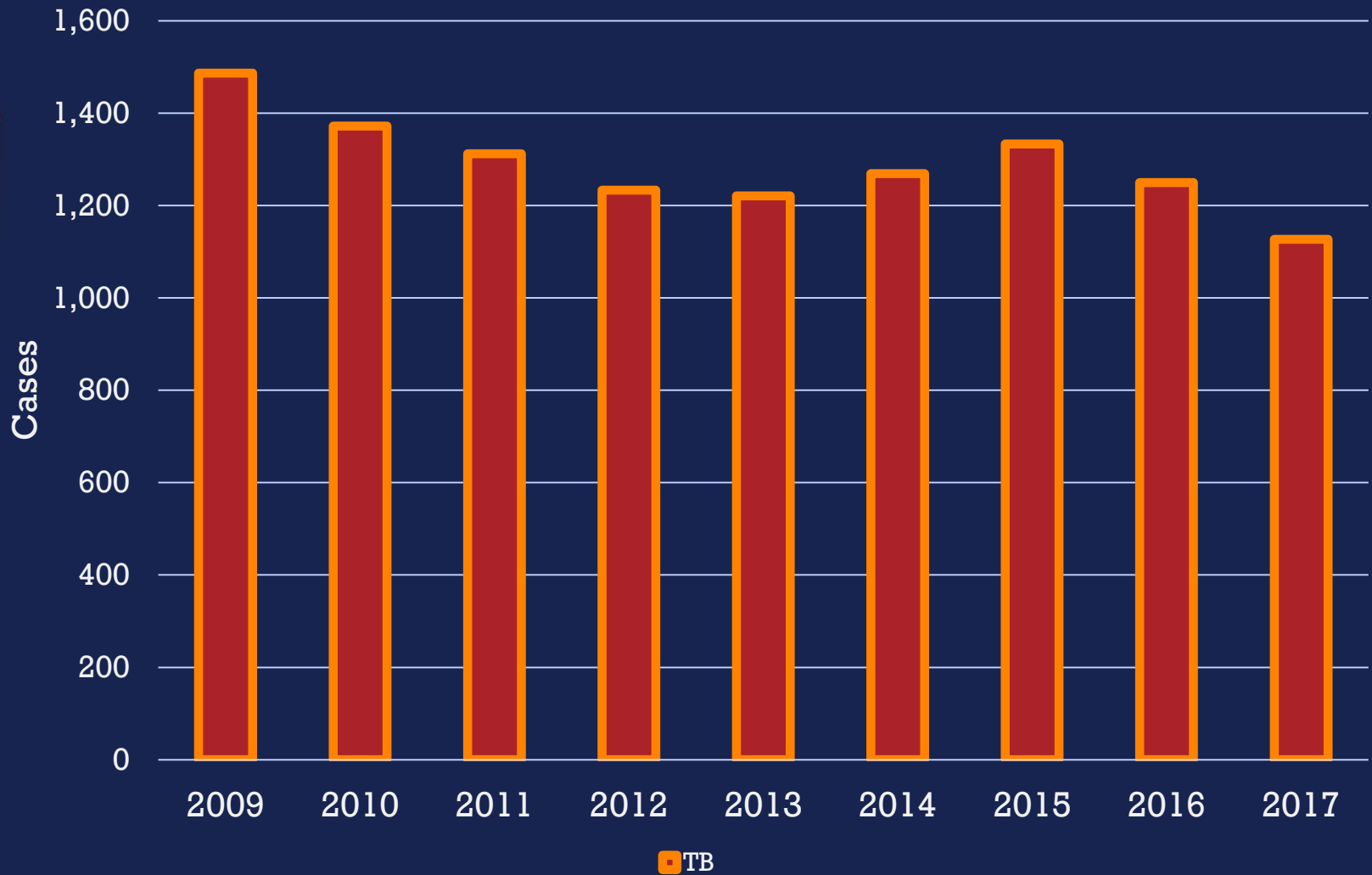
TB Incident Cases, 2009-2017



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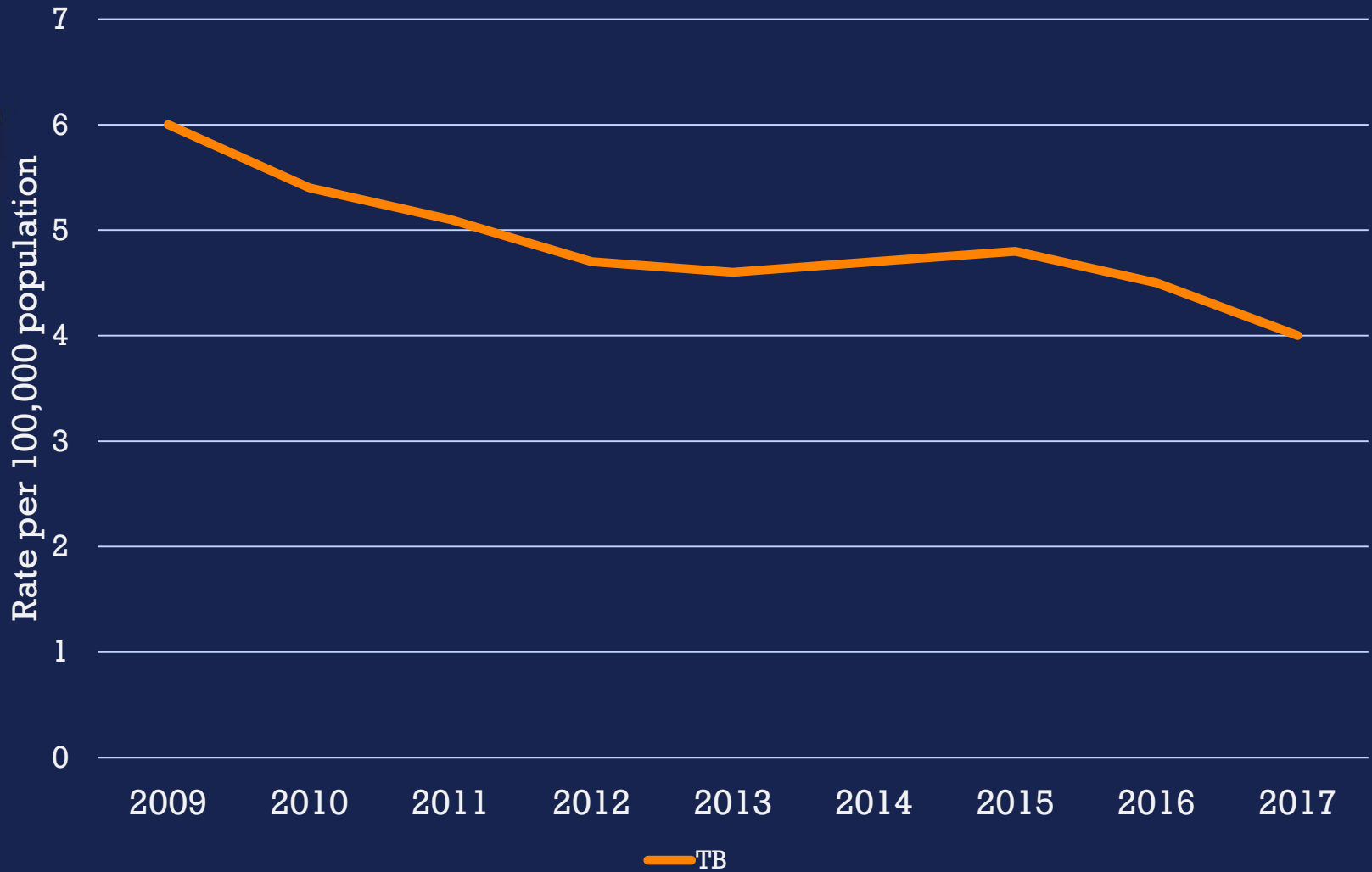


TB Incidence Rates, 2009-2017



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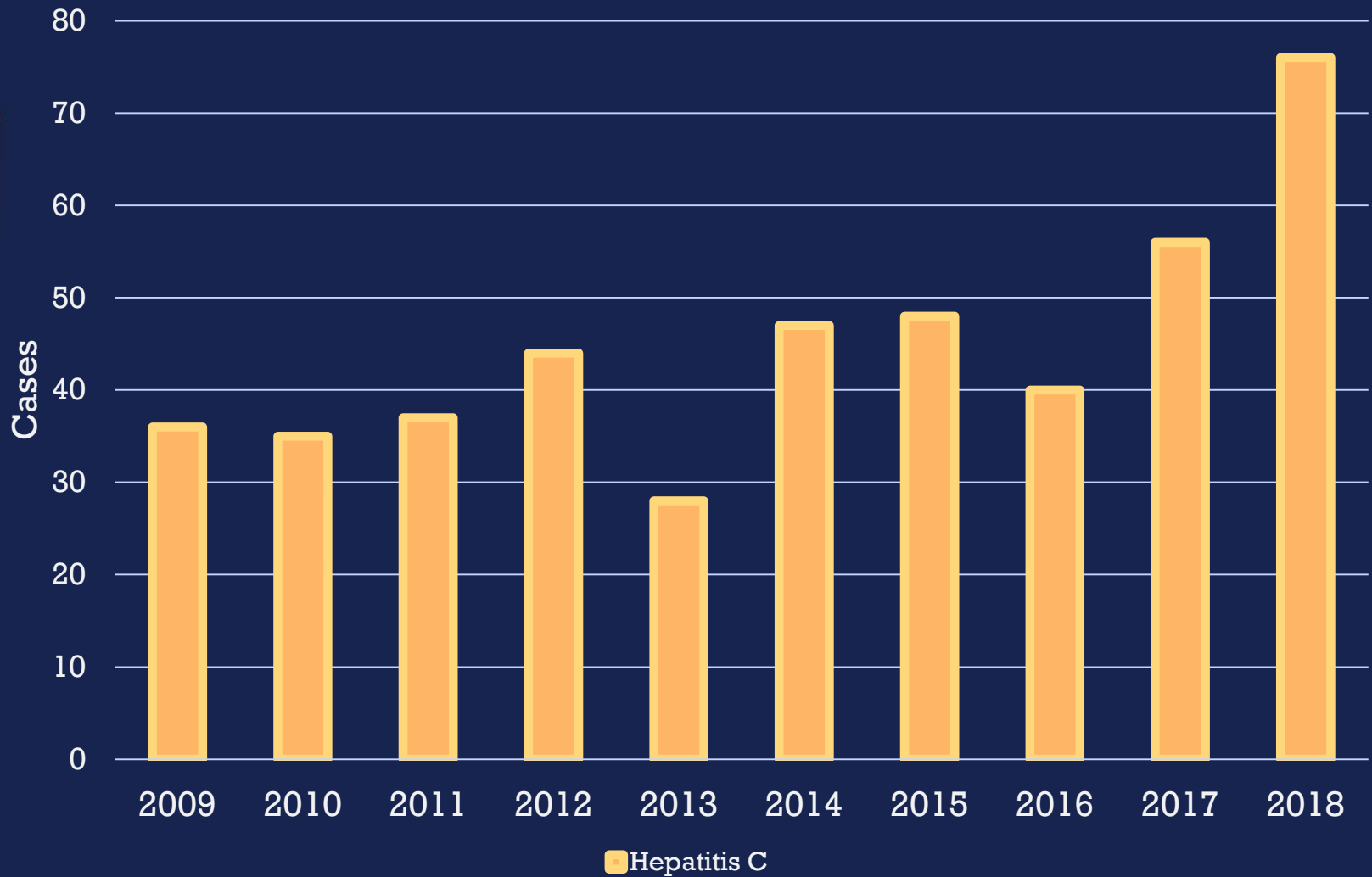
Hepatitis C, Acute, Incident Cases, 2009-2018



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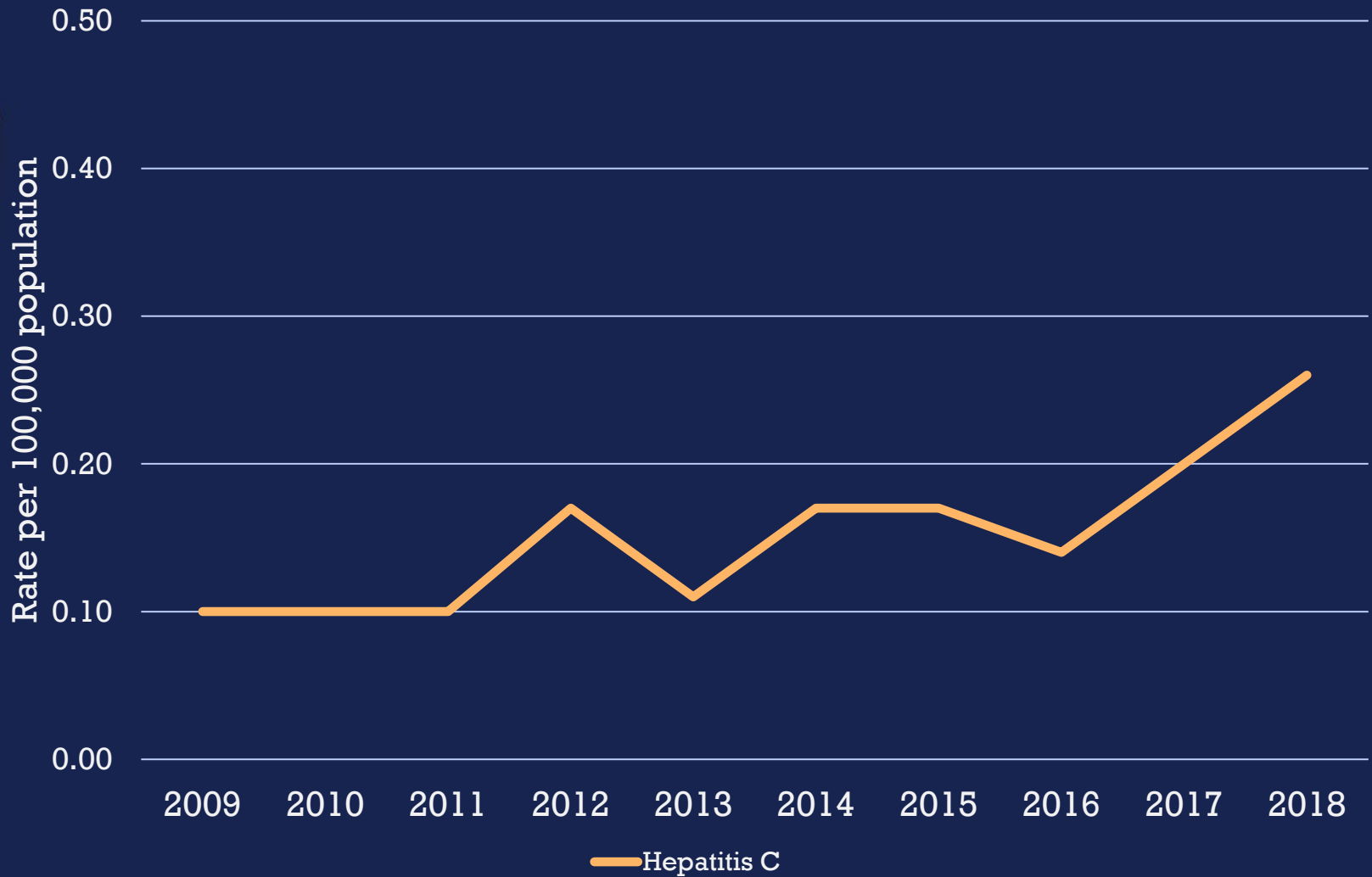
Hepatitis C Incidence Rates, 2009-2018



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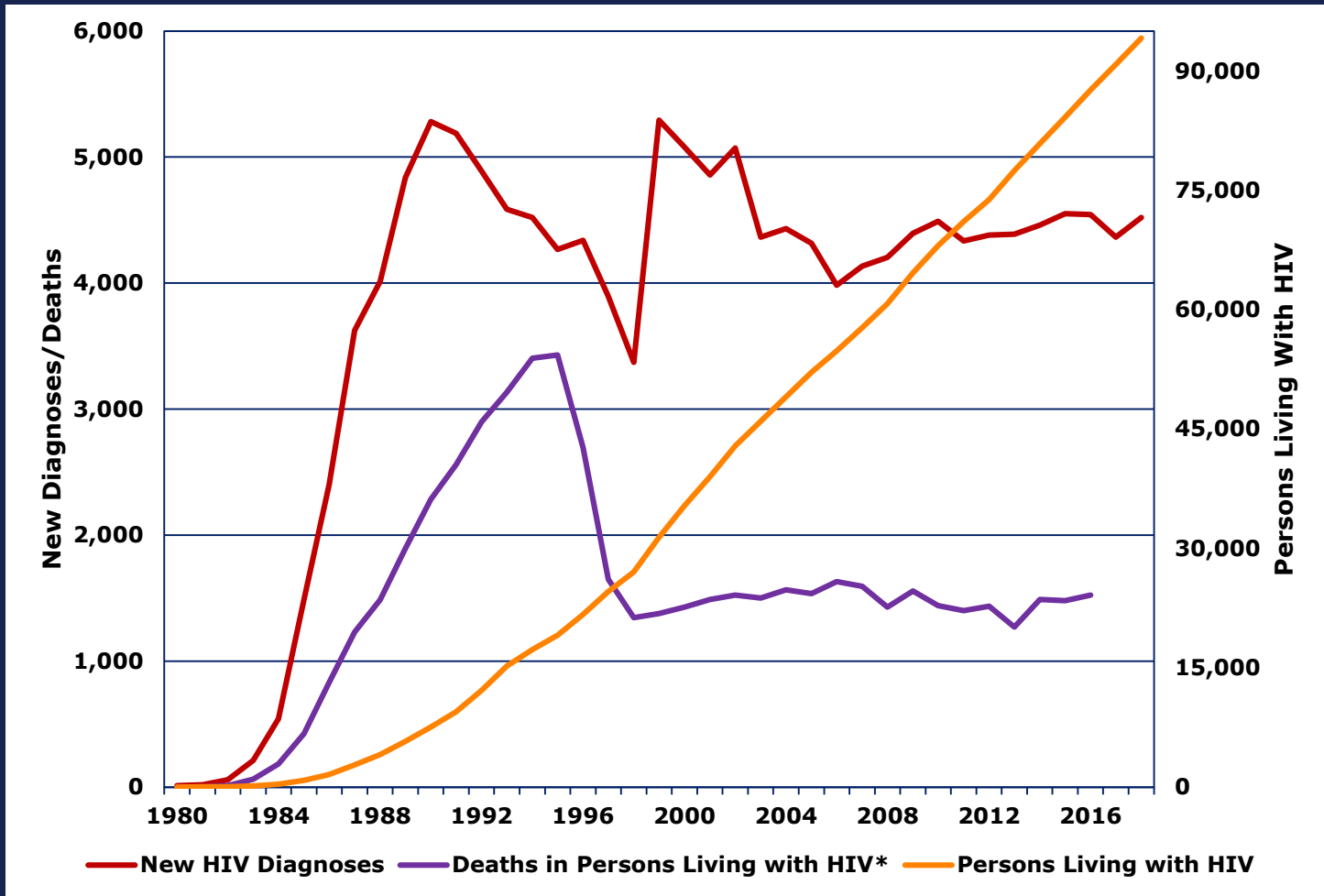
New HIV Diagnoses, Persons Living with HIV, and Deaths in Texas (1980-2018)



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Zoonotic, Vectorborne Diseases



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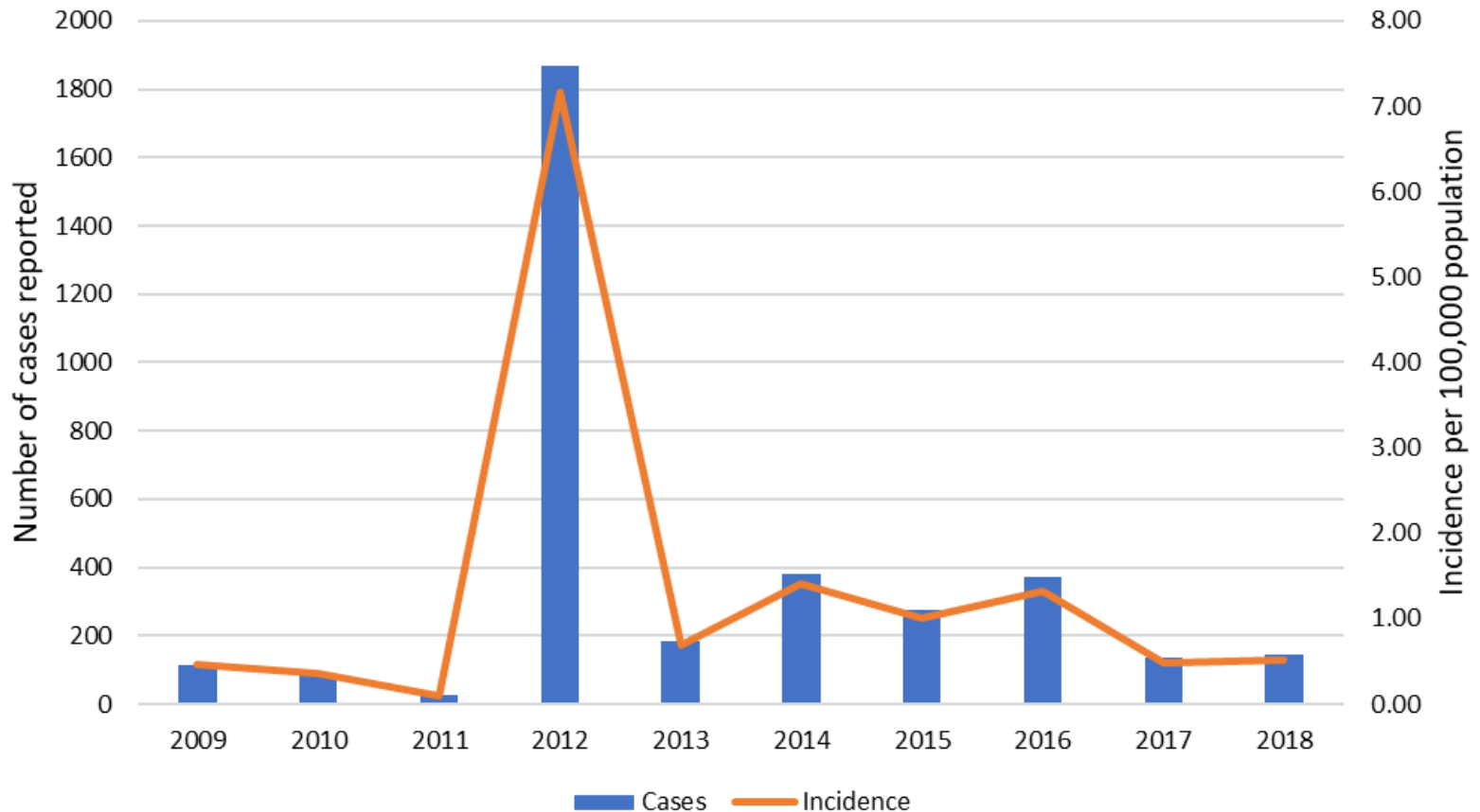
West Nile Virus Disease, Texas, 2009-2018



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West Nile Virus Disease in Texas, 2009-2018



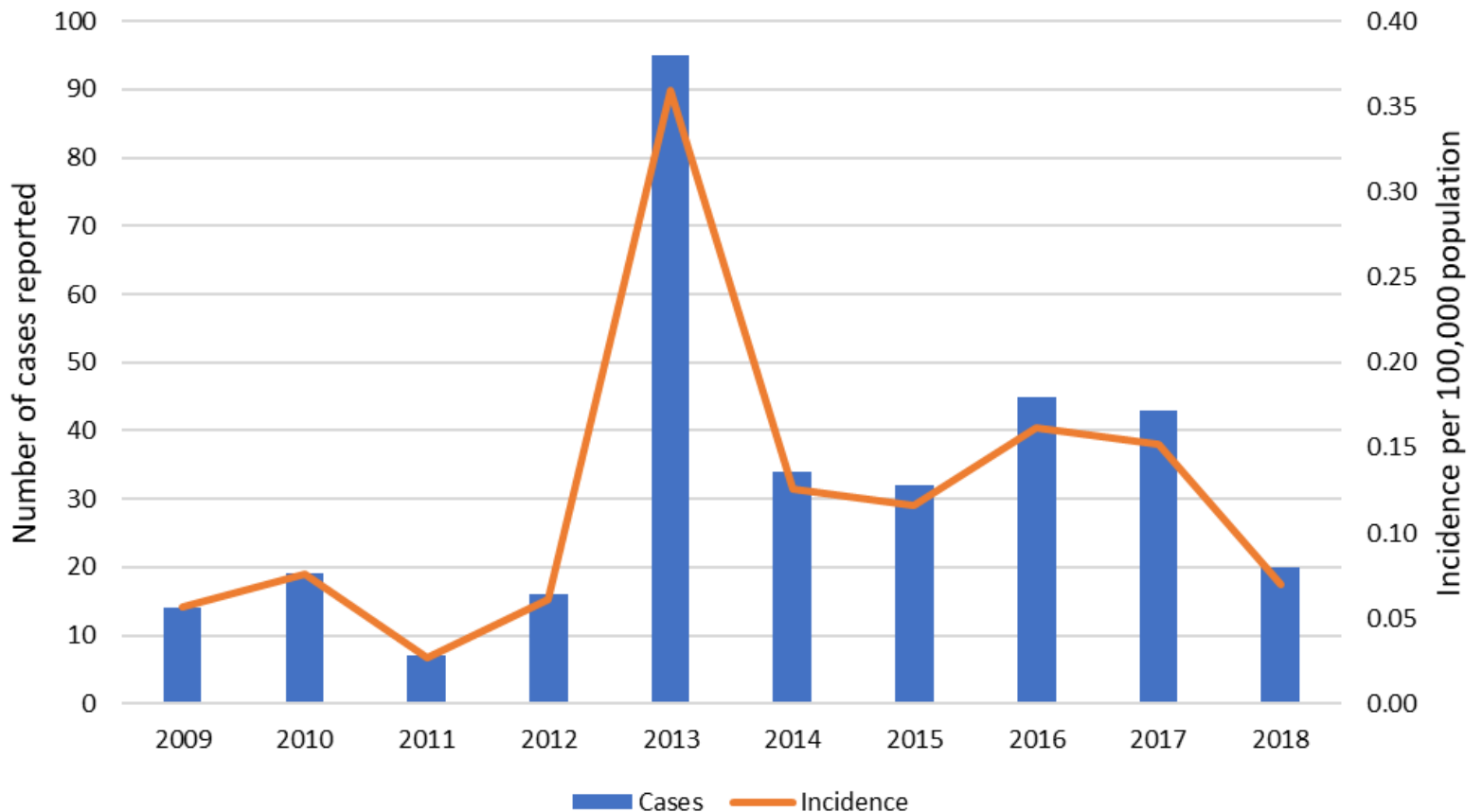
Dengue, Texas, 2009-2018



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Dengue in Texas, 2009-2018

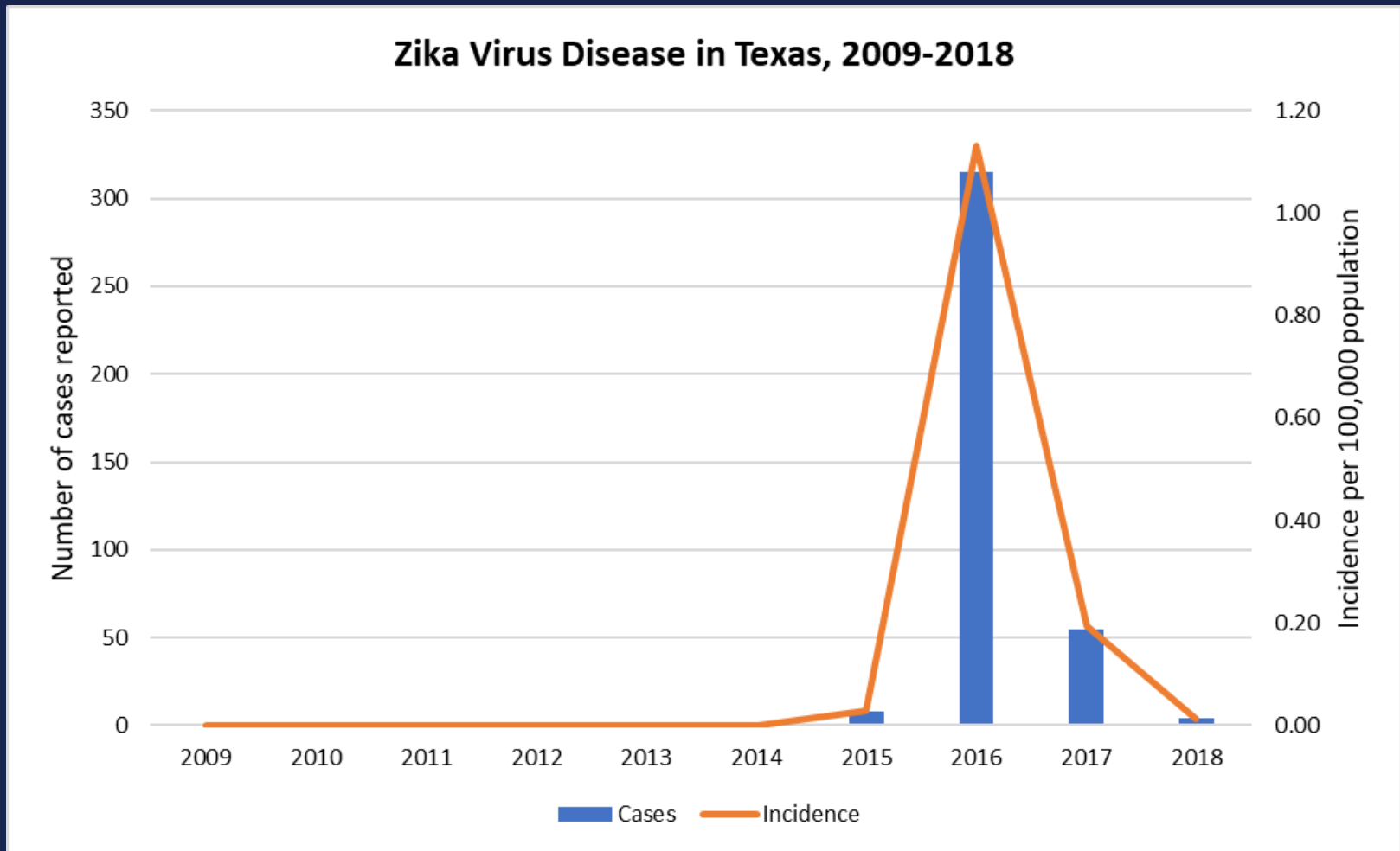


Zika Virus Disease, Texas, 2009-2018



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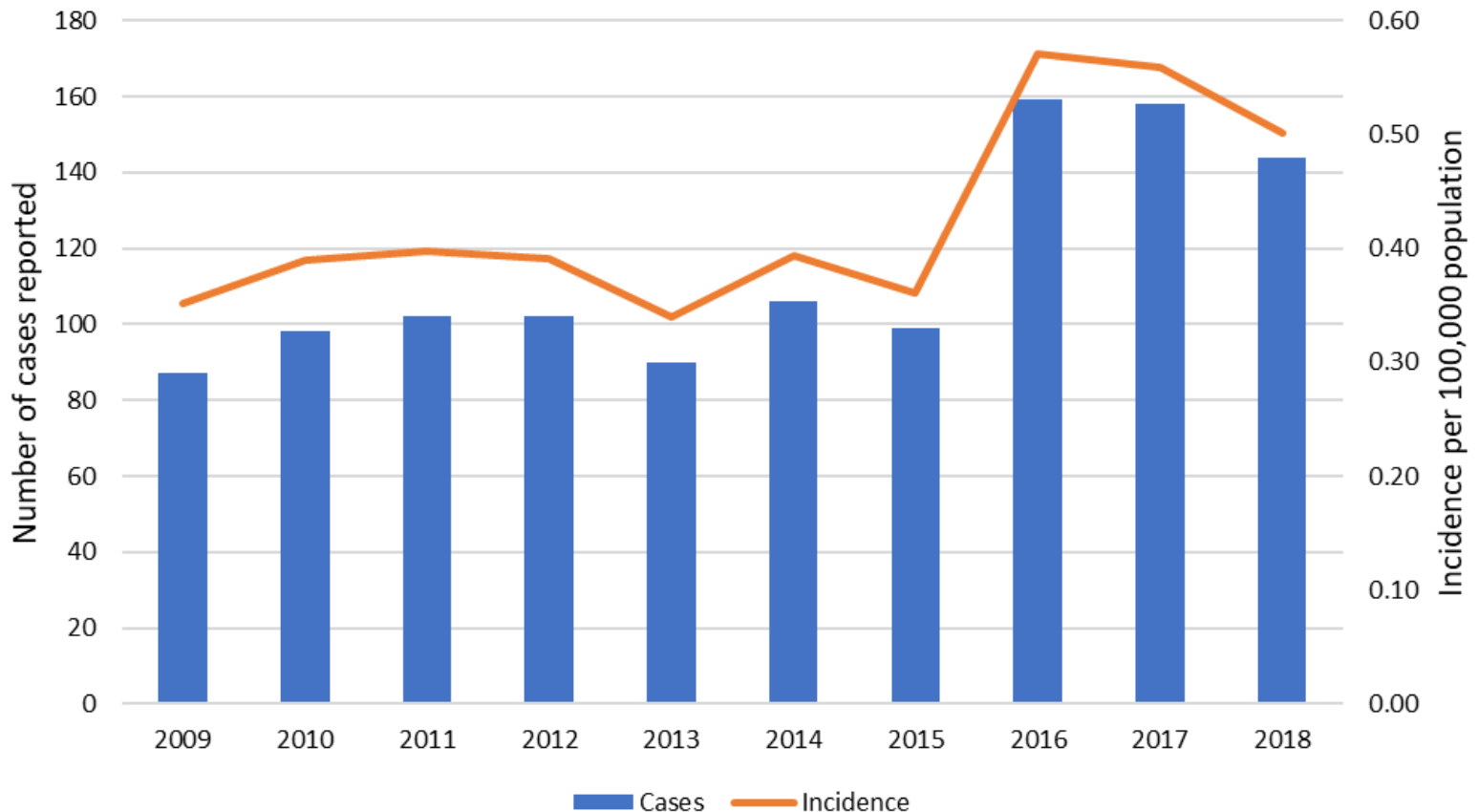
Malaria, Texas, 2009-2018



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Malaria in Texas, 2009-2018



Vaccine Preventable Diseases



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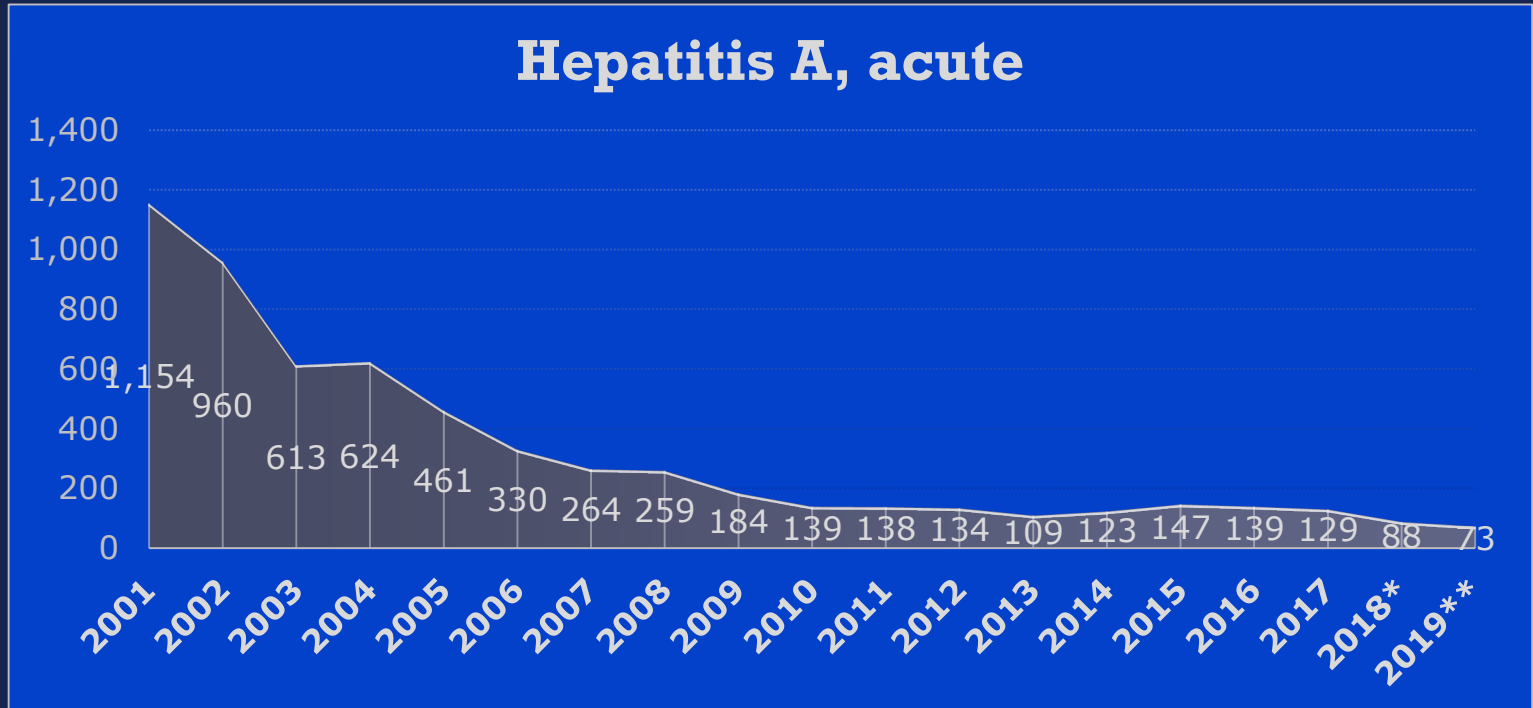


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Hepatitis A, Acute, Texas, 2001-2019**



*2018 Data not finalized as of 9/05/19

**2019 Data Provisional as of 9/05/19

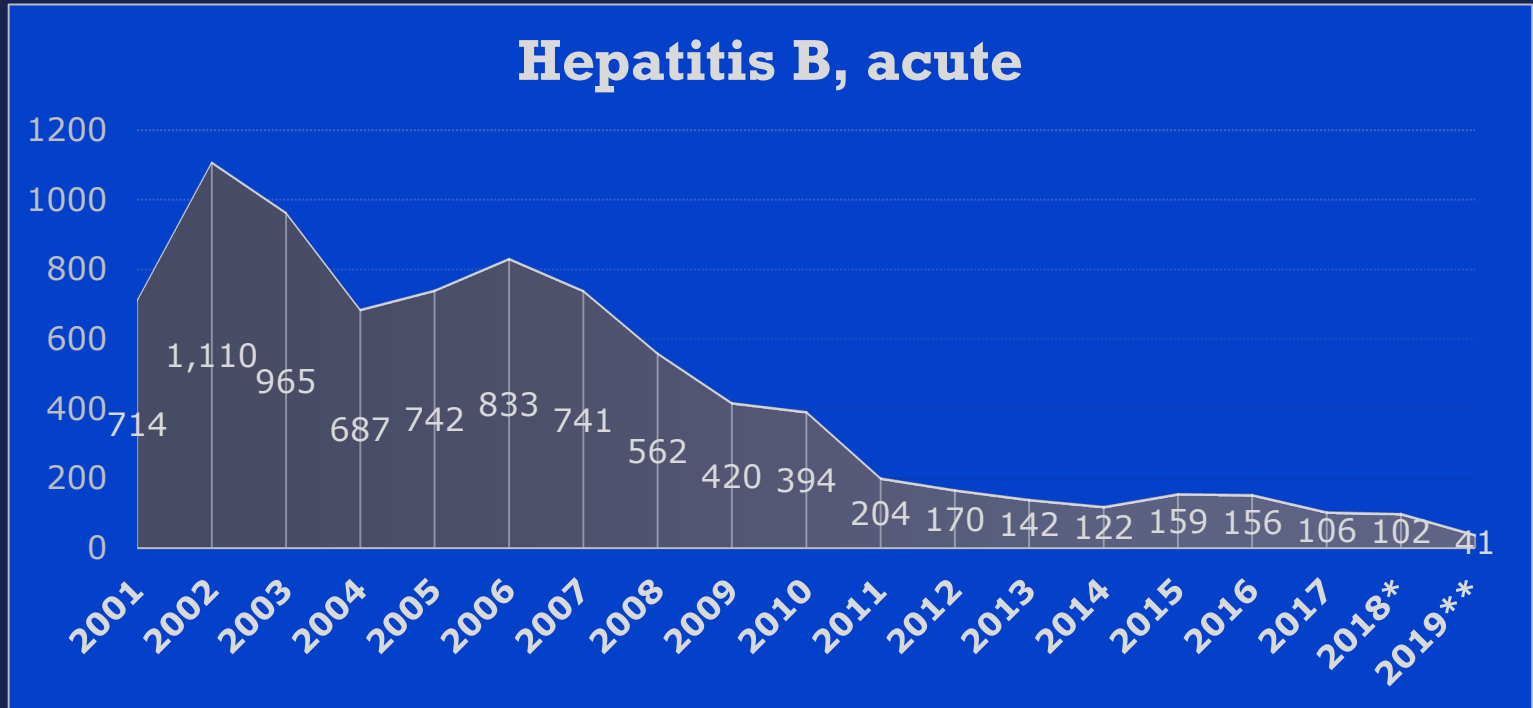


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Hepatitis B, Acute, Texas, 2001-2019**



*2018 Data not finalized as of 9/05/19

**2019 Data Provisional as of 9/05/19

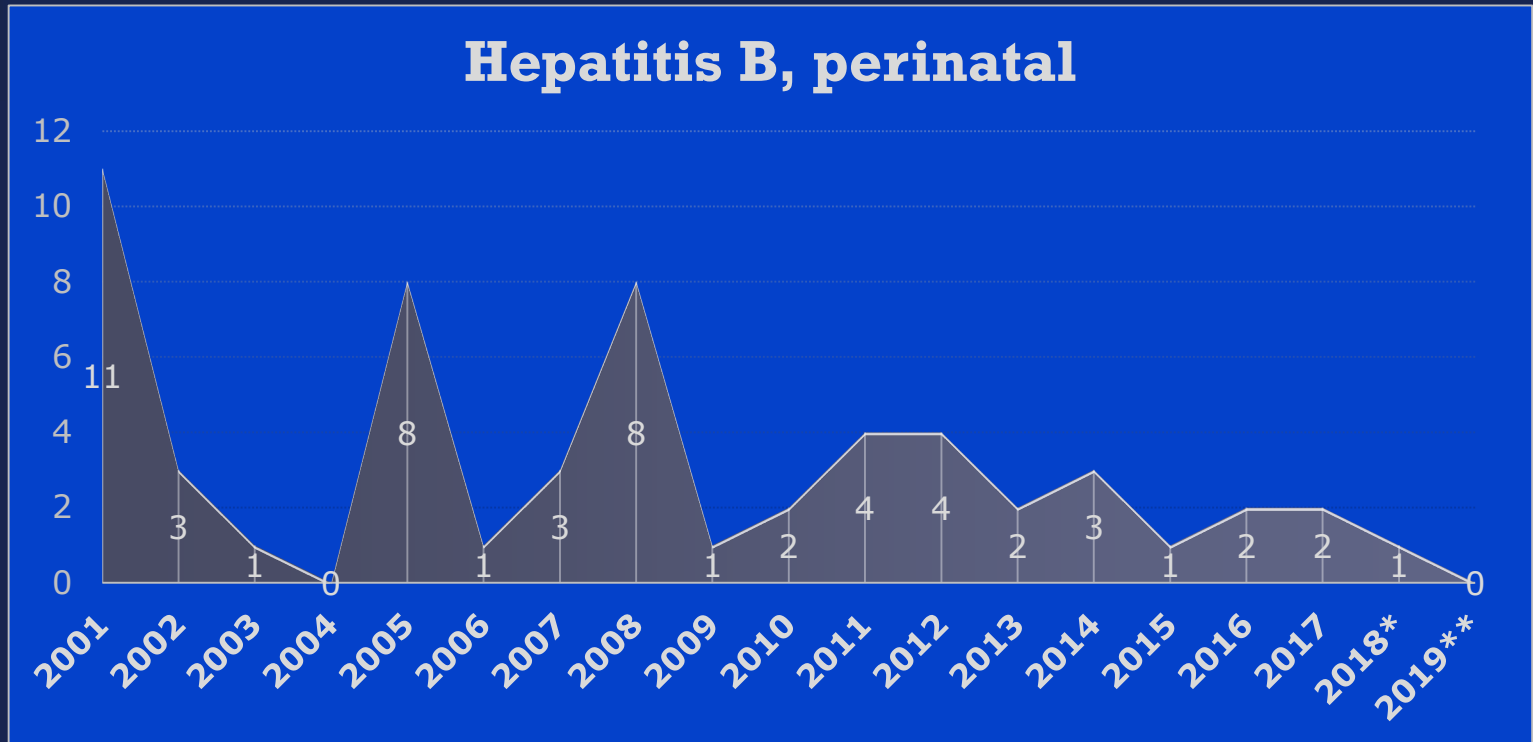
Hepatitis B, perinatal, Texas, 2001-2019**



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*2018 Data not finalized as of 9/05/19

**2019 Data Provisional as of 9/05/19

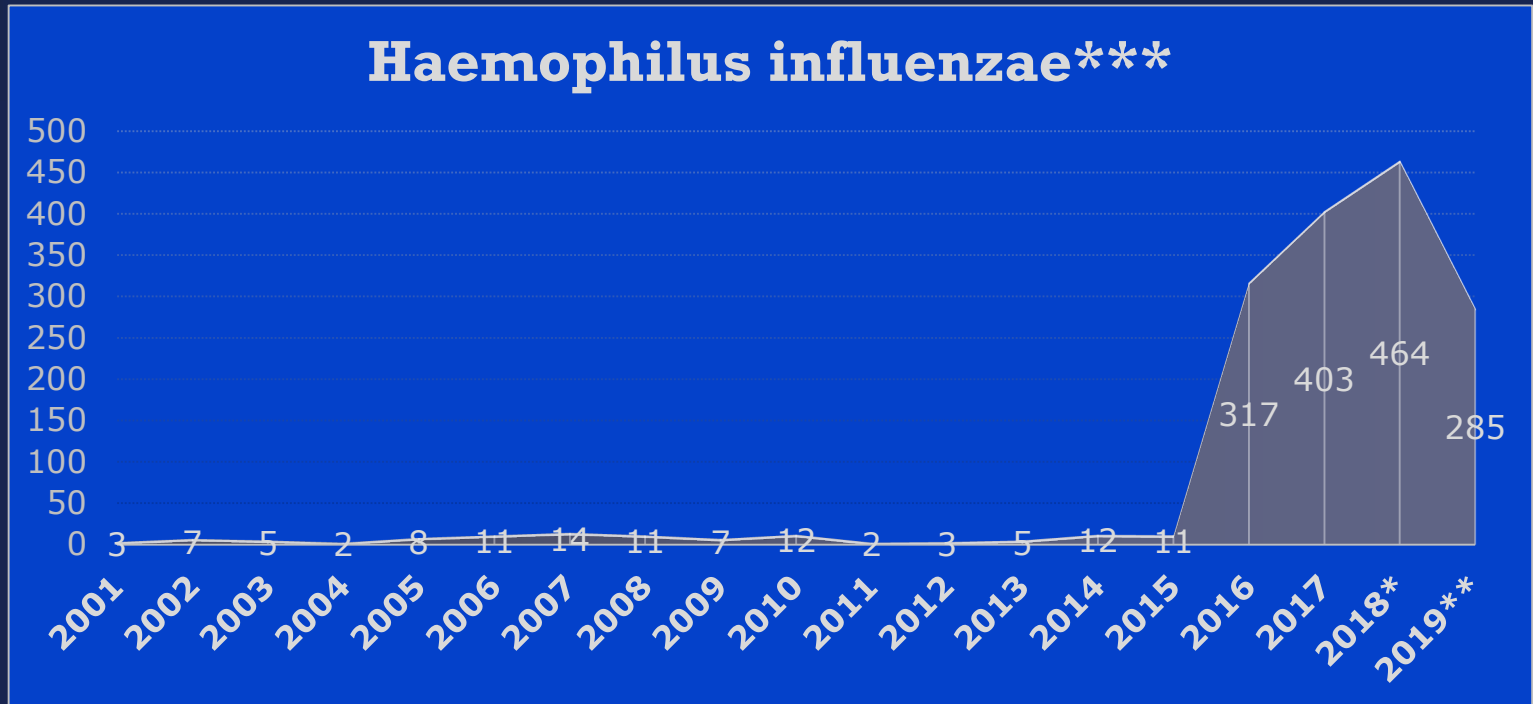
Haemophilus influenzae***, Texas, 2001-2019**



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

Meningococcal Disease, invasive, Texas, 2001-2019**



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Meningococcal Disease, invasive



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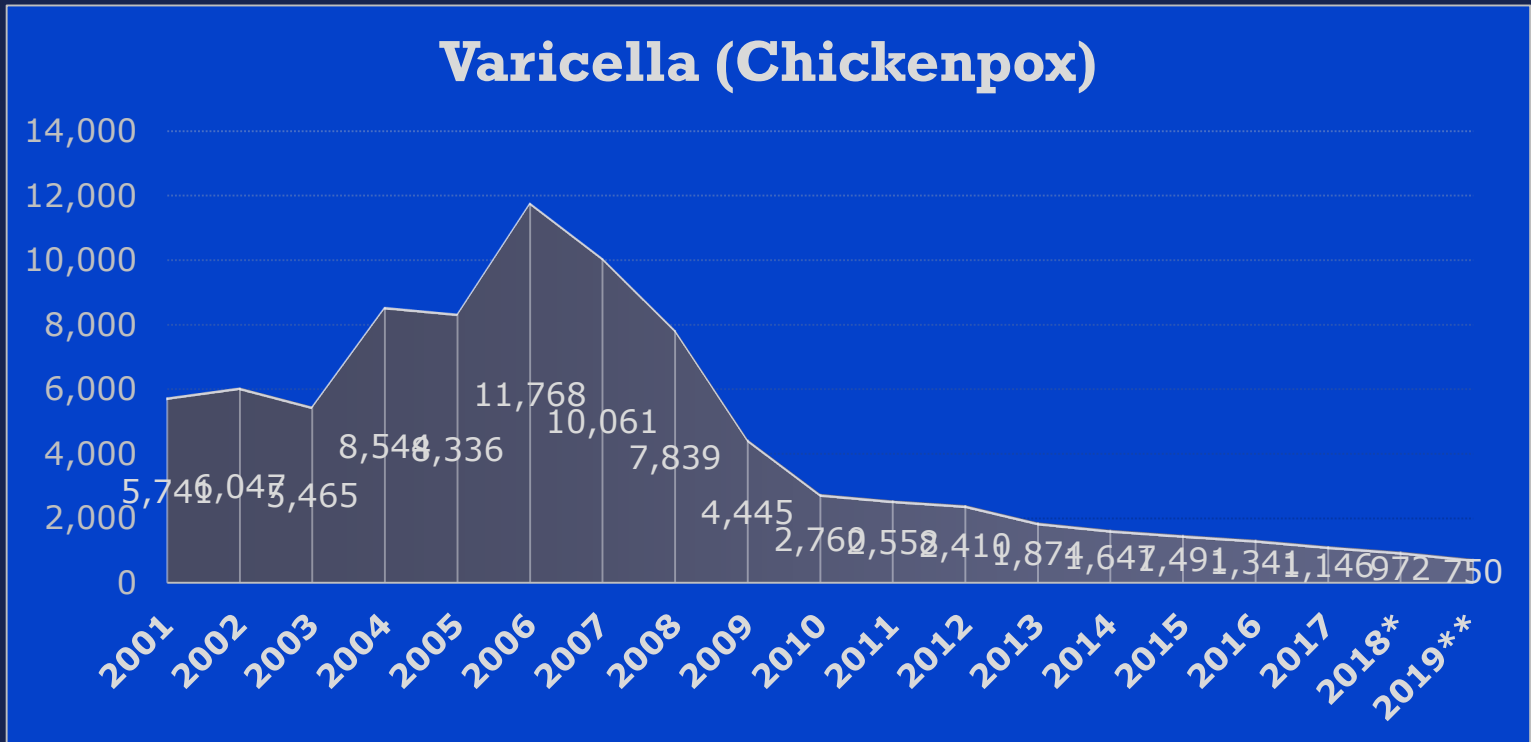
Varicella (Chickenpox), Texas, 2001-2019**



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*2018 Data not finalized as of 9/05/19

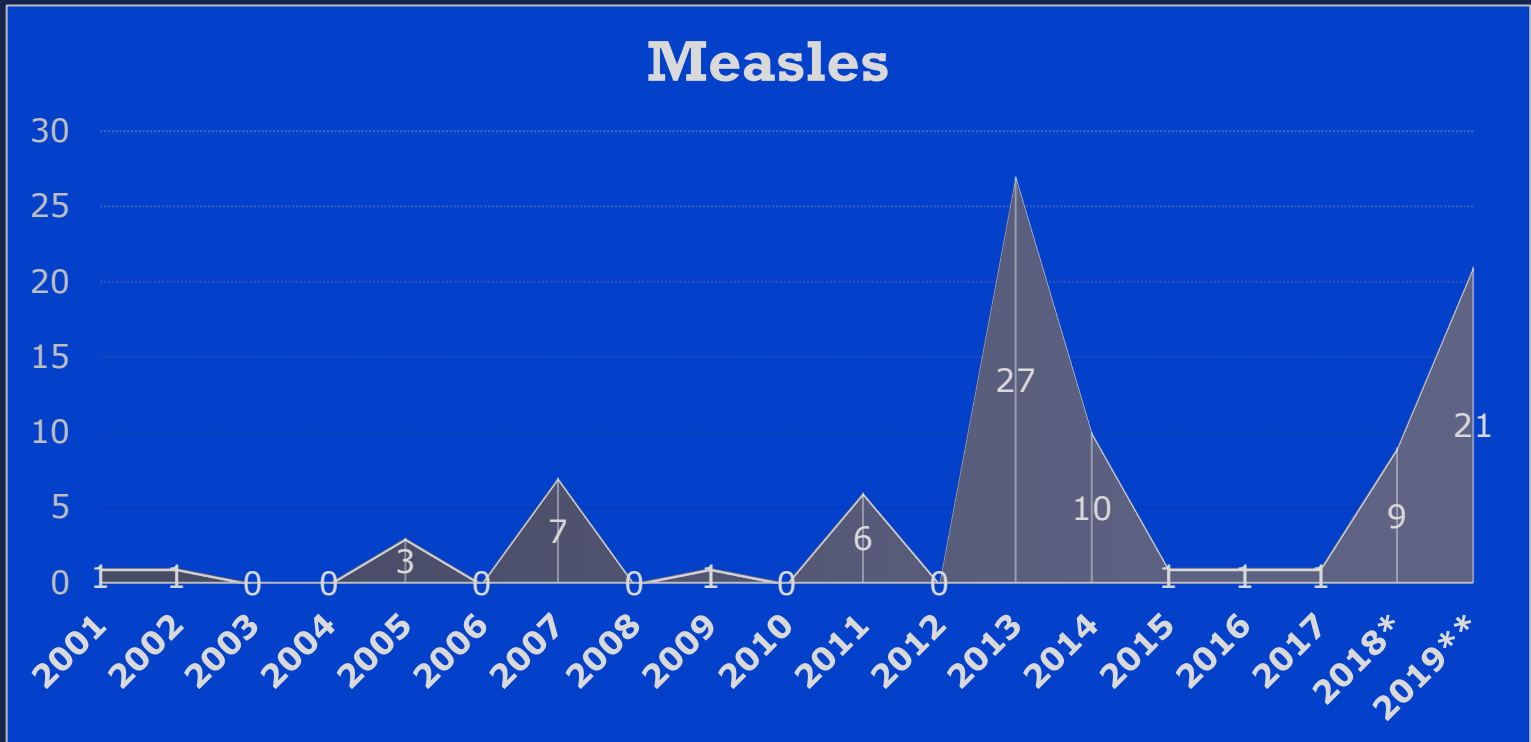
**2019 Data Provisional as of 9/05/19



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Measles, Texas, 2001-2019**



*2018 Data not finalized as of 9/05/19

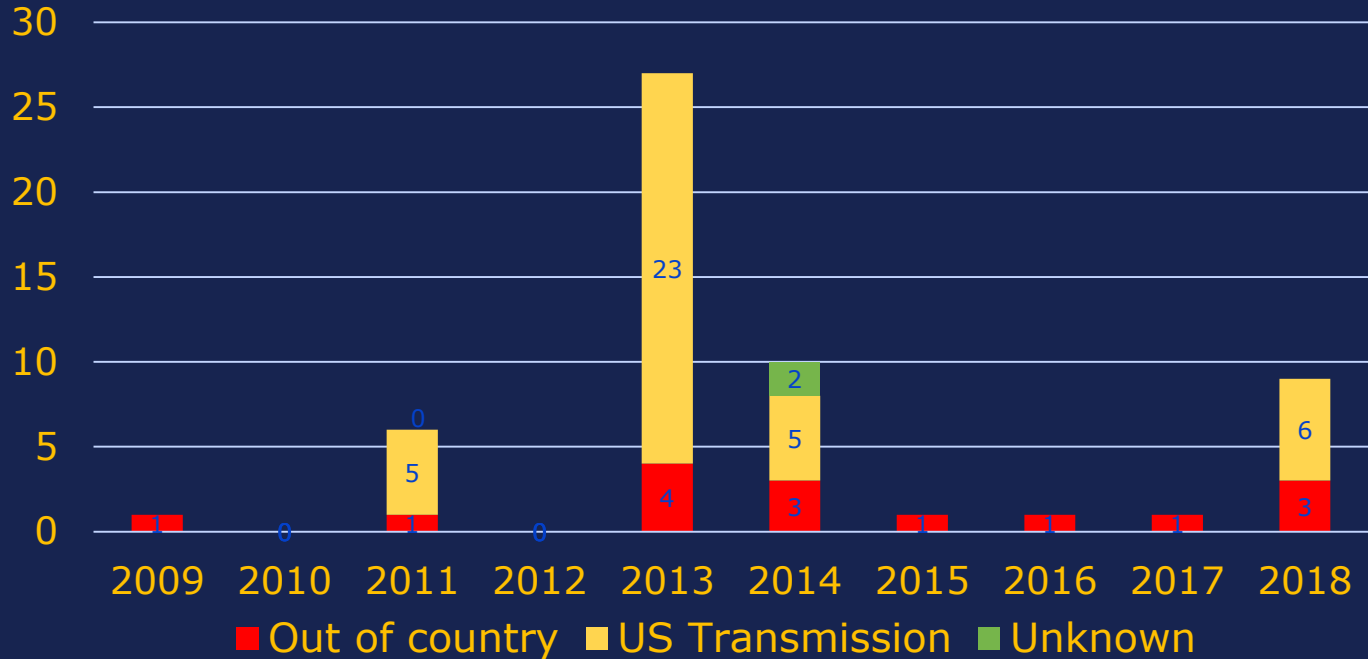
**2019 Data Provisional as of 9/05/19



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Measles by Importation Status, Texas 2009-2018



Measles Incidence Rate/100,000

2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.03

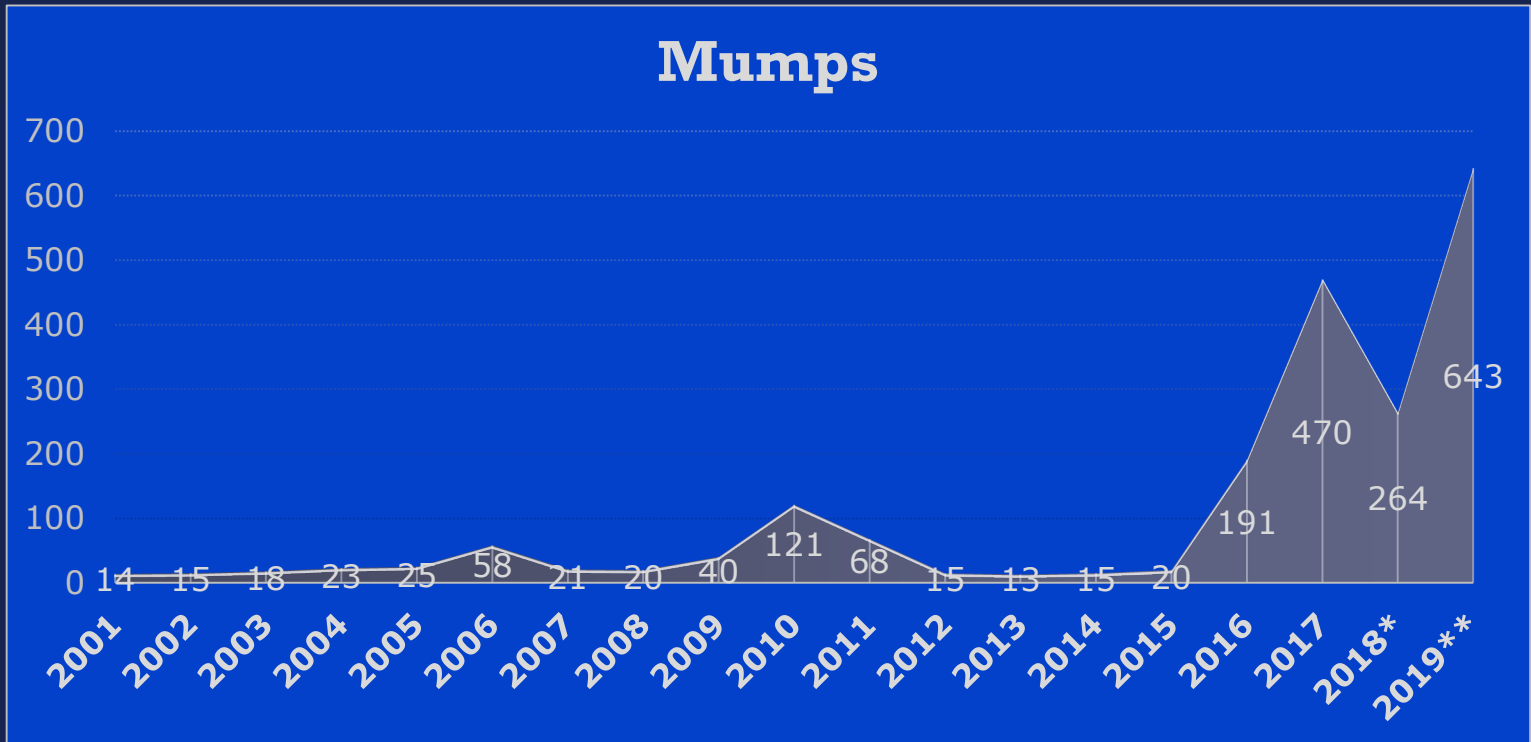


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Mumps, Texas, 2001-2019**



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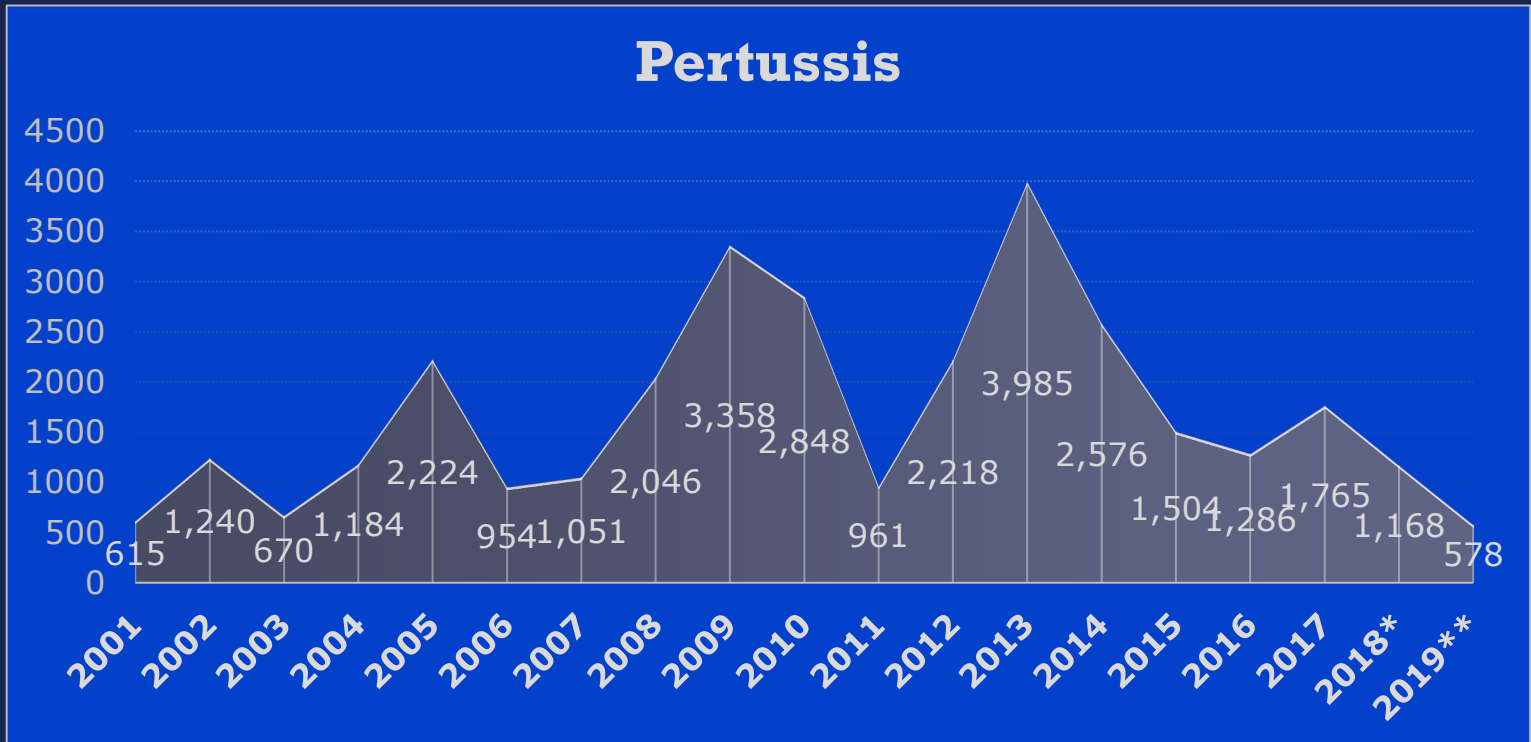


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Pertussis, Texas, 2001-2019**



*2018 Data not finalized as of 9/05/19

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Pneumococcal Disease, invasive, Texas, 2001-2019**

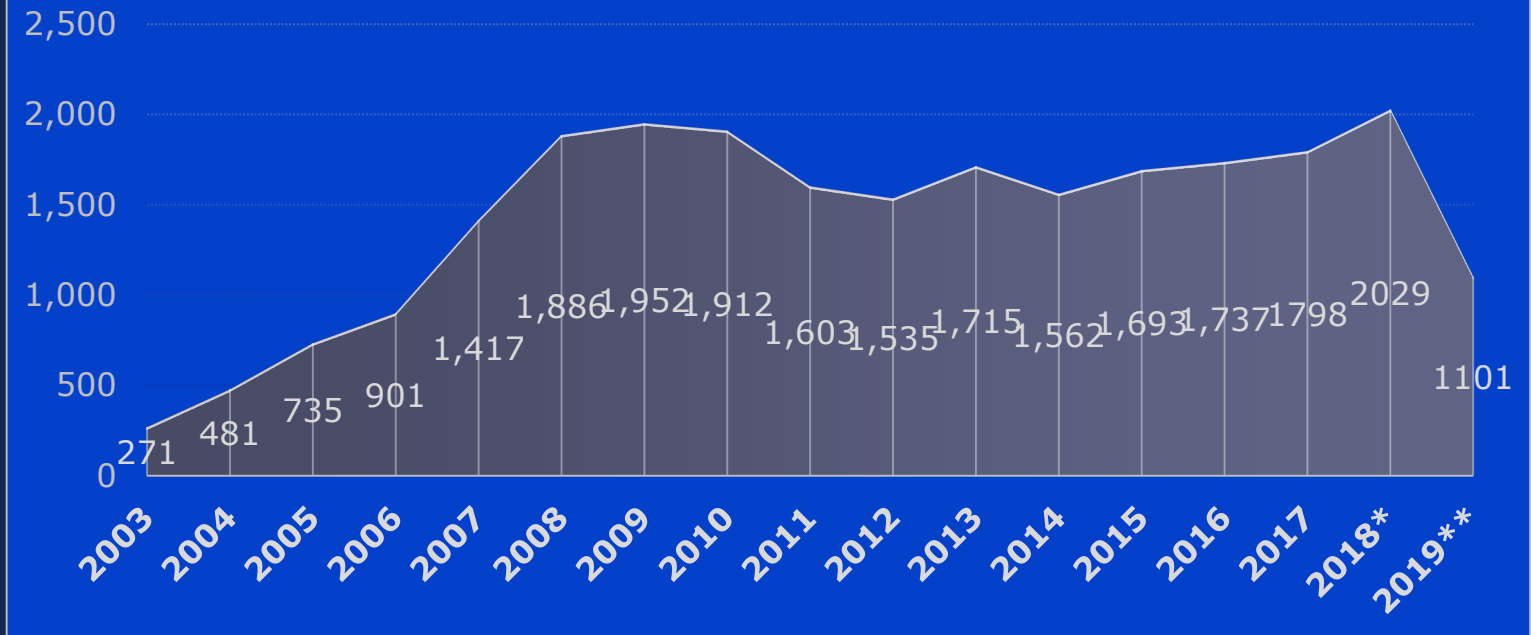


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Pneumococcal Disease, invasive



*2018 Data not finalized as of 9/05/19

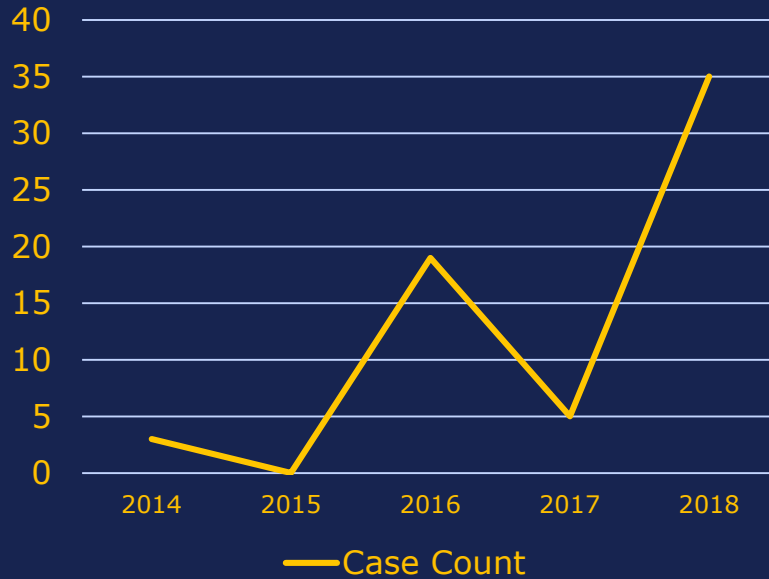
**2019 Data Provisional as of 9/05/19



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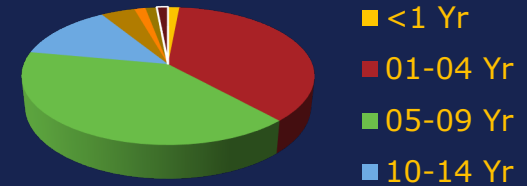
Acute Flaccid Myelitis (AFM), Texas 2014-2018



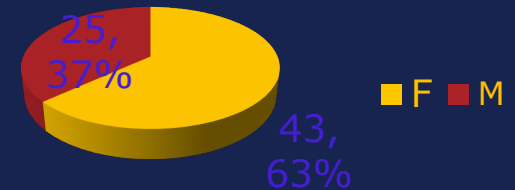
AFM Incidence Rate/100,000

2014	2015	2016	2017	2018
0.01	0.00	0.07	0.02	0.12

Case Counts by Age Group Texas, 2014-2018



Case Counts by Sex Texas, 2014-2018



Foodborne, Waterborne, Respiratory-borne Diseases



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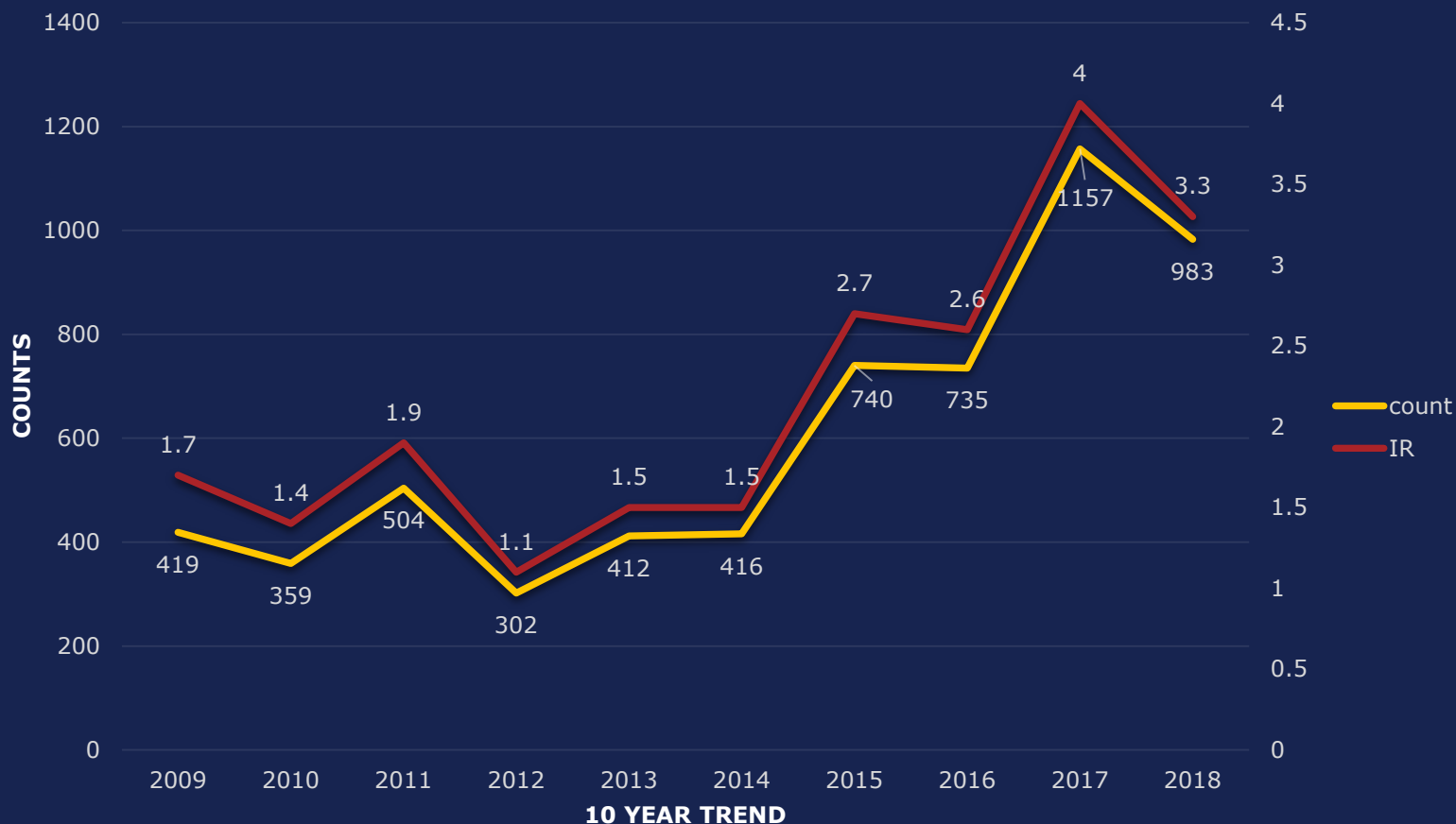
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Cases and Incidence Rates, Cryptosporidiosis, 2009-2018, Texas





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Cases and Incidence Rates, Shigellosis, 2009-2018, Texas

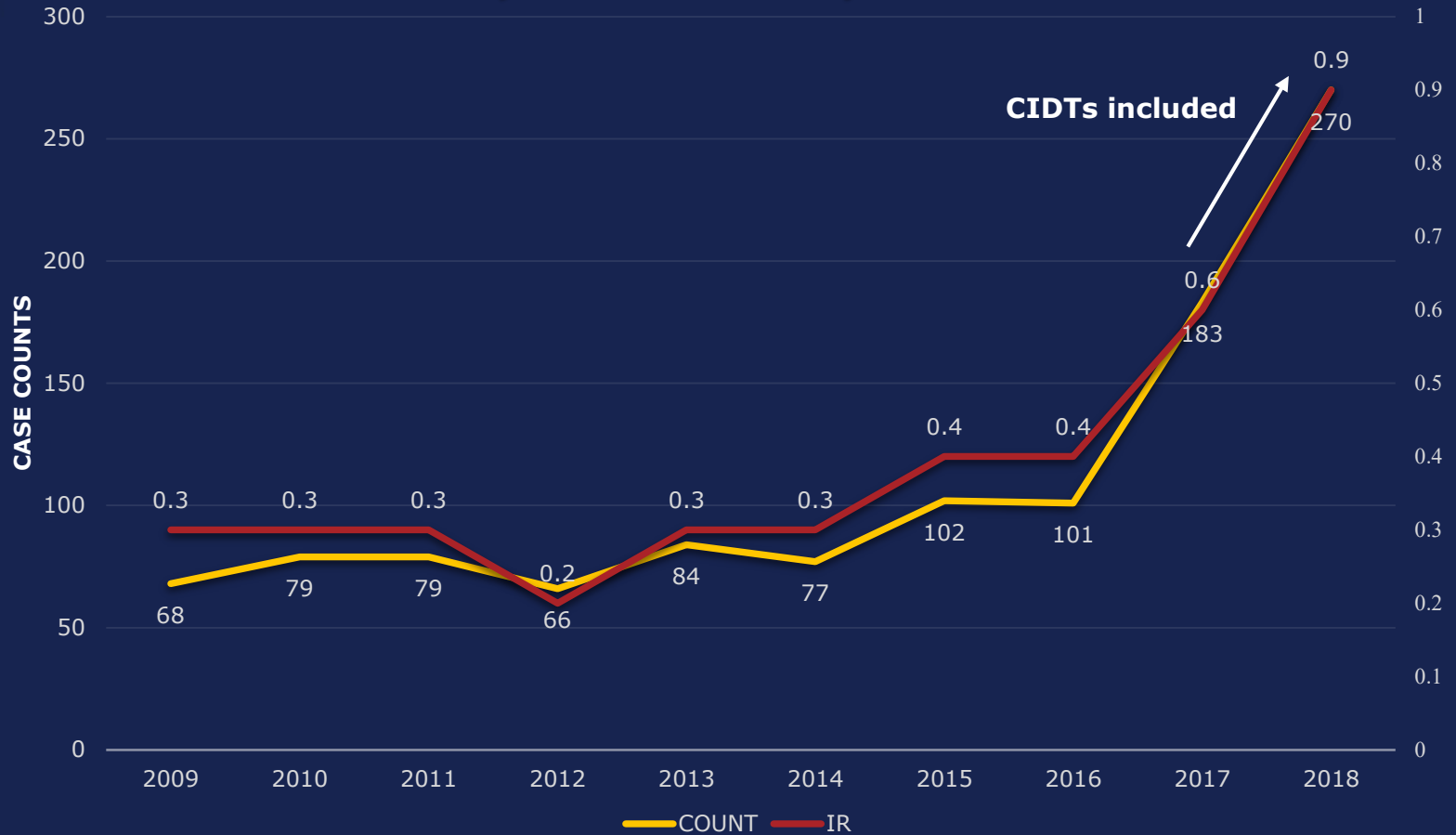




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Cases and Incidence Rates, Vibriosis, 2009-2018, Texas

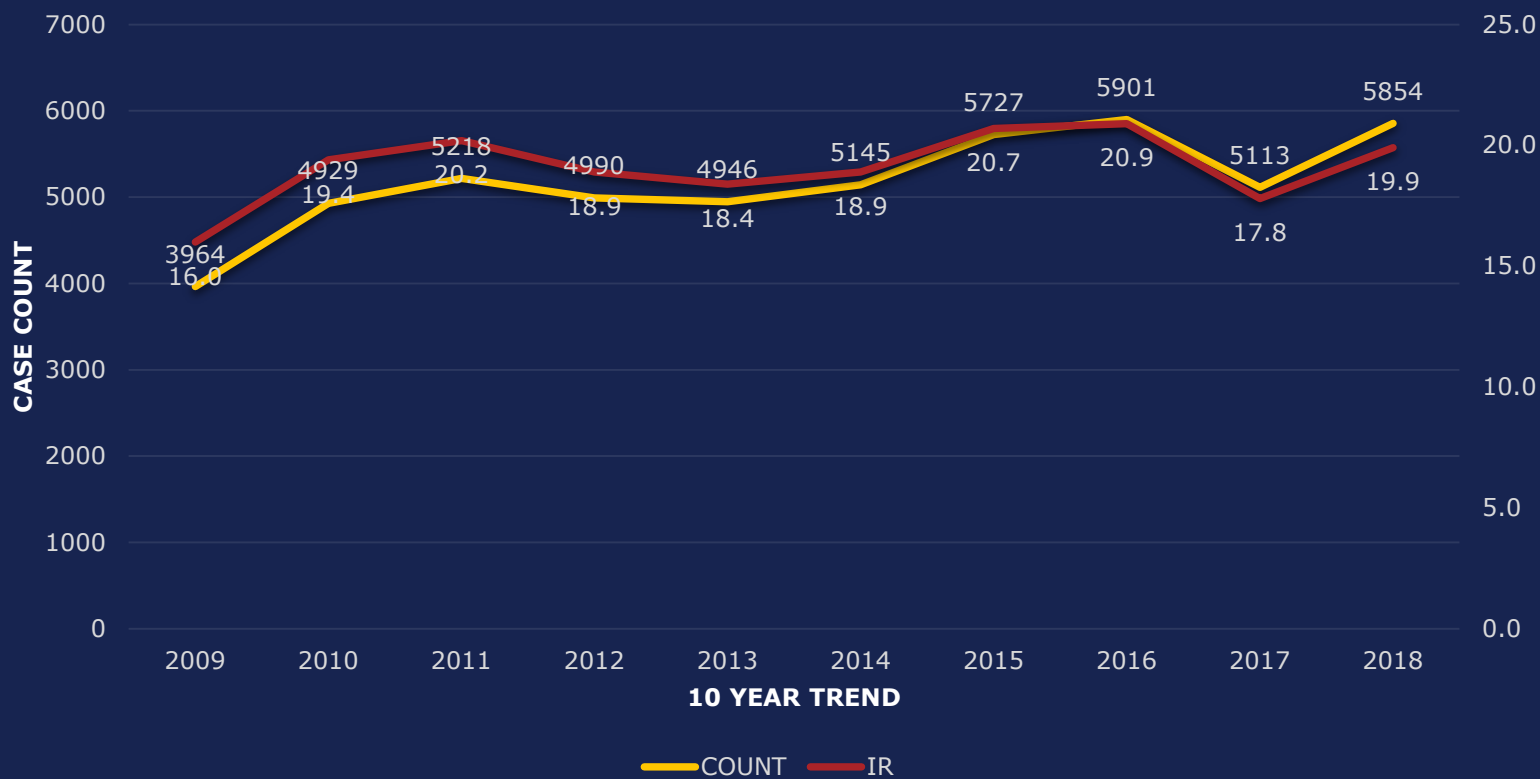




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Cases and Incidence Rates, Salmonellosis, 2009-2018, Texas



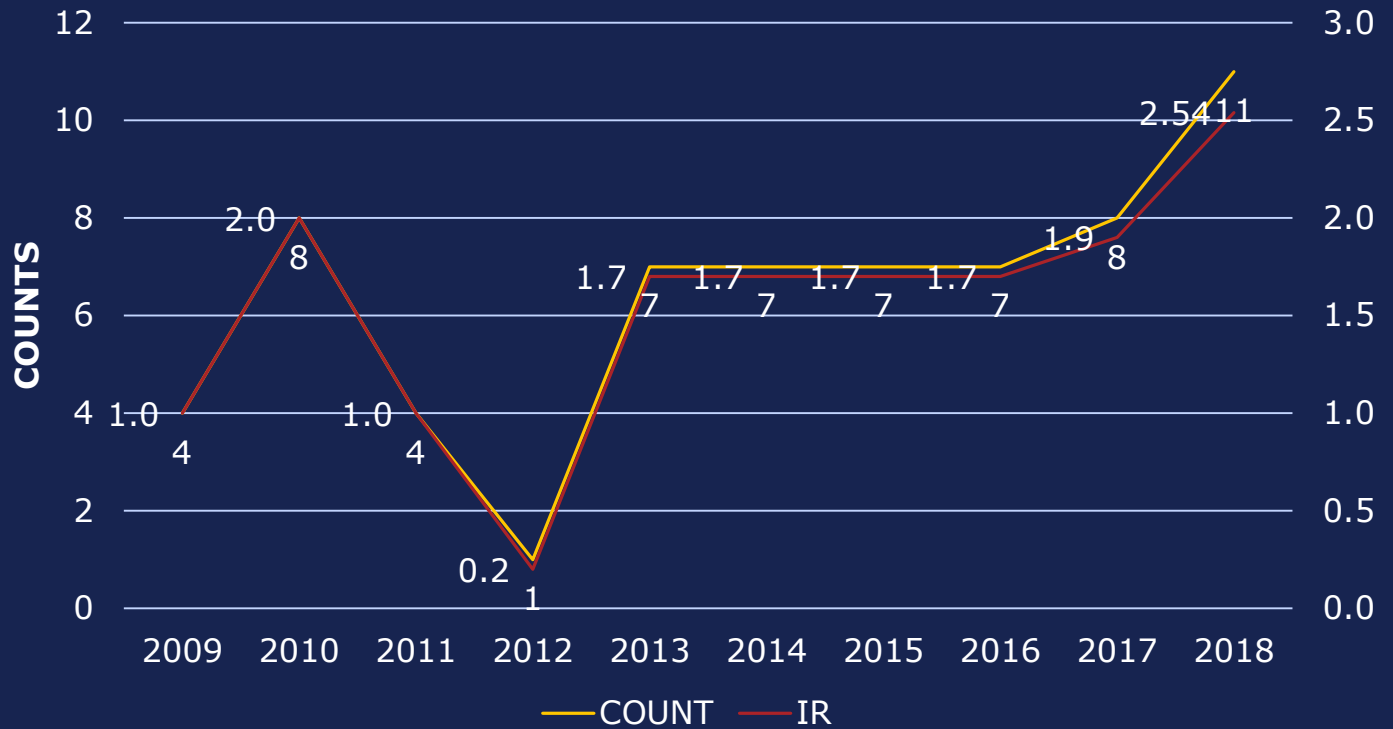


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Infant Botulism Cases and Incidence Rates, Texas 2009-2018



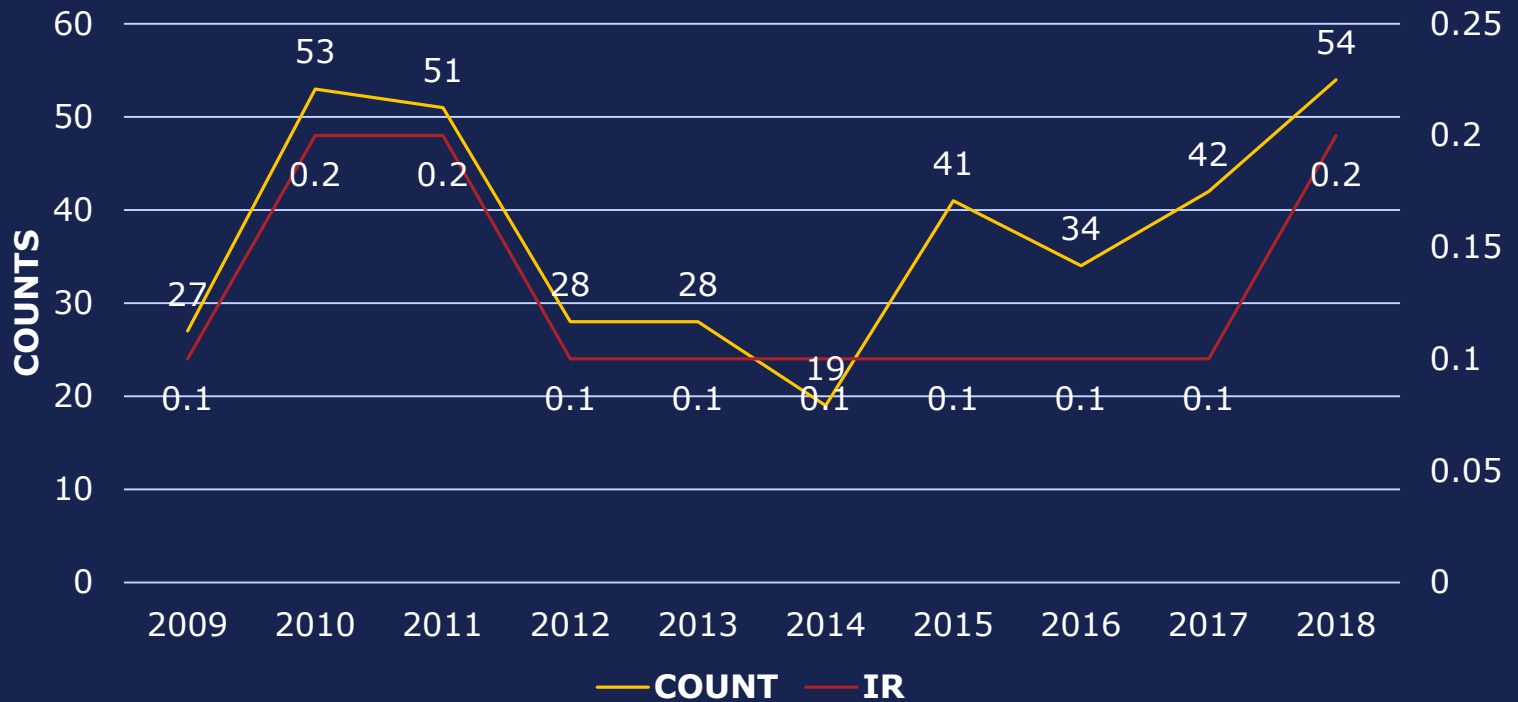


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Listeriosis Cases and Incidence Rates, Texas, 2009-2018



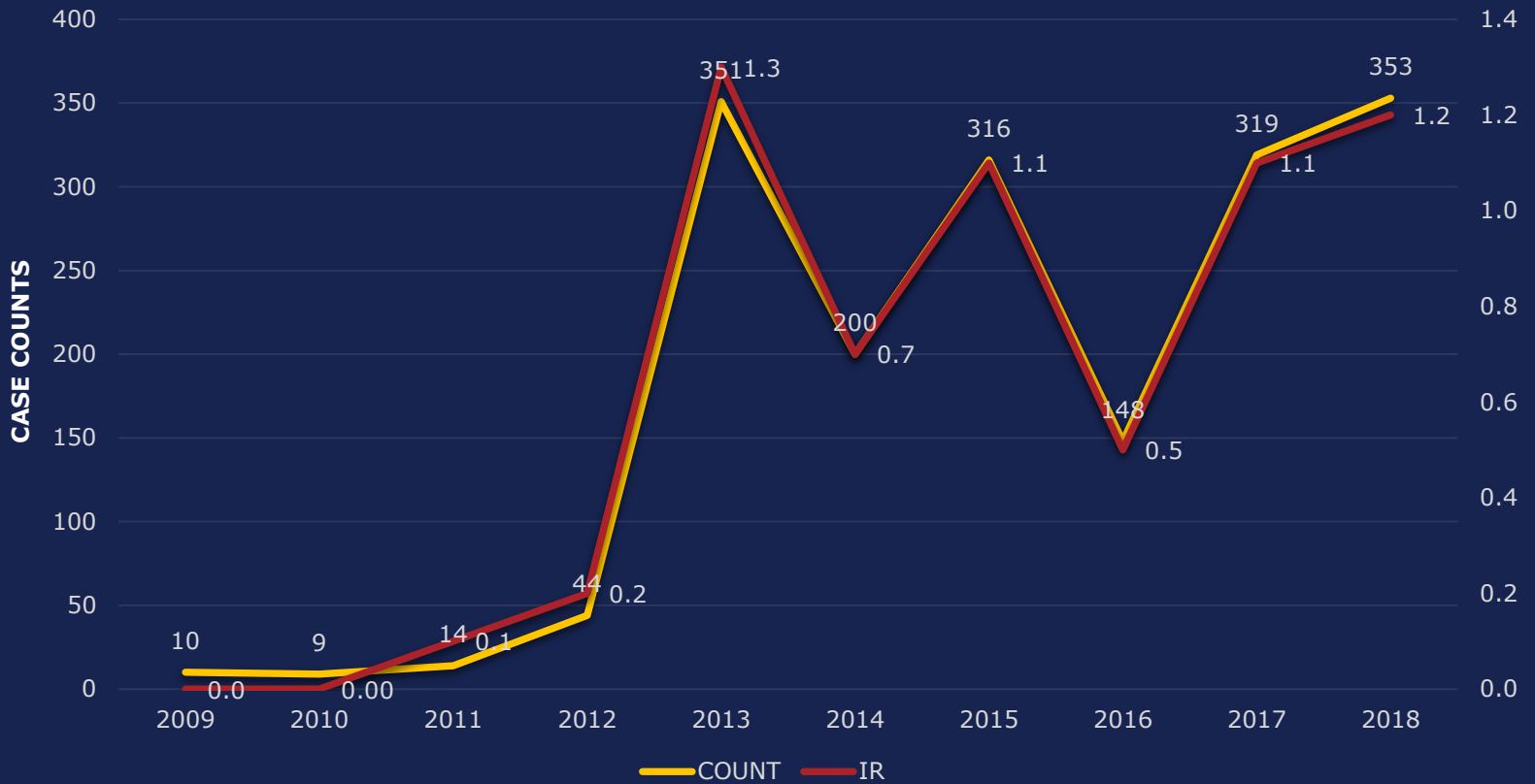


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Cases and Incidence Rates, Cyclosporiasis, 2009-2018, Texas

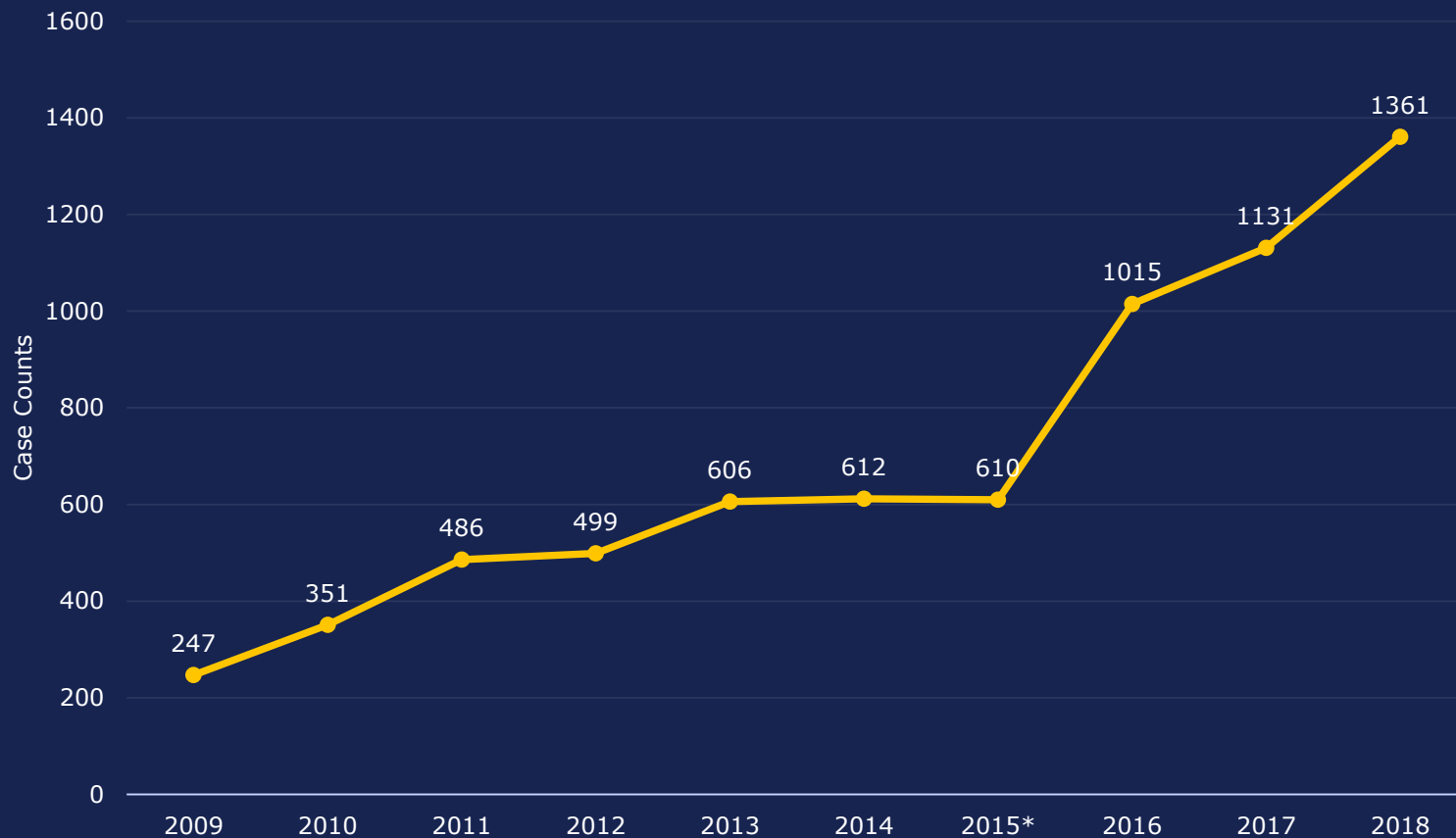




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Cases of Shiga toxin-producing *Escherichia coli* (STEC), 2009-2018, Texas



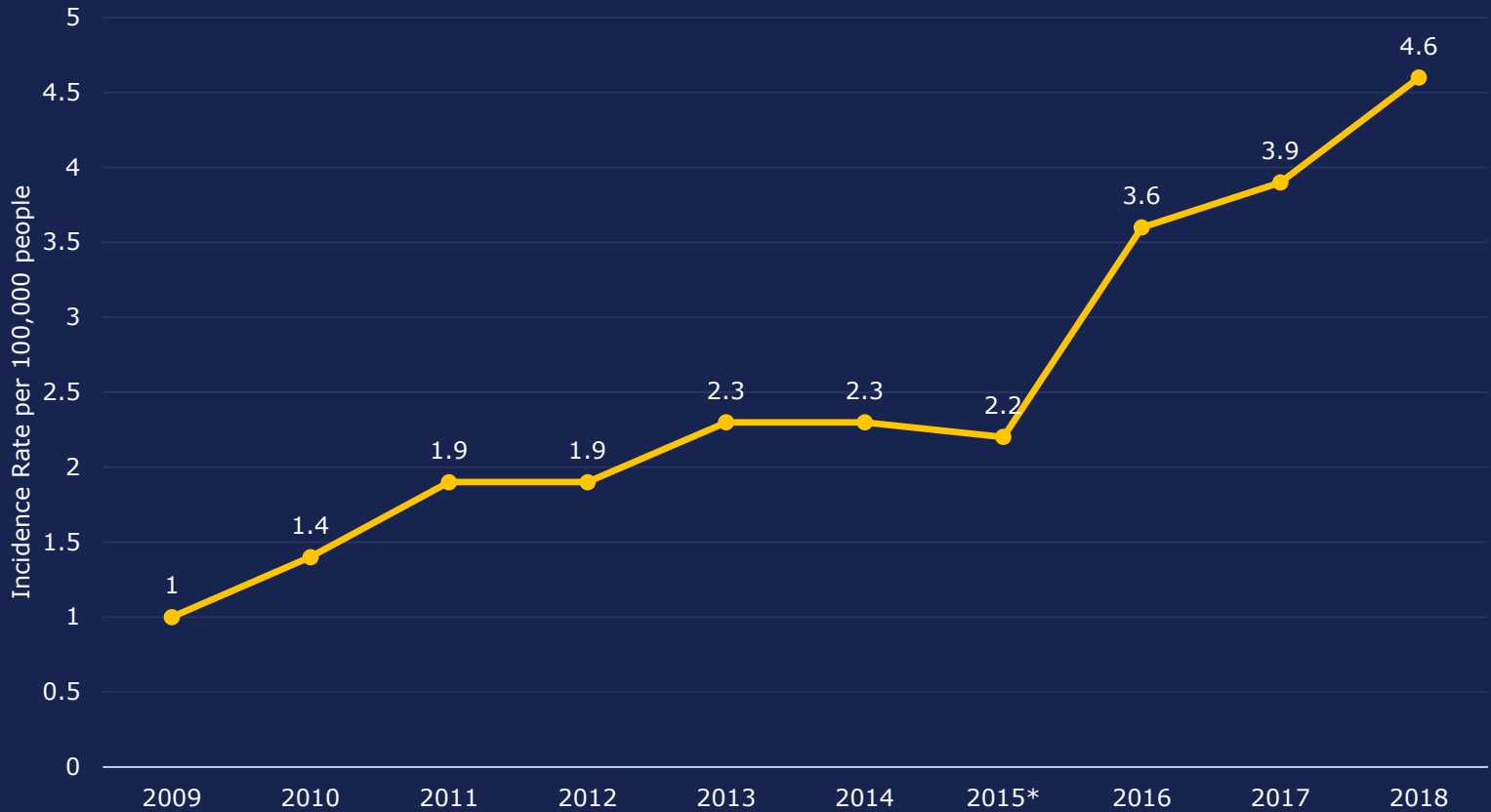


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Shiga toxin-producing *Escherichia coli* (STEC) Incidence Rates, 2009-2018, Texas



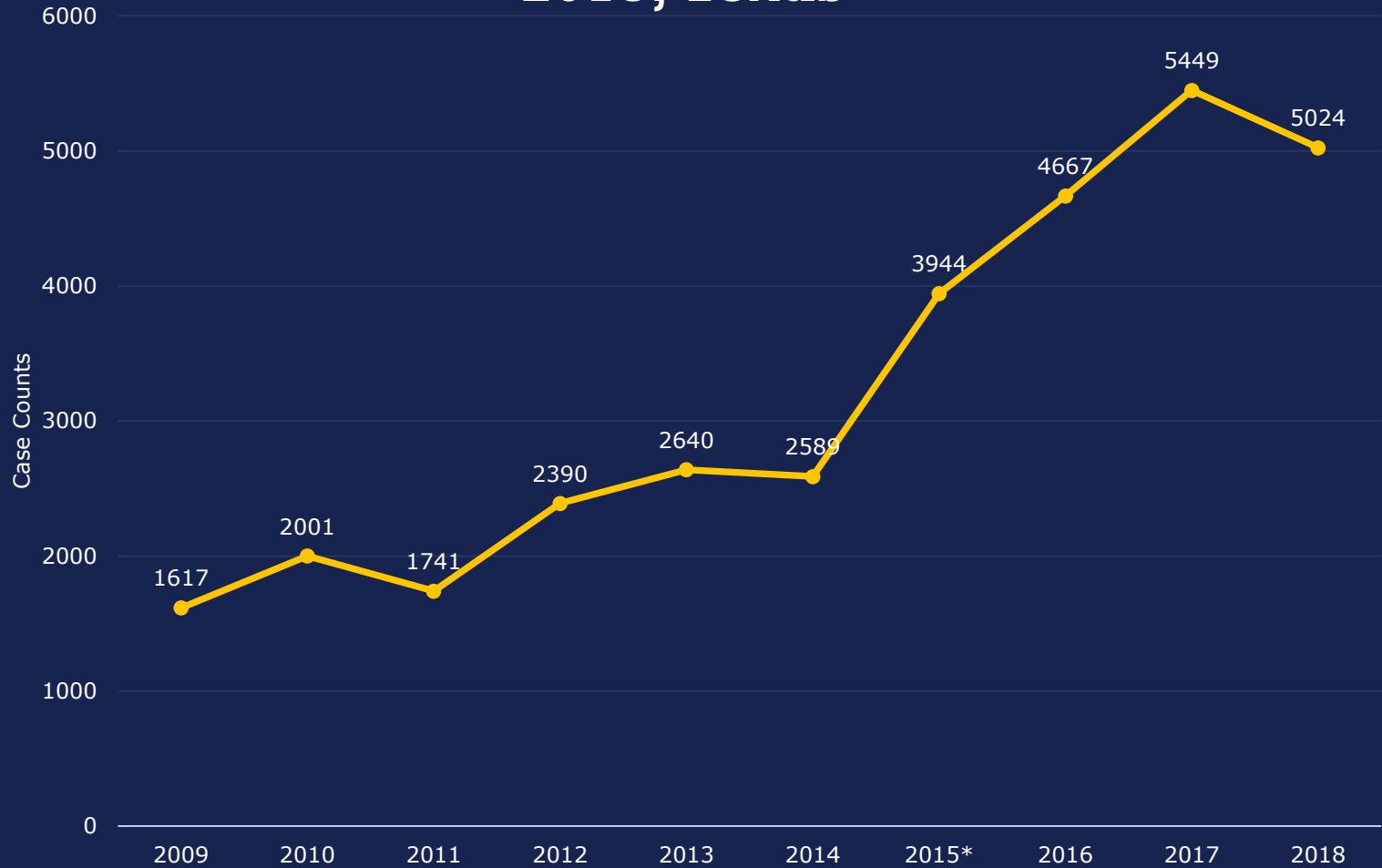
Cases of Campylobacteriosis, 2009-2018, Texas



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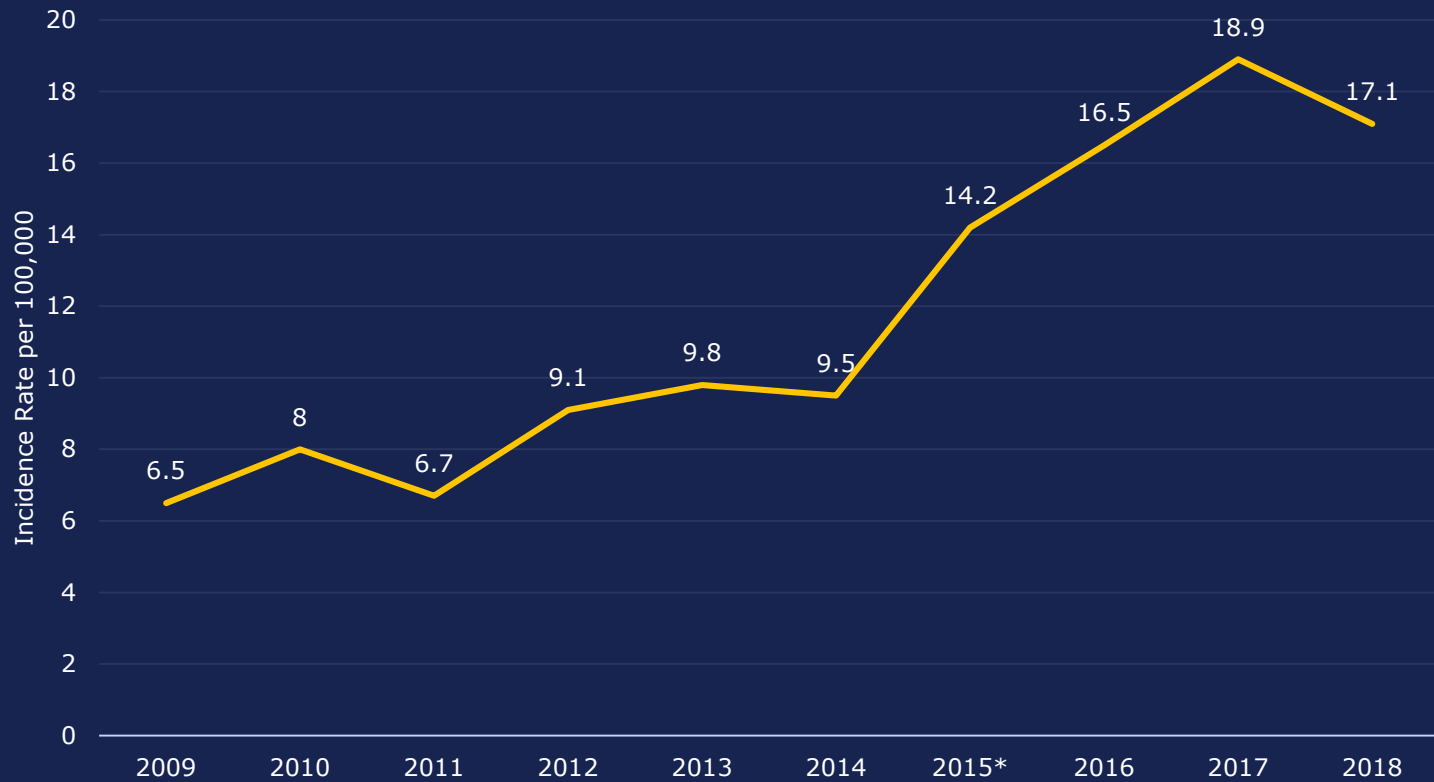




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Campylobacteriosis Incidence Rates, 2009-2018, Texas



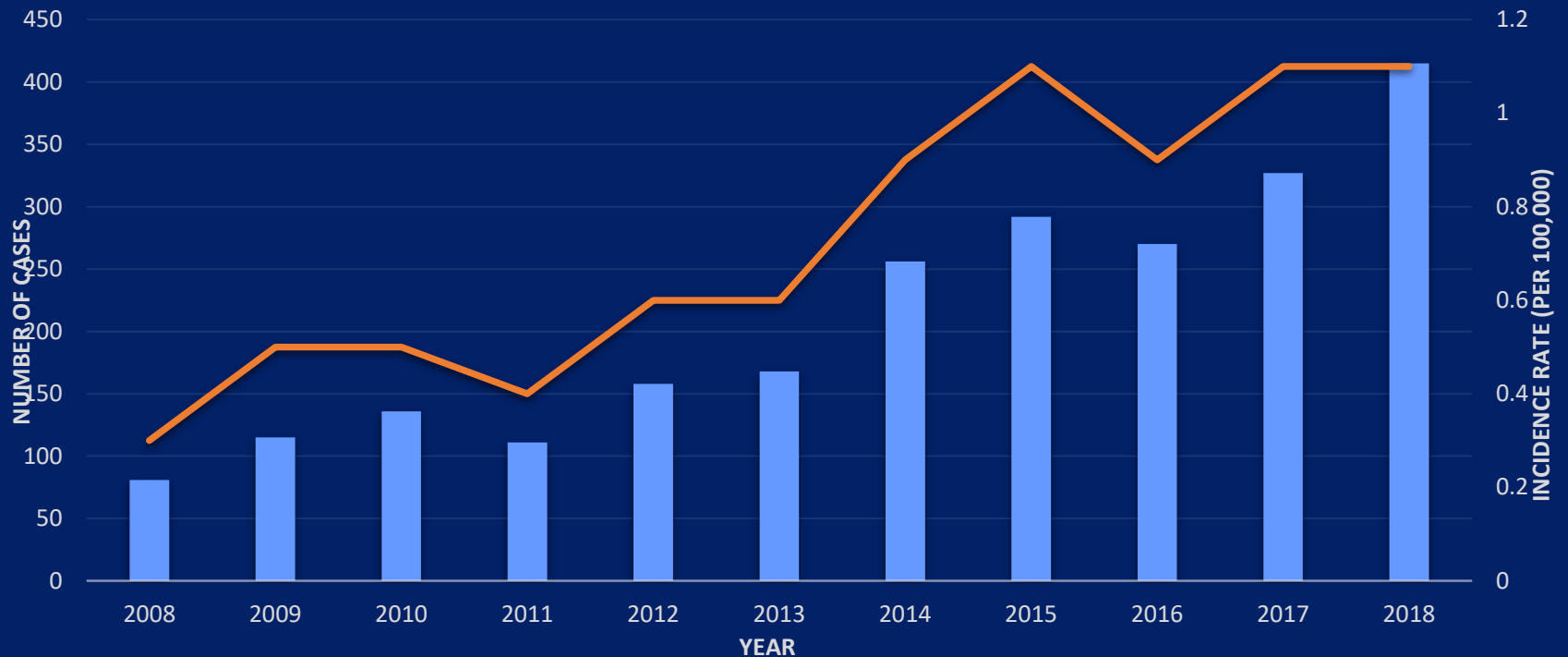
Amebic Meningitis and Encephalitis in Texas from 2008-2018

Naegleria fowleri		Balamuthia mandrillaris		Acanthamoeba species	
Year	Number of Cases	Year	Number of Cases	Year	Number of Cases
2008	1	2008	0	2008	0
2009	0	2009	0	2009	0
2010	1	2010	1	2010	0
2011	0	2011	0	2011	0
2012	0	2012	0	2012	1
2013	1	2013	0	2013	0
2014	0	2014	1	2014	0
2015	2	2015	1	2015	0
2016	1	2016	1	2016	1
2017	0	2017	0	2017	0
2018	0	2018	1	2018	2

Note: 1 confirmed case of Naegleria fowleri in 2019

Legionellosis, Texas, 2008-2018

Number of Reported Legionellosis Cases and Incidence Rates



Antibiotic Resistance and Hospital- Associated Infections



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Texas ARLN Results[^]

January 2018 to March 2019



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CRE	CRPA	CRAb	ESBL	Total
588	1116	608	59	2371

CP-CRE	CP-CRPA	CP-CRAb	Total CP
225	76	0	301

CRE: Carbapenem-Resistant Enterobacteriaceae

CRPA: Carbapenem-Resistant *Pseudomonas aeruginosa*

CRAb: Carbapenem-Resistant *Acinetobacter baumannii*

ESBL: Extended-Spectrum Beta-Lactamases

CP: Carbapenemase-Producing

[^]Does not include Houston ARLN data

Colonization Studies

January 2018 to March 2019



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Resistance Mechanism	Studies Conducted	Swabs Tested	Total Positive
IMP	0	0	0
KPC	57	684	100
NDM	4	36	4
VIM	14	712	11
OXA	1	1	0
mcr-1	0	0	0
mcr-2	0	0	0
<i>C. auris</i>	5	64	0



Acknowledgments

- Margaret Vaaler, Justin Buendia
 - HIV, STD, TB, HIV programs
- Kelly Broussard, Tom Sidwa
 - Zoonotic diseases
- Greg Leos
 - Vaccine-preventable diseases
- Jon Kolsin, Sristy Arora, Atisha Morrison, Amira Bashadi, Laura Tabony
 - Foodborne, waterborne, respiratory-borne diseases
- Enyinnaya Merengwa
 - Antibiotic Resistance and Healthcare-associated infections



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Thank you

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