

Texas Immunization Stakeholder Working Group (TISWG)

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Vaccine Preventable Diseases and Influenza Data

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Vaccine Preventable Diseases and Influenza Data Overview

- Vaccine Preventable Diseases (VPDs)
 - Current and Past
- 2011-12 Influenza Season Picture
 - State and National
- Current Texas Influenza Vaccination Estimates
 - The Texas Behavioral Risk Factor Surveillance System (BRFSS), 2010

Texas VPDs Morbidity

Highest vs. Current

Disease	Highest Case Count during 20 th Century	2011*	Percent Decrease
Measles	88,000 (1958)	6	99.9%
Rubella	8,408 (1970)	0	100%
Congenital Rubella Syndrome	12 (1974)	0	100%
Mumps	32,939 (1950)	68	99.8%
Pertussis	21,588 (1947)	932	95.7%
Diphtheria	1,544 (1946)	0	100%
Tetanus	55 (1954)	2	96.4%
Polio (paralytic)	2,778 (1950)	0	100%
Hepatitis A	4,892 (1973)	137	97.2%
Hepatitis B, acute	1,960 (1998)	185	90.6%
<i>Haemophilus influenzae</i> type b, invasive (Hib)	843 (1988)	2	99.8%
Varicella	26,888 (1997)	2,554	90.5%

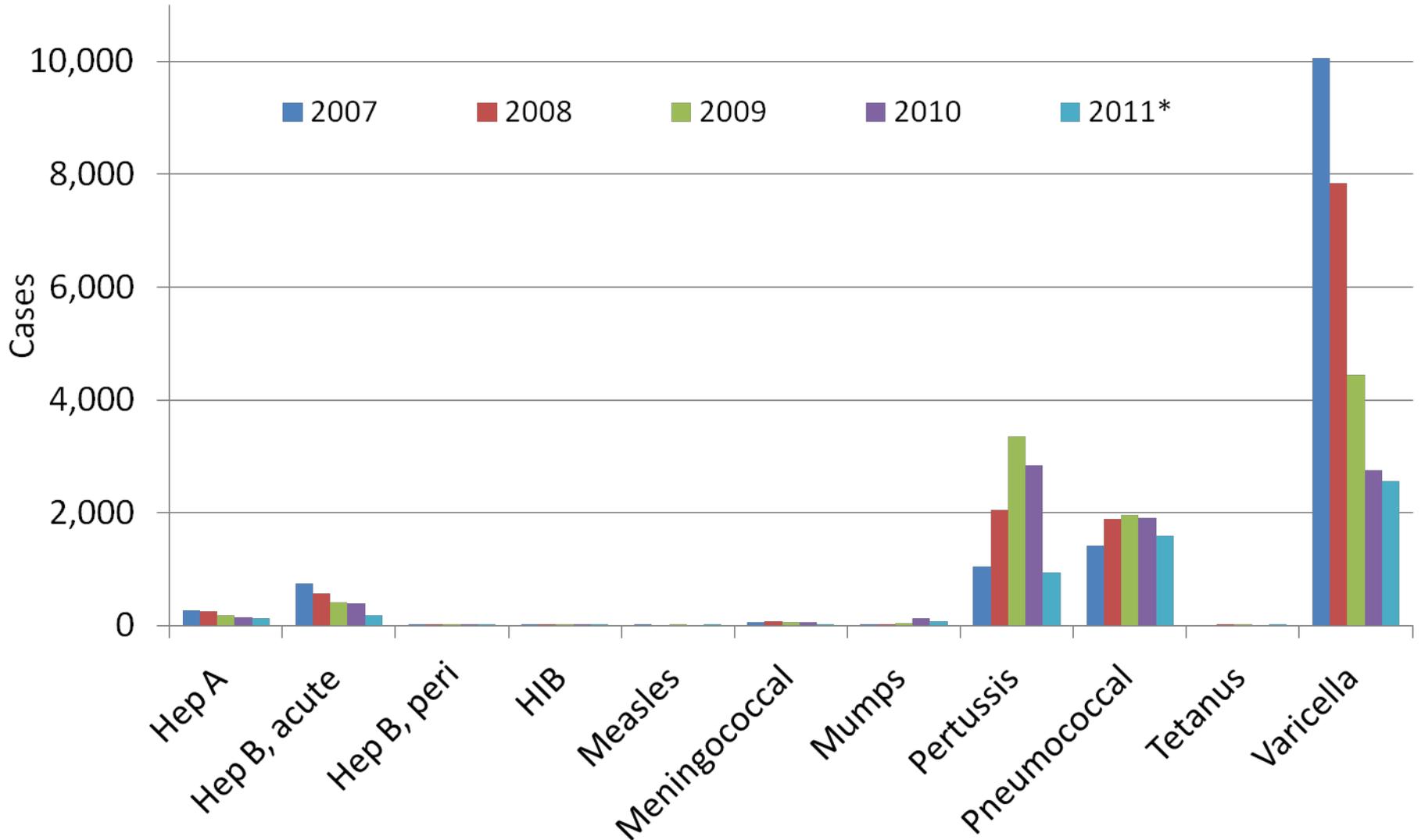
*2011 data is provisional as of 3/12/2012

VPDs in Texas, 2007-2011*

VPDs	2007	2008	2009	2010	2011*
Hep A	264	259	184	139	137
Hep B, acute	741	562	420	394	185
Hep B, perinatal	3	8	1	2	2
Hib	14	11	7	12	2
Measles	7	0	1	0	6
Meningococcal	55	70	53	59	30
Mumps	21	20	40	121	68
Pertussis	1,051	2,046	3,358	2,848	933
Pneumococcal	1,417	1,884	1,952	1,912	1,586
Tetanus	0	3	1	0	2
Varicella	10,061	7,839	4,445	2,760	2,554

*2011 data is provisional as of 3/12/2012

VPDs in Texas, 2007-2011*



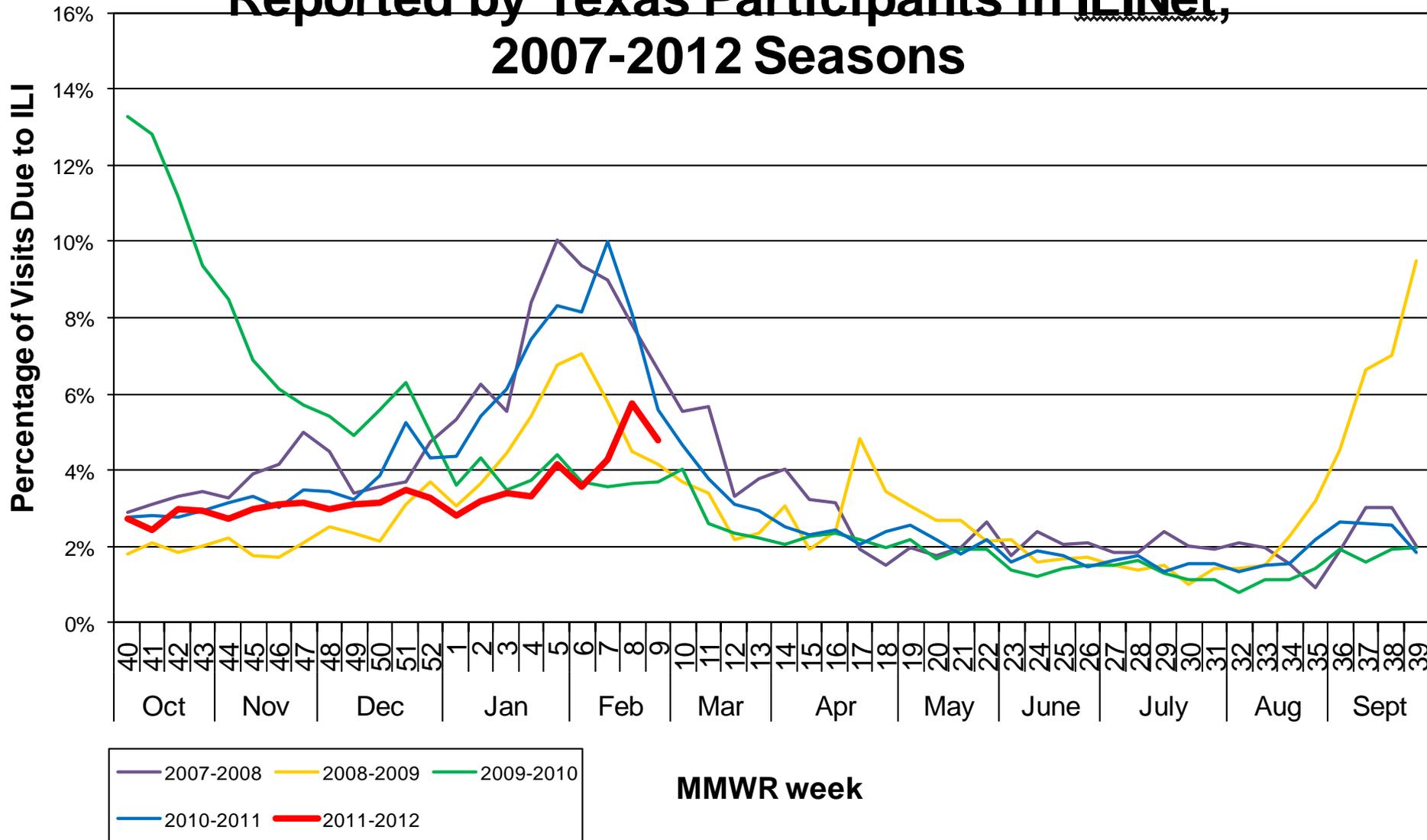
*2011 data is provisional as of 3/12/2012

National Influenza Picture, 2011-2012 Season

- 2011-2012 Flu Vaccine Formulation
 - A/California/7/2009 (H1N1)-like virus
 - A/Perth/16/2009 (H3N2)-like virus
 - B/Brisbane/60/2008-like virus
- Low but increasing flu activity
 - Peak expected in March or later
 - Flu activity could continue through May
- Predominant type is A
 - Predominant subtype is H3N2
 - TX, OK, LA, AR, NM: 2009's H1N1 still circulating
- Vaccine good match for A subtypes
- Only 50% of circulating B match the vaccine

Percentage of Visits Due to Influenza-like Illness (ILIs)

Reported by Texas Participants in ILINet, 2007-2012 Seasons



DSHS Austin and LRN labs, 2011-2012 season as of 3/9/12

	Weeks 40 through 09
No. of specimens tested	930
No. of positive specimens (%)	326 (35%)
Positive specimens by type/subtype	
Influenza A	299 (91.7%)
Subtyping performed	298 (99.7%)
A (2009 H1N1)	227 (76.2%)
A (other H1N1)	0 (0%)
A (H3N2)	71 (23.8%)
Subtyping not performed	1 (0.3%)
Influenza B	27 (8.3%)

Texas Flu Deaths/Hospitalizations

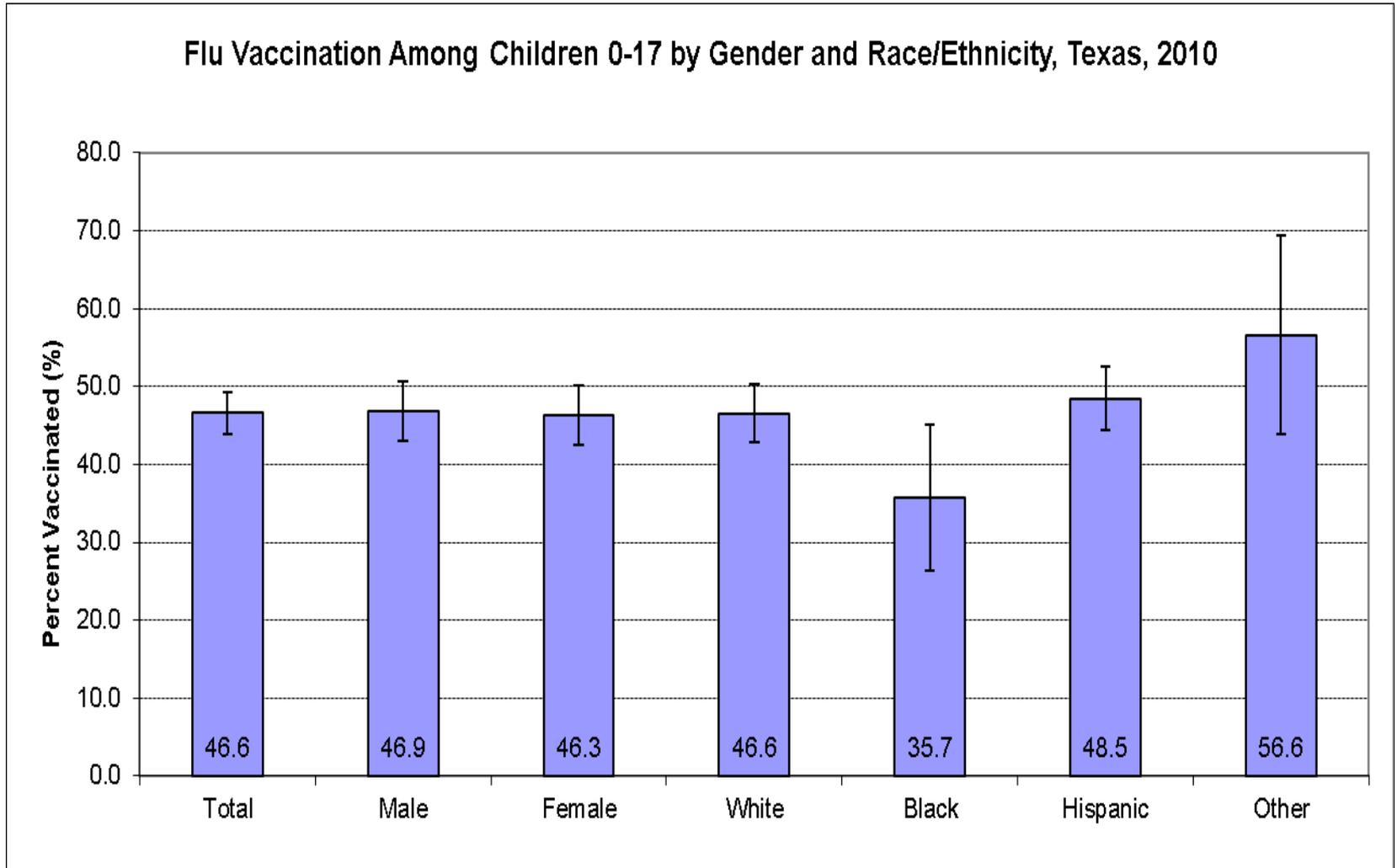
- Texas does not track flu-related hospitalizations in any age group
- Adult flu-related deaths are not tracked
- 1 flu-associated pediatric death has been reported (Jan 2012)
 - 13 year old in Region 8
 - Underlying medical condition
 - Not vaccinated this season
 - Flu A, not subtyped

Current Texas Influenza Vaccination Estimates

Texas Behavioral Risk Factor Surveillance System (BRFSS)

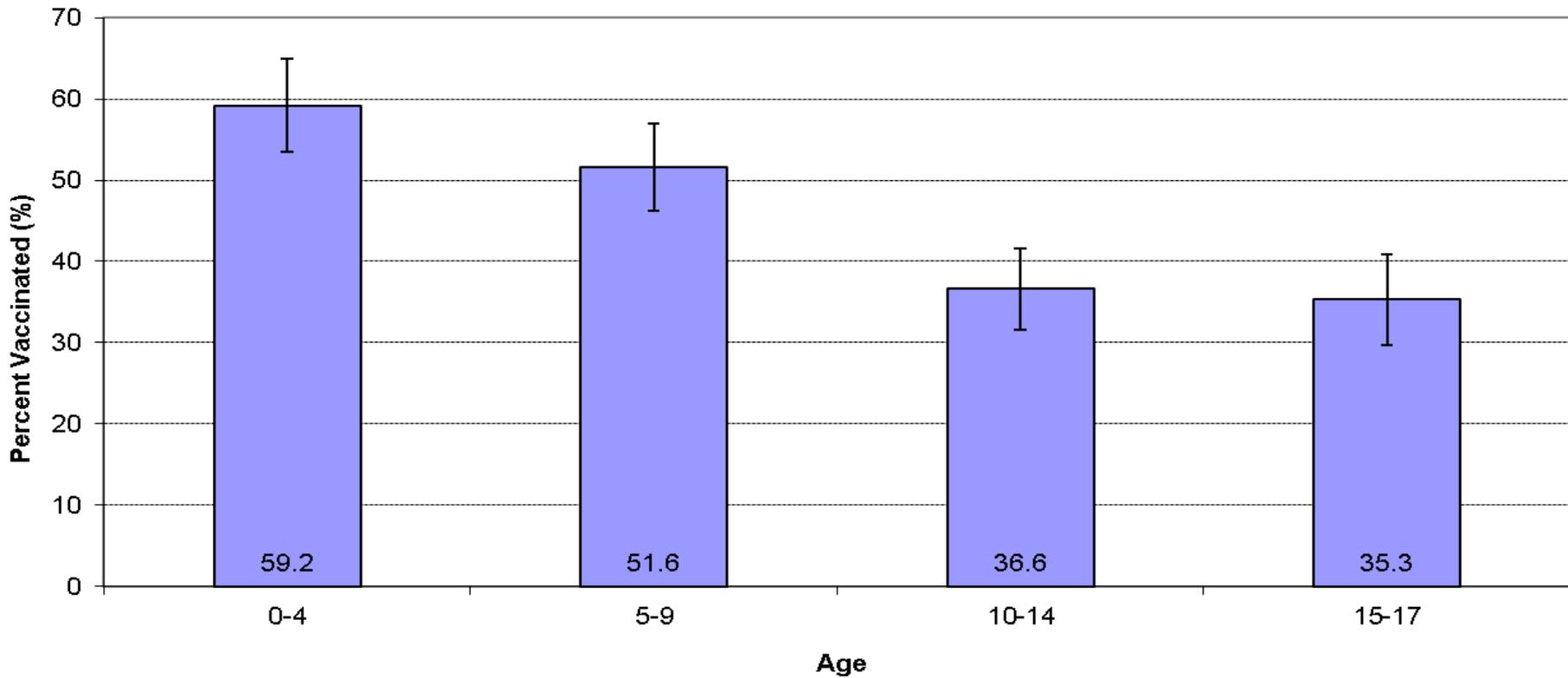
- The Texas Behavioral Risk Factor Surveillance System (BRFSS)
 - initiated in 1987
 - Federally funded telephone survey conducted on a monthly basis of randomly selected adult Texans
 - Collect data on lifestyle risk factors contributing to the leading causes of death and chronic diseases.
- BRFSS collects data on adult and childhood immunizations, including seasonal influenza vaccination.

Children by Gender and Race/Ethnicity

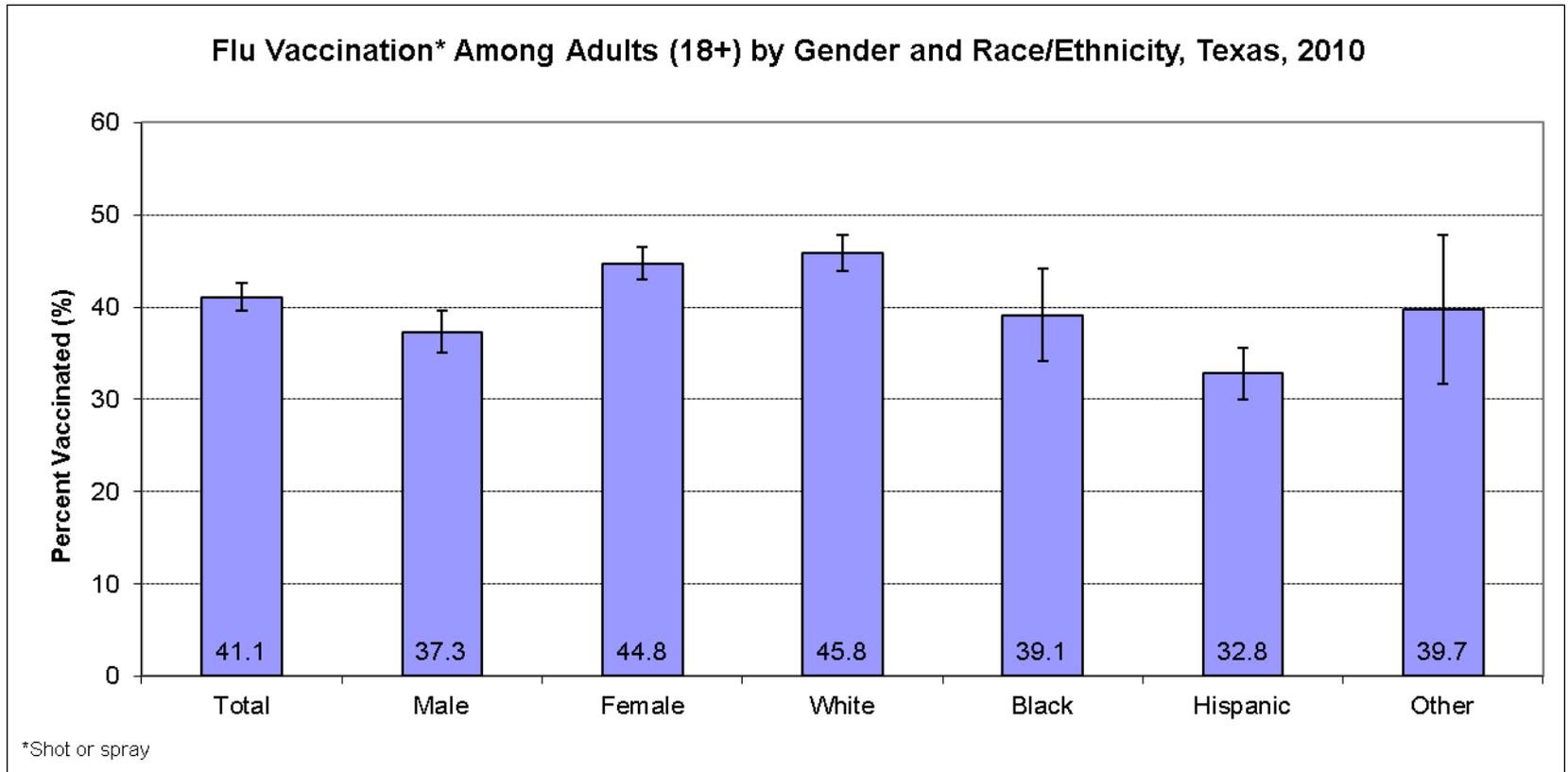


Children by Age

Flu Vaccination Among Children by Age, Texas, 2010



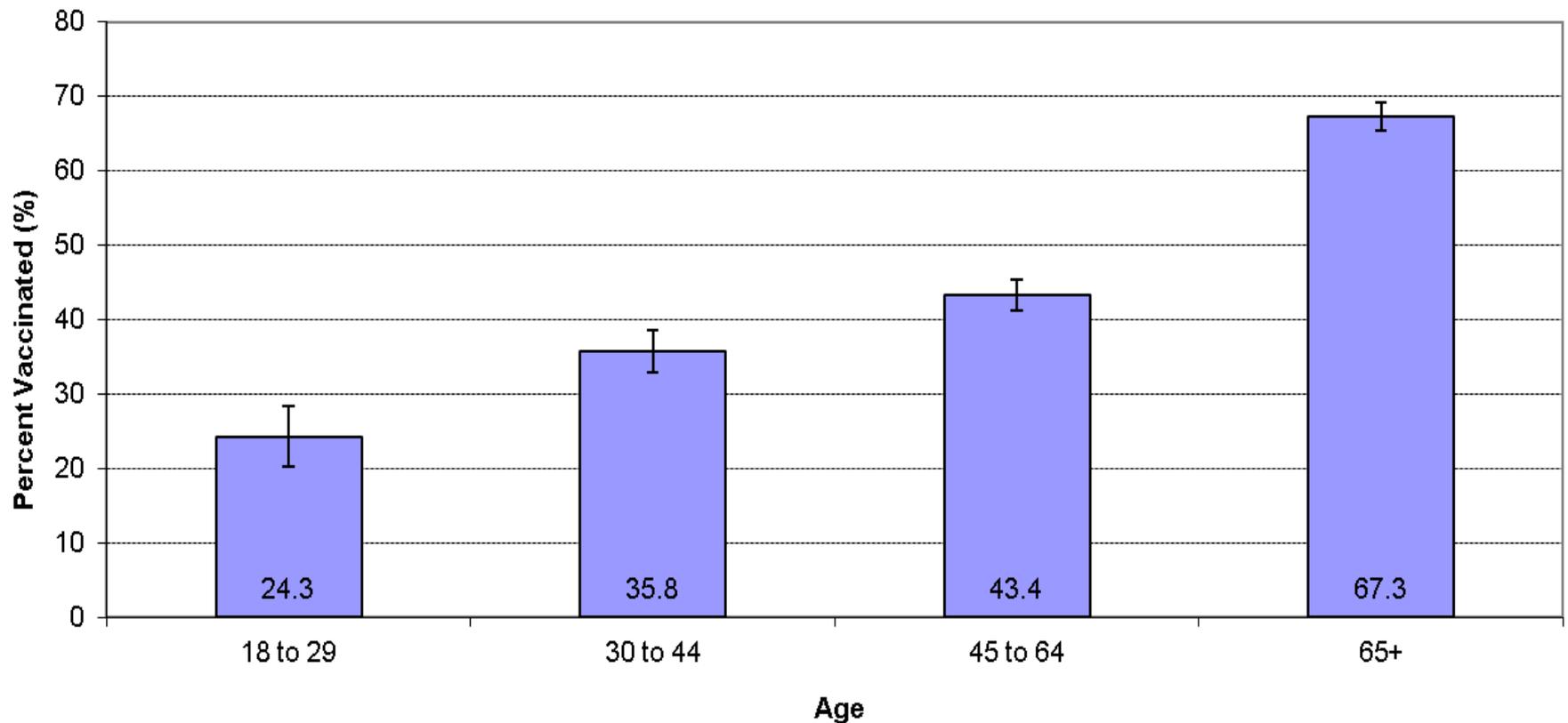
Adults by Gender and Race/Ethnicity



Source: Texas Behavioral Risk Factor Surveillance System

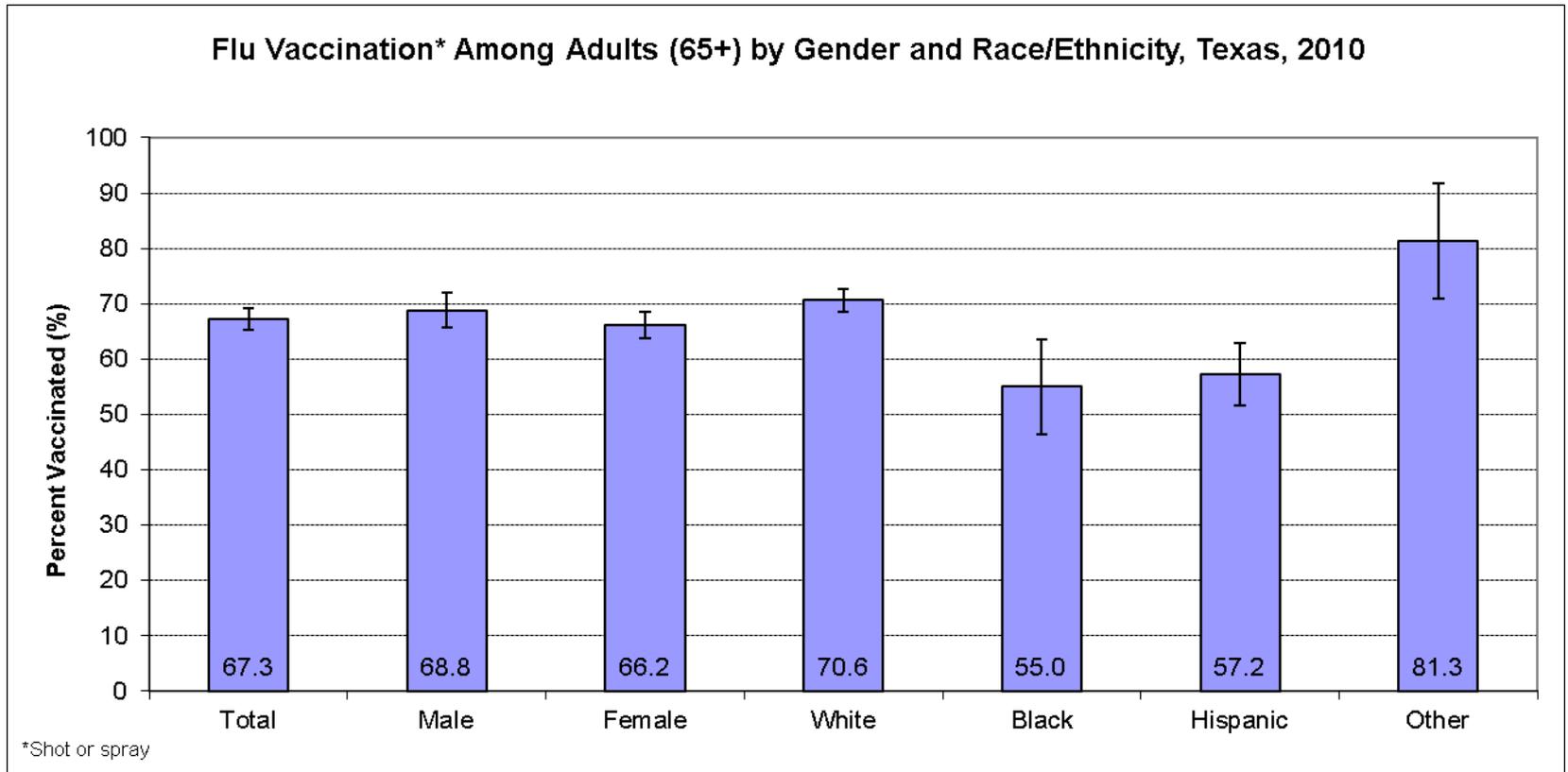
Adults by Age

Flu Vaccination* Among Adults by Age, Texas, 2010



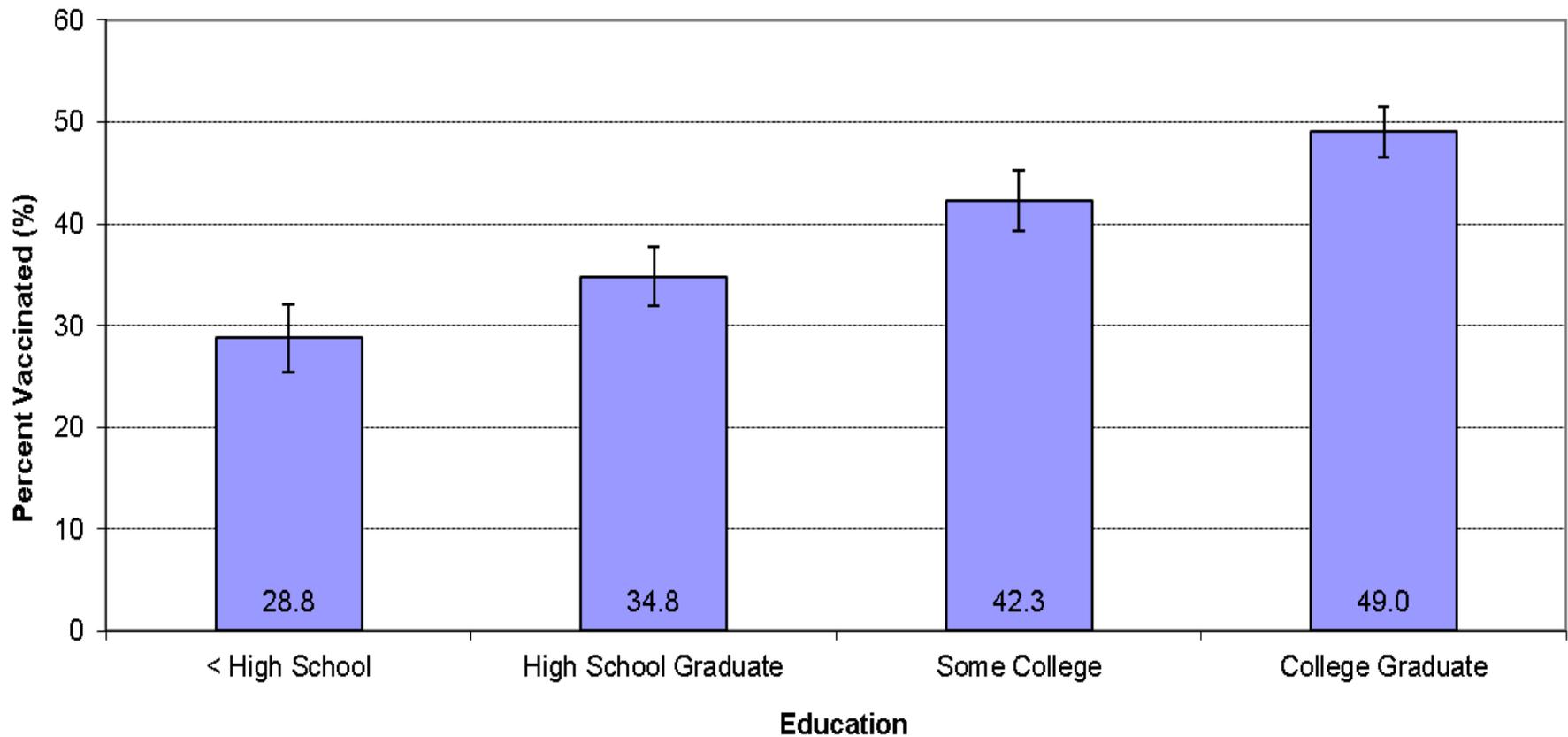
*Shot or spray

Adults 65 and Older



Adults by Education

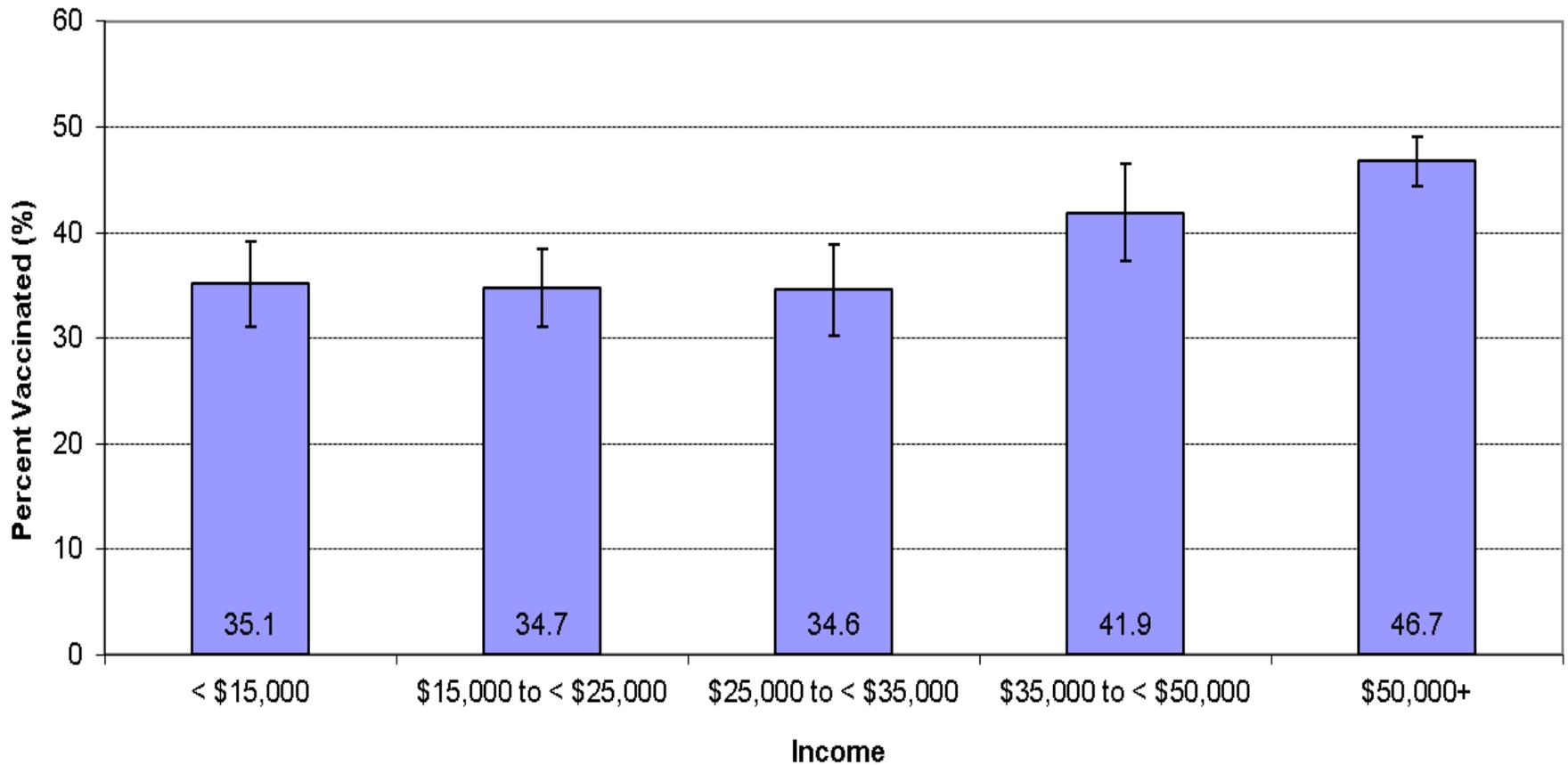
Flu Vaccination* Among Adults (18+) by Education, Texas, 2010



*Shot or spray

Adults by Income

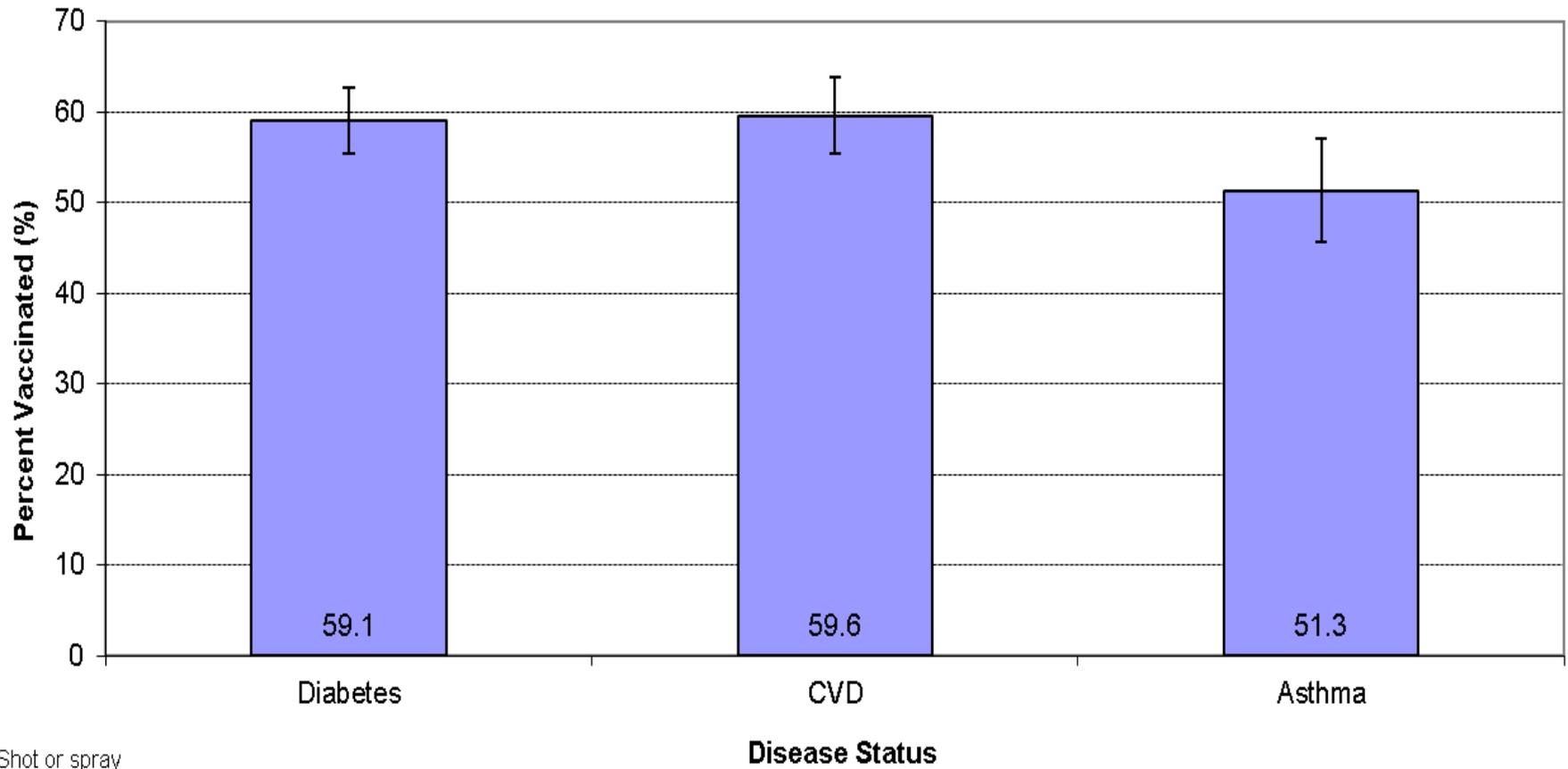
Flu Vaccination* Among Adults (18+) by Annual Household Income, Texas, 2010



*Shot or spray

High-Risk Adults

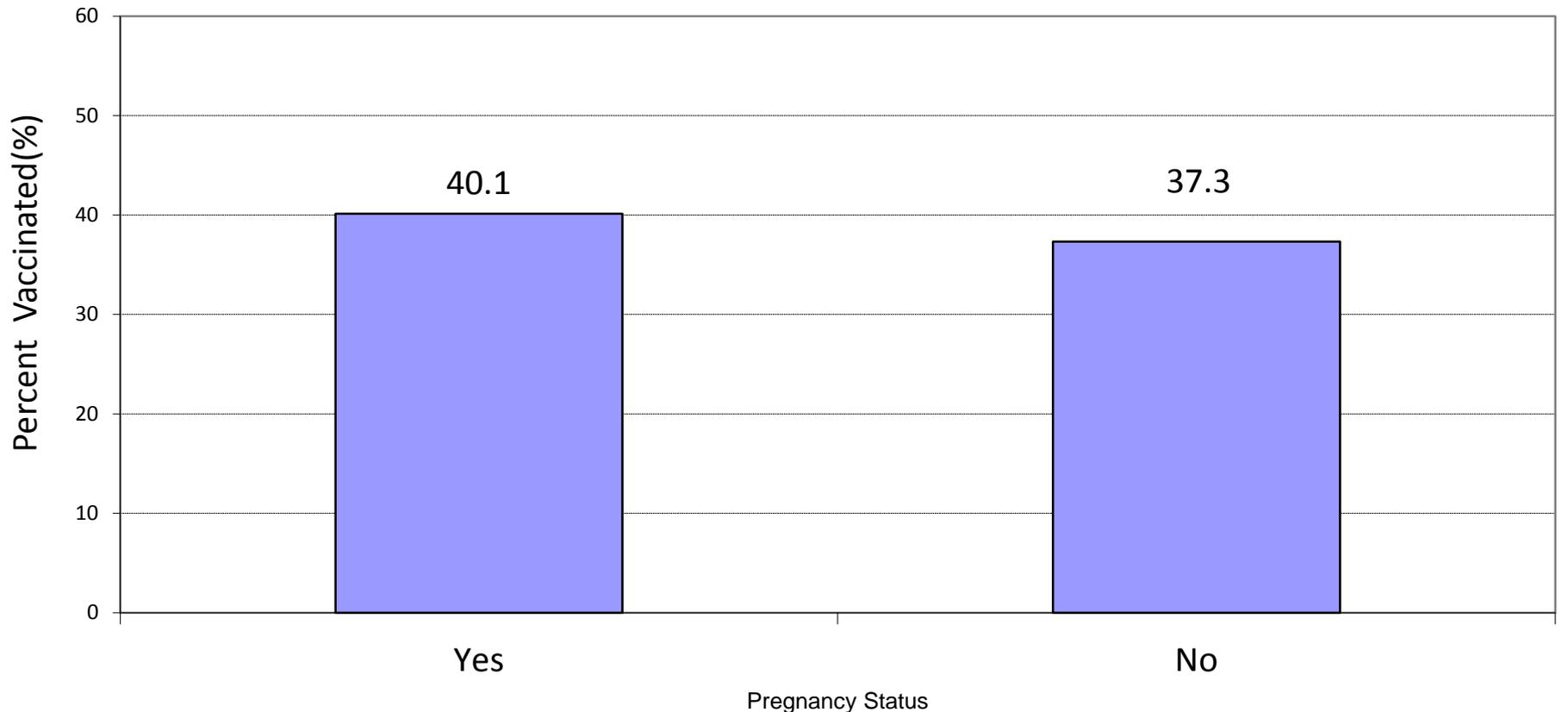
Flu Vaccination* Among High-Risk Adults (18+), Texas, 2010



*Shot or spray

Flu Vaccination Among Women by Pregnancy Status

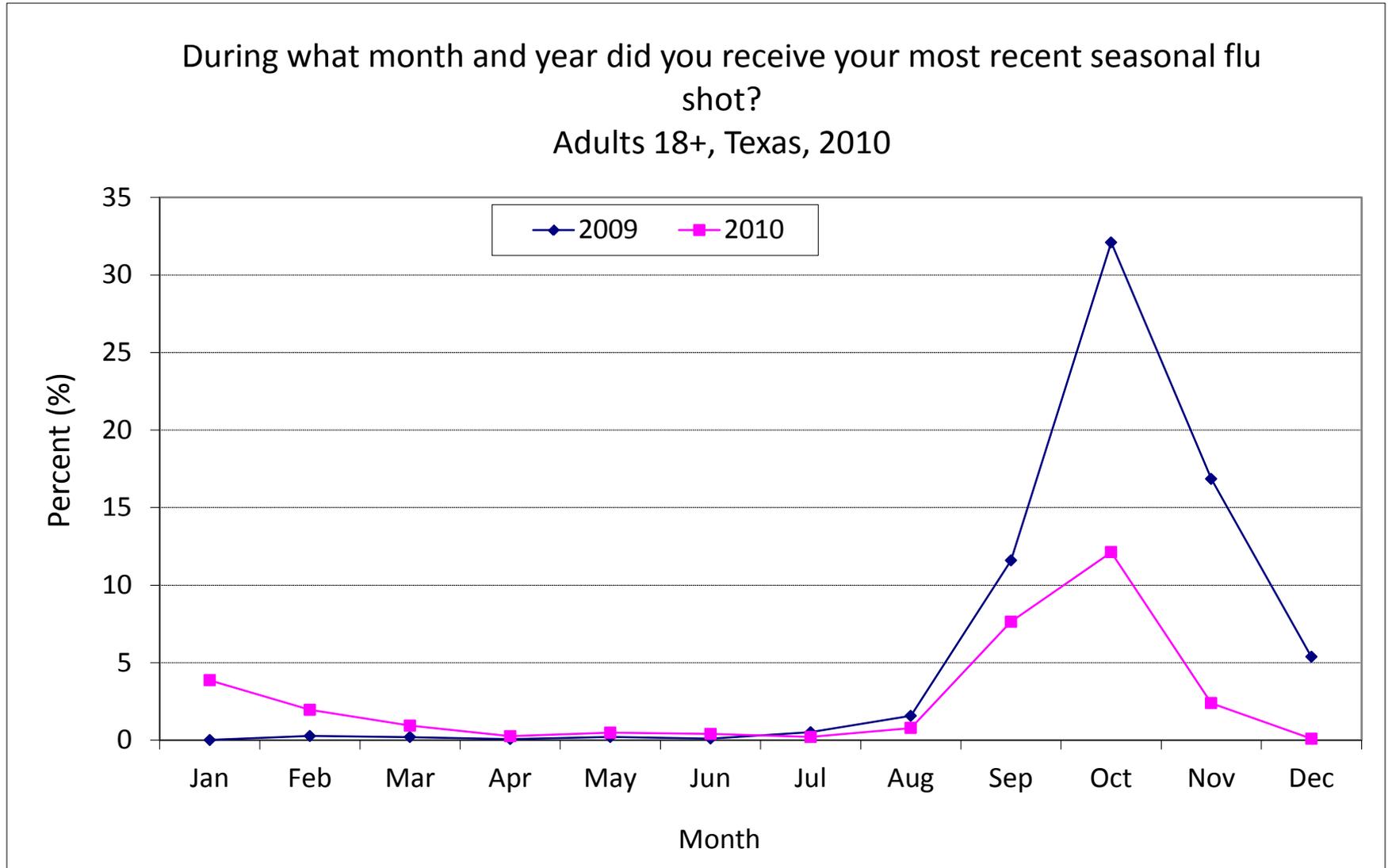
Flu Vaccination Among Pregnant Women Ages 18-45, Texas, 2010



Month Receiving Flu Vaccine

During what month and year did you receive your most recent seasonal flu shot?

Adults 18+, Texas, 2010



Vaccine Preventable Disease and Influenza Data

Questions & Answers

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Resources

Texas Department of State Health Services has a dedicated flu webpage at www.texasflu.org

Texas weekly flu report

<http://www.dshs.state.tx.us/idcu/disease/influenza/>

Sign up to receive e-mail notifications for the Texas flu report at:

<http://www.dshs.state.tx.us/idcu/disease/influenza/surveillance/2012/>

Texas Department of State Health Services-Immunization Branch

<http://www.dshs.state.tx.us/immunize/default.shtm>

Texas Department of State Health Services, BRFSS Home Page

<http://www.dshs.state.tx.us/chs/brfss/>

