



Texas Department of State
Health Services

Immunization Update

2017 Texas Immunization Conference

Agenda



Texas Department of State
Health Services

- NIS Child and Teen Coverage Levels
- Adult Program Updates
- TVFC Influenza Updates
- TVFC Program Updates



Texas Department of State
Health Services

CDC National Immunization Survey

Childhood Coverage Levels

2016 NIS-Childhood Overview



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- The 2016 survey assessed children who were born between January 2013 and February 2015.
- The NIS-Child uses a random-digit-dialed sample of telephone numbers followed by a mail survey of the children's vaccination providers to collect immunization information.
- NIS-Child results can be compared to the Healthy People 2020 (HP 2020) goals for immunization coverage among children.
- For 2016, coverage rates were reported for US, Texas, and the selected jurisdictions of Bexar County, City of Houston, Dallas County, and El Paso County.

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2016 NIS-Childhood Overview



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The following vaccine doses routinely recommended for children 19-35 months were measured in the 2016 NIS-Child:

- Diphtheria and tetanus toxoids and acellular pertussis vaccine (DTaP/DT/DTP)
- Poliovirus vaccine (Polio)
- Measles or Measles-Mumps-Rubella vaccine (MMR)
- Haemophilus influenzae type b vaccine (Hib)
- Hepatitis B vaccine (HepB)
- Varicella vaccine (Var)
- Pneumococcal conjugate vaccine (PCV)
- Rotavirus vaccine (ROT)
- Hepatitis A vaccine (HepA)
- Influenza vaccine (reported separately through NIS-Flu)
- 4:3:1:3:3:1:4* series

*4+ DTaP, 3+ polio, 1+ MMR, 3 or 4 doses Hib, depending on vaccine type, 3+ HepB, 1+ Var, and 4+ PCV⁵

2016 NIS-Childhood Results



Texas Department of State Health Services

- In 2016, there were no statistically significant increases or decreases in immunization coverage for any vaccines in 2016.
- Immunization coverage rates for the Texas population are comparable to the rates seen nationwide.
- Immunization coverage rates in the selected Texas jurisdictions were similar to nationwide and statewide coverage rates except for HepB birth dose coverage in El Paso County which was significantly higher than both state and national coverage at 85.4 percent.

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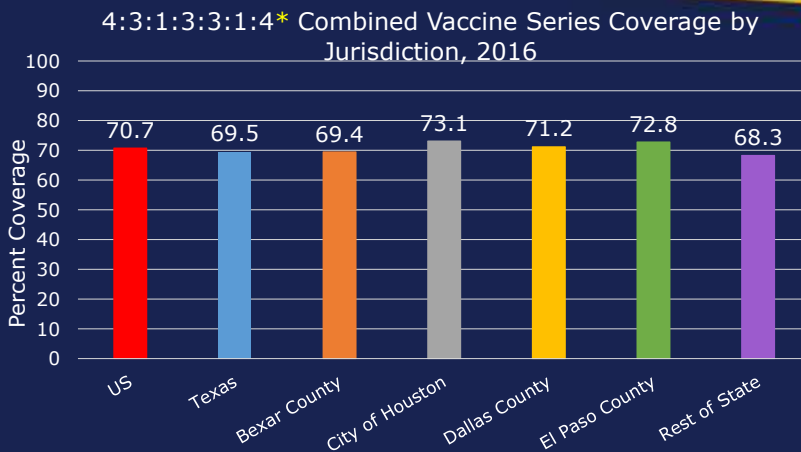
2016 NIS-Childhood Results



Vaccine	U.S. National Average 2016	Texas 2015	Texas 2016	2015 to 2016 Texas Change (+/-)
≥4 doses of DTaP	83.4%	82.1%	81.3%	-0.8%
≥3 doses of Polio	91.9%	92.5%	90.1%	-2.4%
≥1 dose of MMR	91.1%	92.5%	89.8%	-2.7%
Hib [†]	81.8%	80.4%	80.0%	-0.4%
≥3 doses of HepB	90.5%	90.7%	88.3%	-2.4%
HepB birth dose [§]	71.7%	76.4%	75.2%	-1.2%
≥1 dose of Var	90.6%	92.3%	90.4%	-1.9%
≥4 doses of PCV	81.8%	83.3%	82.4%	-0.9%
≥2 doses of HepA	60.6%	64.6%	60.5%	-4.1%
Rotavirus [¶]	74.1%	75.7%	72.7%	-3.0%
4:3:1:3 [†] :3:1:4 series [*]	70.7%	71.2%	69.5%	-1.7%

*4+ DTaP, 3+ polio, 1+ MMR, 3 or 4 doses Hib, depending on vaccine type, 3+ HepB, 1+ Var, and 4+ PCV

2016 NIS- Childhood Results (Texas Sites)



*4+ DTaP, 3+ polio, 1+ MMR, 3 or 4 doses Hib, depending on vaccine type, 3+ HepB, 1+ Var, and 4+ PCV

Progress Toward Health People 2020 Goal



Texas Department of State Health Services

Vaccine	HP2020 Coverage Goal	Texas Coverage 2016	U.S. Coverage 2016	Texas 2016 Outcome	U.S. 2016 Outcome
DTaP	90%	81.3%	83.4%	Not Reached	Not Reached
Polio	90%	90.1%	91.9%	Reached	Reached
MMR	90%	89.8%	91.1%	Not Reached	Reached
Hib	90%	80.0%	81.8%	Not Reached	Not Reached
HepB	90%	88.3%	90.5%	Not Reached	Reached
HepB birth dose	85%	75.2%	71.7%	Not Reached	Not Reached
Varicella	90%	90.4%	90.6%	Reached	Reached
PCV	90%	82.4%	81.8%	Not Reached	Not Reached
HepA	85%	60.5%	60.6%	Not Reached	Not Reached
Rotavirus	80%	72.7%	74.1%	Not Reached	Not Reached
4:3:1:3:3:1:4 Series	80%	69.5%	70.7%	Not Reached	Not Reached



Texas Department of State Health Services

CDC National Immunization Survey

Teen Coverage Levels

2016 NIS-Teen Overview



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- The 2016 survey assessed children who were born between January 1998 and February 2004 (for teens 13-17 years of age)
- Population-based, random-digit-dial sample of phone numbers followed by reviewing the child's vaccination record from the provider
- Provides a "Report Card" on national and state estimates
- Assesses coverage of 3 key recommended teen vaccines (including breakdown of number of doses by gender for HPV)

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2017 Recommended Schedule (7-18 Years Old)



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INFORMATION FOR PARENTS

2017 Recommended Immunizations for Children 7-18 Years Old

Talk to your child's doctor or nurse about the vaccines recommended for their age.

	Flu Influenza	Tdap Tetanus, diphtheria, pertussis	HPV Human papillomavirus	Meningococcal		Pneumococcal	Hepatitis B	Hepatitis A	Inactivated Polio	MMR Measles, mumps, rubella	Chickpox Varicella
				MenACWY	MenB						
7-8 Years	Green	Orange		Purple		Purple	Orange	Purple	Orange	Orange	Orange
9-10 Years	Green	Orange	Blue	Purple	Purple	Purple	Orange	Purple	Orange	Orange	Orange
11-12 Years	Green	Orange	Blue	Purple	Purple	Purple	Orange	Purple	Orange	Orange	Orange
13-15 Years	Green	Orange	Blue	Purple	Purple	Purple	Orange	Purple	Orange	Orange	Orange
16-18 Years	Green	Orange	Blue	Purple	Purple	Purple	Orange	Purple	Orange	Orange	Orange

2016 NIS-Teen Overview



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- In 2016, Texas experienced small decreases in coverage rates in all immunizations with the exception of male HPV coverage which increased slightly
- A statistically significant decrease was observed for ≥ 1 dose of meningococcal-vaccine (MenACWY) vaccine coverage in Texas adolescents. In 2015, 89.6 percent of adolescents in Texas had initiated the MenACWY series, and in 2016 coverage decreased to 85.5 percent.
- In 2016, Texas coverage for ≥ 2 doses of MMR was 83.5 percent. Texas coverage for MMR was below the national average of 90.9 percent.

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2016 NIS-Teen Overview



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Vaccine	Texas 2015	Texas 2016	2015-2016 Texas % Point Change (+/-)	U.S. National Average 2016
≥ 1 dose of (Tdap)	85.1%	85.0%	-0.1%	88.0%
≥ 1 dose of meningococcal conjugate	89.6%	85.5%	-4.1%	82.2%
≥ 2 dose of Measles, Mumps, and Rubella (MMR)	84.7%	83.5%	-1.2%	90.9%

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2016 NIS-Teen Overview



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- Texas coverage for ≥ 1 dose of HPV vaccine for males was 44.3 percent, an increase of 2.9 percentage points from 2015.
- Texas coverage for HPV UTD vaccine series for males was 26.5 percent
- Texas coverage for ≥ 1 dose of HPV vaccine for females was 54.5 percent and HPV UTD vaccine for females was 39.7 percent. Texas coverage was lower than the national averages for these measures (65.1 percent and 49.5 percent respectively).

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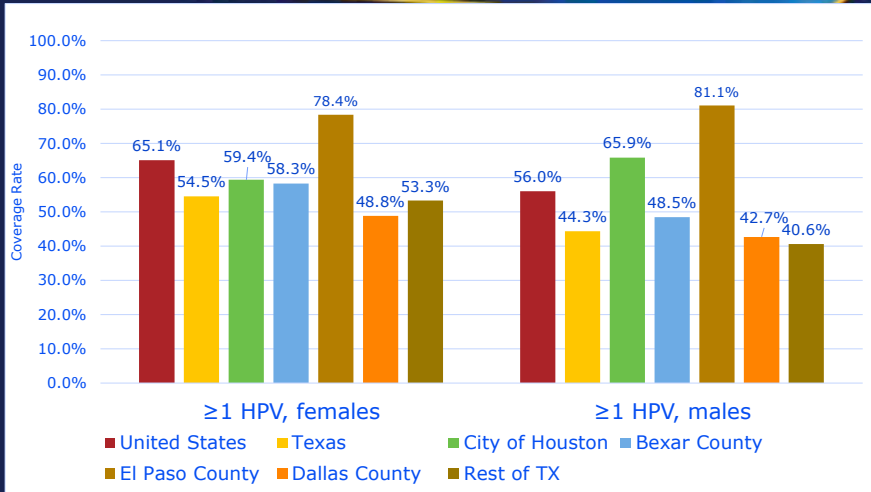
2016 NIS-Teen Overview



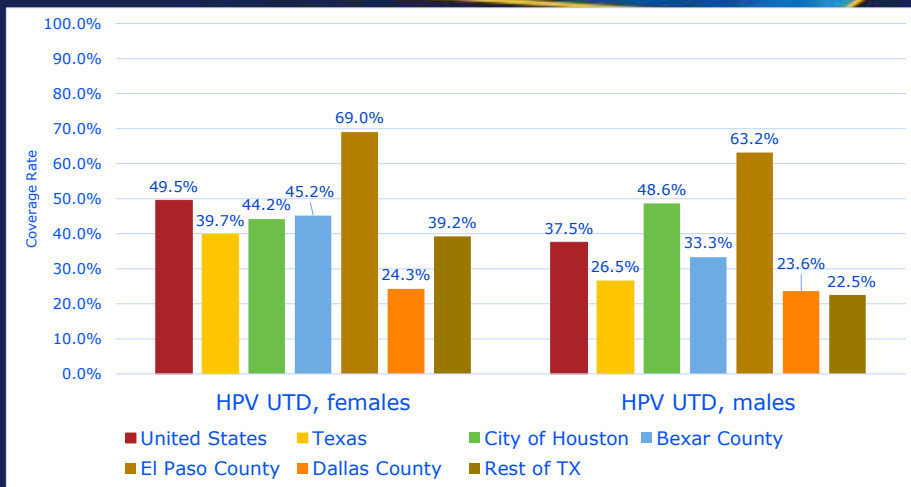
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Vaccine	Texas 2015	Texas 2016	2015-2016 Texas % Point Change (+/-)	U.S. National Average 2016
≥ 1 dose of human papillomavirus (HPV)	50.6%	49.3%	-1.3%	60.4%
Human papillomavirus Up-To-Date (HPV UTD) ^a	-	32.9%	N/A	43.4%
≥ 1 dose of human papillomavirus (HPV), females	60.1%	54.5%	-5.6%	65.1%
HPV UTD, females ^a	-	39.7%	N/A	49.5%
≥ 1 dose of HPV, males	41.4%	44.3%	2.9%	56.0%
HPV UTD, males	-	26.5%	N/A	37.5%

Teen Immunization Coverage Estimate for ≥1 Dose of HPV by Sex in the U.S., Texas, and Select Jurisdictions, 2016



Teen Immunization Coverage Estimate for HPV UTD in the U.S., Texas, and Select Jurisdictions, 2016



Adolescent Immunizations



Texas Department of State Health Services

- CDC Priority (especially HPV vaccination)
- 5 vaccines ACIP recommended (11-18)
 - Tdap (added in 2006; TX 1 dose required)
 - Meningococcal
 - MCV4 (added to VFC in 2006; TX 1 dose required, 1 recommended)
 - Men B (added to VFC 2016; 2 or 3 doses)
 - HPV (added to VFC in 2006; 2 or 3 doses)
 - Influenza
- Efforts to increase non-required school immunizations
 - State efforts
 - Regional/local efforts

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Adolescent Immunizations



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- 16-18 year old has additional vaccine recommendations
 - MCV4 dose #2 (prior to 19 for college requirement)
 - Men B dose #1 and dose #2
 - HPV 2 or 3 dose catch-up/completion
 - Annual Influenza
- Opportunities to target age group prior to 19 year critical to successful completion of all adolescent vaccines

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TEXAS Health and Human Services
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Adult Immunizations

Background and Analysis

Recommended Adult Immunization Schedule 2002-2003



TEXAS Health and Human Services
Texas Department of State Health Services

FIGURE 1. Recommended adult immunization schedule — United States, 2002–2003

Vaccine	Age group (yrs)		
	19–49	50–64	≥65
Tetanus, diphtheria (Td)*	1 dose booster every 10 years [†]		
Influenza	1 dose annually for persons with medical or occupational indications or household contacts of persons with indications [‡]	1 annual dose	
Pneumococcal (polysaccharide)	1 dose for persons with medical or other indications (1 dose revaccination for immunosuppressive conditions) ^{†***}		1 dose for unvaccinated persons [§] 1 dose revaccination ^{**}
Hepatitis B*	3 doses (0, 1–2, 4–6 months) for persons with medical, behavioral, occupational, or other indications ^{††}		
Hepatitis A	2 doses (0, 6–12 months) for persons with medical, behavioral, occupational, or other indications ^{§§}		
Measles, mumps, rubella (MMR)*	1 dose if MMR vaccination history is unreliable; 2 doses for persons with occupational, geographic, or other indications ^{†††}		
Varicella*	2 doses (0, 4–8 weeks) for persons who are susceptible ^{***}		
Meningococcal (polysaccharide)	1 dose for persons with medical or other indications ^{†††}		

For all persons in this age group
 For persons with medical/exposure indications
 Catch-up on childhood vaccinations

<https://www.cdc.gov/mmwr/preview/mmwrhtml/mm5140a5.htm>

Recommended Adult Immunization Schedule 2017



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Figures 1 and 2 should be read with the footnotes that contain important general information and considerations for special populations.

Figure 1. Recommended immunization schedule for adults aged 19 years or older by age group, United States, 2017

Vaccine	19–21 years	22–24 years	25–59 years	60–64 years	≥ 65 years
Influenza ¹	1 dose annually				
Td/Tdap ²	Substitute Tdap for Td doses, then Td booster every 10 yrs				
MMR ³	1 or 2 doses depending on indication				
MMR ⁴	2 doses				
HZV ⁵	1 dose				
HPV–Female ⁶	3 doses				
HPV–Male ⁶	4 doses				
PCV13 ⁷	1 dose				
PPSV23 ⁸	1 or 2 doses depending on indication				
HepA ⁹	2 or 3 doses depending on exposure				
HepB ⁹	3 doses				
MenACWY or MPSV4 ¹⁰	1 or more doses depending on indication				
MenB ¹¹	2 or 3 doses depending on exposure				
ShiV ¹²	1 or 2 doses depending on indication				

Recommended for adults who meet the age requirement, lack documentation of vaccination, or lack evidence of past infection
 Recommended for adults with additional medical conditions or other indications
 Not recommended

<https://www.cdc.gov/vaccines/schedules/downloads/adult/adult-combined-schedule.pdf>

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Updates to Adult Immunization Schedule



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- 2017 Adult Schedule (now 6 pages)
 - General Recommendations Review
 - Chart with Recommended Immunization Schedule
 - Chart with vaccines cross-linked with medical conditions
 - Footnotes for recommendations (2 pages)
 - Contraindications and Precautions for adult vaccines
- 2002 schedule: 7 vaccines
- 2017 schedule: 15 vaccines

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Uninsured Adults 18-64 Years of Age

Uninsured Adults 18-64 Years of Age in Texas

HSR	Population	Uninsured	% Uninsured
1	497,865	125,559	25.20%
2/3	4,803,752	1,167,520	24.30%
4/5N	840,797	220,156	26.20%
6/5S	4,354,478	1,134,982	26.10%
8	1,668,138	389,506	23.30%
7	1,997,730	426,138	21.30%
9/10	865,993	251,264	29.00%
11	1,247,546	486,259	39.00%
Texas	16,276,299	4,201,384	25.80%

²⁵
*Source: 2014 Small Area Health Insurance Estimates Program, US Census Bureau

Adult Immunization Coverage Levels- 2015 Texas BRFSS

Vaccine	Coverage Level (%)
Adult Flu: All Ages	38.3
Adult Flu: 65+	66.2
Tetanus, diphtheria, and pertussis (Tdap)	21.2
Pneumococcal	34.7
Pneumococcal: 65+	70.9
Measles, Mumps, Rubella (MMR)	59.1
HPV: 1 or more doses	13.3

DSHS Adult Immunization Activities



- DSHS Adult Program
 - 9 Program staff (1 in central office and 8 in regions)
 - Printing/education budget \$450,000
 - PPHF Adult Program
 - Adult Site Visits and ImmTrac2 Reporting
- Adult Safety Net (ASN) Program
 - State and Federal Vaccine Budget: \$11 million
 - Public clinics, FQHC, RHC, substance abuse and STD/HIV
 - Uninsured clients only

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Adult Safety Net (ASN) Program


May 2003 – Present
14 Years of Service

Since its initial inception as a limited Hepatitis B initiative, to its current status as a program that supplies adult vaccines at no cost to a network of **516** providers, the ASN Program has evolved into one of the major factors in improving adult vaccination rates in Texas today.

Was a program that served uninsured and underinsured adults, now just uninsured

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Adult Safety Net (ASN) Overview

- The ASN Program supplies publicly-purchased vaccine at no cost to enrolled providers.
- The aim is to increase access to vaccination services in Texas for uninsured adults.
- Funding for 2014 – 2017 is from State General Revenue and Federal discretionary funds.
- Currently available in DSHS Regional Clinics, Local Health Departments, FQCH/RHCs, STD/HIV Clinics, and other enrolled providers.

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Adult Safety Net (ASN) Overview

- Continue to serve only uninsured adults, 19 years of age and older
- Vaccines currently available include Hepatitis A, Hepatitis B, Combination Hepatitis A/B, MMR, HPV 9, Pneumococcal 13 and 23, Tetanus, Diphtheria, and Pertussis (Td and Tdap), Meningococcal Conjugate (MCV4), and Zoster

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Adult Safety Net Providers (as of September, 2017)



ASN Providers By Type (As of September, 2017)

FQHC/RHC	231
Public Health Department	222
Community Health Center	33
STD/HIV	12
Other	18
Total	516

Adult Safety Net Providers (as of October, 2017)



HSRs	No. of ASN Providers	Adult Doses Admin.
PHR 01	24	5,280
PHR 02	26	1,989
PHR 03	52	21,853
PHR 04	25	4,290
PHR 05	21	7,515
PHR 06	88	43,698
PHR 07	96	25,334
PHR 08	68	12,645
PHR 09	22	3,317
PHR 10	22	11,225
PHR 11	71	31,456
Total	516	168,602

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ASN Doses Administered By Vaccine Type (Jan-Oct, 2017)



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VACCINE	DOSES	% TOTAL
TDAP	49,979	29.64%
HEP B	18,976	11.25%
MMR	18,244	10.82%
MCV4	13,005	7.71%
VAR	12,300	7.30%
HPV	10,511	6.23%
PPSV23	9,658	5.73%
HEP A / B	8,916	5.29%
PCV13	8,108	4.81%
HEP A	7,127	4.23%
ZOS	6,152	3.65%
TD	5,626	3.34%
TOTAL	168,602	100.00% ³³

ASN Program Challenges

- Greatest challenges:
 - Active providers being in-active
 - Difference in vaccines order vs. vaccines in inventory = expiration and waste
 - Lack of 'taking vaccine on the road' to seek out adults
 - Uncertainty of vaccine funding (amount and timeliness from both federal and state)



Texas Department of State Health Services

DSHS Goals to Increase Immunization Rates in Adults

1. Drive demand
2. Recruit additional sites for ASN Program
3. Develop, support and expand infrastructure
4. Develop, strengthen and support robust and effective partnerships
5. Improve and increase vaccine financing and reimbursement
6. Measure and celebrate our success



DSHS VFC Flu Update

DSHS FLU Program

2016-2017 Season In Review



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2016-17 Flu Doses Wasted/Expired



- Total Doses Ordered by DSHS: 2,008,210
- Total Doses Administered by Providers: 1,381,521
- Doses Ordered/Not Administered: 373,290
- DSHS Doses Not Ordered: 253,389
- **Total Doses Wasted/Expired:** 626,679
- Percent Doses Wasted/Expired: 31.21%

Texas VFC Eligible Children (2017): 4,807,252

TVFC Doses Administered: 1,381,521

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DSHS FLU Program

2017-2018 Flu Season



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TVFC Flu Survey Response Rate

Region	# of Providers	# of Responders*	# of Non Responders	% of Response
00 (SA)	164	143	21	87%
01	159	109	50	69%
02	88	80	8	91%
03	618	513	104	83%
04	168	150	18	89%
05	109	89	20	82%
06	394	336	59	85%
07	343	315	28	92%
08	169	143	27	85%
09	103	85	18	83%
10	124	99	25	80%
11	447	384	62	86%
25 (HOUSTON)	328	257	71	78%
Total	3,214	2,703	511	84%

*109 providers (from the responders) opted out of flu vaccine 41

Flu Doses Ordered By Region

Region	Total	% Doses
00	112,130	6.93%
01	39,900	2.46%
02	20,990	1.30%
03	409,850	25.31%
04	56,670	3.50%
05	30,160	1.86%
06	183,670	11.34%
07	185,630	11.47%
08	41,320	2.55%
09	34,630	2.14%
10	61,650	3.81%
11	203,680	12.58%
25	238,730	14.75%
Total	1,619,010	100.00%

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DSHS FLU Program

2017-2018 DSHS Over-book and Round 2 Pre-book



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2017-18 DSHS Flu Doses Ordered

- Total Pediatric Regional pre-book doses: 1,619,810
- Total Pediatric Doses over-ordered: 212,880
- Total Adult Doses (uninsured): 11,000
- TOTAL DSHS Doses Ordered: 1,843,690

- Reduction from 2016-2017: -165,320

- Doses available for second round include
 - Fluzone .5mL single dose syringe
 - Fluzone .25mL single dose syringe
 - Fluarix .5mL single dose syringe

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2017-18 DSHS Flu Timeline

- DSHS HSR Notification (June 23, 2016)
 - 1st Round non-responder list
 - 1st Round reductions/cancellation workbook
- TVFC Provider Notification (June 26, 2017)
 - Amount of doses Pre-booked for Round 1
 - By each vaccine type (9 options in pre-book)
- 2nd Round Pre-book closed on July 17, 2017
 - 196,000 flu doses additionally ordered
- Flu doses allocation began September 5, 2017
- Open ordering for all TVFC Providers for flu vaccine began November 13, 2017

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2017-18 Influenza Allocation Update

As of November 13th

- 1,823,890 influenza doses received by DSHS (99% of total request)
- 1,475,370 doses allocated and received by providers in first and second rounds (90%)
- 99% of TVFC providers have received flu doses
- 1,765 providers have accepted 100% of their flu pre book (65%)

TVFC Open Ordering began Nov 13, 2017

- Available doses for open ordering: 350,000
- Fluzone (.25 and .5), Fluarix, and Flucelvax₄₆

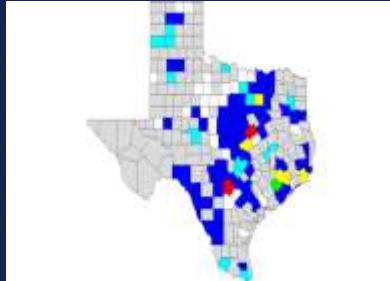
2017-18 Influenza Information Links

- CDC Provides a Weekly Update of Flu Activity in US and States
<https://www.cdc.gov/flu/weekly/>
- Texas weekly Flu Surveillance
<http://www.dshs.texas.gov/idcu/disease/influenza/surveillance/2017/>

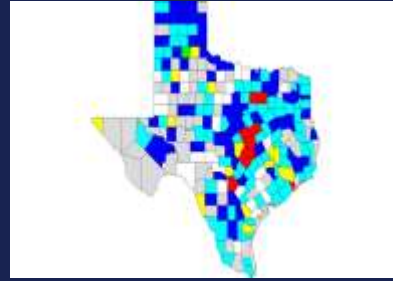
2017-18 Influenza Activity



- Highest Level of ILI Activity Reported by County



September 16, 2017
(MMWR Week 37)



November 11, 2017
(MMWR Week 45)

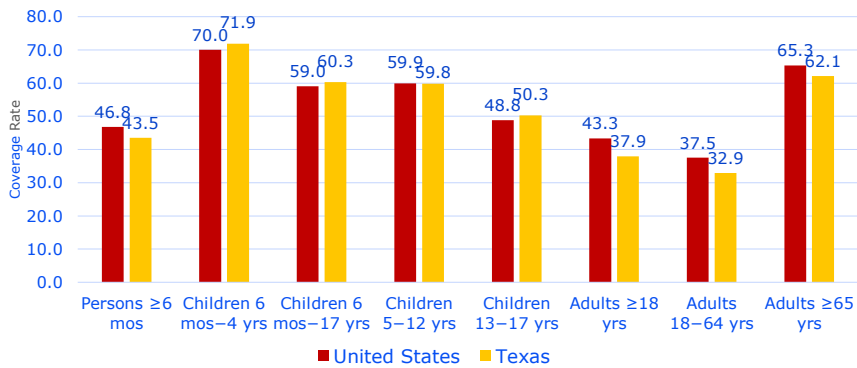
County Influenza Activity Level	
	No information / no reporters
	No activity
	Influenza-like illness only (no laboratory confirmation)
	Rapid test positive flu
	Flu A (confirmed by culture or PCR)
	Flu B (confirmed by culture or PCR)
	Flu A and B (confirmed by culture or PCR)

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Texas Flu Coverage Levels 2016-2017



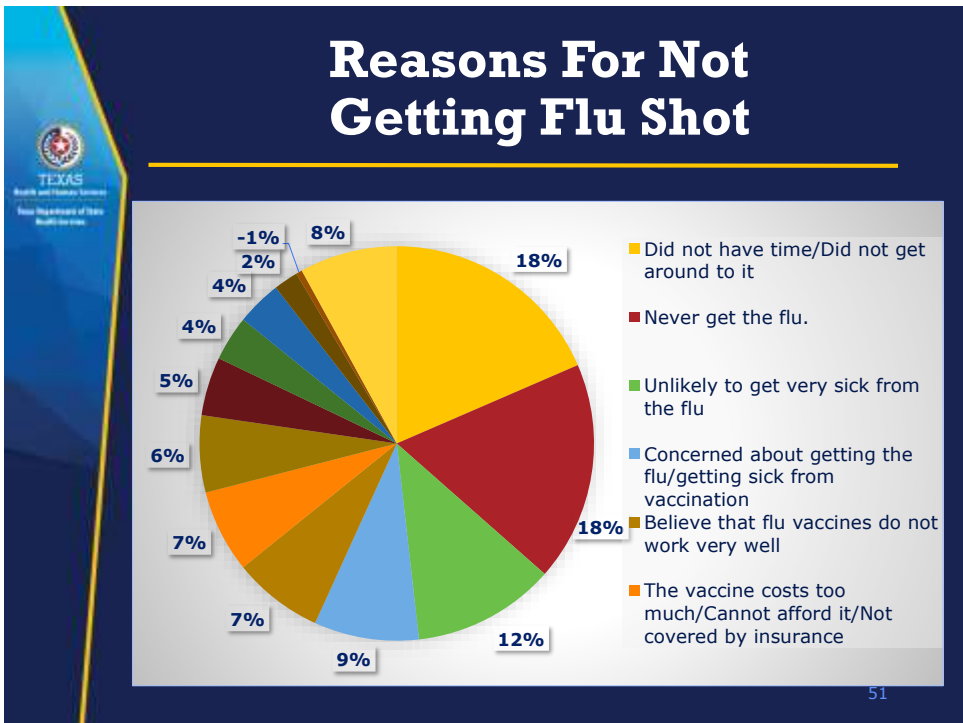
2016-2017 Seasonal Influenza Immunization Coverage in the US and Texas, by Age Group




Texas Flu Coverage Levels 2016-2017

TEXAS	2015-16	2016-17
Persons ≥6 months	47.9	43.5
6 months to 4 years	71.8	71.9
5 years to 12 years	63.0	59.8
13 to 17 years	50.2	50.3
6 months to 17 years	62.1	60.3
Adults ≥ 18	43.2	37.9
Adults 18-64	38.7	32.9
Adults 65+	65.1	62.1

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TVFC Program Updates

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TVFC Provider Re-enrollment for 2018

- TVFC Provider Re-enrollment
 - 2018 TVFC Provider Manual available on line
<https://www.dshs.texas.gov/immunize/tvfc/publications.aspx#provider-manual>
 - Primary and Secondary certification training now available (CDC Modules no longer required)
www.VaccineEducationOnline.org
 - Provider Survey released November 1st and due by November 30th
 - New data logger requirement must be in place 1/1/2018
 - Providers not re-enrolled will have their vaccine ordering capabilities suspended prior to 1/2018

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TVFC Provider Re-enrollment for 2018



- TVFC Provider Re-enrollment
 - Change in age groups providers must report eligible clients
 - Under 1
 - 1-2 > these 2 groups were previously 1-6
 - 3-6
 - 7-18
- Each TVFC sites must have a primary and secondary back-up per site (cannot be primary or secondary to more than 1 site)

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TVFC Doses Needed Per Age Group



- Under 1:
 - Rota, Dtap, Hib, Hep B, PCV 13, IPV,
- 1 year olds:
 - Dtap, Hib, PCV 13, MMR, Varicella, Hep A
- 4 year olds:
 - Dtap, MMR, Varicella, IPV
- 12 year olds
 - MCV4, Tdap, HPV (2 doses if started before 14)
- 16 year olds
 - MCV4, Men B, HPV (3 doses 15+ if not started)

Note: Influenza vaccination annual recommendation for all age groups +6 months

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Thank you

DSHS Immunization Unit

www.ImmunizeTexas.com

1-800-252-9152

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