

**2016**

# **Immunization Coverage Report**



**Utah Department of Health  
Division of Disease Control and  
Prevention  
Immunization Program  
November 2016**

# Immunization Coverage Report

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## Message from the Utah Immunization Program

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The *Immunization Coverage Report, State of Utah: 2016*, supports the mission and goal of state and local immunization programs:

...to improve the health of Utah's citizens through vaccination to reduce illness, disability, and death from vaccine-preventable infections.

This annual *Immunization Coverage Report* provides an overview of immunization information about Utah residents, organized by immunization coverage status for Utah children, adolescents, and adults. The report presents data obtained from three primary sources: the National Immunization Survey (NIS), the Behavioral Risk Factor Surveillance System (BRFSS), and the Utah Statewide Immunization Information System (USIIS). Descriptions of these sources and the methodologies used in data reporting are described in sections below. Because of the differences in the collection methodologies of these data sources, care should be taken before considering comparisons.

This report can be a resource for local immunization programs in evaluating coverage areas, identifying gaps in services, developing immunization intervention strategies, and in considering further investigations.

An ongoing focus of immunization coverage is the infant and early childhood population. According to the 2015 National Immunization Survey (NIS), Utah ranked 43 in the nation for the number of two-year-olds who were fully immunized. The NIS reports an estimate of the number of children 19-35 months of age who have completed the recommended childhood immunization series 4:3:1:4:3:1:4 (4 DTaP, 3 Polio, 1 MMR, 4 Hib, 3 Hepatitis B, 1 Varicella, and 4 Pneumococcal vaccines) by 24 months of age.

Despite improvements in coverage rates in recent years, work remains to achieve the *Healthy People 2020* objective to reduce, eliminate, or maintain elimination of cases of vaccine-preventable diseases. The focus of Utah's Immunization Program continues to be those areas where immunization efforts can be concentrated to affect significant improvements.

Ongoing efforts to increase childhood immunization levels include a variety of interventions, including ensuring that healthcare providers have current information on immunization best practices, implementing a coordination project with the Intermountain Pediatric Society, and enrolling diverse providers in the Utah Statewide Immunization Information System (USIIS). These combined efforts will help to ensure Utah's children are protected from vaccine-preventable diseases now and into the future.

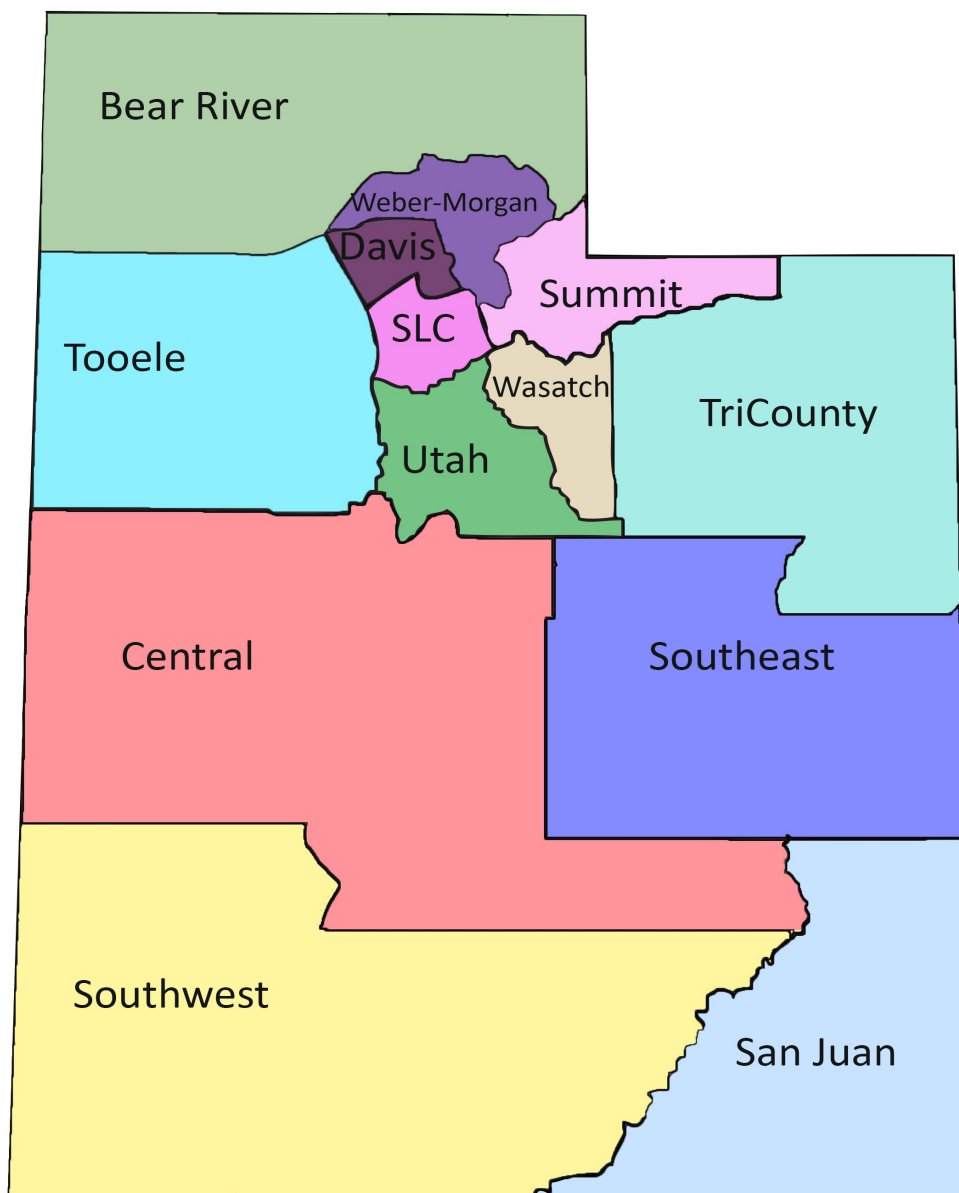
We value your opinion and welcome your feedback about this report.

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Utah’s 13 local health districts (LHDs) that are made up by counties are used in this report as the geographic boundaries of reporting service areas (see map of Utah below). Statewide information is also presented as a comparison. Information within the Immunization Coverage Report is divided into two main categories with detailed information for each: 1) United States and State of Utah, and 2) Local Service Areas. Detailed descriptions of data are included within each of these categories throughout this report.

Although limited comments may follow a specific graph or chart, more detailed notes may be found in the *References Section* that begins on page 141. Explanatory footnotes are provided on some pages and are intended to supply information pertaining to data sources and limitations on data interpretation. Where applicable, county-specific information is presented.



### Early Childhood Immunization

The Advisory Committee on Immunization Practices (ACIP) and the Centers for Disease Control and Prevention (CDC), establish standards of comparison for immunization status. Up-to-date (UTD) at age two is the percentage of children two years of age (24 months) who have received all doses of recommended vaccines by the recommended age. This standard is used across the United States by state immunization programs and provider sites to evaluate their effectiveness in protecting patients from vaccine-preventable diseases.

### Child and Adult Immunization

Exposure to groups of people of any age increases the risks of contracting and transmitting infectious diseases. More than two-thirds of children younger than six years and nearly all children older than six years spend significant time in child care and school settings outside of the home. The Utah Immunization Rule for Students (R396-100) became effective in 1975 to implement consistent requirements to protect children attending school.

#### *School Entry (Kindergarten & 7<sup>th</sup> Grade) & Second Dose MMR (K–12)*

Required kindergarten entry immunizations include: DTaP, Polio, MMR, Hepatitis B, Hepatitis A, and Varicella vaccines. As of May 2007, children entering 7th grade must have: Hepatitis B, Varicella, and Tdap. Children grades K-12 are required to have two doses of the MMR vaccine. As of the 2015/2016 school year, children entering kindergarten are required to have received a second dose of Varicella vaccine, and children entering 7th grade are required to have Meningococcal vaccination.

#### *Influenza and Pneumococcal*

The incidence of childhood vaccine-preventable diseases has declined dramatically, but similar successes among adults have not been achieved yet. Adults still suffer the vast majority of certain vaccine-preventable diseases in the U.S.

The 2015 Behavioral Risk Factor Surveillance System (BRFSS) survey results on influenza and pneumococcal immunization data are included. These data, by means of a number of different analyses, provide a summary of coverage of influenza and pneumococcal vaccinations for adults 18 years of age and older. *Appendix B* includes 2015 immunization information for residents of long-term care and assisted living facilities.

**National Immunization Survey (NIS)**

The NIS is sponsored by the National Center for Immunizations and Respiratory Diseases (NCIRD) and conducted jointly by NCIRD and the National Center for Health Statistics (NCHS), CDC. The NIS is a random-digit-dialing telephone survey of parents followed by a mailed survey to children's immunization providers, contact information supplied by the parents. The survey requests immunization information from the providers. The average sample size per cohort is 400 individuals. For example, in 2013, information for 19-35 month old children was collected for 372 children in Utah; the healthcare providers of 249 of those 372 children had data to verify immunization records. Results are tabulated and presented by the CDC.

In 2014, NIS analysis for the complete 4:3:1:3:3:1 series was updated to provide a more accurate assessment of 'Haemophilus influenzae type B (Hib) vaccination. Past surveys classified the minimum number of Hib doses necessary as complete even though certain brands required more doses; the 2014 survey took into account the Hib vaccine brand, if known, and classified a child as complete only if the appropriate number of doses had been administered. The 2014 results are more accurate and better match methods now used by the CDC. Due to this change, the 2014 and 2015 results for 4:3:1:3:3:1 coverage are not comparable to prior years.

**Behavioral Risk Factor Surveillance System (BRFSS)**

The Utah BRFSS is an ongoing information collection effort by the Utah Department of Health in conjunction with the CDC to assess the prevalence of and trends in health-related behaviors in the non-institutionalized Utah adult population aged 18 years and older. The BRFSS survey is conducted by Utah Department of Health (UDOH) employees by contacting Utahns by landline and cellular telephones and using a script and questionnaire to conduct interviews and collect responses; CDC aggregates annual results. In 2015, 4,174 interviews were conducted by land line phones and 7,553 interviews were conducted by cell phones. The response rate (complete and partially completed interviews divided by completed, partially completed and refused/break-off interviews) was 61.1%.

**Utah Statewide Immunization Information System (USIIS)**

Established in 1998, USIIS collects, consolidates and manages immunization records for Utah residents of all ages. The primary sources of USIIS data are healthcare providers, including public clinics, private clinics and practices, hospitals and pharmacies. Additionally, USIIS obtains birth certificate data from the Office of Vital Records and Statistics. Data are submitted by providers using the USIIS Web application and/or via data interfaces with electronic health record (EHR) systems used by providers. Participation in USIIS is voluntary; not all providers of immunizations participate. However all Vaccines for Children (VFC) providers are required to participate and submission from interfaces from providers' HER systems have increased dramatically in recent years.

For the 2016 Immunization Coverage Report, USIIS patient data were grouped into 13 Local Health District service areas by their most up-to-date zip code and county information. USIIS data queries were performed on September 12, 2016 and reflects statistics as a snapshot in time. The patients included met the following two conditions: 1) have at least one immunization recorded in USIIS—for children under 19 years, 2) have at least one immunization record in USIIS—for adults age 19 and older; and 3) contain non-blank zip code as part of their addresses. Patients not meeting these criteria were excluded.

Count of Enrolled USIIS Providers, Utah, 2016 <sup>6</sup>	Total
Charter Schools	112
Daycares	205
FQHC/RHC/CHC	57
Head Start Centers	35
Hospitals	50
Indian Health Services	19
Local Health Departments	41
Long Term Care/Nursing Home	82
Early Childhood Programs	36
Other Public Providers	55
Pharmacies	444
Private Providers	605
Private Schools	46
Public Schools	579
School Districts	42
Vital Records	1
WIC Program	1



## Estimated Vaccination Coverage\* Among Children Aged 19-35 Months<sup>1</sup>

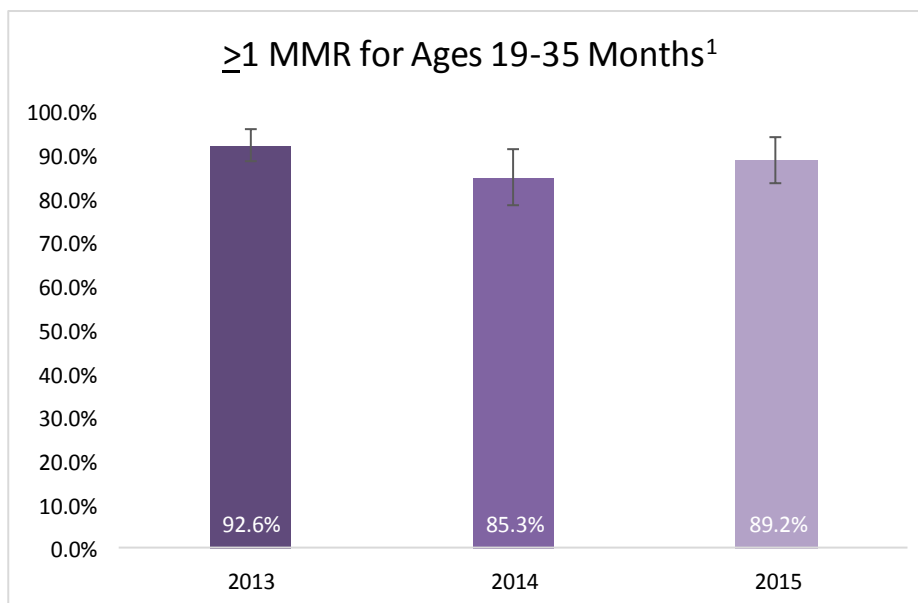
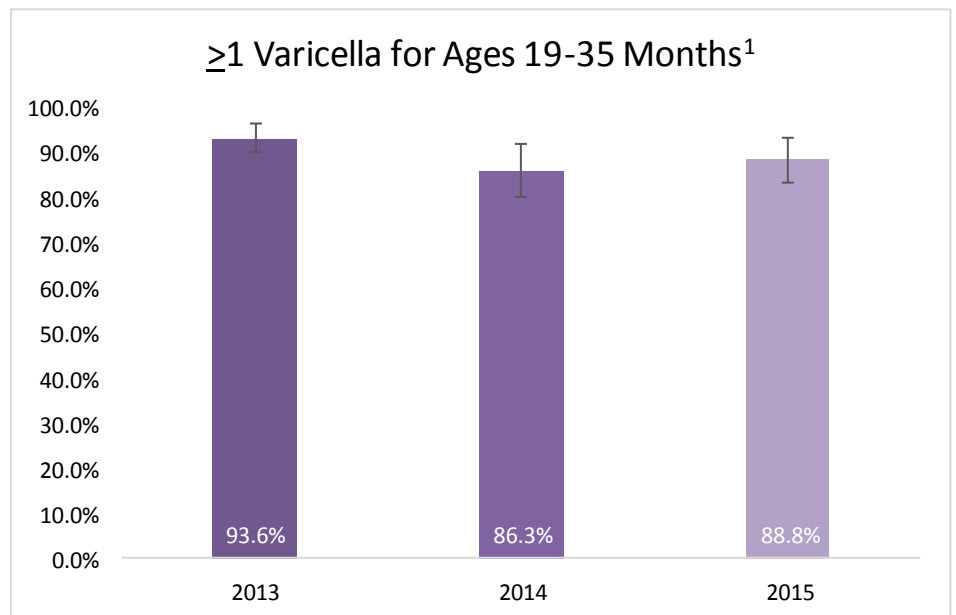
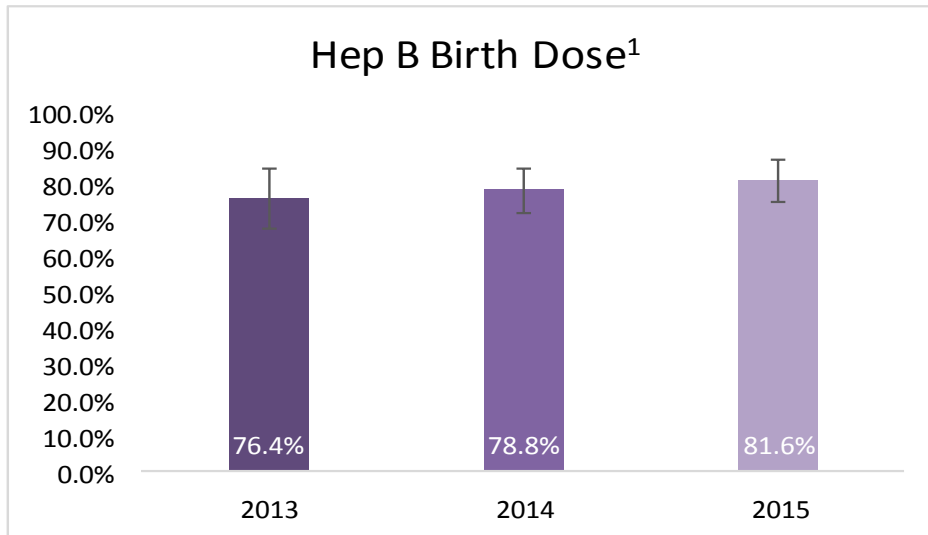


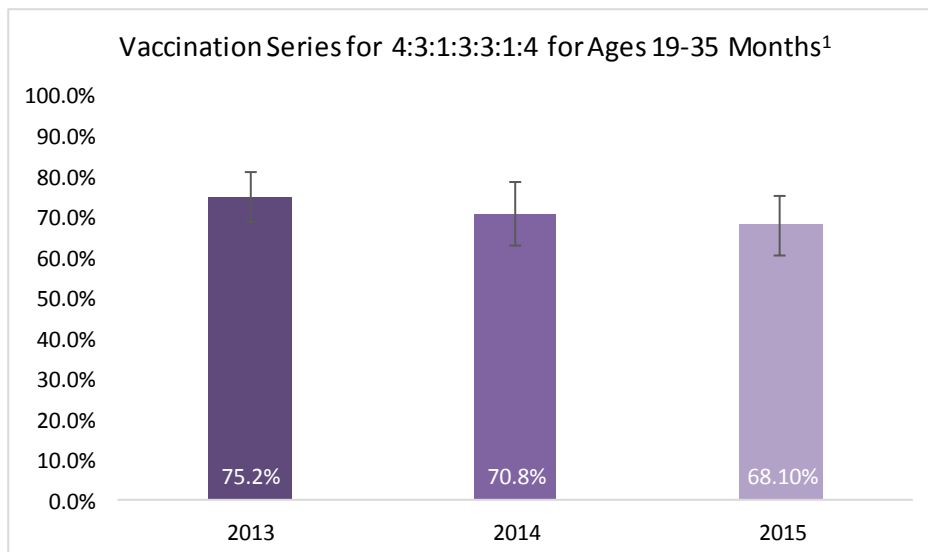
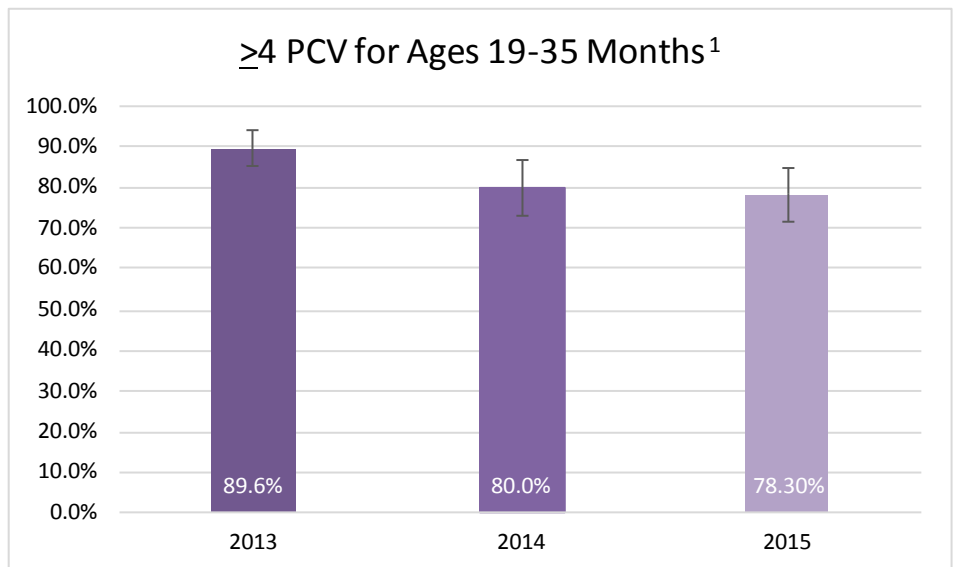
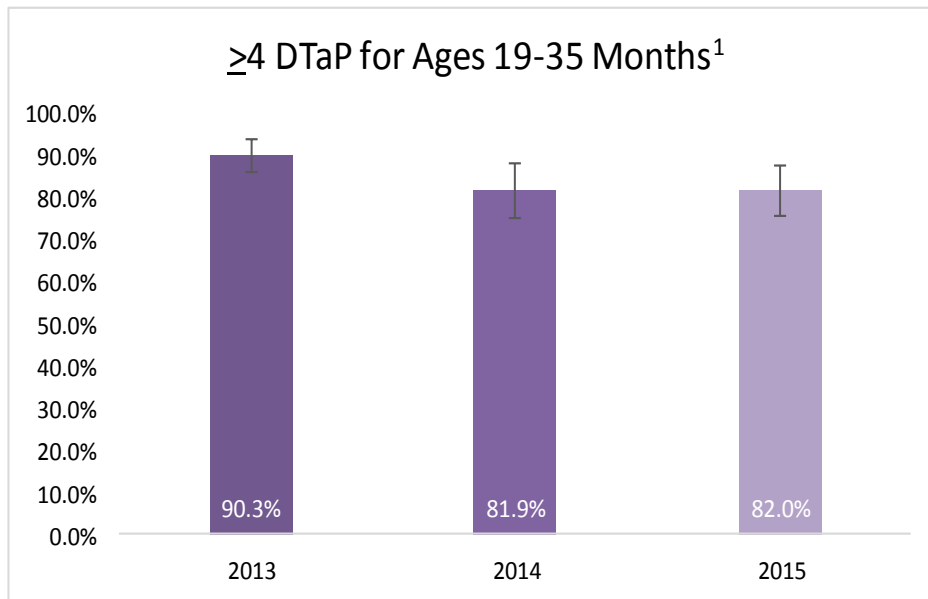
	Utah		U.S.		National Rank-2015 (Utah)
	2014	2015	2014	2015	
≥3 DTaP	90.7±4.9	92.2±4.3	94.7±0.7	95.0±0.6	46
≥4 DTaP	81.9±6.5	82.0±5.8	84.2±1.2	84.6±1.1	40
≥3 Polio	88.9±5.2	92.2±4.3	93.3±0.8	93.7±0.6	38
≥1 MMR	85.3±6.4	89.2±5.2	91.5±0.9	91.9±0.8	46
≥3 Hib	88.6±5.2	89.5±4.9	92.6±0.8	93.2±0.7	44
Hib-Primary Series (PS)	88.9±5.2	91.0±4.6	93.3±0.8	94.3±0.6	45
Hib-Full Series (FS)	78.8±6.9	79.3±6.2	82.0±1.3	82.7±1.1	40
≥3 Hep B	88.3±5.5	91.7±4.3	91.6±0.9	92.6±0.7	36
Hep B Birth dose	78.8±6.9	79.6±6.0	73.2±1.6	73.3±1.4	11
≥1 Varicella	86.3±6.0	88.8±5.0	91.0±0.9	91.8±0.8	44
≥3 PCV	90.6±4.9	92.0±4.2	92.6±0.9	93.3±0.7	37
≥4 PCV	80.0±6.9	78.3±6.6	82.9±1.3	84.1±1.1	46
≥2 Hep A	58.3±8.2	59.8±7.6	57.5±1.6	59.6±1.5	23
Rotavirus	75.7±7.0	74.5±6.7	71.7±1.6	73.2±1.4	23
4:3:1 <sup>§</sup> (Combined 3-vaccine series)	78.9±7.0	79.6±6.3	82.6±1.2	83.2±1.1	41
4:3:1:3 <sup>¶</sup> (combined 4-vaccine series)	75.1±7.4	74.2±6.8	77.7±1.3	77.7±1.3	39
4:3:1:3*:3 <sup>€</sup> (Combined 5--vaccine series)	74.6±7.4	73.6±6.8	75.7±1.4	76.1±1.3	37
4:3:1:3:3:1 <sup>§</sup> (combined 6-vaccine series)	74.6±7.4	73.6±6.8	74.6±1.4	75.1±1.3	34
4:3:1:3:3:1:4 <sup>€€€</sup> (Combined 7-vaccine series)	70.8±7.8	68.1±7.3	71.6±1.5	72.2±1.4	43

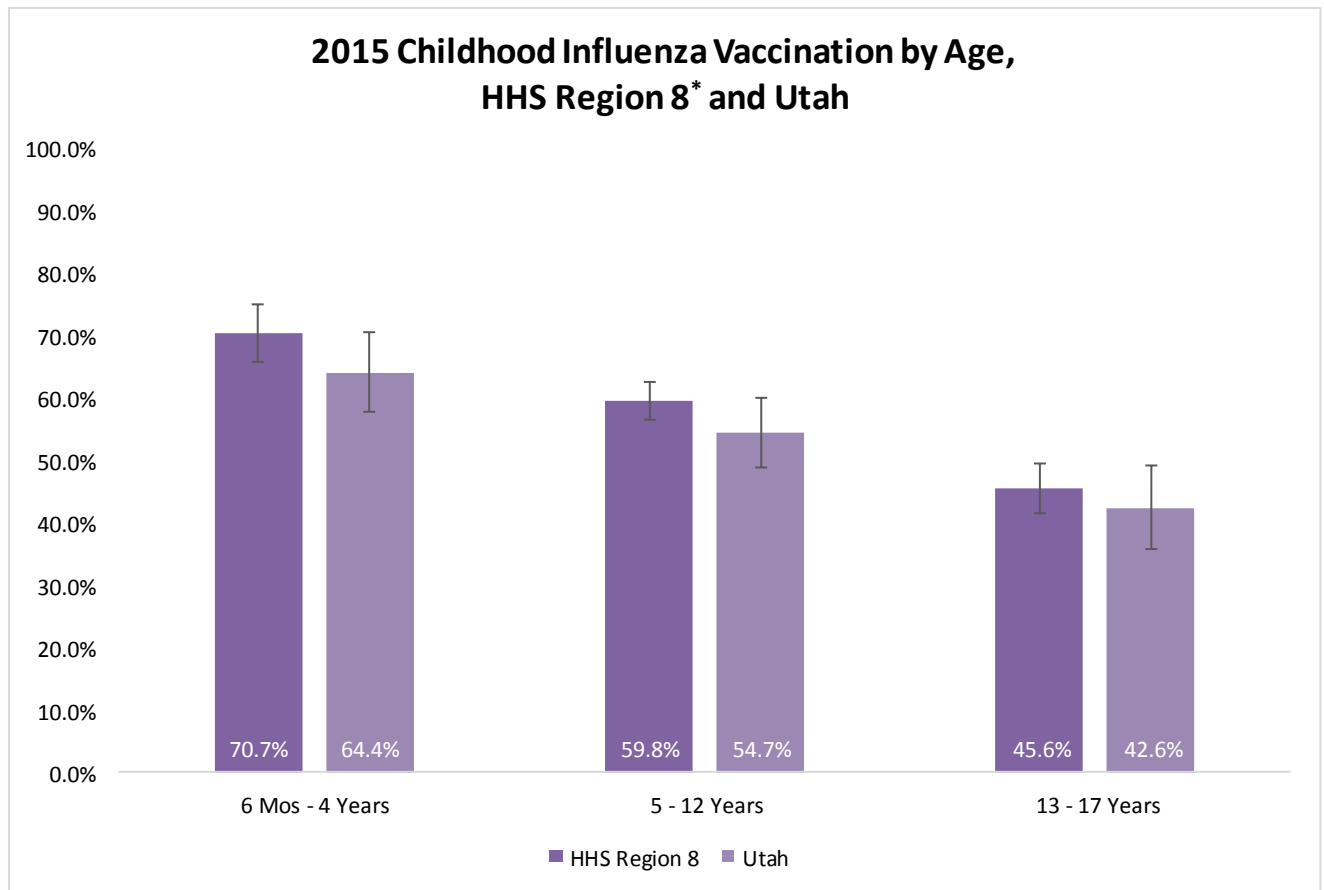
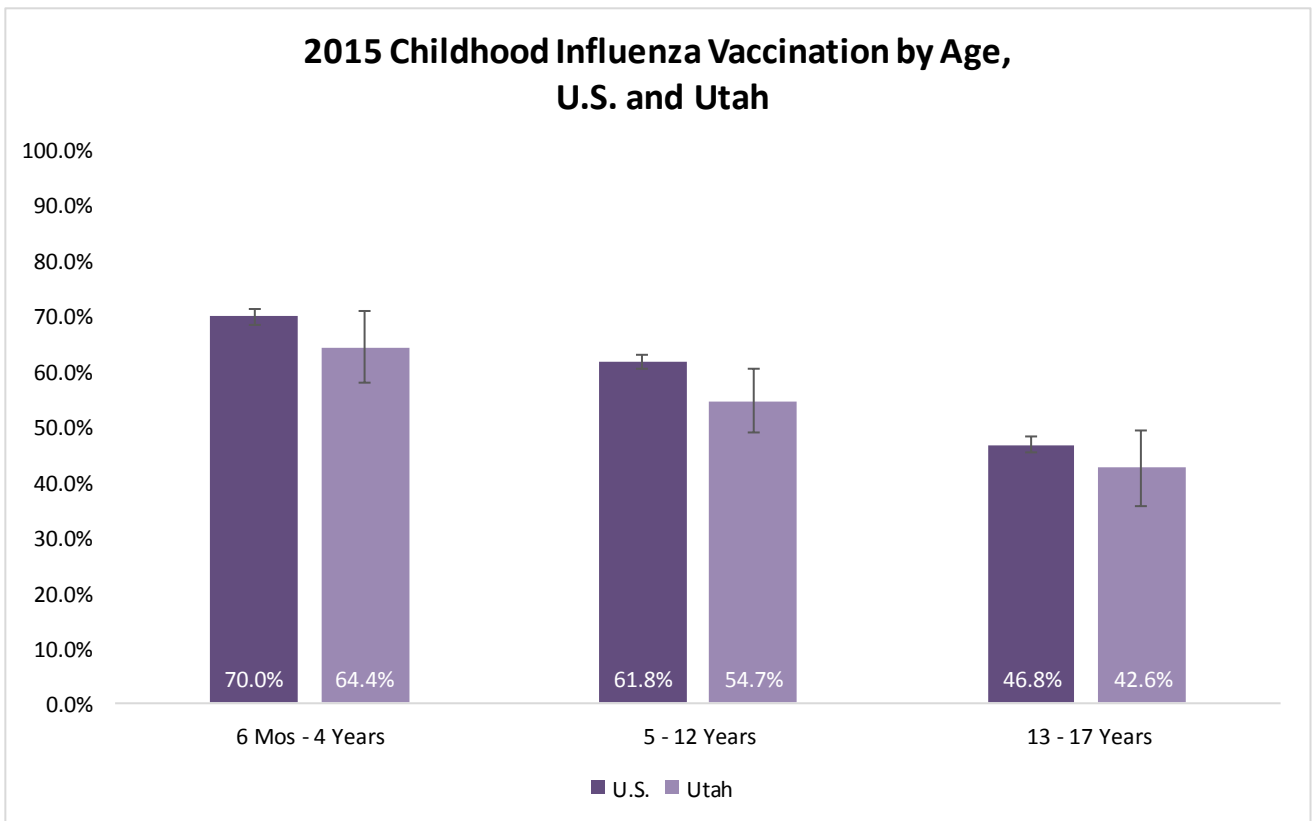
Source: 2014-2015 NIS Among Children 19-35 Months of Age, CDC. <sup>§</sup>4:3:1 = 4+DTaP, 3+Polio, 1+MMR. <sup>¶¶</sup>4:3:1:3\* = 4+DTaP, 3+Polio, 1+MMR, Hib full series. <sup>€</sup>4:3:1:3\*:3 = 4+DTaP, 3+Polio, 1+MMR, full Hib series, 3+HepB. <sup>§§</sup>4:3:1:0:3:1:4 = 0 represents no Hib. <sup>€€€</sup>4:3:1:3:3:1:4 = Same as 4:3:1:3:3:1, adding 4PCV. \*Estimate presented as point estimate(%) ± 95% confidence interval.

Estimated Vaccination Coverage* Among Children Aged 19-35 Months <sup>1,6</sup>		
Vaccine Type	Utah, NIS <sup>1</sup> 2015	Utah, USIIS <sup>6</sup> 2015
≥3 DTaP	92.2±4.3	86.9%
≥4 DTaP	82.0±5.8	71.6%
≥3 Polio	92.2±4.3	84.6%
≥1 MMR	89.2±5.2	86.2%
≥3 Hib	89.5±4.9	84.0%
≥3 Hep B	91.7±4.3	83.9%
Hep B Birth dose	79.3±6.2	81.8%
≥1 Varicella	88.8±5.0	85.1%
≥3 PCV	92.0±4.2	85.6%
≥4 PCV	78.3±6.6	70.8%
≥2 Hep A	59.8±7.6	60.4%
Rotavirus	74.5±6.7	87.3%
4:3:1 <sup>§</sup> (Combined 3-vaccine series)	79.6±6.3	69.6%
4:3:1:3 <sup>¶</sup> (Combined 4-vaccine series)	74.2±6.8	69.1%
4:3:1:3*:3 <sup>€</sup> (Combined 5--vaccine series)	73.6±6.8	67.8%
4:3:1:3:3:1 <sup>§</sup> (Combined 6-vaccine series)	73.6±6.8	67.3%
4:3:1:3:3:1:4 <sup>€€€</sup> (Combined 7-vaccine series)	68.1±7.3	64.0%

<sup>§</sup>4:3:1 = 4+DTaP, 3+Polio, 1+MMR. <sup>¶¶</sup>4:3:1:3\* = 4+DTaP, 3+Polio, 1+MMR, Hib full series. <sup>€</sup>4:3:1:3\*:3 = 4+DTaP, 3+Polio, 1+MMR, full Hib series, 3+HepB. <sup>§§</sup>4:3:1:3\*:3:1 = 4+DTaP, 3+Polio, 1+MMR, full Hib series, 3+HepB, 1+Varicella. <sup>§§§</sup>4:3:1:0:3:1:4 = 0 represents no Hib. <sup>€€€</sup>4:3:1:3:3:1:4 = Same as 4:3:1:3:3:1, adding 4PCV. \*NIS Estimate presented as point estimate(%) ± 95% confidence interval.

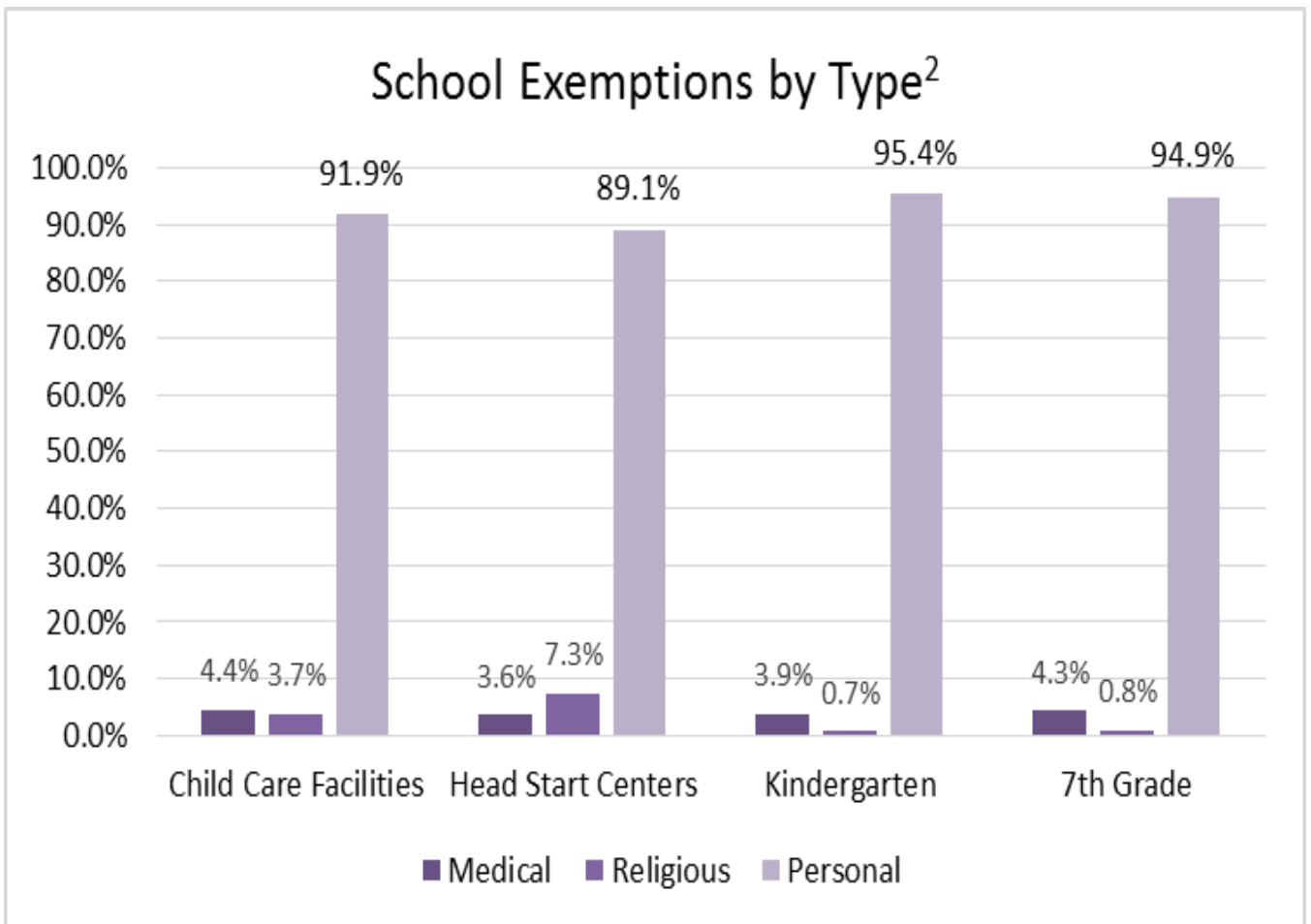




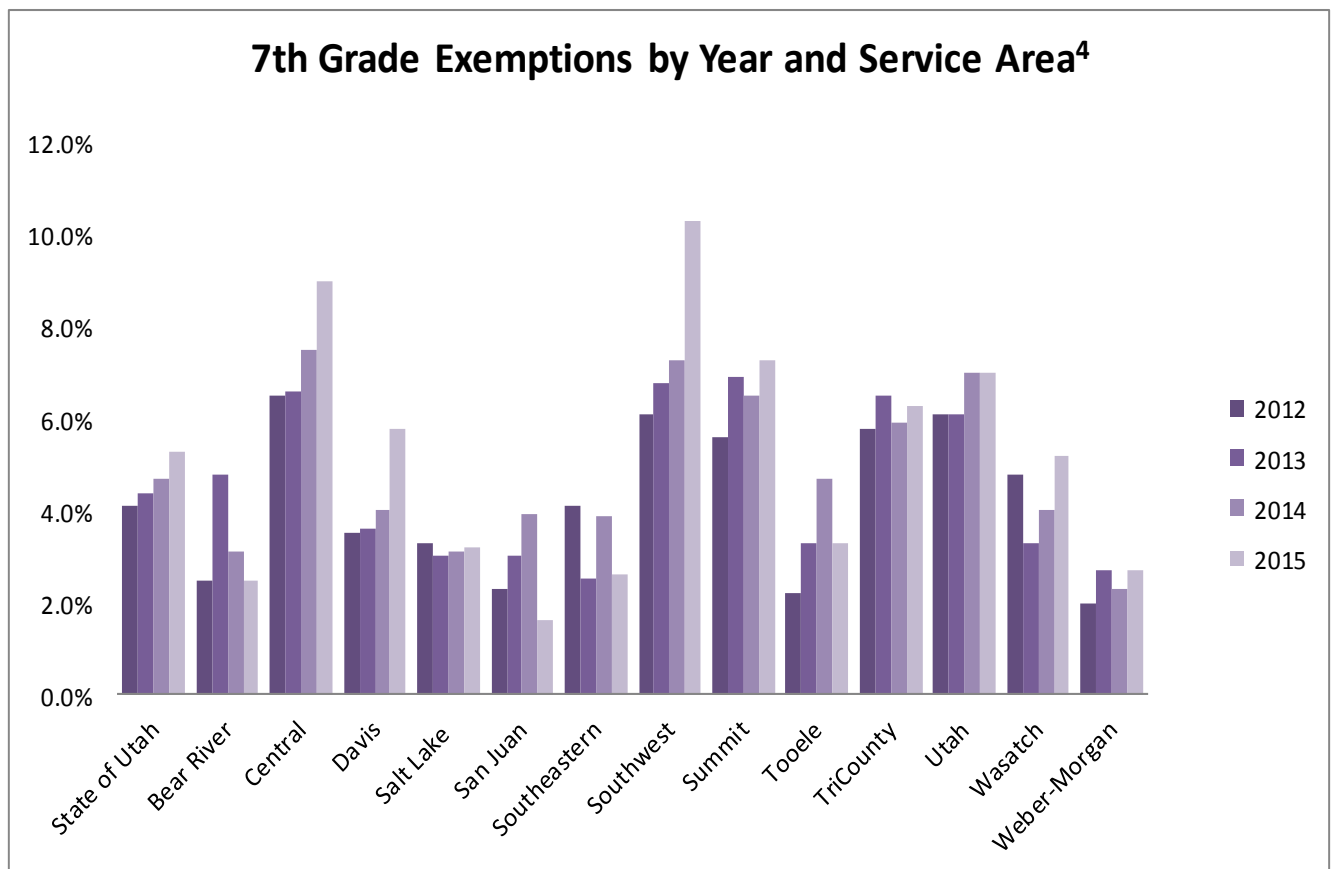
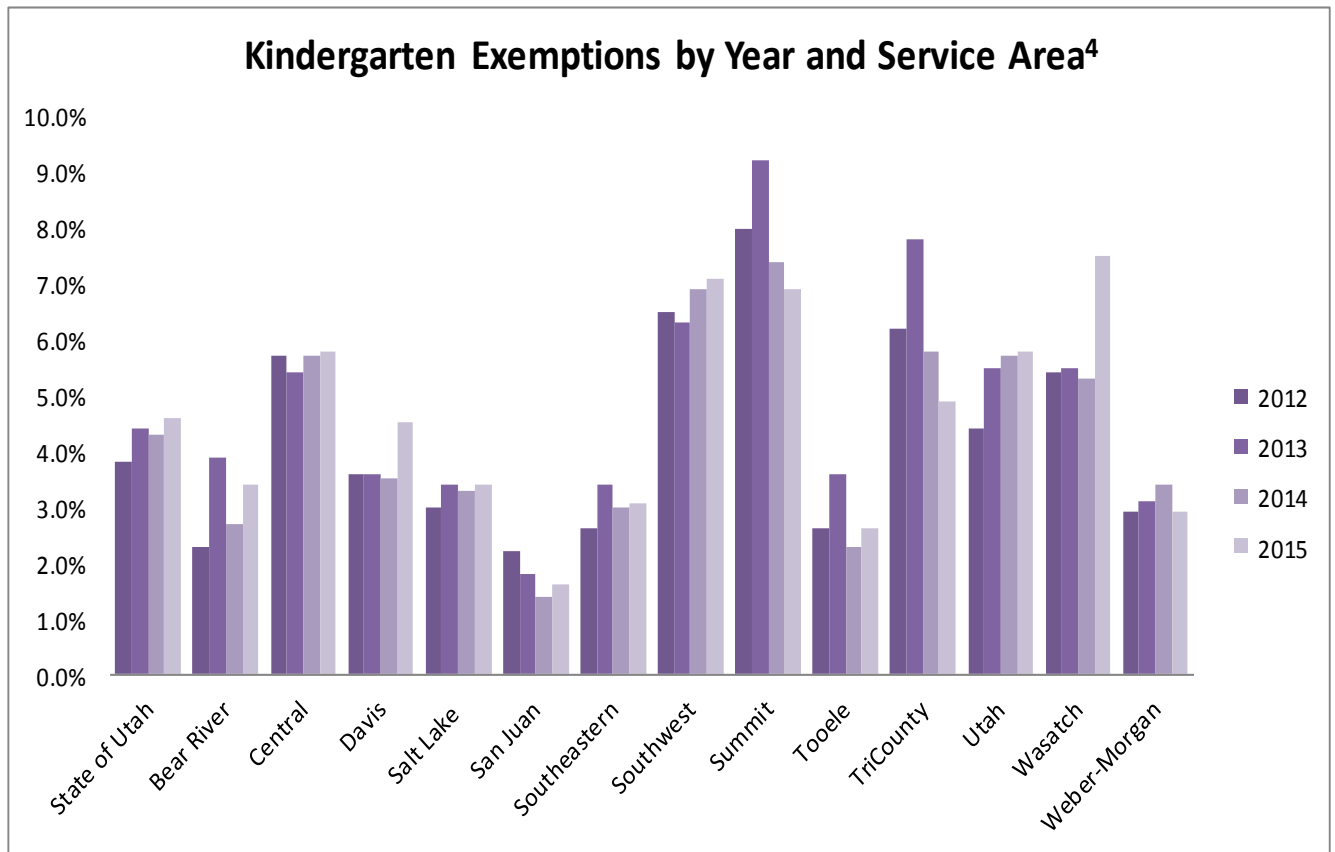


Source: NIS and BRFS, Utah, 2015. Crude Rates. \*Health and Human Services (HHS) Region 8 Includes: CO, MT, ND, SD, UT, and WY.

Percentage of Children Immunized for School, 2015 <sup>2,4</sup>		
Facility Type	Adequately Immunized	Total Exemptions
Child Care Facilities and Preschools	90.2%	3.6%
Head Start Centers	91.2%	1.8%
Kindergarten School Entry	91.3%	4.6%
Second-dose Measles (K-12)	96.0%	3.7%
7th Grade Entry	91.7%	5.3%

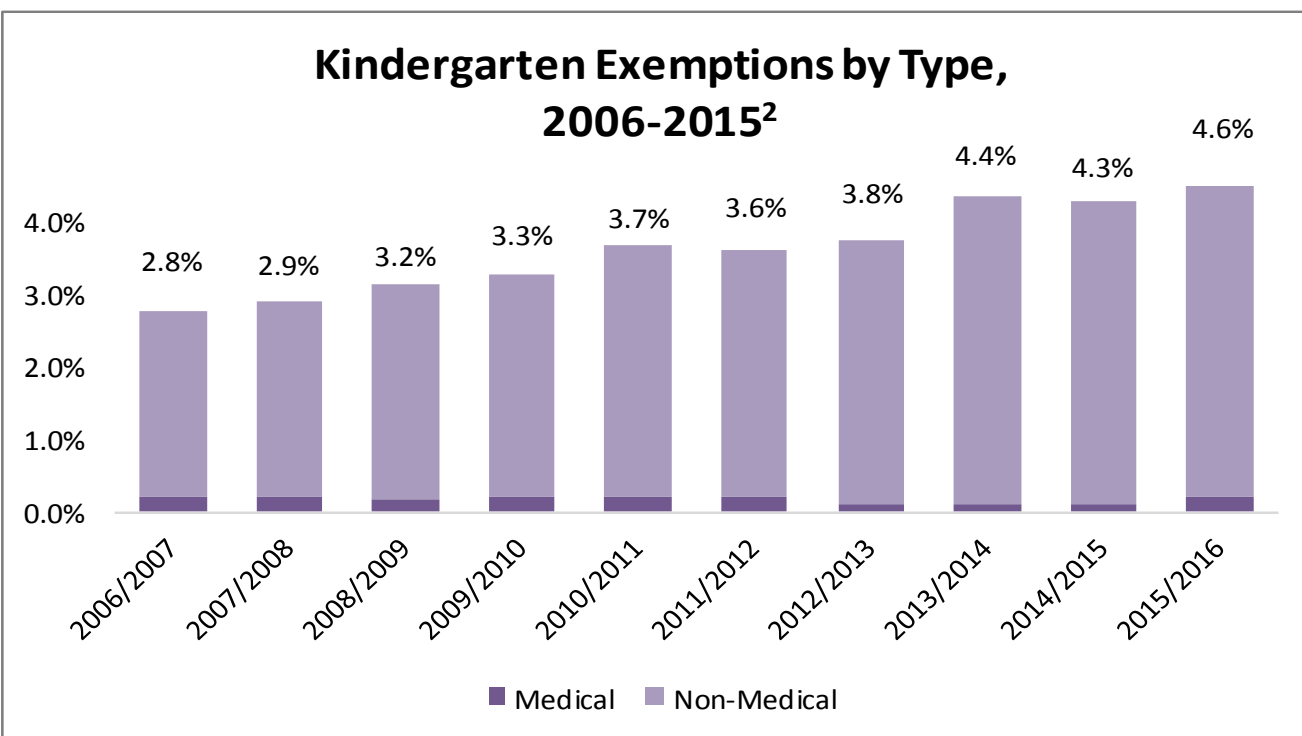
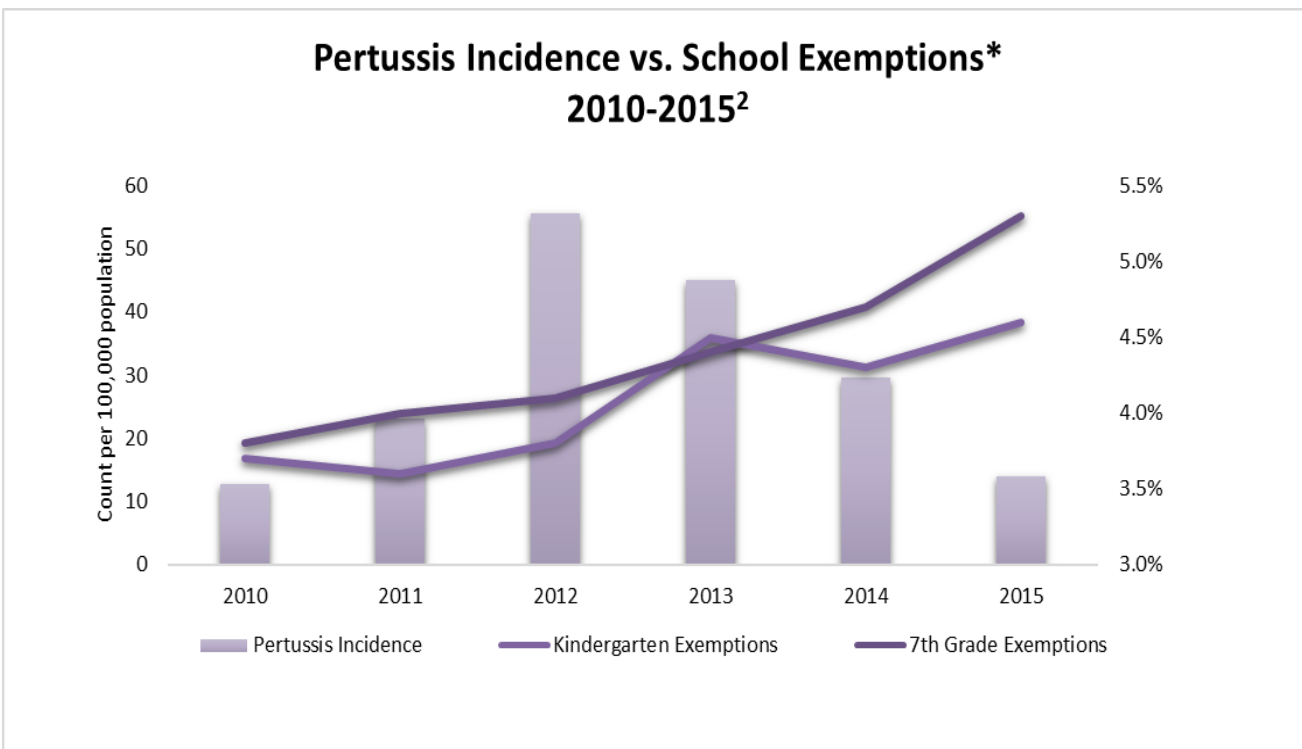


Exemption data are collected from agencies and school districts through electronic reporting to the Immunization Program, Utah Department of Health.



Exemption data are collected from agencies and school districts through electronic reporting to the Immunization Program, Utah Department of Health.

Trends in vaccine-preventable diseases are tracked with the intent that the data can be helpful in developing collaborative immunization campaign efforts. The following pertussis data were provided by the Bureau of Epidemiology, Utah Department of Health, for the State of Utah. Exemption data were obtained from agencies and school districts through electronic reporting to the Immunization Program. **Notes:** Pertussis incidence is an estimate based on numbers reported to date and could be much higher. Exemption data are not specific to DTaP/Tdap—data include exemption rates for all kindergarten and 7th grade vaccines.





Since 2007, the CDC has published NIS data for teen populations. This survey is similar to the childhood NIS. Survey responses are collected via telephone through random-digit dialing. Those who participated were asked to provide healthcare provider information so their verbal responses over the phone could be validated through the official immunization record. Children ages 13-17 years of age were included in the study. Participants were asked about receiving meningococcal conjugate (MCV4), MMR, Hepatitis B, Varicella, Td or Tdap, and HPV vaccines. The CDC identified three limitations to this survey: 1) there could be bias due to non-response and households without landline telephones; 2) underestimation of vaccine coverage may have occurred due to the exclusive use of provider-verified records; and, 3) some state level and race/ethnicity level data should be interpreted with caution because of small sample sizes. Results from this survey have been reported on national and state levels, which can be seen in the tables below.

<b>NIS Teen 2013 Ages 13-17<sup>1</sup></b>		
<b>Vaccine/Vaccine Series</b>	<b>Utah</b>	<b>U.S.</b>
≥1 dose Varicella	91.1±5.1	94.9±0.9
≥1 dose Td or Tdap since age 10 years	88.2±4.7	89.1±0.9
≥1 dose Tdap after age 10 years	86.2±4.9	86.0±0.9
≥1 dose MenACWY	61.0±4.0	77.8±1.1

<b>NIS Teen 2014, Ages 13-17<sup>1</sup></b>		
<b>Vaccine/Vaccine Series</b>	<b>Utah</b>	<b>U.S.</b>
≥1 dose Varicella	90.0±4.7	95.2±0.6
≥1 dose Td or Tdap since age 10 years	88.4±3.9	89.8±0.8
≥1 dose Tdap after age 10 years	84.8±4.5	87.6±0.9
≥1 dose MenACWY	66.9±5.9	79.3±1.1

NIS Teen 2015, Ages 13-17<sup>1</sup>

Vaccine/Vaccine Series	Utah	U.S.
≥1 dose Varicella	88.5±4.4	94.9±0.8
≥1 Td or Tdap	83.6±5.0	89.6±0.8
≥1 dose Tdap	82.0±5.2	86.4±1.0
≥1 dose MenACWY	71.5±5.8	81.3±1.0

NIS Teen 2015, Females Ages 13-17<sup>1</sup>

Vaccine/Vaccine Series	Utah	U.S.
≥1 dose HPV	47.8(±9.4)	62.8(±1.8)
≥2 doses HPV	35.9(±8.8)	52.2(±1.8)
≥3 doses HPV	24.6(±7.7)	41.9(±1.8)

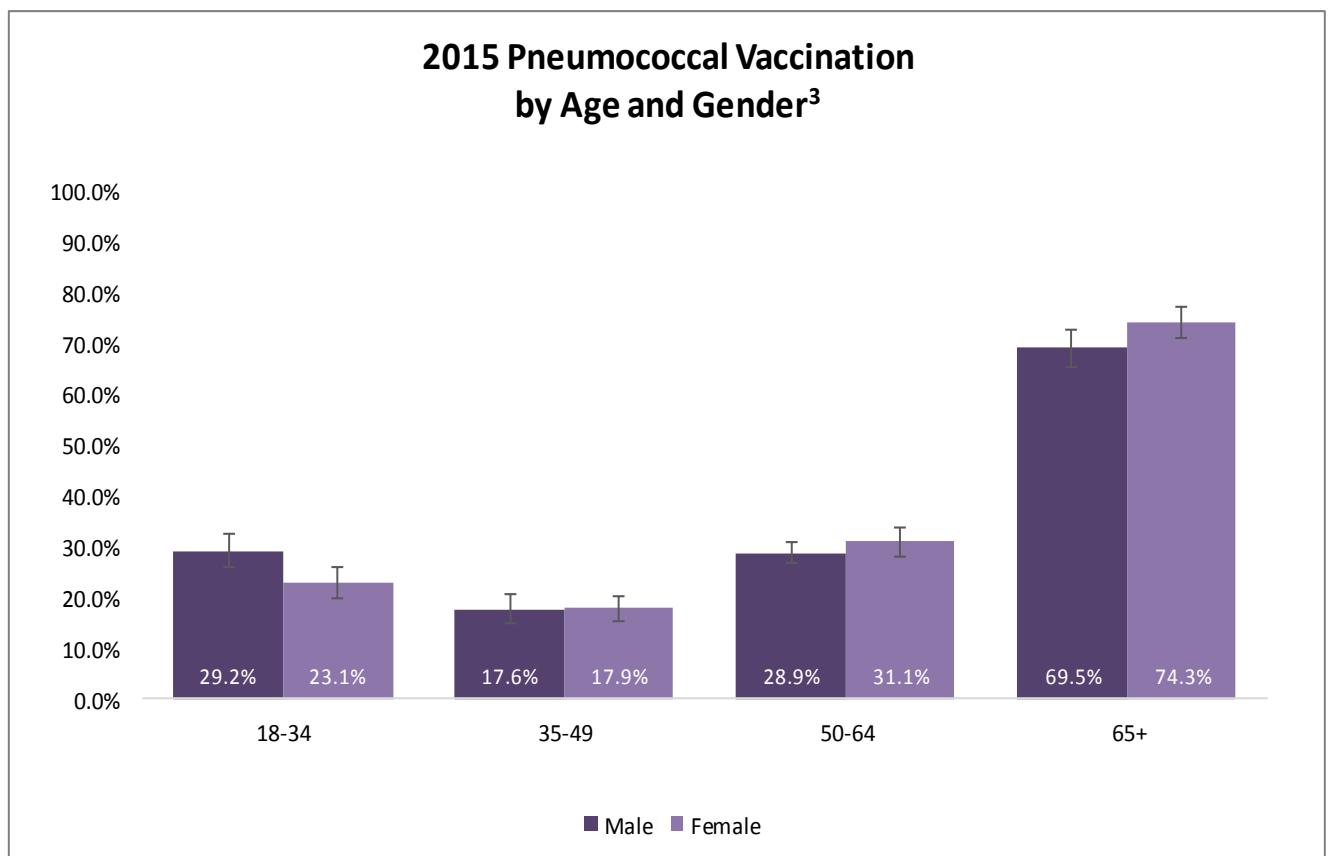
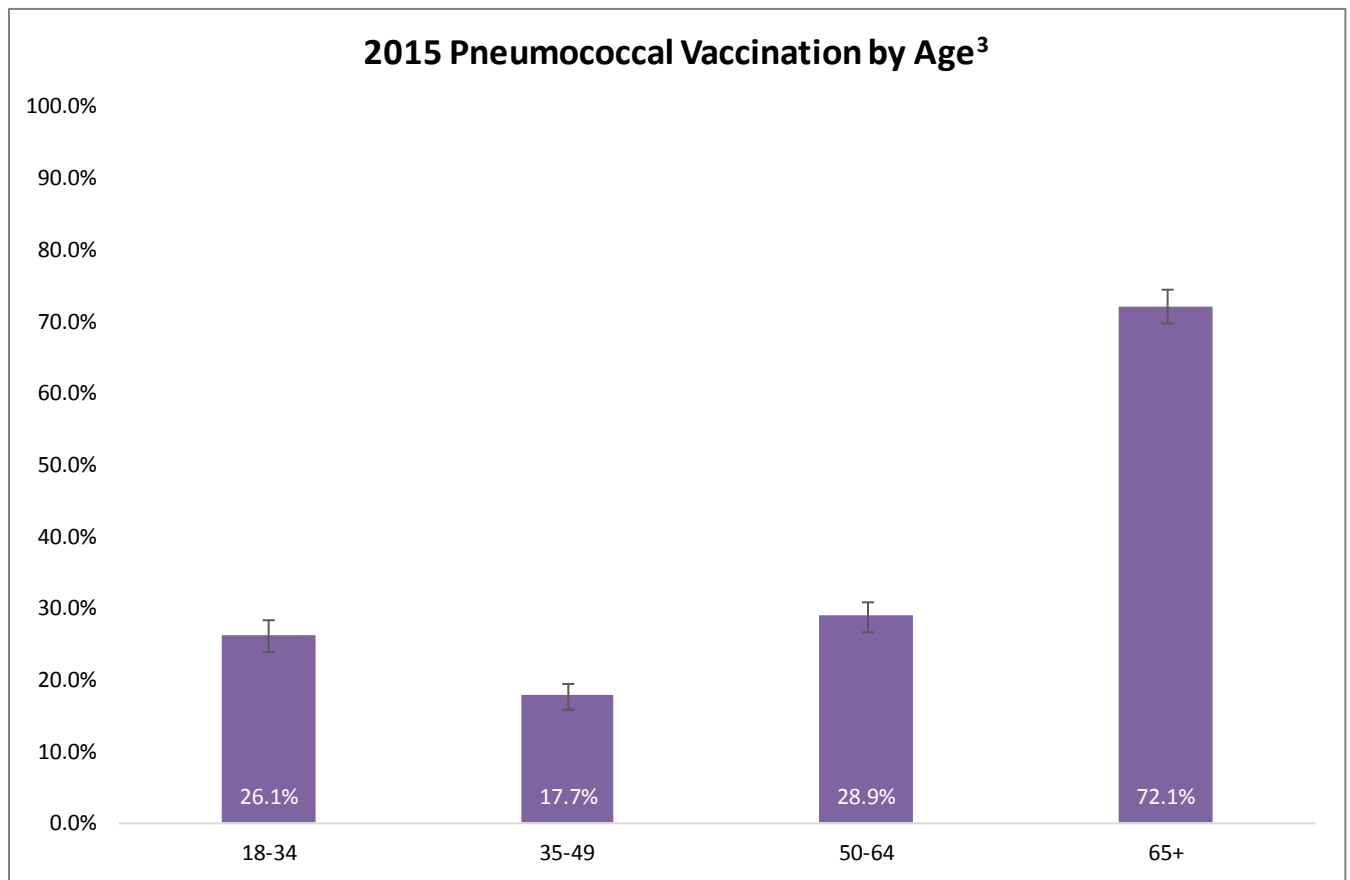
NIS Teen 2015, Males Ages 13-17<sup>1</sup>

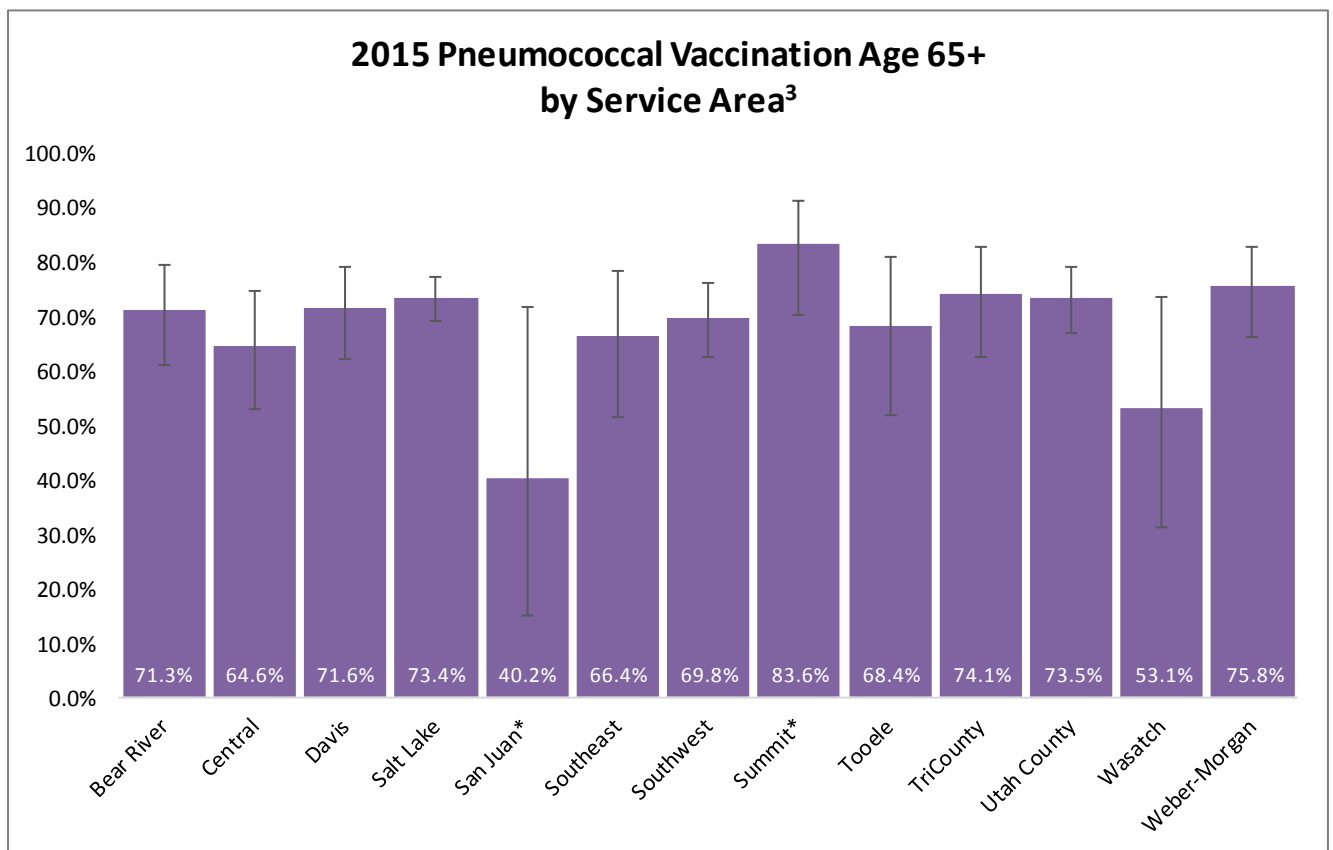
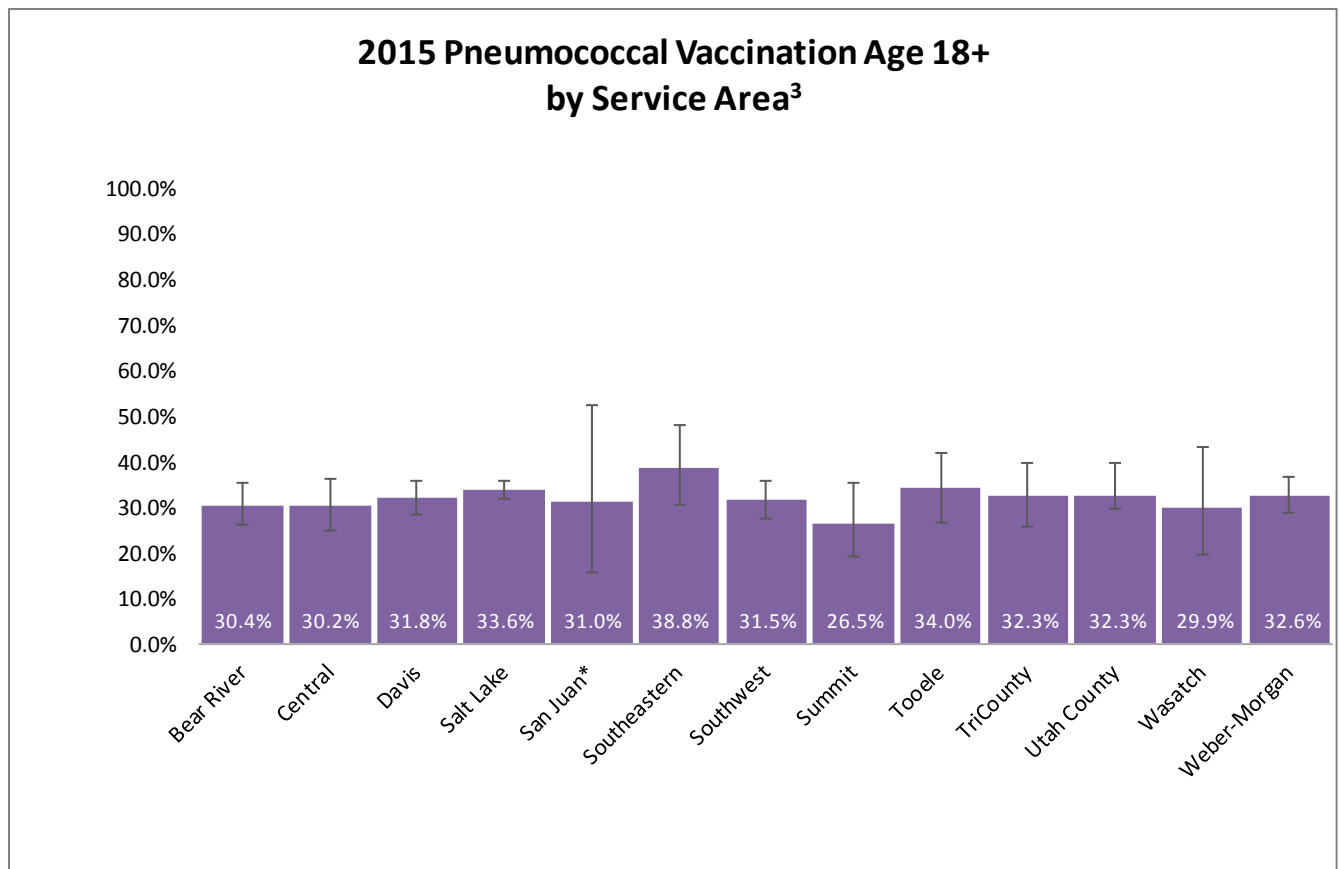
Vaccine/Vaccine Series	Utah	U.S.
≥1 dose HPV	40.9(±8.9)	49.8(±1.8)
≥2 doses HPV	33.7(±8.7)	39.0(±1.7)
≥3 doses HPV	19.9(±7.6)	28.1(±1.6)

NIS Teen 2010-2015, Utah, Ages 13-15 <sup>1</sup>							
Survey Year	1 Tdap	2 VAR	1 MenACWY	1 HPV <sup>¶</sup>	1 HPV <sup>¶¶</sup>	3 HPV <sup>*</sup>	3 HPV <sup>**</sup>
<i>Healthy People 2020 Objective</i>	80.0%	90.0%	80.0%	-	-	80.0%	80.0%
<b>2010</b>	77.7±7.1	60.3±11.4	54.9±8.2	41.3±10.5	N/A	24.8±9.1	N/A
<b>2011</b>	84.9±7.6	58.8±10.9	63.2±8.8	53.9±13.3	N/A	17.7±8.5	N/A
<b>2012</b>	76.9±9.1	64.9±10.7	57.1±9.2	37.4±12.2	N/A	22.3±10.3	N/A
<b>2013</b>	84.5±6.3	62.2±9.7	61.4±8.2	43.8±11.8	13.9±8.0	18.0±9.2	N/A
<b>2014</b>	89.1±4.7	73.5±8.3	65.6±7.7	60.2±10.5	30.9±10.2	25.2±9.2	14.4±7.3
<b>2015</b>	79.3±7.2	65.8±8.5	66.7±8.0	35.3±11.7	37.5±11.4	18.6±9.0	18.7±9.7

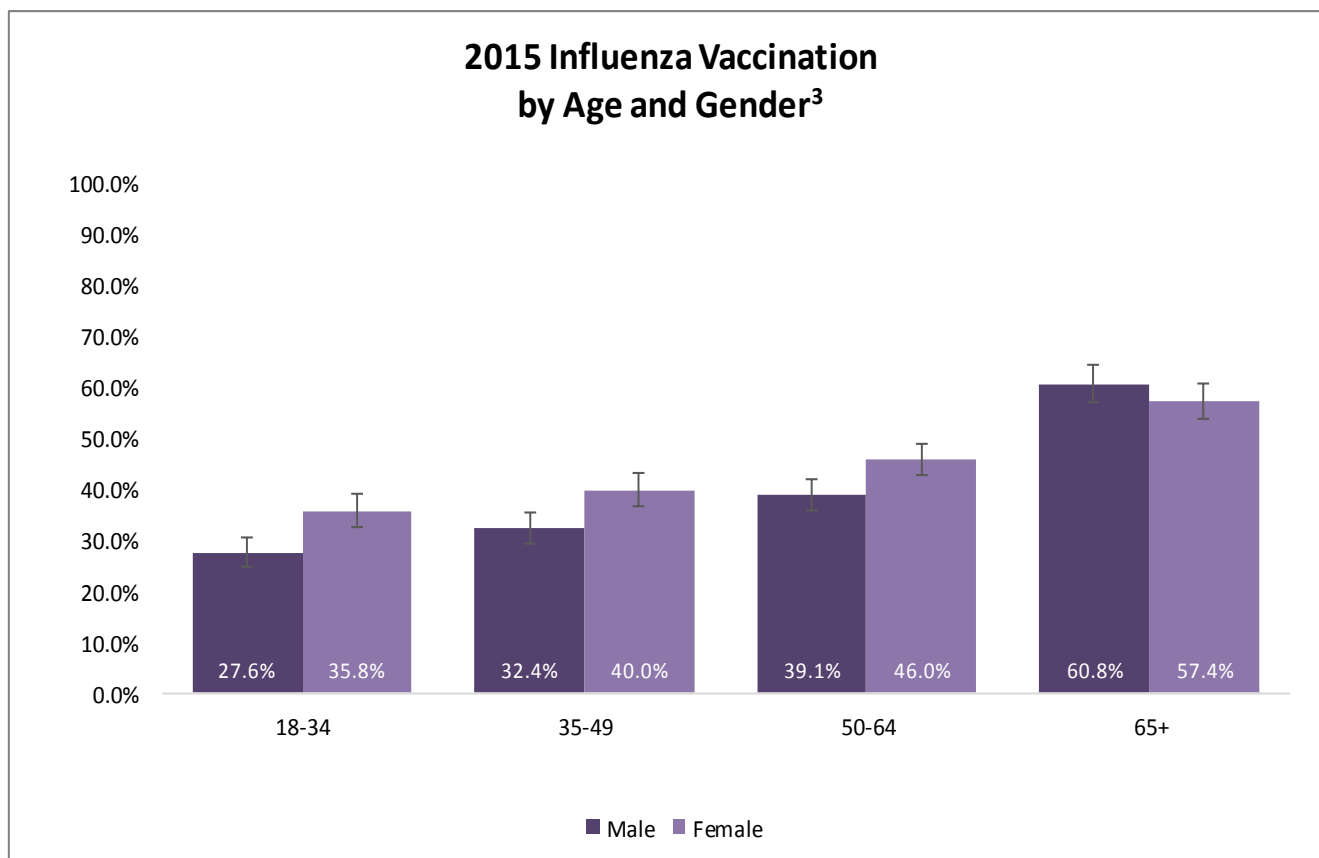
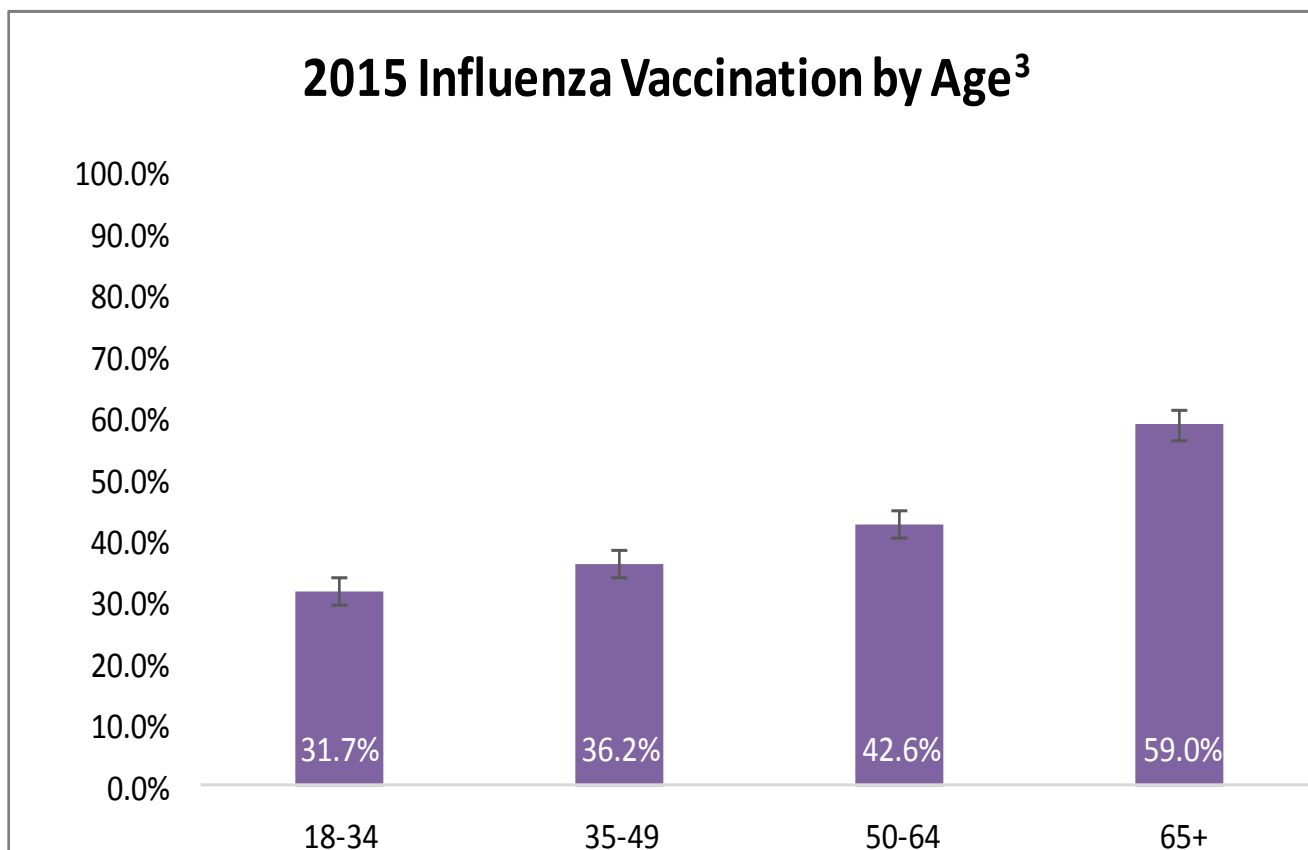
NIS Teen 2010-2015, U.S., Ages 13-15 <sup>1</sup>							
Survey Year	1 Tdap	2 VAR	1 MenACWY	1 HPV <sup>¶</sup>	1 HPV <sup>¶¶</sup>	3 HPV <sup>*</sup>	3 HPV <sup>**</sup>
<i>Healthy People 2020 Objective</i>	80.0%	90.0%	80.0%	-	-	80.0%	80.0%
<b>2010</b>	74.2±1.4	62.4±1.9	64.8±1.5	46.4±2.4	1.4±0.4	28.6±2.1	N/A
<b>2011</b>	80.5±1.2	71.8±1.6	71.5±1.3	47.9±2.2	8.4±1.2	30.0±2.1	1.4±0.5
<b>2012</b>	85.3±1.2	76.8±1.7	73.8±1.5	50.0±2.3	20.9±1.9	28.1±2.0	6.9±1.3
<b>2013</b>	86.3±1.1	79.2±1.5	77.0±1.3	54.3±2.4	33.9±2.4	31.8±2.3	13.1±1.7
<b>2014</b>	88.3±1.1	82.1±1.4	79.4±1.4	56.2±2.4	42.3±2.4	34.4±2.3	20.6±2.1
<b>2015</b>	87.1±1.2	84.6±1.4	80.8±1.4	60.2±2.4	49.0±2.3	37.1±2.3	27.1±2.1

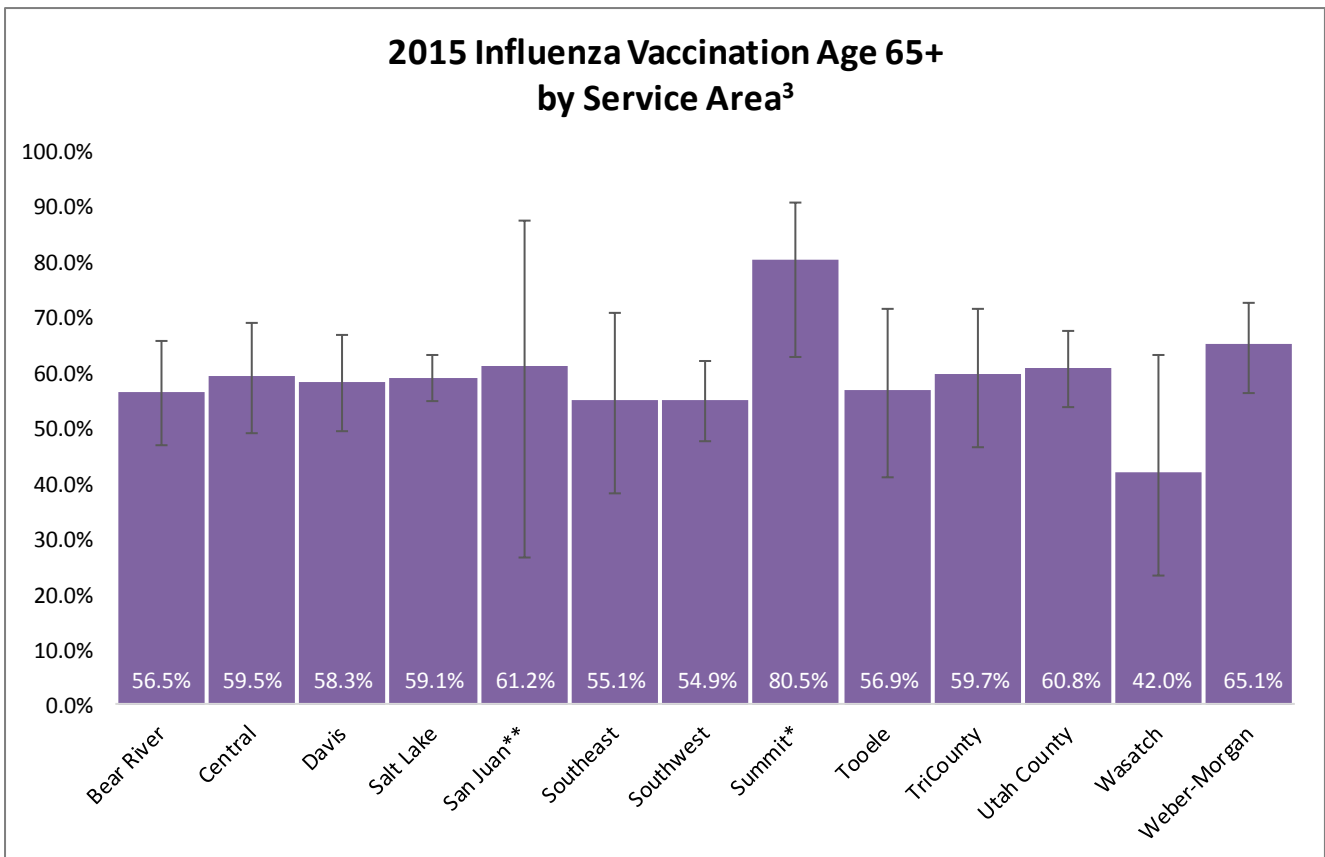
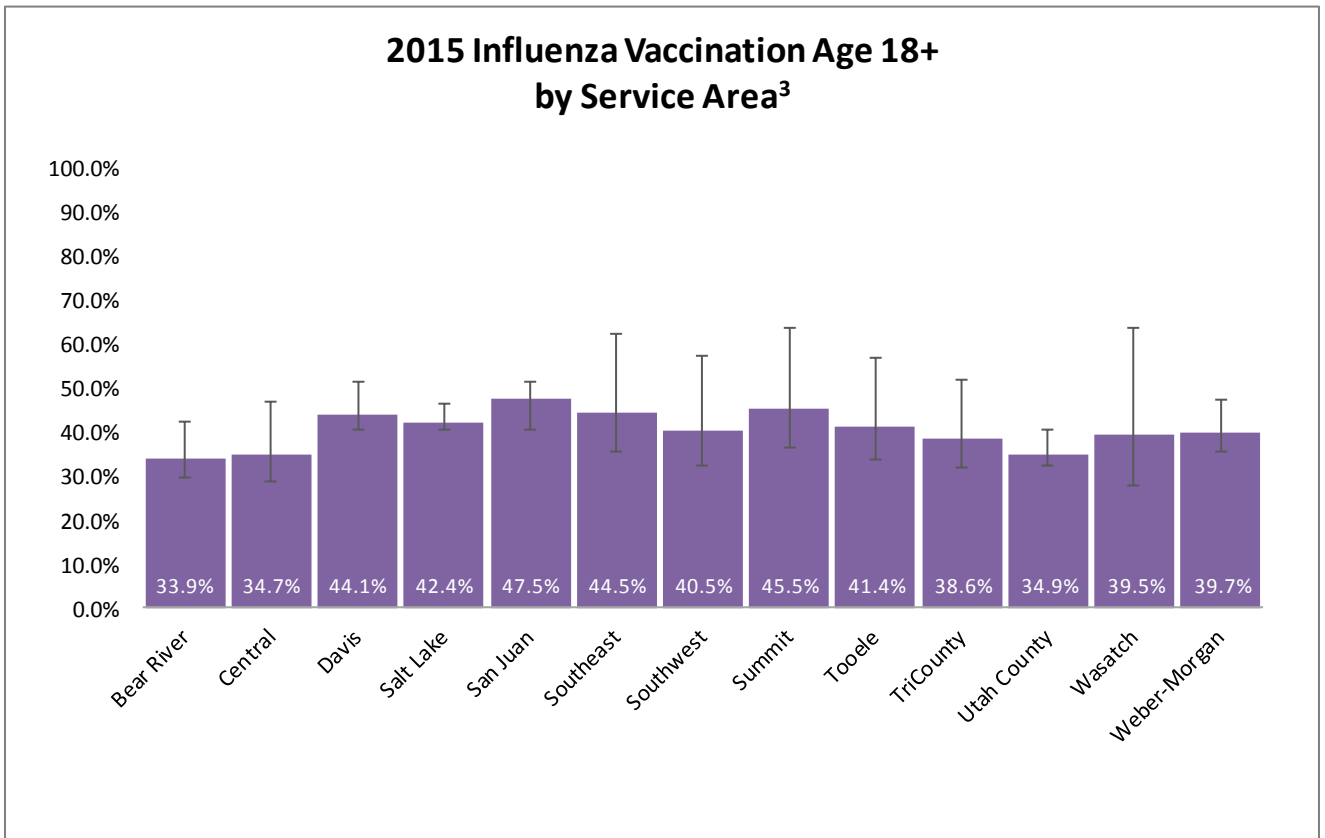
Source: 2010-2015 NIS, Adolescent/Teens, CDC. ¶ ≥1 dose of human papillomavirus vaccine among females; ¶¶ ≥1 dose of human papillomavirus vaccine among males; \* ≥3 doses of human papillomavirus vaccine among females, \*\* ≥3 doses of human papillomavirus vaccine among males. Estimate presented as point estimate(%) ± 95% confidence interval.





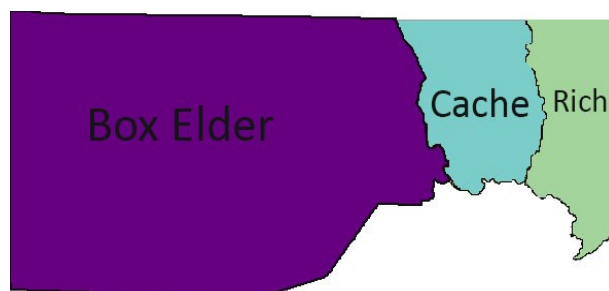
Source: BRFSS, Utah, 2015. Crude Rates. \* Use caution in interpreting, the estimate has a coefficient of variation >30%, and therefore is deemed unreliable by UDOH standards.





Source: BRFSS, Utah, 2015. Crude Rates. \* Use caution in interpreting, the estimate has a coefficient of variation >30%, and therefore is deemed unreliable by UDOH standards.

**Early Childhood Immunization**



24-35 months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2013 and 07/01/2014		
<b>Total</b>	3,149	
	<b>Total</b>	<b>Percent</b>
≥3 doses DTaP	2,879	91.4%
≥4 doses DTaP	2,527	80.2%
≥3 doses Polio	2,849	90.5%
≥1 dose MMR	2,769	87.9%
≥3 doses Hib	2,734	86.8%
≥1 dose Hib	3,100	98.4%
≥3 doses Hep B	2,849	90.5%
Hep B Birth dose	2705	85.9%
≥1 dose Varicella	2,785	88.4%
≥3 doses PCV	2,861	90.9%
≥4 doses PCV	2,523	80.1%
≥2 doses Hep A	2,293	72.8%
≥1 dose Rotavirus	2,817	89.5%
4:3:1	2,477	78.7%
4:3:1:3	2,462	78.2%
4:3:1:4	2,378	75.5%
4:3:1:3:3	2,428	77.1%
4:3:1:0:3:1	2,427	77.1%
4:3:1:3:3:1	2,412	76.6%
4:3:1:4:3:1	2,338	74.2%
4:3:1:0:3:1:4	2,338	74.2%
4:3:1:3:3:1:4	2,329	74.0%

≤3 months of Age <sup>6</sup>		
Children in USIIS born between 03/02/2016 and 07/01/2016		
<b>Total</b>	989	
	<b>Total</b>	<b>Percent</b>
≥1 dose DTaP	984	99.5%
≥1 dose Polio	978	98.9%
≥1 dose Hib	981	99.2%
≥1 dose Hep B	982	99.3%
≥2 doses Hep B	912	92.2%
≥1 dose PCV	976	98.7%

≤5 months of Age <sup>6</sup>		
Children in USIIS born between 01/02/2016 and 07/01/2016		
<b>Total</b>	1,478	
	<b>Total</b>	<b>Percent</b>
≥2 doses DTaP	910	61.6%
≥2 doses Polio	909	61.5%
≥2 doses Hib	903	61.1%
≥2 doses Hep B	1,378	93.2%
≥2 doses PCV	906	61.3%



<b>&lt;13 Months of Age<sup>6</sup></b>		
Children in USIIS born between 06/02/2015 and 07/01/2016		
<b>Total</b>	3,297	
	Total	Percent
≥3 doses DTaP	1,999	60.6%
≥2 doses Polio	2,644	80.2%
≥1 dose MMR	446	13.5%
≥2 doses Hib	2,629	79.7%
≥3 doses Hib	1,020	30.9%
≥2 doses Hep B	3,150	95.5%
≥3 doses Hep B	2,140	64.9%
≥1 dose Varicella	499	15.1%
≥3 doses PCV	1,991	60.4%

<b>&lt;19 Months of Age<sup>6</sup></b>		
Children in USIIS born between 12/02/2014 and 07/01/2016		
<b>Total</b>	4,878	
	Total	Percent
≥3 doses DTaP	3,428	70.3%
≥4 doses DTaP	898	18.4%
≥3 doses Polio	3,405	69.8%
≥1 dose MMR	1,662	34.1%
≥3 doses Hib	2,292	47.0%
≥1 dose Hib	4,835	99.1%
≥3 doses Hep B	3,554	72.9%
≥1 dose Varicella	1,750	35.9%
≥3 doses PCV	3,402	69.7%
>4 doses of PCV	1,646	33.7%
4:3:1	880	18.0%
4:3:1:3	868	17.8%
4:3:1:4	837	17.2%
4:3:1:3:3	856	17.5%
4:3:1:0:3	716	14.7%
4:3:1:4:3	827	17.0%
4:3:1:3:3:1	812	16.6%
4:3:1:0:3:1	819	16.8%
4:3:1:4:3:1	784	16.1%

<b>&lt;24 Months of Age<sup>6</sup></b>		
Children in USIIS born between 07/02/2014 and 07/01/2016		
<b>Total</b>	6,212	
	Total	Percent
≥3 doses DTaP	4,643	74.7%
≥4 doses DTaP	1,873	30.2%
≥3 doses Polio	4,605	74.1%
≥1 dose MMR	2,782	44.8%
≥3 doses Hib	3,413	54.9%
≥1 dose Hib	6,157	99.1%
≥3 doses Hep B	4,761	76.6%
≥1 dose Varicella	2,874	46.3%
≥3 doses PCV	4,601	74.1%
≥4 doses PCV	2,667	42.9%
4:3:1	1,661	26.7%
4:3:1:3	1,810	29.1%
4:3:1:4	1,754	28.2%
4:3:1:3:3	1,787	28.8%
4:3:1:0:3	1,812	29.2%
4:3:1:4:3	1,733	27.9%
4:3:1:3:3:1	1,787	28.0%
4:3:1:0:3:1	1,753	28.2%
4:3:1:4:3:1	1,683	27.1%
4:3:1:3:3:1:4	1,683	27.1%

12-17 Years of Age <sup>6</sup>						
Children in USIIS born between 07/02/1998 and 07/01/2004						
<b>Total</b>	21,622					
	<b>Total</b>	<b>Total %</b>	<b>Female Total</b>	<b>Female %</b>	<b>Male Total</b>	<b>Male %</b>
1 HPV	6,677	30.9%	3,970	37.7%	2,696	24.4%
2 HPV	4,143	19.2%	2,539	24.1%	1,598	14.5%
3 HPV	2,734	12.6%	1,724	16.4%	1,007	12.6%

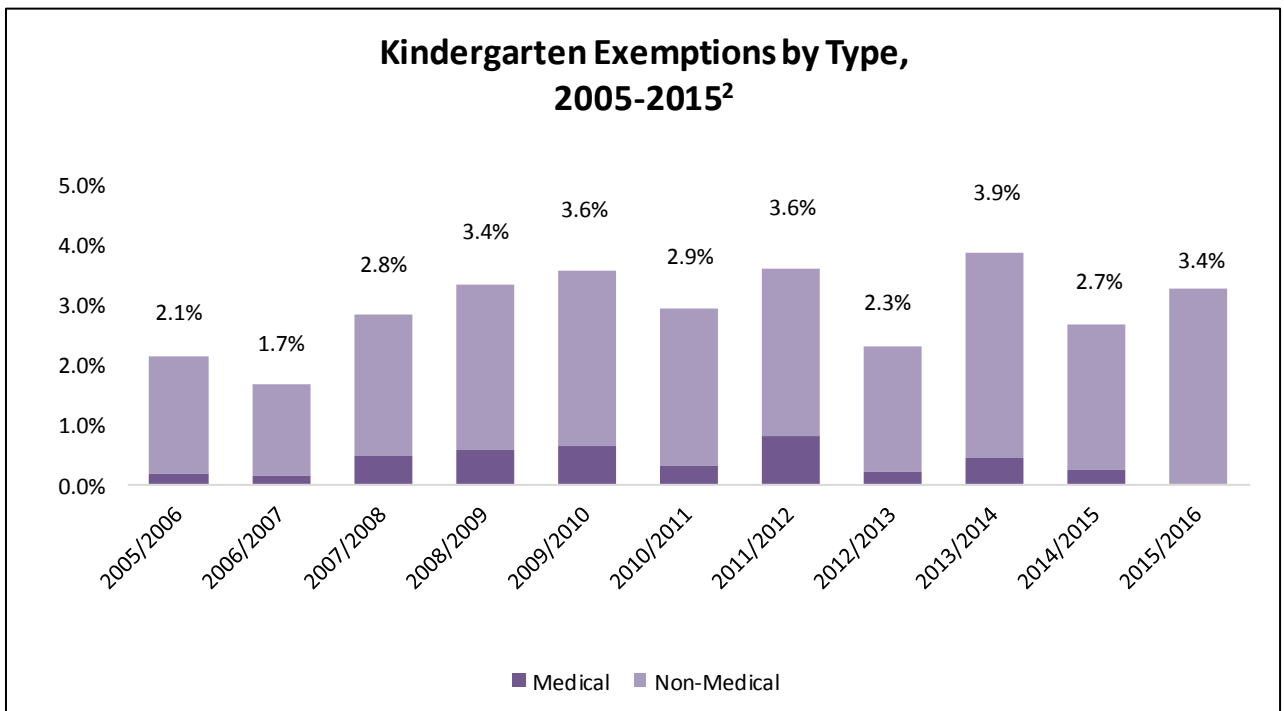
12-17 Years of Age <sup>6</sup>		
Children in USIIS born between 07/02/1998 and 07/01/2004		
<b>Total</b>	21,622	
	<b>Total</b>	<b>Percent</b>
≥1 dose Meningococcal	12,518	57.9%
≥1 TDaP	15,238	70.5%

≤18 Years of Age <sup>6</sup>		
Children in USIIS born after 07/2/1997		
<b>Total</b>	66,115	
	<b>Total</b>	<b>Percent</b>
≥1 dose Influenza in lifetime	40,304	61.0%
≥1 dose Influenza last flu season*	16,338	24.7%

\*Last flu season between 07/01/2015 and 6/30/2016

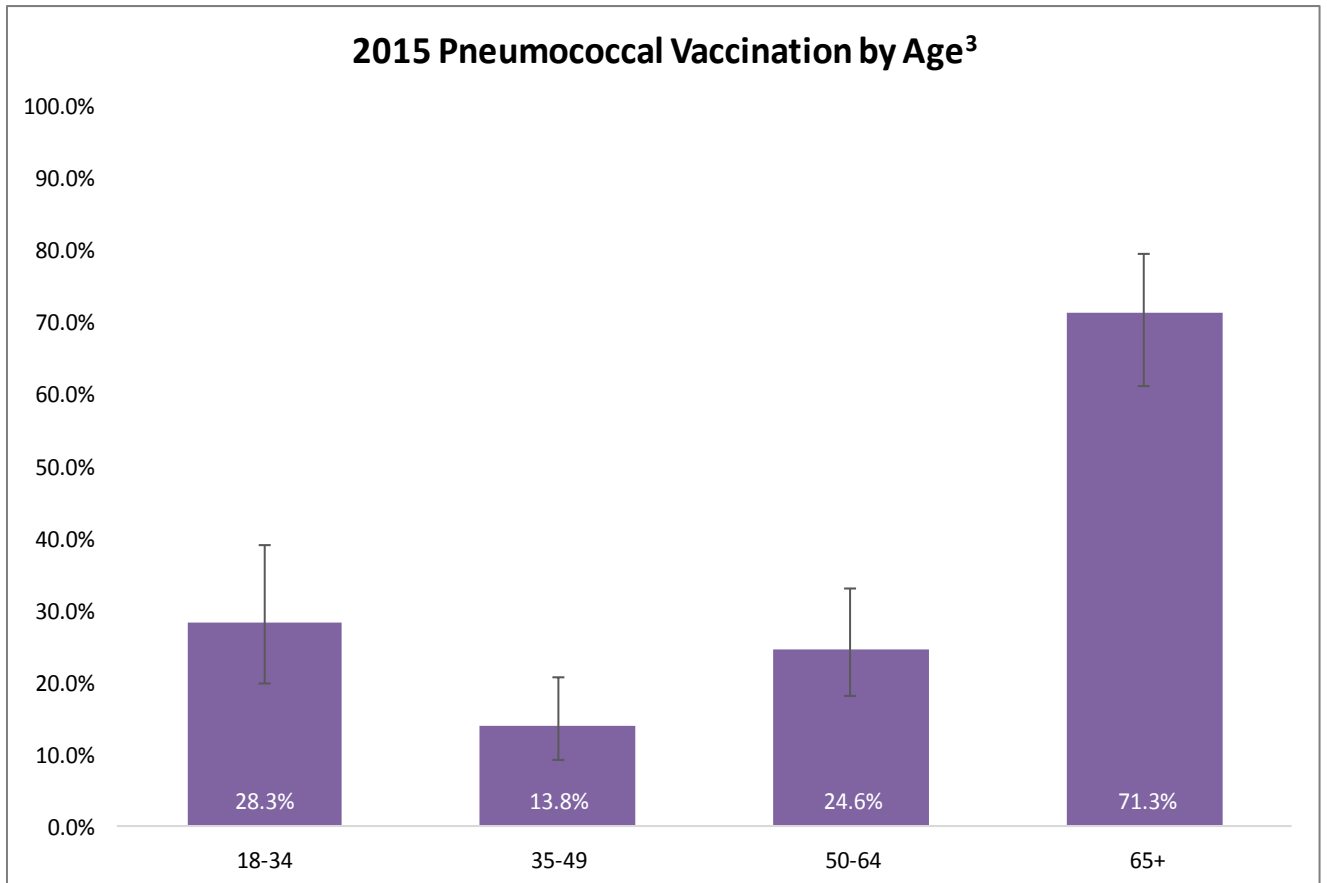
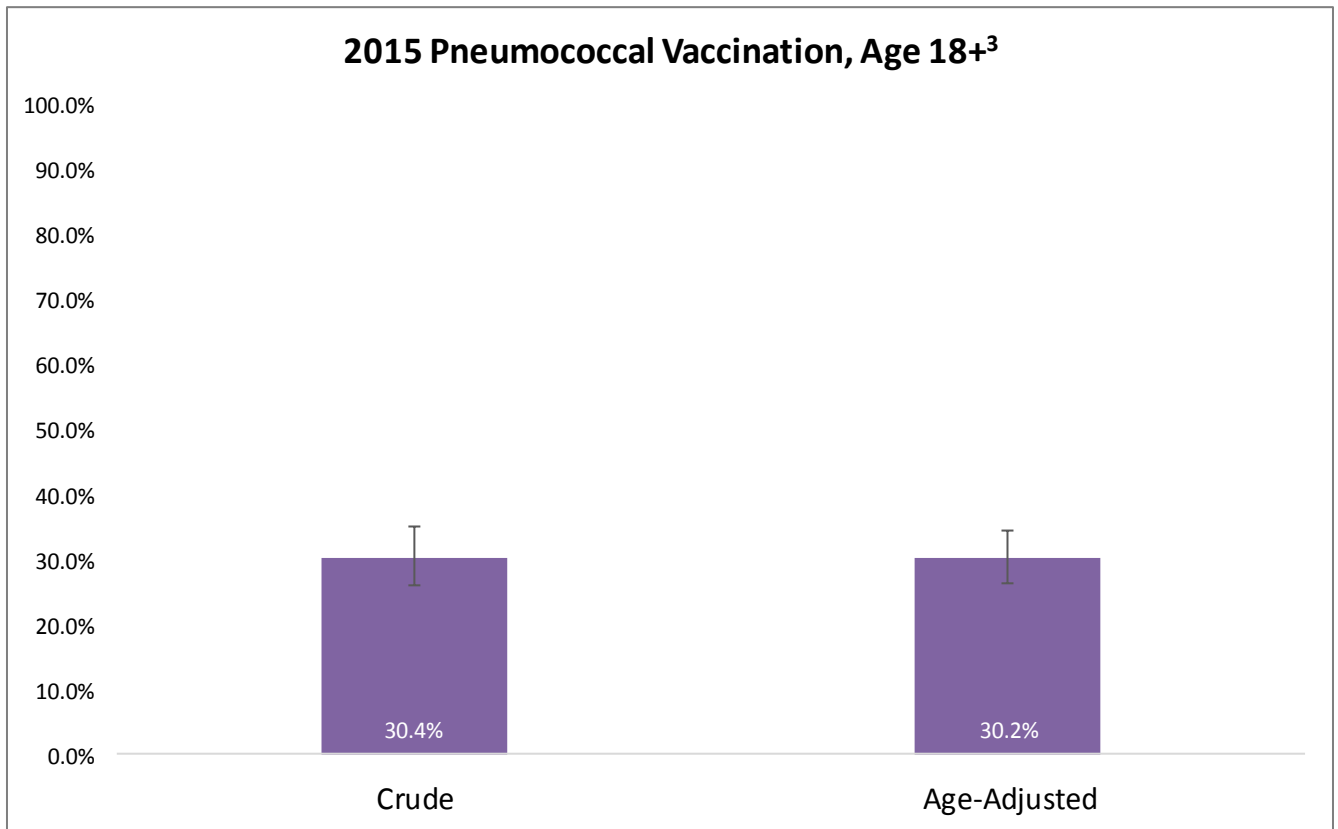
Adequately Immunized by School District 2015 <sup>2</sup>								
	Box Elder		Cache		Logan City		Rich	
	Adequate Immune	Total Exmp	Adequate Immune	Total Exmp	Adequate Immune	Total Exmp	Adequate Immune	Total Exmp
<b>Kindergarten School Entry</b>	92.7%	3.5%	94.2%	3.0%	95.0%	1.8%	100%	0.0%
<b>Second-Dose Measles (K-12)</b>	96.9%	2.9%	97.4%	2.4%	98.9%	0.7%	98.6%	1.4%
<b>7th Grade Entry</b>	95.2%	4.8%	97.9%	2.0%	98.4%	1.1%	98.3%	1.7%

Immunized for Child Care 2015 <sup>2</sup>		
	Adequately Immunized	Total Exemptions
<b>Licensed Child Care Facilities</b>	96.8%	1.4%
<b>Head Start Centers</b>	94.0%	1.8%

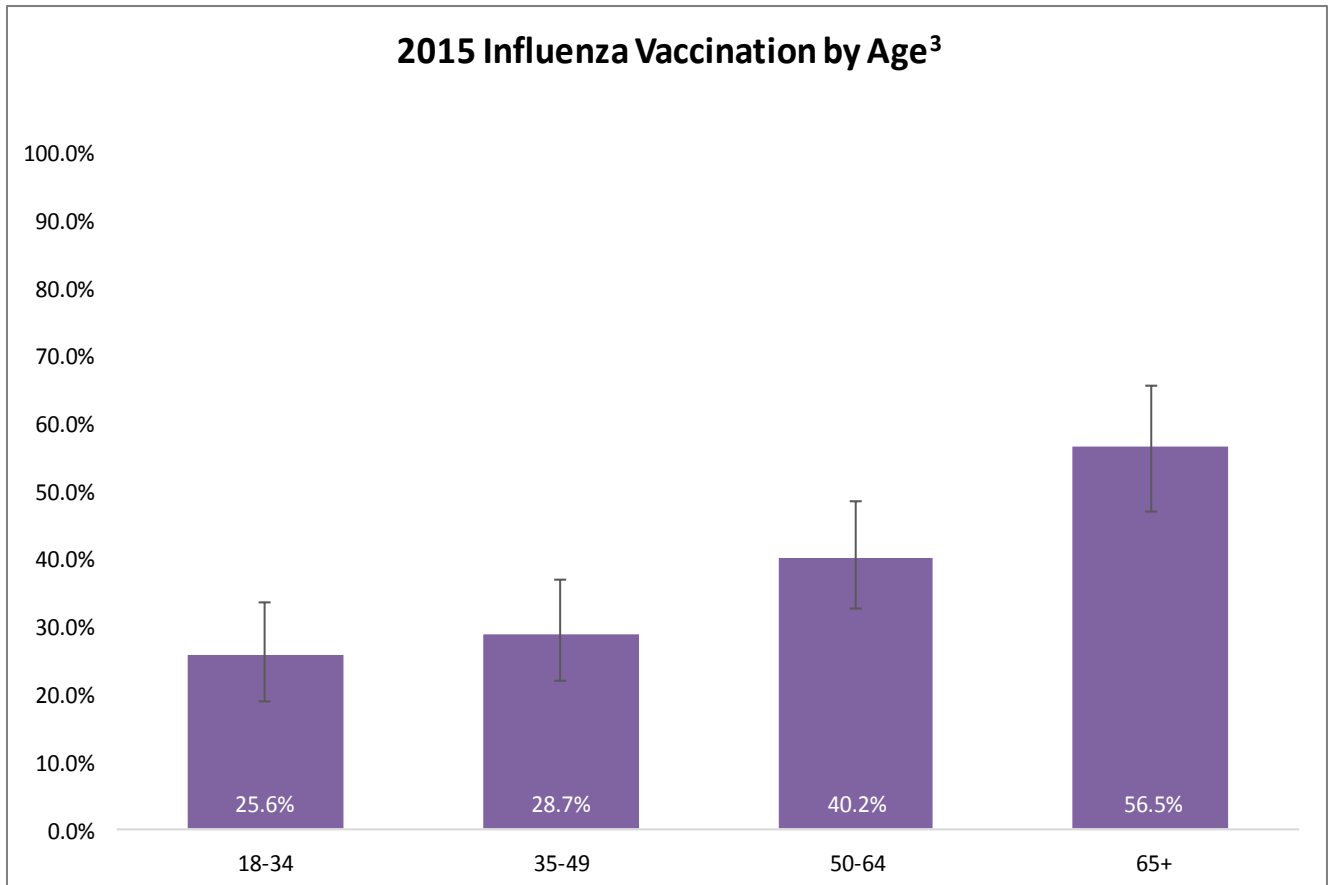
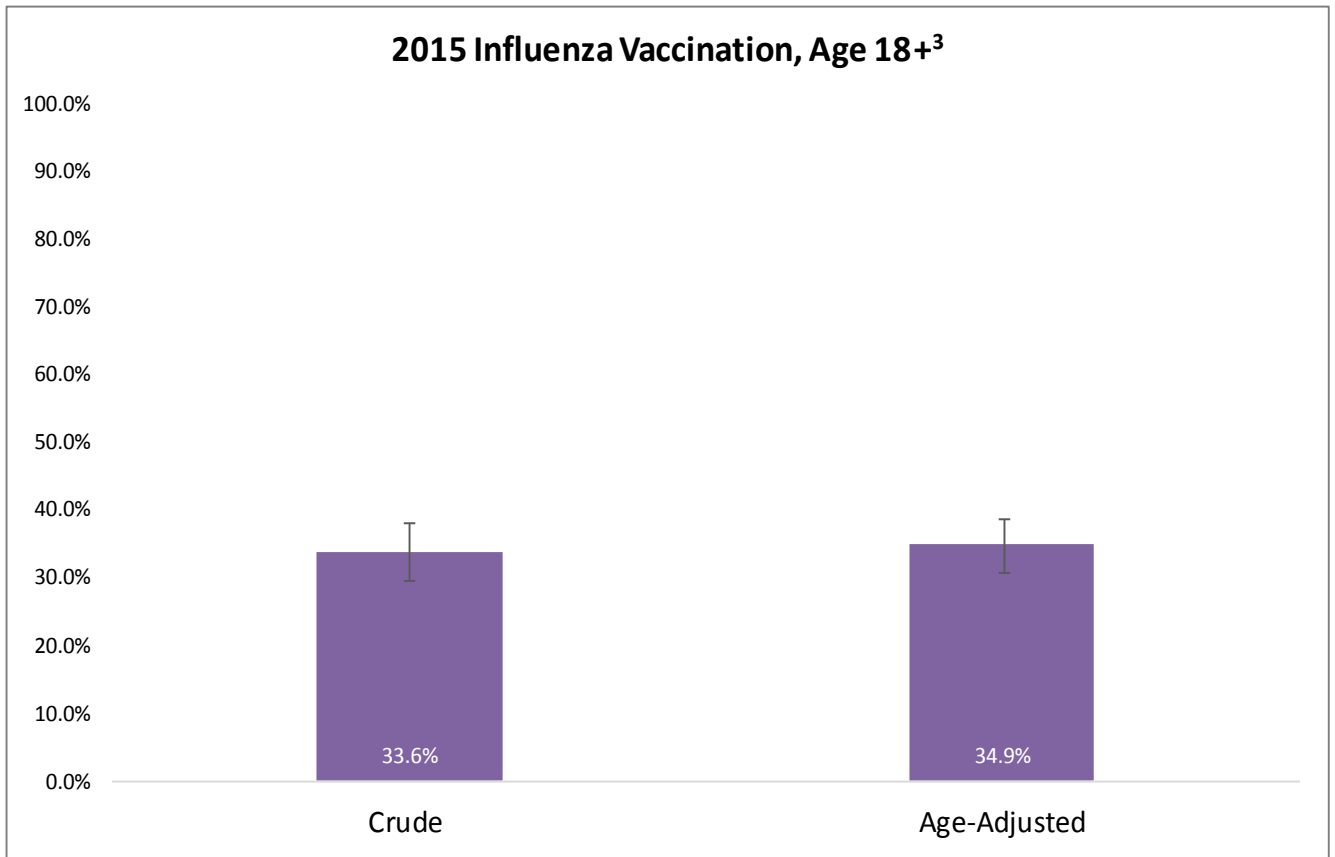


<b>≥19 Years of Age<sup>6</sup></b>		
Adults in USIIS born on or before 07/1/1997		
<b>Total</b>	116,678	
	<b>Total</b>	<b>Percent</b>
≥1 dose Influenza last season*	23,607	20.2%
≥1 dose influenza in lifetime	60,716	52.0%
≥1 Tdap	55,251	47.4%
≥1 Varicella	7,669	6.6%
≥1 HPV	4,919	4.2%
≥1 Zoster	8,428	7.2%
≥1 MMR	43,981	37.7%
≥1 PCV13	6,715	5.8%
≥1PPSV23	22,273	9.7%
≥1 Hep A	30,700	26.3%
≥1 Hep B	38,413	32.9%
≥1 Meningococcal	13,273	11.4%
≥1 HIB	24,381	20.9%

\*Last flu season between 07/01/2015 and 6/30/2016

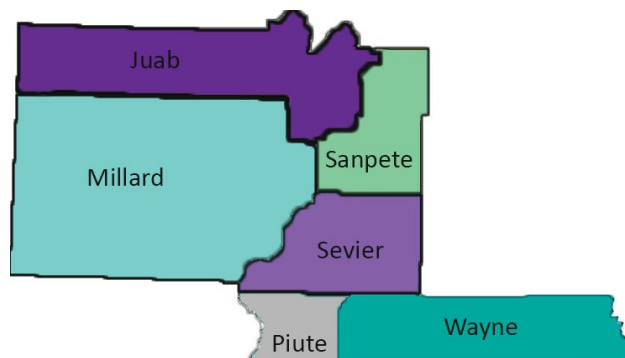


Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates.



Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates.

**Early Childhood Immunization**



24-35 months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2013 and 07/01/2014		
Total	1,090	
	Total	Percent
≥3 doses DTaP	940	86.2%
≥4 doses DTaP	766	70.3%
≥3 doses Polio	924	84.8%
≥1 dose MMR	945	86.7%
≥3 doses Hib	912	83.7%
≥1 dose Hib	1,066	97.8%
≥3 doses Hep B	940	86.2%
Hep B Birth dose	909	83.4%
≥1 dose Varicella	923	84.7%
≥3 doses PCV	920	84.4%
≥4 doses PCV	708	65.0%
≥2 doses Hep A	647	59.4%
≥1 dose Rotavirus	822	75.4%
4:3:1	753	69.1%
4:3:1:3	743	68.2%
4:3:1:4	646	59.3%
4:3:1:3:3	737	67.6%
4:3:1:0:3:1	734	67.3%
4:3:1:3:3:1	724	66.4%
4:3:1:4:3:1	631	57.9%
4:3:1:0:3:1:4	631	57.9%
4:3:1:3:3:1:4	628	57.6%

≤3 months of Age <sup>6</sup>		
Children in USIIS born between 03/02/2016 and 07/01/2016		
Total	308	
	Total	Percent
≥1 dose DTaP	307	99.7%
≥1 dose Polio	307	99.7%
≥1 dose Hib	304	98.7%
≥1 dose Hep B	307	99.7%
≥2 doses Hep B	274	89.0%
≥1 dose PCV	300	97.4%

≤5 months of Age <sup>6</sup>		
Children in USIIS born between 01/02/2016 and 07/01/2016		
Total	465	
	Total	Percent
≥2 doses DTaP	270	58.1%
≥2 doses Polio	271	58.3%
≥2 doses Hib	266	57.2%
≥2 doses Hep B	427	91.8%
≥2 doses PCV	266	57.2%



<13 Months of Age <sup>6</sup>		
Children in USIIS born between 06/02/2015 and 07/01/2015		
Total	1,100	
	Total	Percent
≥3 doses DTaP	566	51.5%
≥2 doses Polio	843	76.6%
≥1 dose MMR	175	15.9%
≥2 doses Hib	833	75.7%
≥3 doses Hib	459	41.7%
≥2 doses Hep B	1,035	94.1%
≥3 doses Hep B	699	63.5%
≥1 dose Varicella	161	14.6%
≥3 doses PCV	555	50.5%

<19 Months of Age <sup>6</sup>		
Children in USIIS born between 12/02/2014 and 07/01/2016		
Total	1,610	
	Total	Percent
≥3 doses DTaP	1,008	62.6%
≥4 doses DTaP	262	16.3%
≥3 doses Polio	996	61.9%
≥1 dose MMR	574	35.7%
≥3 doses Hib	880	54.7%
≥1 dose Hib	1,594	99.0%
≥3 doses Hep B	1,140	70.8%
≥1 dose Varicella	540	33.5%
≥3 doses PCV	995	61.8%
>4 dose PCV	439	27.3%
4:3:1	250	15.5%
4:3:1:3	248	15.4%
4:3:1:4	231	14.3%
4:3:1:3:3	246	15.3%
4:3:1:0:3	198	12.3%
4:3:1:4:3	228	14.2%
4:3:1:3:3:1	242	15.0%
4:3:1:0:3:1	244	15.2%
4:3:1:4:3:1	227	14.1%

<24 Months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2014 and 07/01/2016		
Total	2,062	
	Total	Percent
≥3 doses DTaP	1,404	68.1%
≥4 doses DTaP	552	26.8%
≥3 doses Polio	1,390	67.4%
≥1 dose MMR	954	46.3%
≥3 doses Hib	1,267	61.4%
≥1 dose Hib	2,033	98.6%
≥3 doses Hep B	1,527	74.1%
≥1 dose Varicella	910	44.1%
≥3 doses PCV	1,383	67.1%
≥4 doses PCV	745	36.1%
4:3:1	481	23.3%
4:3:1:3	528	25.6%
4:3:1:4	488	23.7%
4:3:1:3:3	523	25.4%
4:3:1:0:3	528	25.6%
4:3:1:4:3	485	23.5%
4:3:1:3:3:1	520	25.2%
4:3:1:0:3:1	523	25.4%
4:3:1:4:3:1	483	23.4%
4:3:1:3:3:1:4	482	23.4%

12-17 Years of Age <sup>6</sup>						
Children in USIIS born between 07/02/1998 and 07/01/2004						
Total	9,427					
	Total	Total %	Female Total	Female %	Male Total	Male %
1 HPV	3,205	34.0%	1,929	43.2%	1,271	25.8%
2 HPV	1,704	18.1%	1,084	24.3%	616	12.5%
3 HPV	988	10.5%	660	14.8%	326	6.6%

12-17 Years of Age <sup>6</sup>		
Children in USIIS born between 07/02/1998 and 07/01/2004		
Total	9,427	
	Total	Percent
≥1 dose Meningococcal	5,020	53.3%
≥1 dose Tdap	7,047	74.8%

≤18 Years of Age <sup>6</sup>		
Children in USIIS born after 07/2/1997		
Total	26,042	
	Total	Percent
≥1 dose Influenza in lifetime	13,884	53.3%
≥1 dose influenza last flu season*	6,017	23.1%

\*Last flu season between 07/01/2015 and 6/30/2016

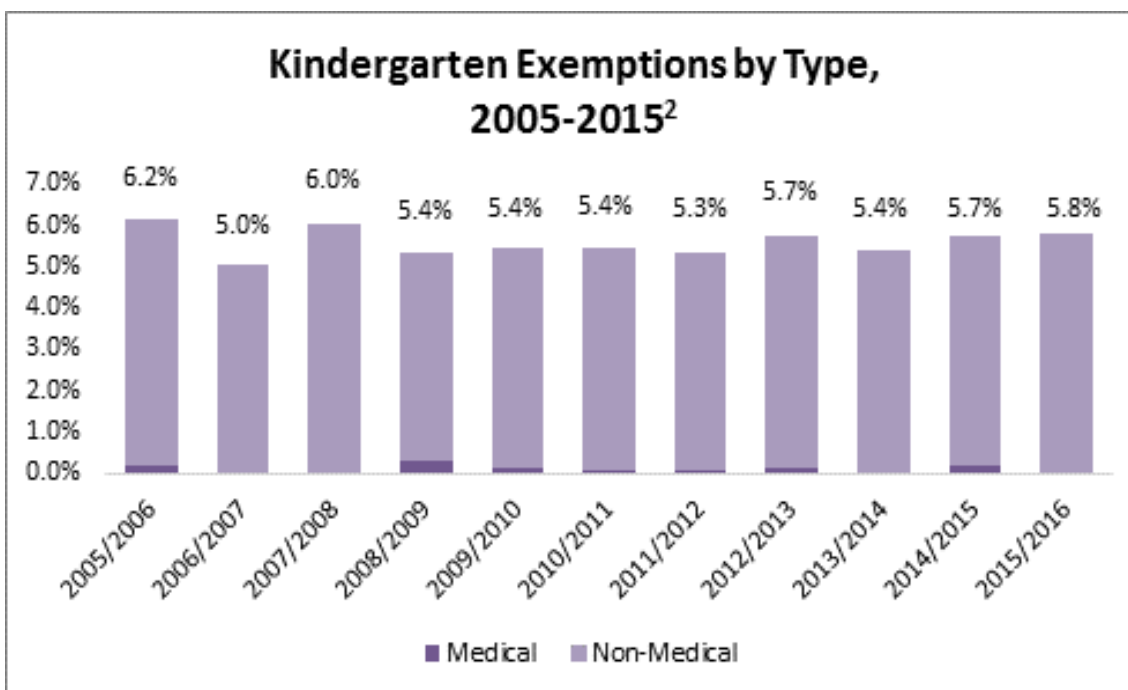
### Adequately Immunized by School District 2015<sup>2</sup>

	Juab		Millard		N Sanpete		Piute		Sevier		S Sanpete		Tintic		Wayne	
	Adeq Imm	Total Exmp	Adeq Imm	Total Exmp	Adeq Imm	Total Exmp	Adeq Imm	Total Exmp	Adeq Imm	Total Exmp	Adeq Imm	Total Exmp	Adeq Imm	Total Exmp	Adeq Imm	Total Exmp
<b>Kindergarten School Entry</b>	88.6%	6.0%	91.5%	4.5%	83.2%	12.0%	50.0%	5.6%	92.0%	4.2%	93.6%	4.6%	100%	0.0%	89.2%	8.1%
<b>Second-Dose Measles (K-12)</b>	92.5%	7.4%	96.2%	3.6%	90.2%	7.9%	94.8%	2.5%	96.2%	3.7%	94.5%	5.4%	95.7%	4.3%	92.7%	6.9%
<b>7th Grade Entry</b>	85.3%	14.7%	93.9%	3.8%	85.1%	10.6%	94.6%	3.6%	91.0%	6.1%	75.4%	14.3%	94.7%	5.3%	92.7%	4.9%

### Immunized for Child Care 2013<sup>2</sup>

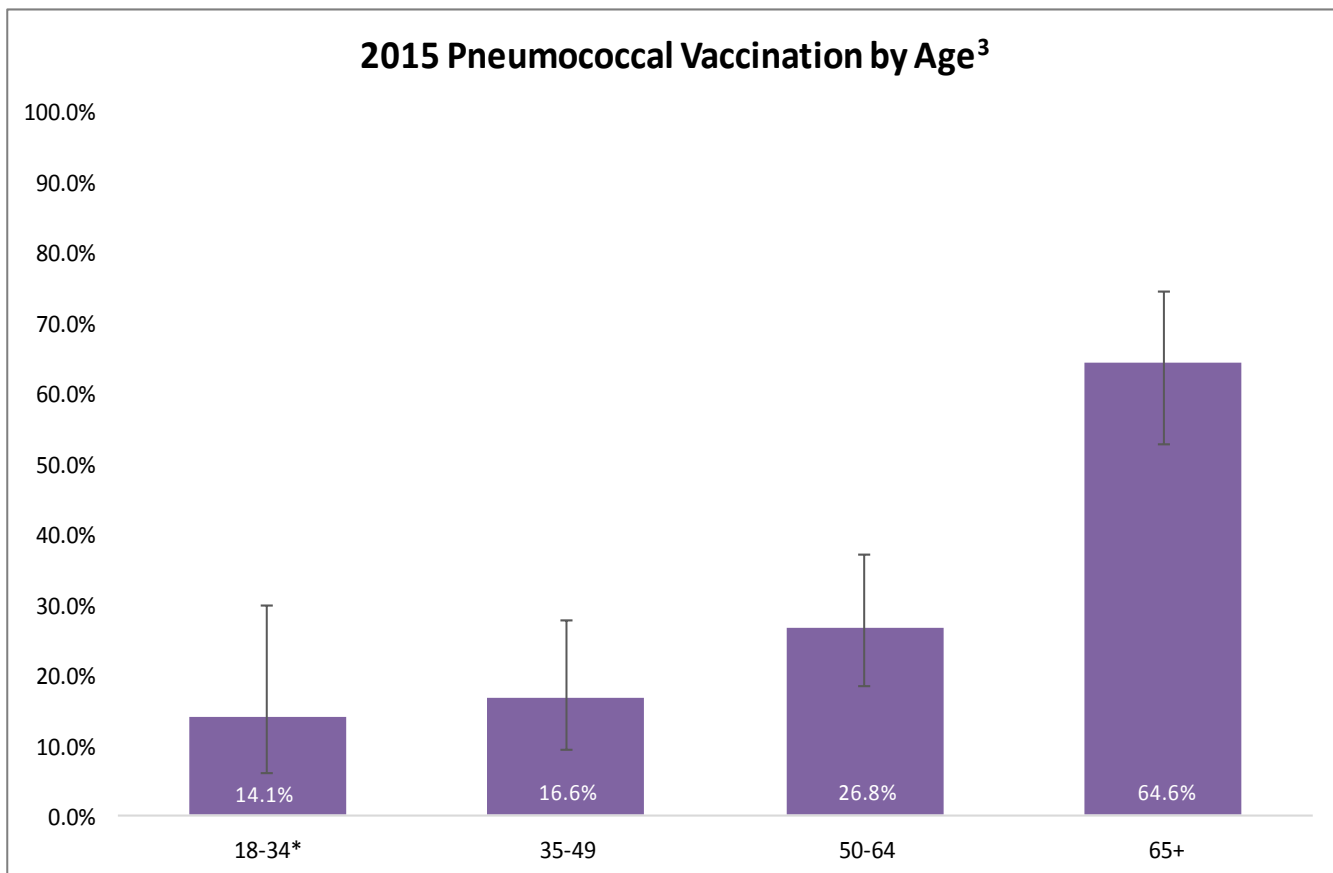
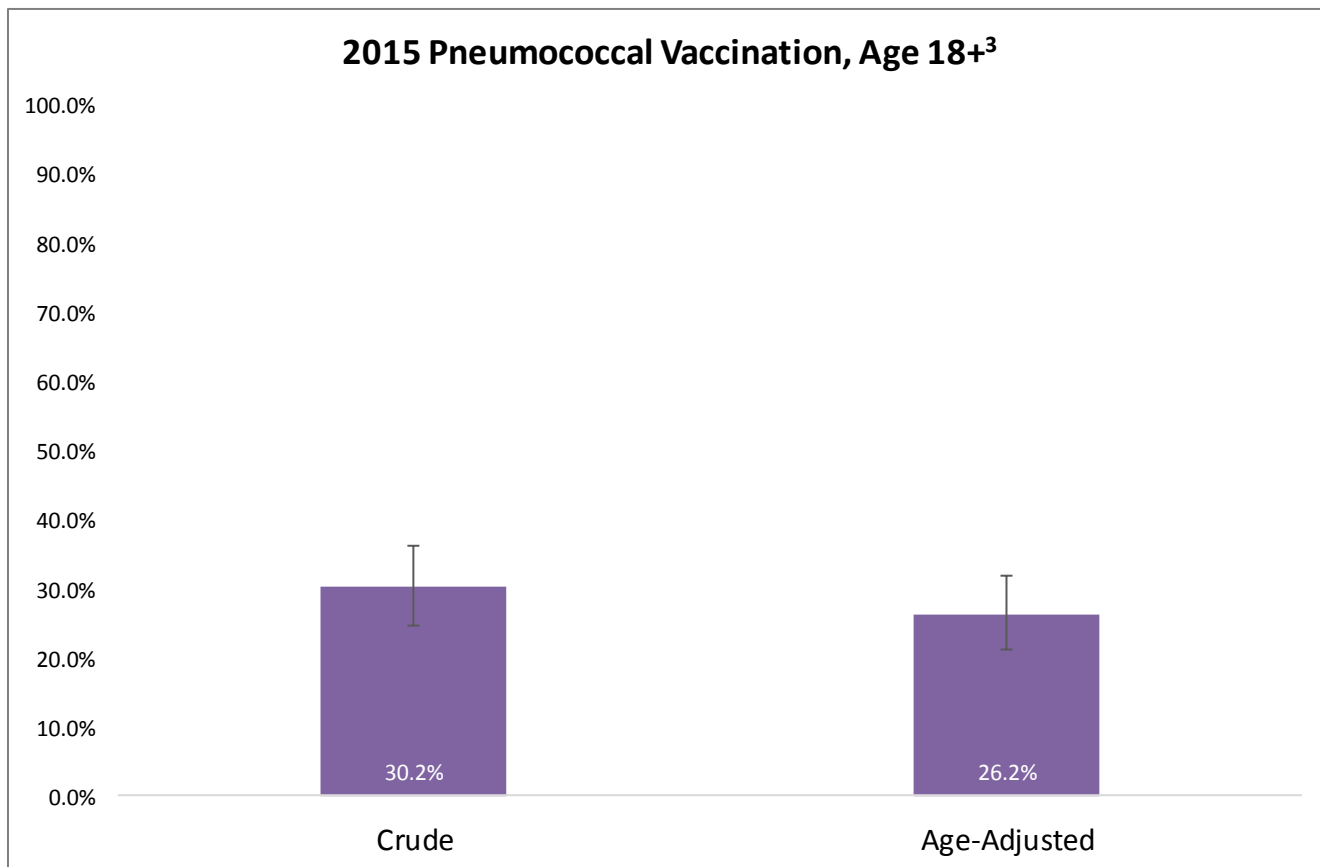
	Adequately Immunized	Total Exemptions
<b>Licensed Child Care Facilities</b>	94.2%	0.0%
<b>Head Start Centers</b>	94.5%	2.4%

### Kindergarten Exemptions by Type, 2005-2015<sup>2</sup>

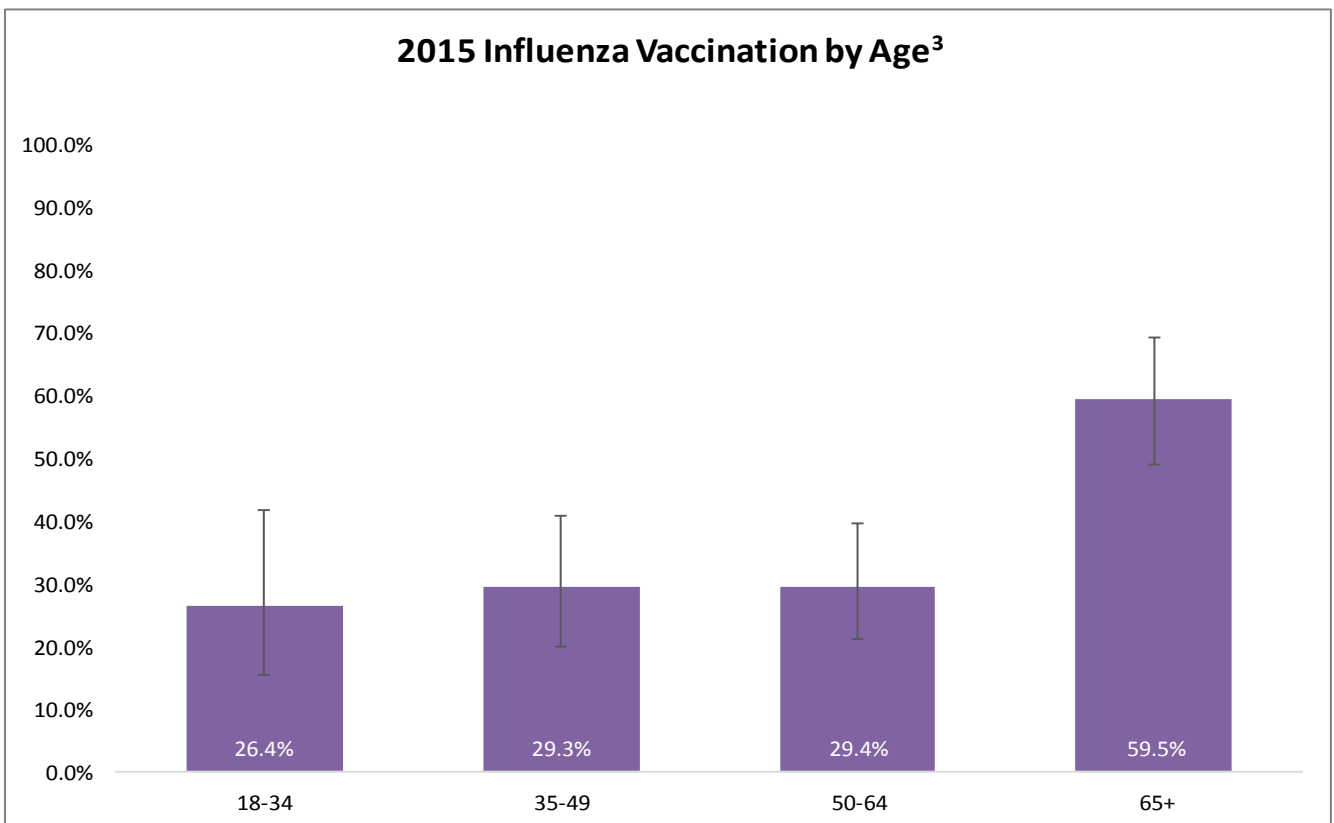
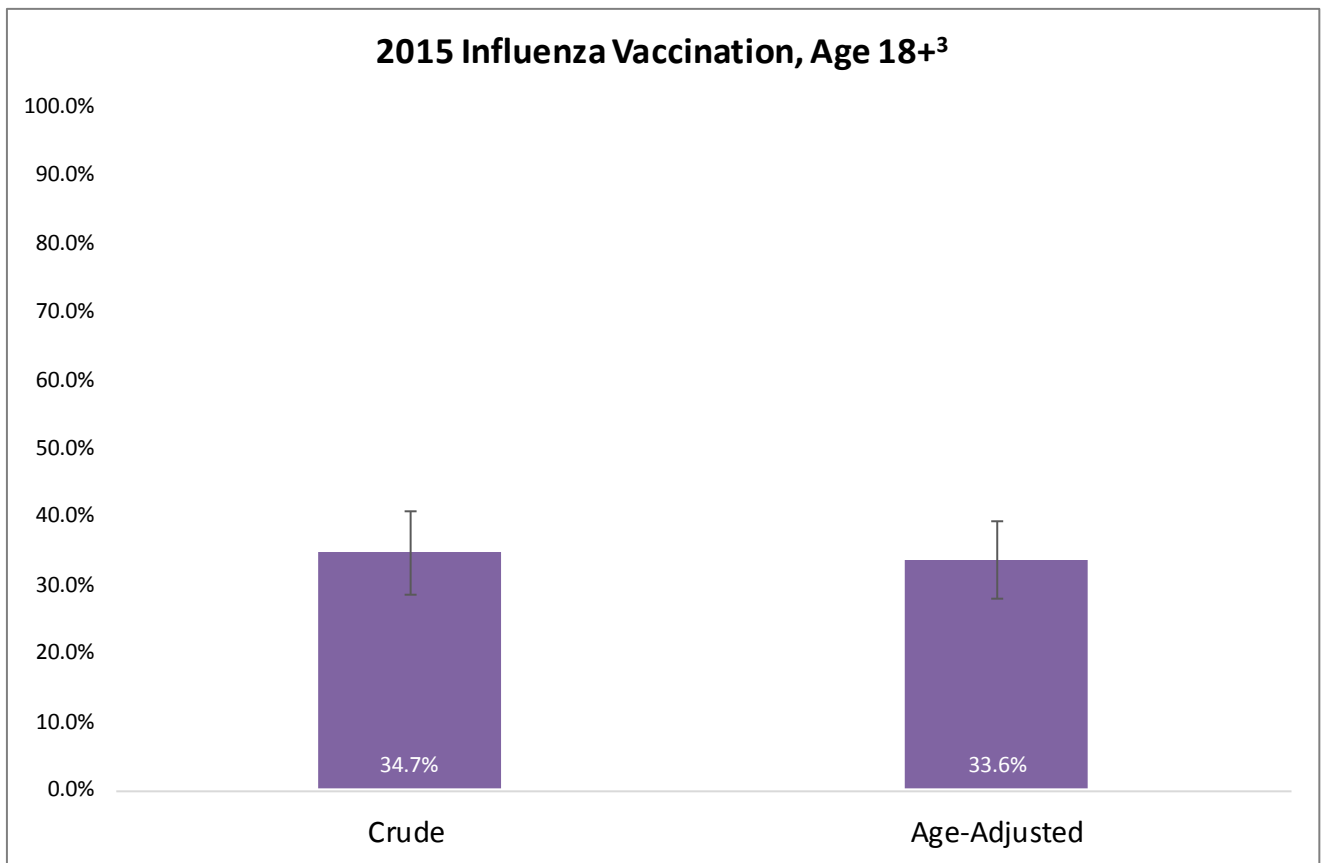


≥19 Years of Age <sup>6</sup>		
Adults in USIIS born on or before 07/1/1997		
Total	53,379	
	Total	Percent
≥1 dose Influenza last season*	14,154	26.5%
≥1 dose influenza in lifetime	32,111	60.2%
≥1 TDaP	18,175	34.0%
≥1 Varicella	2,744	5.1%
≥1 HPV	1,600	3.0%
≥1 Zoster	3,486	6.5%
≥1 MMR	15,603	29.2%
≥1 PCV13	4,127	7.7%
≥1PPSV23	5,955	11.2%
≥1 Hep A	13,221	24.8%
≥1 Hep B	14,691	27.5%
≥1 Meningococcal	3,935	7.4%
≥1 HIB	7,657	14.3%

\*Last flu season between 07/01/2015 and 6/30/2016

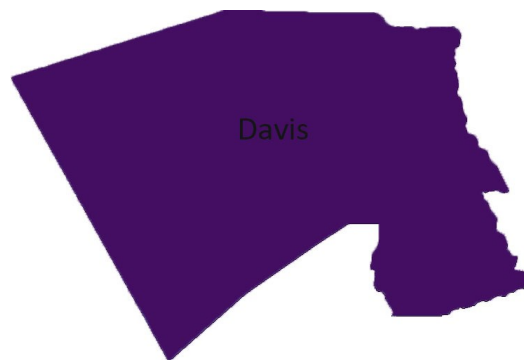


Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates. \* Use caution in interpreting, the estimate has a coefficient of variation >30%, and therefore is deemed unreliable by UDOH standards.



Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates.

**Early Childhood Immunization**



24-35 months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2013 and 07/01/2014		
<b>Total</b>	5,974	
	<b>Total</b>	<b>Percent</b>
≥3 doses DTaP	5,384	90.1%
≥4 doses DTaP	4,470	74.8%
≥3 doses Polio	5,275	88.3%
≥1 dose MMR	5,162	86.4%
≥3 doses Hib	5,263	88.1%
≥1 dose Hib	5,904	98.8%
≥3 doses Hep B	5,155	86.3%
Hep B Birth dose	5,084	85.1%
≥1 dose Varicella	5,122	85.7%
≥3 doses PCV	5,284	88.4%
≥4 doses PCV	4,427	74.1%
≥2 doses Hep A	3,880	64.9%
≥1 dose Rotavirus	5,392	90.3%
4:3:1	4,272	71.5%
4:3:1:3	4,248	71.1%
4:3:1:4	4,055	67.9%
4:3:1:3:3	4,168	69.8%
4:3:1:0:3:1	4,169	69.8%
4:3:1:3:3:1	4,149	69.5%
4:3:1:4:3:1	3,981	66.6%
4:3:1:0:3:1:4	3,981	66.6%
4:3:1:3:3:1:4	3,975	66.5%

≤3 months of Age <sup>6</sup>		
Children in USIIS born between 03/02/2016 and 07/01/2016		
<b>Total</b>	1,726	
	<b>Total</b>	<b>Percent</b>
≥1 dose DTaP	1,716	99.4%
≥1 dose Polio	1,703	98.7%
≥1 dose Hib	1,711	99.1%
≥1 dose Hep B	1,698	98.4%
≥2 doses Hep B	1,567	90.8%
≥1 dose PCV	1,693	98.1%

≤5 months of Age <sup>6</sup>		
Children in USIIS born between 01/02/2016 and 07/01/2016		
<b>Total</b>	2,546	
	<b>Total</b>	<b>Percent</b>
≥2 doses DTaP	1,511	59.3%
≥2 doses Polio	1,503	59.0%
≥2 doses Hib	1,501	59.0%
≥2 doses Hep B	2,345	92.1%
≥2 doses PCV	1,492	58.6%



<13 Months of Age <sup>6</sup>		
Children in USIIS born between 06/02/2015 and 07/01/2016		
Total	5,765	
	Total	Percent
≥3 doses DTaP	3,120	54.1%
≥2 doses Polio	4,433	76.9%
≥1 dose MMR	1,086	18.8%
≥2 doses Hib	4,433	76.9%
≥3 doses Hib	3,020	52.4%
≥2 doses Hep B	5,402	93.7%
≥3 doses Hep B	3,190	55.3%
≥1 dose Varicella	1,055	18.3%
≥3 doses PCV	3,107	53.9%

<19 Months of Age <sup>6</sup>		
Children in USIIS born between 12/02/2014 and 07/01/2016		
Total	8,549	
	Total	Percent
≥3 doses DTaP	5,512	64.5%
≥4 doses DTaP	1,788	20.9%
≥3 doses Polio	5,433	63.6%
≥1 dose MMR	3,304	38.6%
≥3 doses Hib	5,397	63.1%
≥1 dose Hib	8,436	98.7%
≥3 doses Hep B	5,479	64.1%
≥1 dose Varicella	3,258	38.1%
≥3 doses PCV	5,471	64.0%
>4 doses PCV	2,577	30.1%
4:3:1	1,676	19.6%
4:3:1:3	1,674	19.6%
4:3:1:4	1,610	18.8%
4:3:1:3:3	1,620	18.9%
4:3:1:0:3	1,364	16.0%
4:3:1:4:3	1,568	18.3%
4:3:1:3:3:1	1,610	18.8%
4:3:1:0:3:1	1,612	18.9%
4:3:1:4:3:1	1,558	18.2%

<b>&lt;24 Months of Age<sup>6</sup></b>		
Children in USIIS born between 07/02/2014 and 07/01/2016		
<b>Total</b>	11,002	
	<b>Total</b>	<b>Percent</b>
≥3 doses DTaP	7,661	69.6%
≥4 doses DTaP	3,478	31.6%
≥3 doses Polio	7,542	68.6%
≥1 dose MMR	5,344	48.6%
≥3 doses Hib	7,524	68.4%
≥1 dose Hib	10,855	98.7%
≥3 doses Hep B	7,492	68.1%
≥1 dose Varicella	5,280	48.0%
≥3 doses PCV	7,582	68.9%
≥4 doses PCV	4,292	39.0%
4:3:1	2,985	27.1%
4:3:1:3	3,284	29.8%
4:3:1:4	3,153	28.7%
4:3:1:3:3	3,188	29.0%
4:3:1:0:3	3,194	29.0%
4:3:1:4:3	3,079	28.0%
4:3:1:3:3:1	3,165	28.8%
4:3:1:0:3:1	3,171	28.8%
4:3:1:4:3:1	3,059	27.8%
4:3:1:3:3:1:4	3,040	27.6%

12-17 Years of Age <sup>6</sup>						
Children in USIIS born between 07/02/1998 and 07/01/2004						
Total	38,723					
	Total	Total %	Female Total	Female %	Male Total	Male %
1 HPV	16,220	41.9%	9,286	49.5%	6,911	34.7%
2 HPV	9,519	24.6%	5,655	30.2%	3,849	19.3%
3 HPV	5,542	14.3%	3,435	18.3%	2,099	10.5%

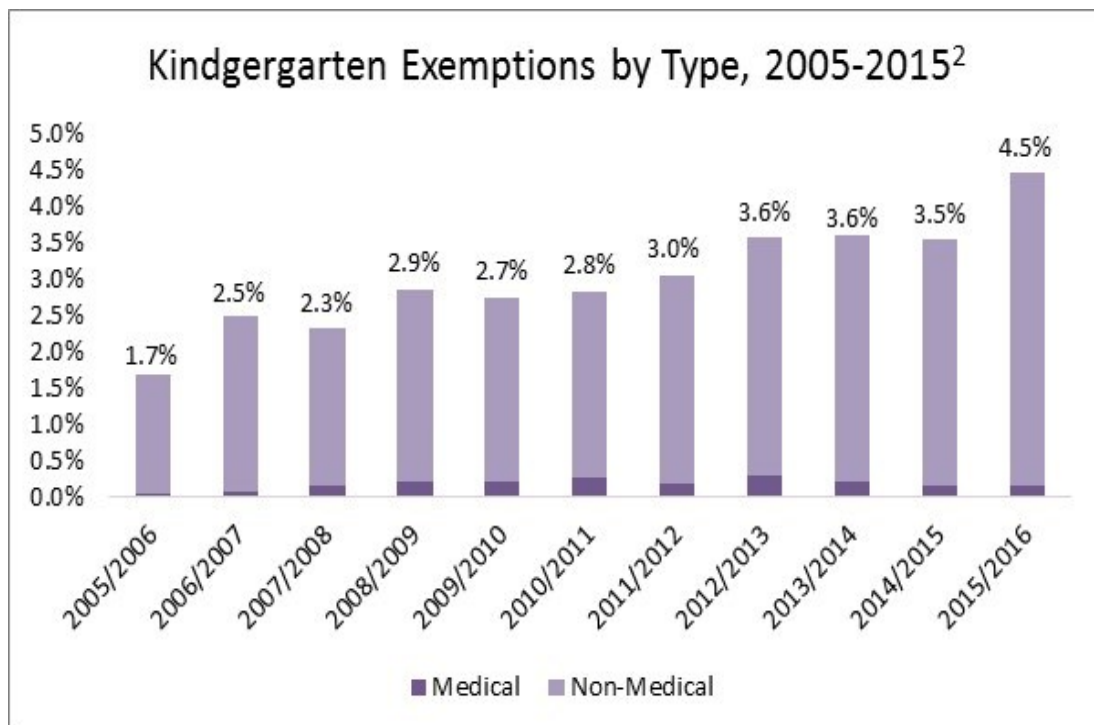
12-17 Years of Age <sup>6</sup>		
Children in USIIS born between 07/02/1998 and 07/01/2004		
Total	38,723	
	Total	Percent
≥1 dose Meningococcal	25,235	65.2%
≥1 TDaP	27,871	72.0%

≤18 Years of Age <sup>6</sup>		
Children in USIIS born after 07/02/1997		
Total	118,693	
	Total	Percent
≥1 dose Influenza in lifetime	78,667	66.3%
≥1 dose Influenza last flu season	33,283	28.0%

\*Last flu season between 07/01/2015 and 6/30/2016

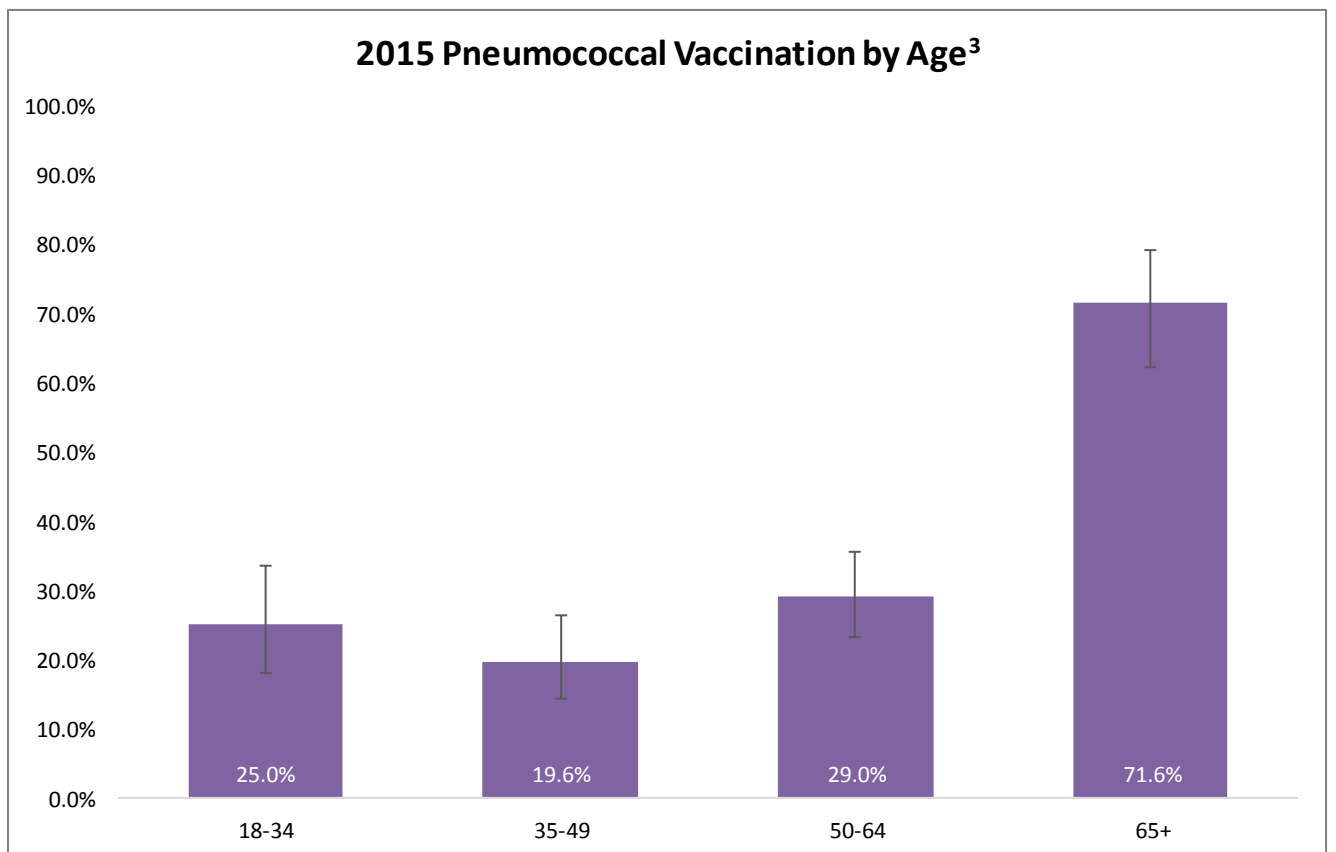
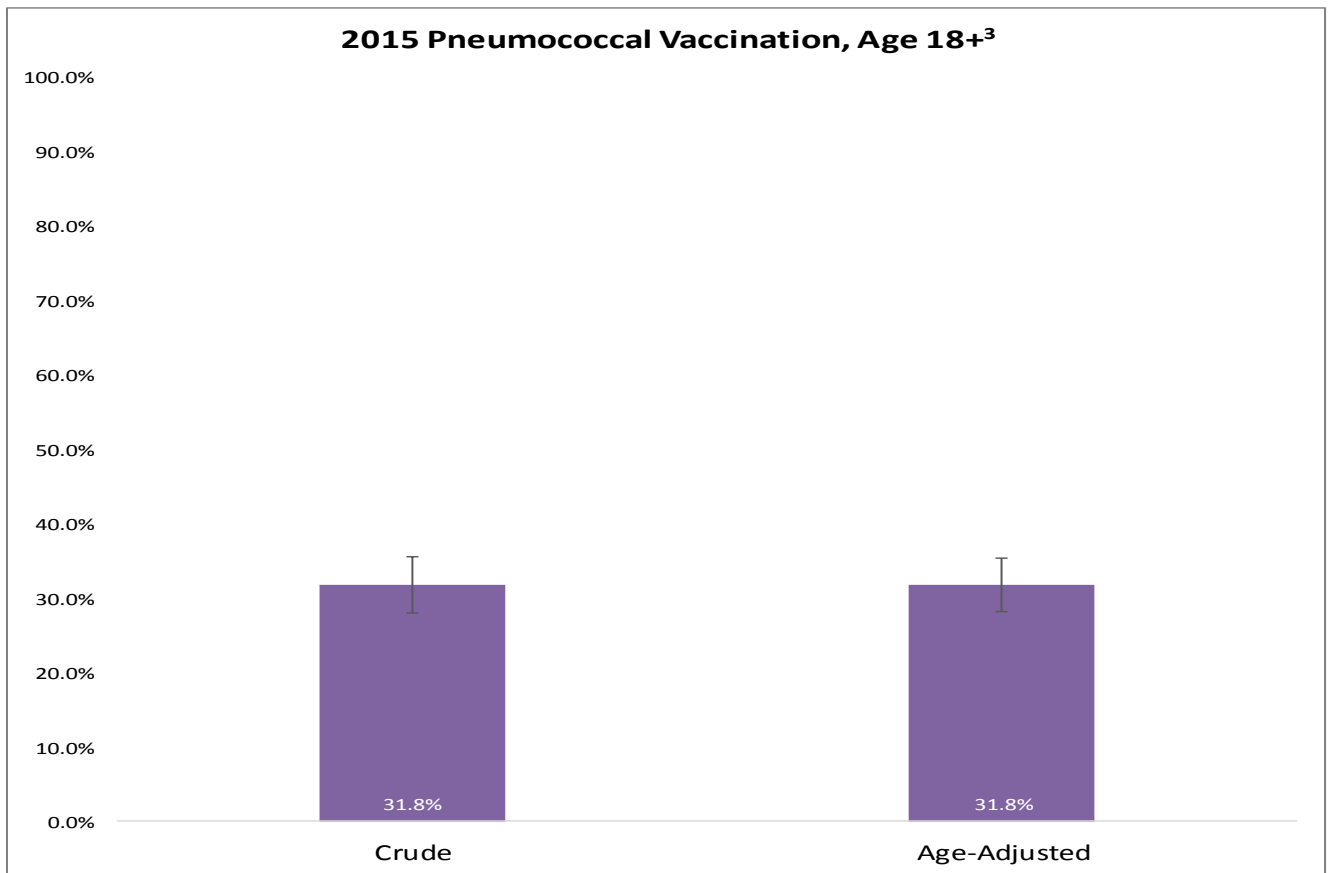
Adequately Immunized by School District 2015 <sup>2</sup>		
Davis School District		
	Adequately Immunized	Total Exemptions
Kindergarten School Entry	92.2%	4.5%
Second-Dose Measles (K-12)	97.2%	2.7%
7th Grade Entry	93.3%	5.2%

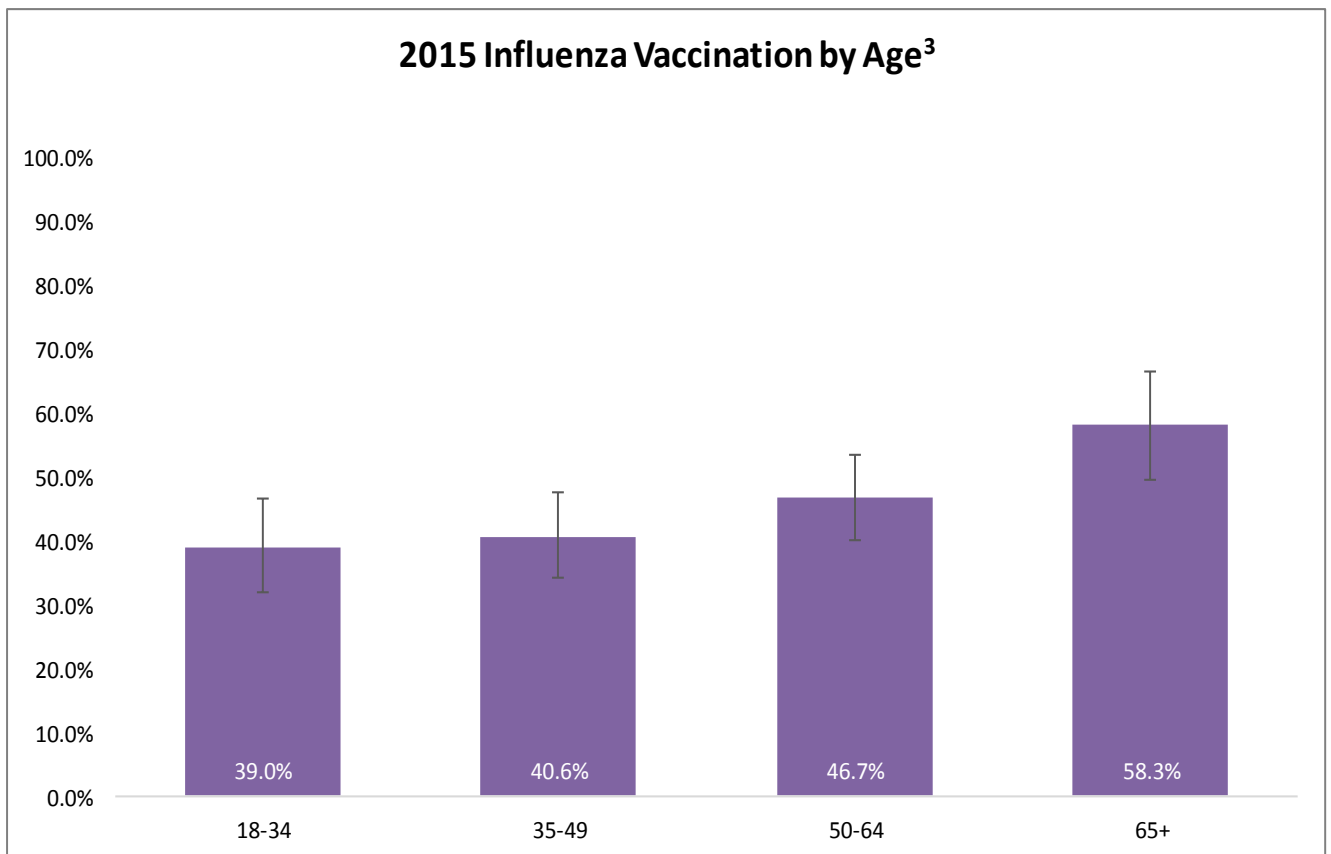
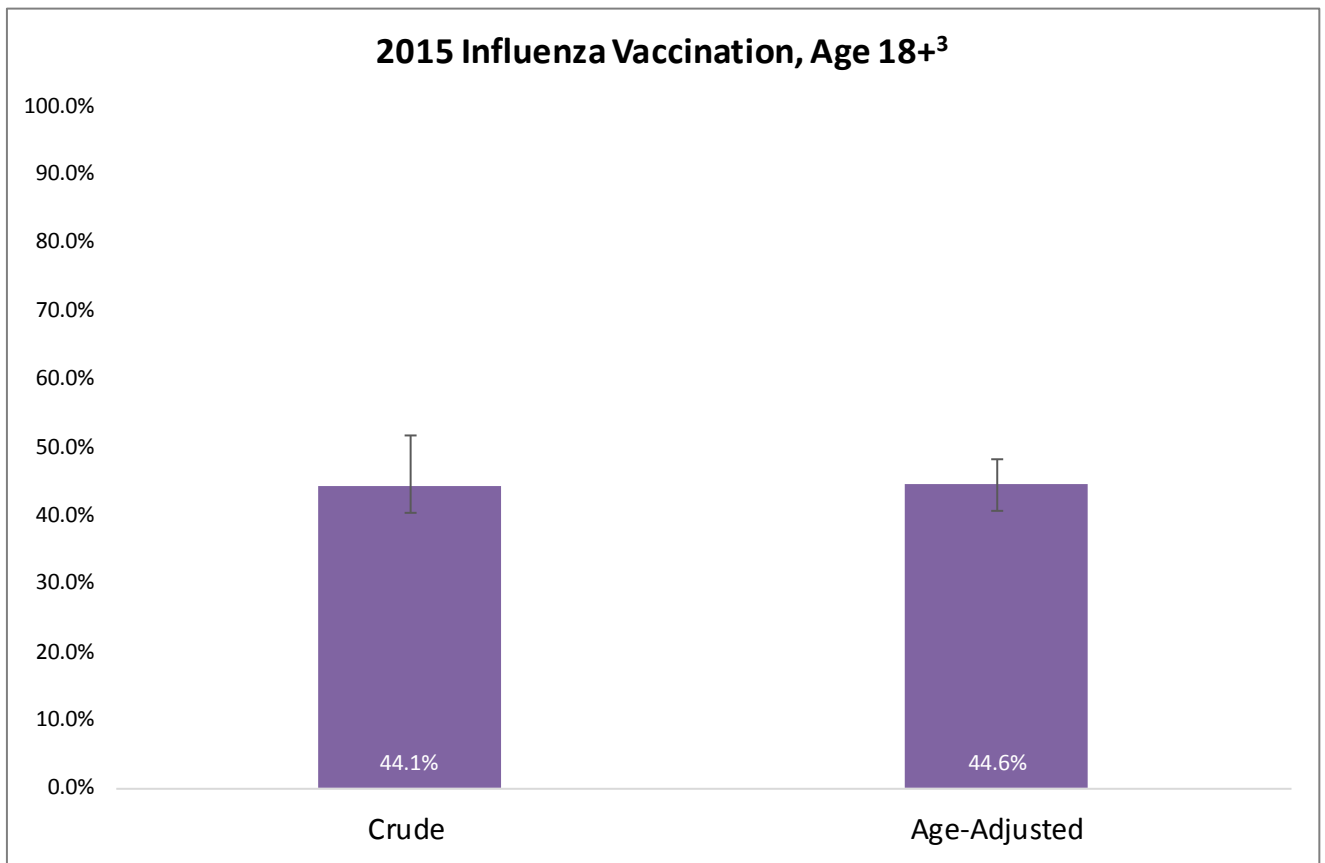
Immunized for Child Care 2015 <sup>2</sup>		
	Adequately Immunized	Total Exemptions
Licensed Child Care Facilities	89.8%	3.0%
Head Start Centers	94.0%	1.2%



≥19 Years of Age <sup>6</sup>		
Adults in USIIS born on or before 07/1/1997		
Total	215,423	
	Total	Percent
≥1 dose Influenza last season*	46,682	21.7%
≥1 dose influenza in lifetime	110,907	51.5%
≥1 TDaP	79,981	37.1%
≥1 Varicella	14,072	6.5%
≥1 HPV	9,228	4.3%
≥1 Zoster	13,049	6.1%
≥1 MMR	82,349	38.2%
≥1 PCV13	11,141	5.2%
≥1PPSV23	19,414	9.0%
≥1 Hep A	55,509	25.8%
≥1 Hep B	65,449	30.4%
≥1 Meningococcal	20,014	9.3%
≥1 HIB	34,214	15.9%

\*Last flu season between 07/01/2015 and 6/30/2016





## Early Childhood Immunization



24-35 months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2013 and 07/01/2014		
Total	17,836	
	Total	Percent
≥3 doses DTaP	16,686	93.6%
≥4 doses DTaP	14,865	83.3%
≥3 doses Polio	16,427	92.1%
≥1 dose MMR	16,239	91.0%
≥3 doses Hib	16,193	90.8%
≥1 dose Hib	17,673	99.1%
≥3 doses Hep B	16,481	92.4%
Hep B Birth dose	14,615	81.9%
≥1 dose Varicella	15,996	89.7%
≥3 doses PCV	16,412	92.0%
≥4 doses PCV	14,457	81.1%
≥2 doses Hep A	13,113	73.5%
≥1 dose Rotavirus	16,238	91.0%
4:3:1	14,617	82.0%
4:3:1:3	14,487	81.2%
4:3:1:4	13,851	77.7%
4:3:1:3:3	14,341	80.4%
4:3:1:0:3:1	14,363	80.5%
4:3:1:3:3:1	14,244	79.9%
4:3:1:4:3:1	13,669	76.6%
4:3:1:0:3:1:4	13,669	76.6%
4:3:1:3:3:1:4	13,614	76.3%

≤3 months of Age <sup>6</sup>		
Children in USIIS born between 03/02/2016 and 07/01/2016		
Total	5,299	
	Total	Percent
≥1 dose DTaP	5,269	99.4%
≥1 dose Polio	5,216	98.4%
≥1 dose Hib	5,234	98.8%
≥1 dose Hep B	5,227	98.6%
≥2 doses Hep B	4,813	90.8%
≥1 dose PCV	5,224	98.6%

≤5 months of Age <sup>6</sup>		
Children in USIIS born between 01/02/2016 and 07/01/2016		
Total	7,786	
	Total	Percent
≥2 doses DTaP	4,697	60.3%
≥2 doses Polio	4,646	59.7%
≥2 doses Hib	4,651	59.7%
≥2 doses Hep B	7,221	92.7%
≥2 doses PCV	4,673	60.0%



<13 Months of Age <sup>6</sup>		
Children in USIIS born between 06/02/2015 and 07/01/2016		
Total	17,709	
	Total	Percent
≥3 doses DTaP	10,611	59.9%
≥2 doses Polio	14,074	79.5%
≥1 dose MMR	3,200	18.1%
≥2 doses Hib	14,042	79.3%
≥3 doses Hib	8,799	49.7%
≥2 doses Hep B	16,797	94.9%
≥3 doses Hep B	12,160	68.7%
≥1 dose Varicella	2,798	15.8%
≥3 doses PCV	10,500	59.3%

<19 Months of Age <sup>6</sup>		
Children in USIIS born between 12/02/2014 and 07/01/2016		
Total	26,144	
	Total	Percent
≥3 doses DTaP	18,354	70.2%
≥4 doses DTaP	5,979	22.9%
≥3 doses Polio	18,131	69.4%
≥1 dose MMR	10,246	39.2%
≥3 doses Hib	16,236	62.1%
≥1 dose Hib	25,916	99.1%
≥3 doses Hep B	19,798	75.7%
≥1 dose Varicella	9,643	36.9%
≥3 doses PCV	18,177	69.5%
>4 doses PCV	7,929	30.3%
4:3:1	5,770	22.1%
4:3:1:3	5,737	21.9%
4:3:1:4	5,584	21.4%
4:3:1:3:3	5,652	21.6%
4:3:1:0:3	4,715	18.0%
4:3:1:4:3	5,516	21.1%
4:3:1:3:3:1	5,611	21.5%
4:3:1:0:3:1	5,639	21.6%
4:3:1:4:3:1	5,484	21.0%

<24 Months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2014 and 07/01/2016		
Total	33,672	
	Total	Percent
≥3 doses DTaP	25,369	75.3%
≥4 doses DTaP	11,915	35.4%
≥3 doses Polio	25,033	74.3%
≥1 dose MMR	16,865	50.1%
≥3 doses Hib	22,999	68.3%
≥1 dose Hib	33,386	99.2%
≥3 doses Hep B	26,684	79.2%
≥1 dose Varicella	16,171	48.0%
≥3 doses PCV	25,123	74.6%
≥4 doses PCV	13,872	41.2%
4:3:1	10,472	31.1%
4:3:1:3	11,505	34.2%
4:3:1:4	11,179	33.2%
4:3:1:3:3	11,336	33.7%
4:3:1:0:3	11,396	33.8%
4:3:1:4:3	11,035	32.8%
4:3:1:3:3:1	11,262	33.4%
4:3:1:0:3:1	11,320	33.6%
4:3:1:4:3:1	10,974	32.6%
4:3:1:3:3:1:4	10,921	32.4%

12-17 Years of Age <sup>6</sup>						
Children in USIIS born between 07/02/1998 and 07/01/2004						
Total	134,598					
	Total	Total %	Female Total	Female %	Male Total	Male %
1 HPV	61,641	45.8%	33,198	50.5%	28,310	41.4%
2 HPV	41,079	30.52%	23,014	35.0%	17,981	26.3%
3 HPV	27,127	20.2%	15,778	24.0%	11,299	16.5%

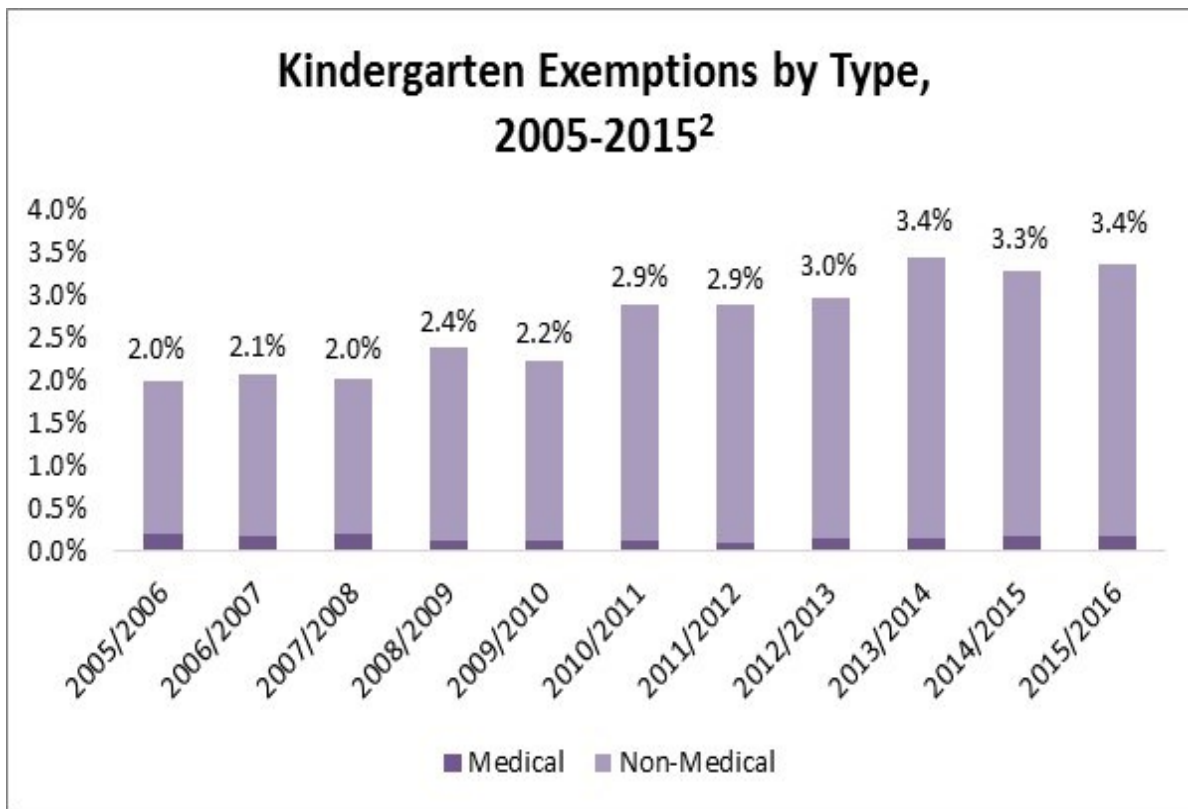
12-17 Years of Age <sup>6</sup>		
Children in USIIS born between 07/02/1998 and 07/01/2004		
Total	134,598	
	Total	Percent
≥1 dose Meningococcal	83,523	62.1%
≥1 dose Tdap	92,749	68.9%

≤18 Years of Age <sup>6</sup>		
Children in USIIS born after 07/1/1997		
Total	392,781	
	Total	Percent
≥1 dose Influenza in lifetime	265,256	67.5%
≥1 dose Influenza in last season*	112,493	28.6%

\*Last flu season between 07/01/2015 and 6/30/2016

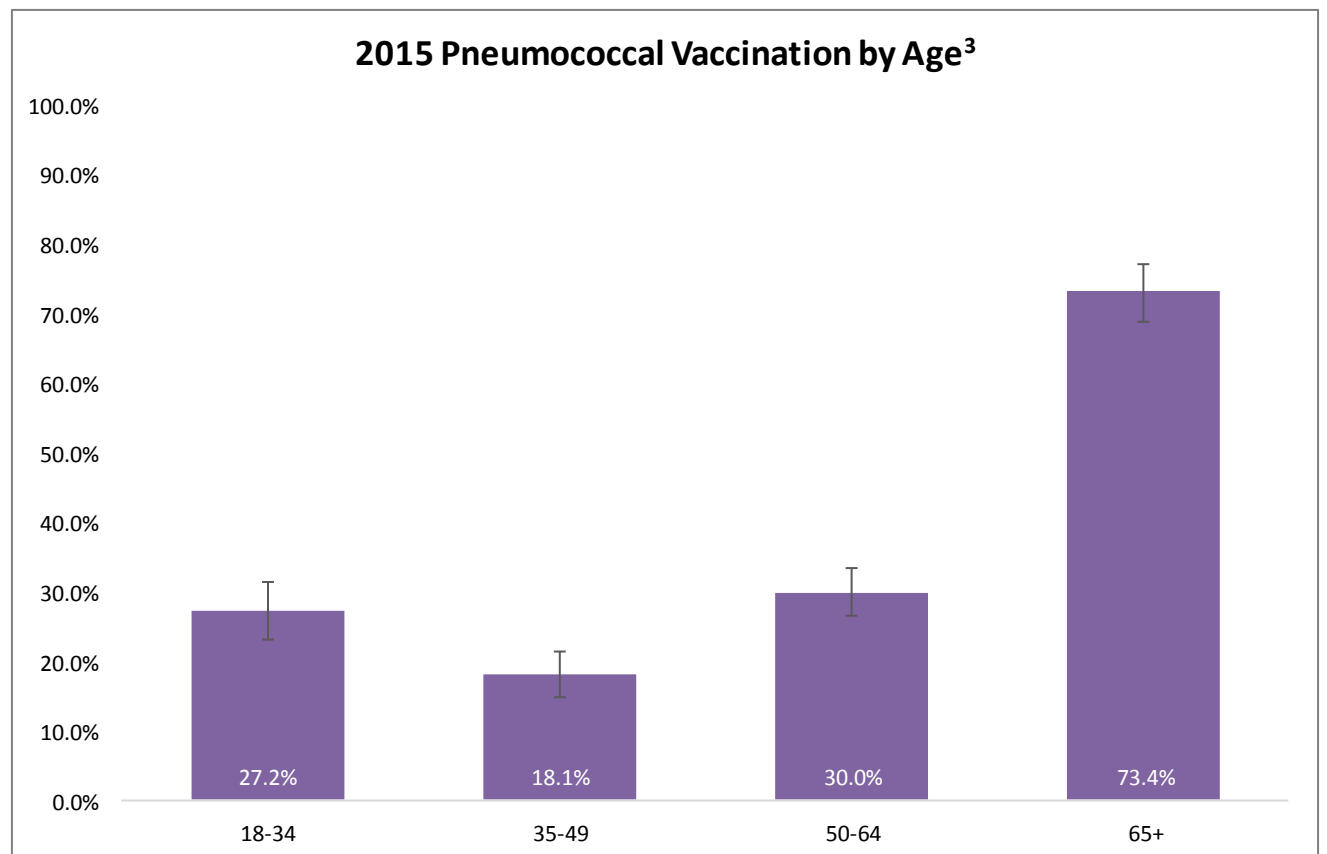
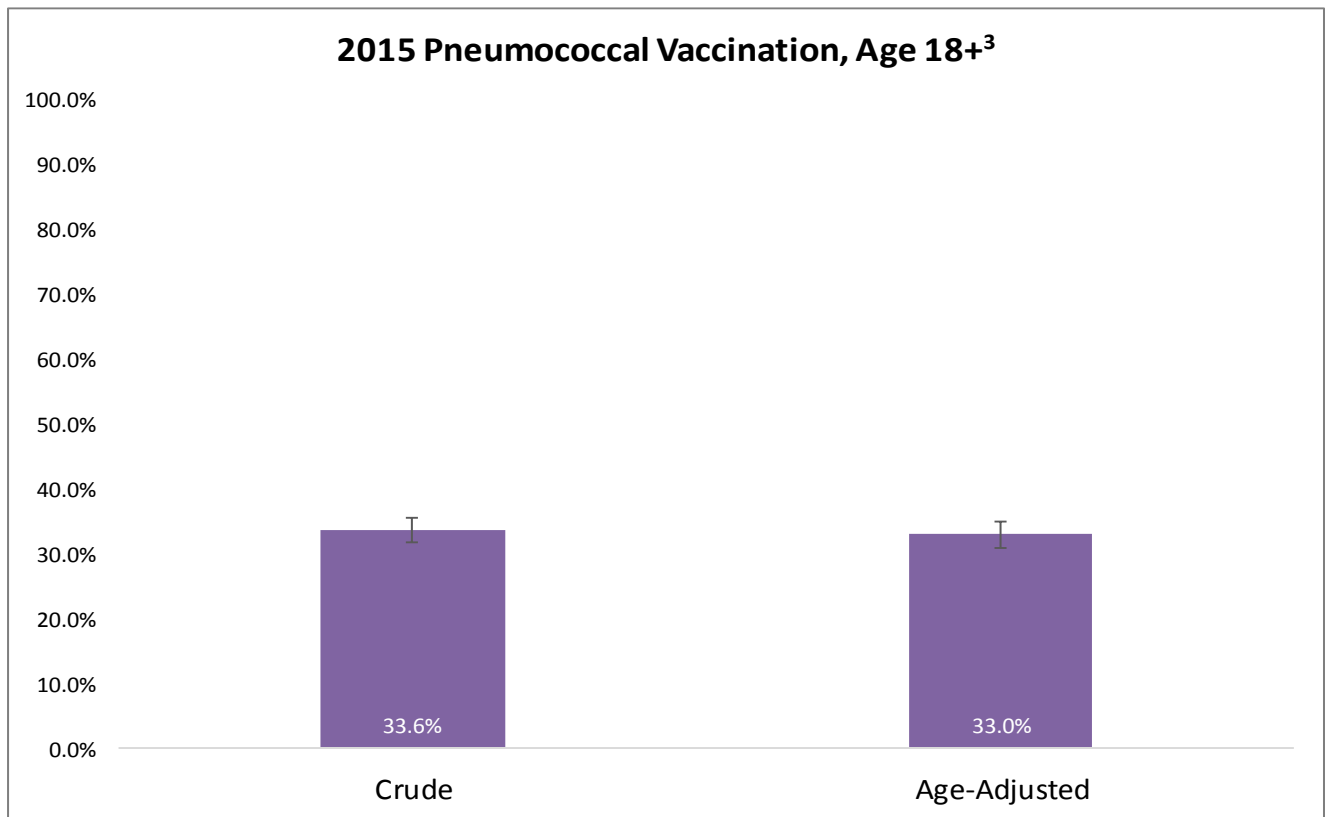
Adequately Immunized by School District 2015 <sup>2</sup>										
	Canyons		Granite		Jordan		Murray		Salt Lake	
	Adequate Immun	Total Exempt	Adequate Immun	Total Exempt	Adequate Immun	Total Exempt	Adequate Immun	Total Exempt	Adequate Immun	Total Exempt
<b>Kindergarten School Entry</b>	92.6%	4.8%	93.8%	2.4%	93.2%	3.8%	83.9%	1.8%	95.8%	2.9%
<b>Second-Dose Measles (K-12)</b>	96.9%	3.1%	98.1%	1.6%	97.1%	2.8%	97.7%	1.5%	98.4%	1.5%
<b>7th Grade Entry</b>	94.2%	5.1%	97.1%	2.2%	94.0%	3.8%	95.3%	1.2%	97.4%	1.6%

Immunized for Child Care 2015 <sup>2</sup>		
	Adequately Immunized	Total Exemptions
<b>Licensed Child Care Facilities</b>	92.7%	2.0%
<b>Head Start Centers</b>	100%	0.0%

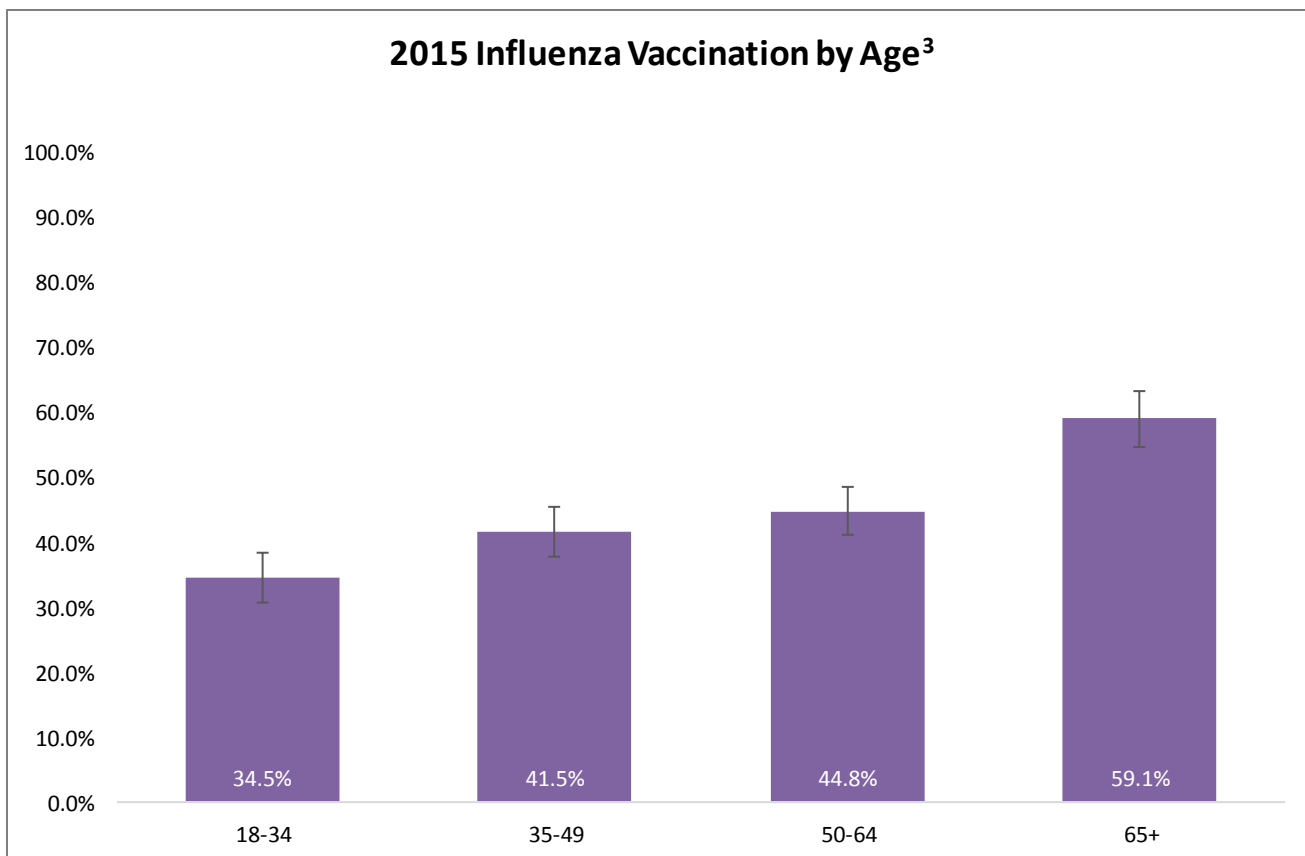
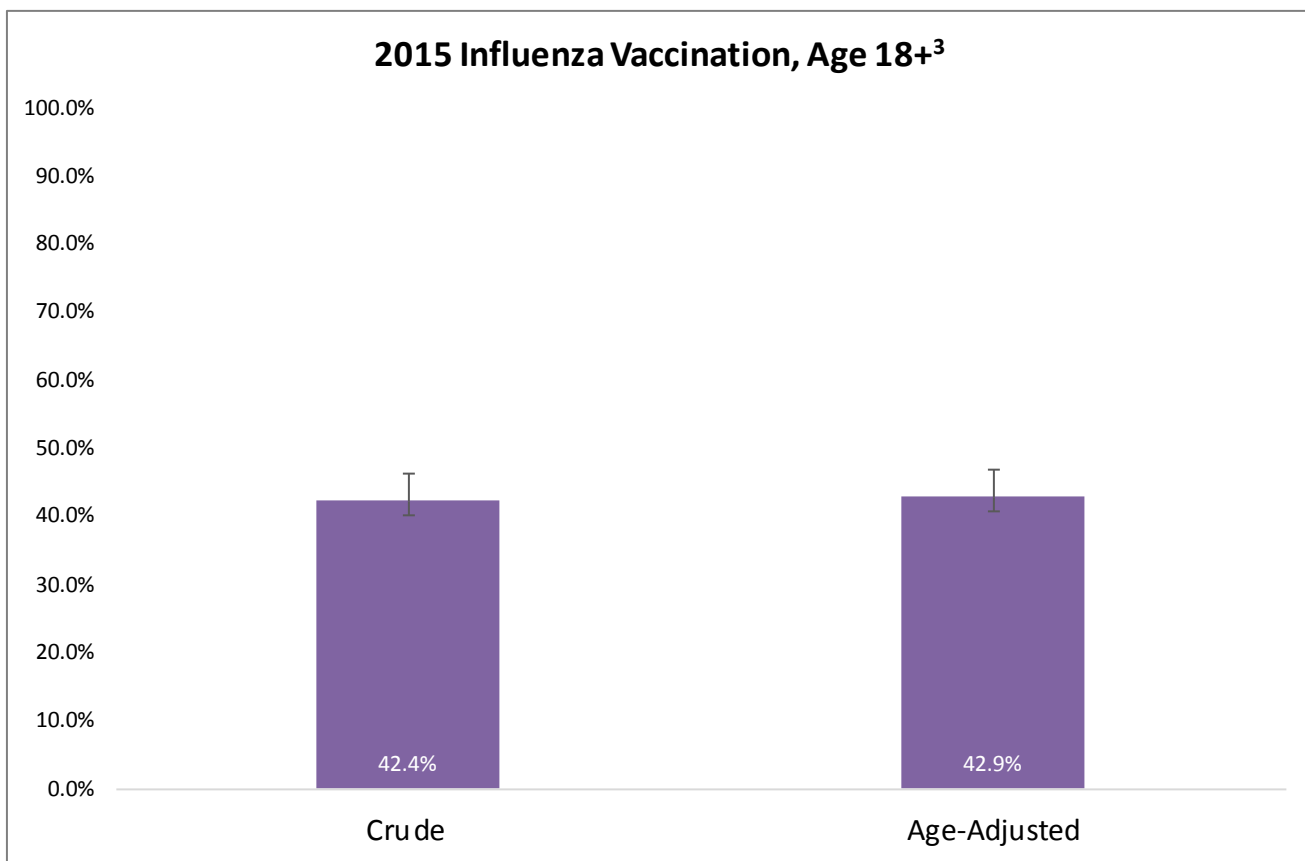


<b>≥19 Years of Age<sup>6</sup></b>		
Adults in USIIS born on or before 07/1/1997		
<b>Total</b>	754,706	
	<b>Total</b>	<b>Percent</b>
≥1 dose Influenza last season*	163,050	21.6%
≥1 dose influenza in lifetime	405,635	53.7%
≥1 TDaP	284,453	37.7%
≥1 Varicella	75,190	10.0%
≥1 HPV	42,593	5.6%
≥1 Zoster	40,222	5.3%
≥1 MMR	277,654	36.8%
≥1 PCV13	42,646	5.7%
≥1PPSV23	75,128	10.0%
≥1 Hep A	219,987	29.1%
≥1 Hep B	252,229	33.4%
≥1 Meningococcal	80,844	10.7%
≥1 HIB	122,372	16.2%

\*Last flu season between 07/01/2015 and 6/30/2016



Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates.



Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates.

**Early Childhood Immunization**



24-35 months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2013 and 07/01/2014		
Total	219	
	Total	Percent
≥3 doses DTaP	180	82.2%
≥4 doses DTaP	147	67.1%
≥3 doses Polio	176	80.4%
≥1 dose MMR	174	79.5%
≥3 doses Hib	169	77.2%
≥1 dose Hib	214	97.7%
≥3 doses Hep B	189	86.3%
Hep B Birth dose	183	83.6%
≥1 dose Varicella	173	79.0%
≥3 doses PCV	176	80.4%
≥4 doses PCV	128	58.4%
≥2 doses Hep A	112	51.1%
≥1 dose Rotavirus	179	81.7%
4:3:1	143	65.3%
4:3:1:3	140	63.9%
4:3:1:4	120	54.8%
4:3:1:3:3	139	63.5%
4:3:1:0:3:1	142	64.8%
4:3:1:3:3:1	139	63.5%
4:3:1:4:3:1	120	54.8%
4:3:1:0:3:1:4	120	54.8%
4:3:1:3:3:1:4	119	54.3%

≤3 months of Age <sup>6</sup>		
Children in USIIS born between 03/02/2016 and 07/01/2016		
Total	54	
	Total	Percent
≥1 dose DTaP	54	100%
≥1 dose Polio	54	100%
≥1 dose Hib	54	100%
≥1 dose Hep B	54	100%
≥2 doses Hep B	51	94.4%
≥1 dose PCV	53	98.1%

≤5 months of Age <sup>6</sup>		
Children in USIIS born between 01/02/2016 and 07/01/2016		
Total	97	
	Total	Per-
≥2 doses DTaP	58	59.8%
≥2 doses Polio	58	59.8%
≥2 doses Hib	58	59.8%
≥2 doses Hep B	89	91.8%
≥2 doses PCV	58	59.8%



<b>&lt;13 Months of Age<sup>6</sup></b>		
Children in USIIS born between 06/02/2015 and 07/01/2016		
Total	225	
	Total	Percent
≥3 doses DTaP	125	55.6%
≥2 doses Polio	180	80.0%
≥1 dose MMR	37	16.4%
≥2 doses Hib	179	79.6%
≥3 doses Hib	105	46.7%
≥2 doses Hep B	214	95.1%
≥3 doses Hep B	145	64.4%
≥1 dose Varicella	38	16.9%
≥3 doses PCV	122	54.2%

<b>&lt;19 Months of Age<sup>6</sup></b>		
Children in USIIS born between 12/02/2014 and 07/01/2016		
Total	342	
	Total	Percent
≥3 doses DTaP	222	64.9%
≥4 doses DTaP	48	14.0%
≥3 doses Polio	220	64.3%
≥1 dose MMR	119	34.8%
≥3 doses Hib	191	55.8%
≥1 dose Hib	342	100%
≥3 doses Hep B	256	74.9%
≥1 dose Varicella	119	34.8%
≥3 doses PCV	217	63.5%
>4 doses PCV	88	25.7%
4:3:1	46	13.5%
4:3:1:3	46	13.5%
4:3:1:4	44	12.9%
4:3:1:3:3	46	13.5%
4:3:1:0:3	40	11.7%
4:3:1:4:3	44	12.9%
4:3:1:3:3:1	46	13.5%
4:3:1:0:3:1	46	13.5%
4:3:1:4:3:1	44	12.9%

<24 Months of Age <sup>6</sup>		
Children in USIIS born between 7/02/2014 and 07/01/2016		
Total	441	
	Total	Percent
≥3 doses DTaP	310	70.3%
≥4 doses DTaP	107	24.3%
≥3 doses Polio	308	69.8%
≥1 dose MMR	199	45.1%
≥3 doses Hib	274	62.1%
≥1 dose Hib	441	100%
≥3 doses Hep B	345	78.2%
≥1 dose Varicella	199	45.1%
≥3 doses PCV	304	68.9%
≥4 doses PCV	149	33.8%
4:3:1	96	21.8%
4:3:1:3	104	23.6%
4:3:1:4	95	21.5%
4:3:1:3:3	104	23.6%
4:3:1:0:3	104	23.6%
4:3:1:4:3	95	21.5%
4:3:1:3:3:1	104	23.6%
4:3:1:0:3:1	104	23.6%
4:3:1:4:3:1	95	21.5%
4:3:1:3:3:1:4	95	21.5%

12-17 Years of Age <sup>6</sup>						
Children in USIIS born between 07/02/1998 and 07/01/2004						
Total	2,051					
	Total	Total %	Female Total	Female %	Male Total	Male %
1 HPV	963	47.0%	523	53.2%	439	41.5%
2 HPV	693	33.79%	381	38.7%	311	29.4%
3 HPV	487	23.7%	279	28.4%	207	19.5%

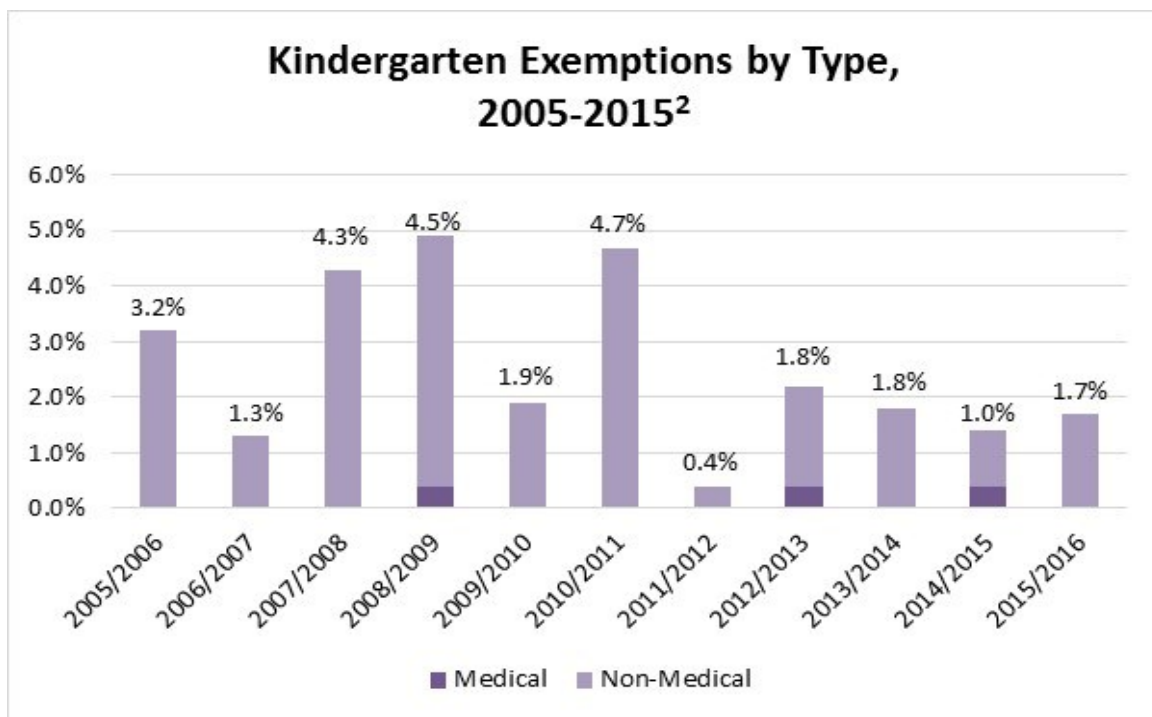
12-17 Years of Age <sup>6</sup>		
Children in USIIS born between 07/02/1998 and 07/01/2004		
Total	2,051	
	Total	Percent
≥1 dose Meningococcal	1,259	61.4%
≥1 TDaP	1,521	74.2%

≤18 Years of Age <sup>6</sup>		
Children in USIIS born after 07/2/1997		
Total	5,690	
	Total	Percent
≥1 dose Influenza in lifetime	3,268	57.4%
≥1 dose Influenza last flu season*	1,291	22.7%

\*Last flu season between 07/01/2015 and 6/30/2016

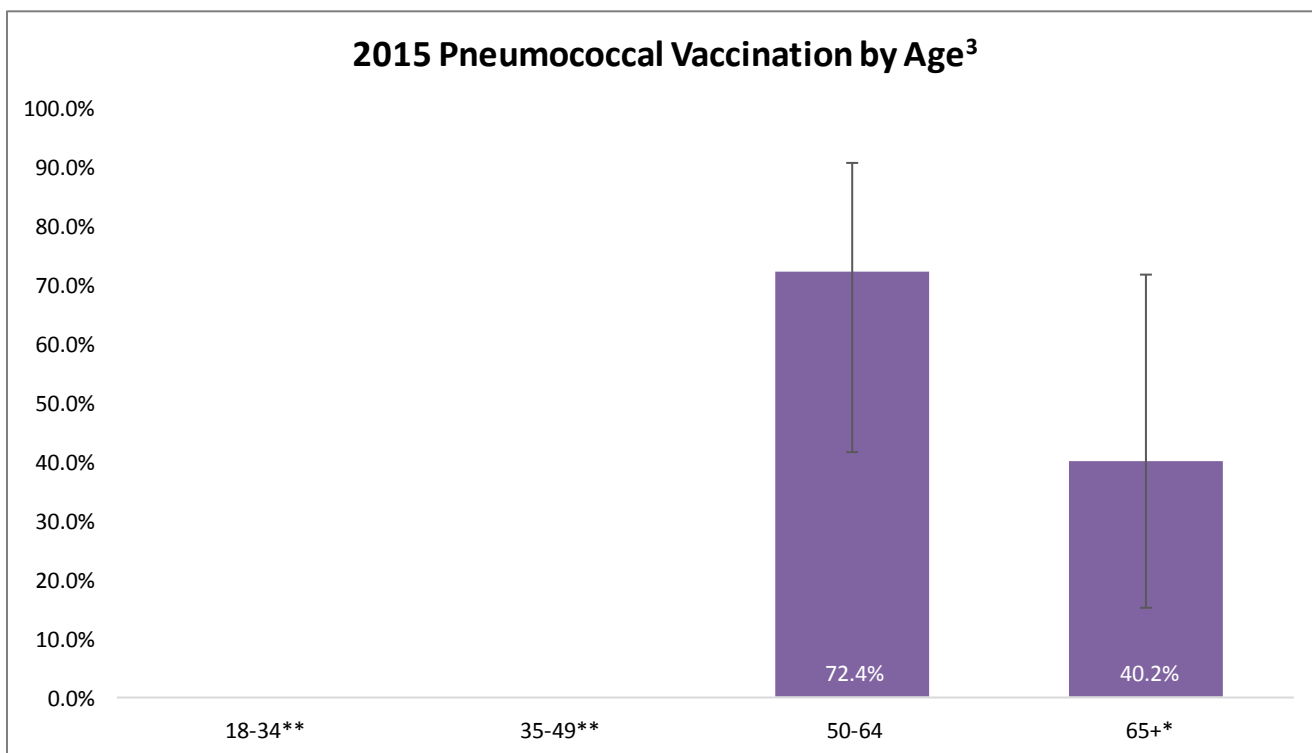
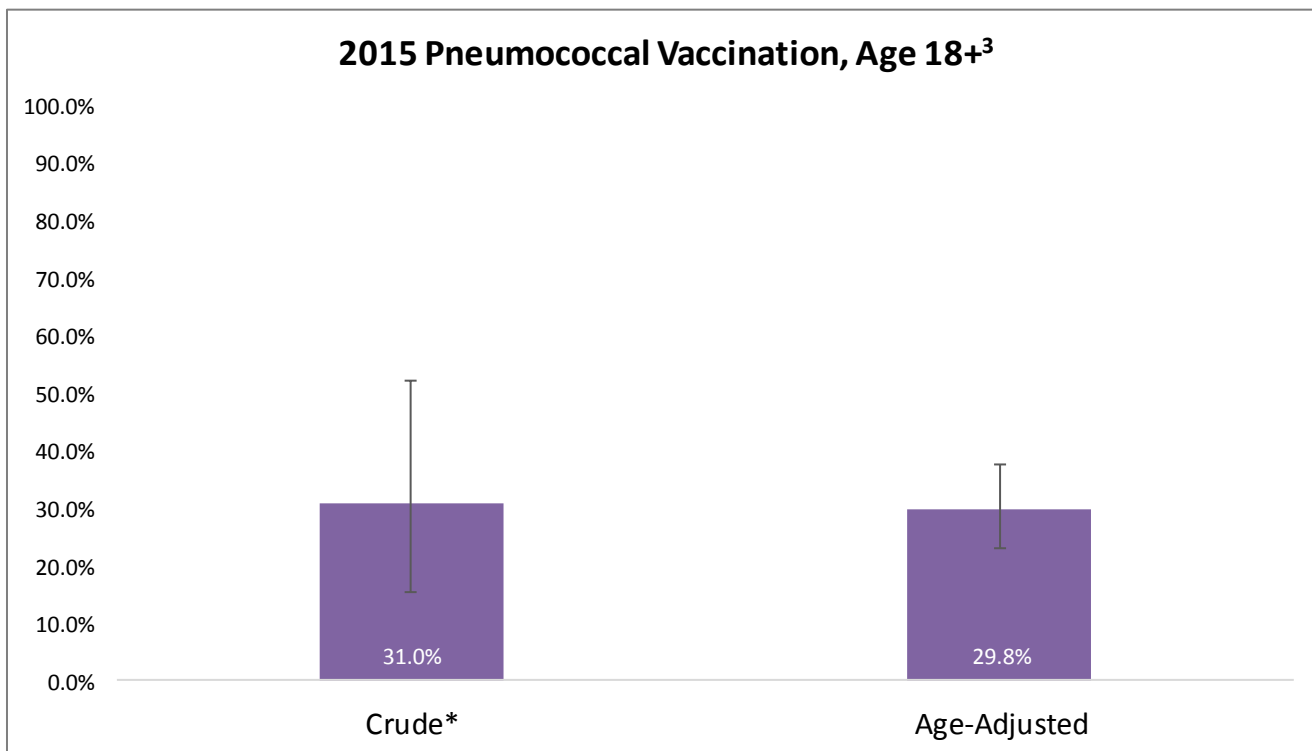
Adequately Immunized by School District 2015 <sup>2</sup>		
San Juan		
	Adequately Immunized	Total Exemptions
Kindergarten School Entry	87.6%	1.7%
Second-Dose Measles (K-12)	97.3%	2.1%
7th Grade Entry	87.7%	1.6%

Immunized for Child Care 2015 <sup>2</sup>		
	Adequately Immunized	Total Exemptions
Licensed Child Care Facilities	85.7%	2.9%
Head Start Centers	N/A	N/A

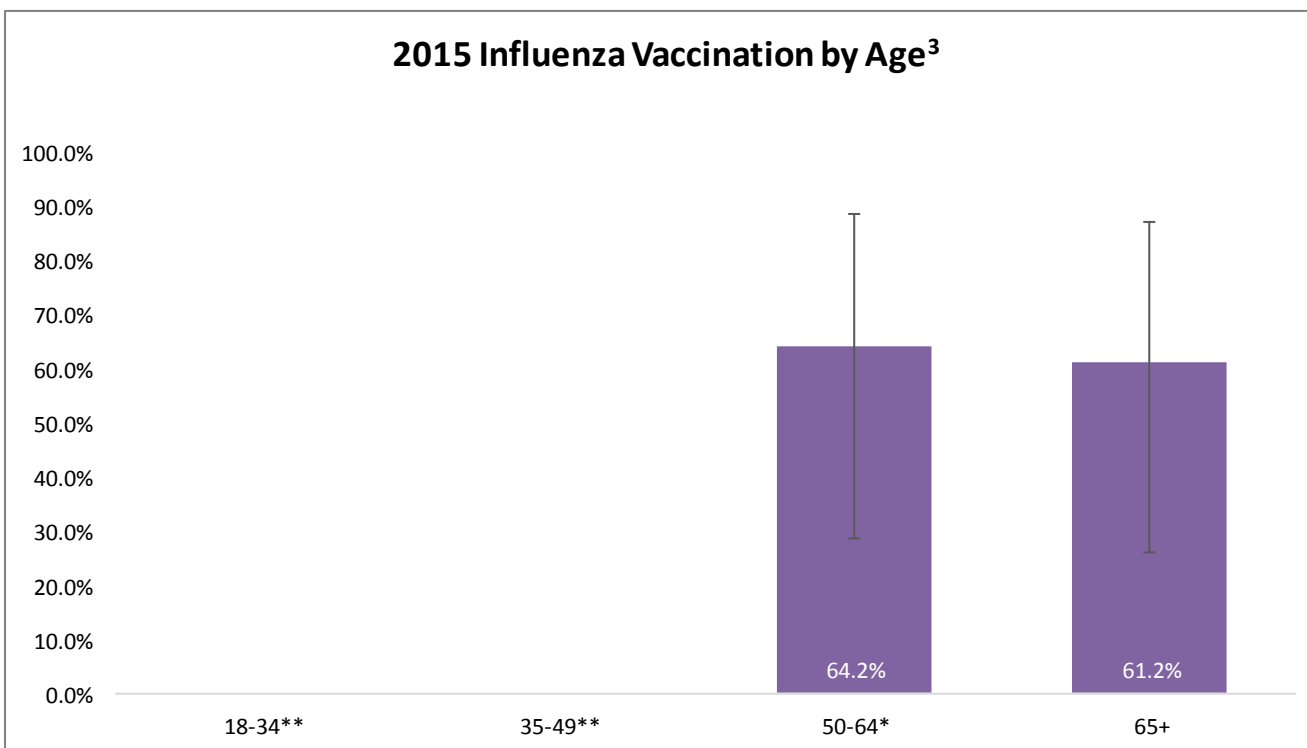
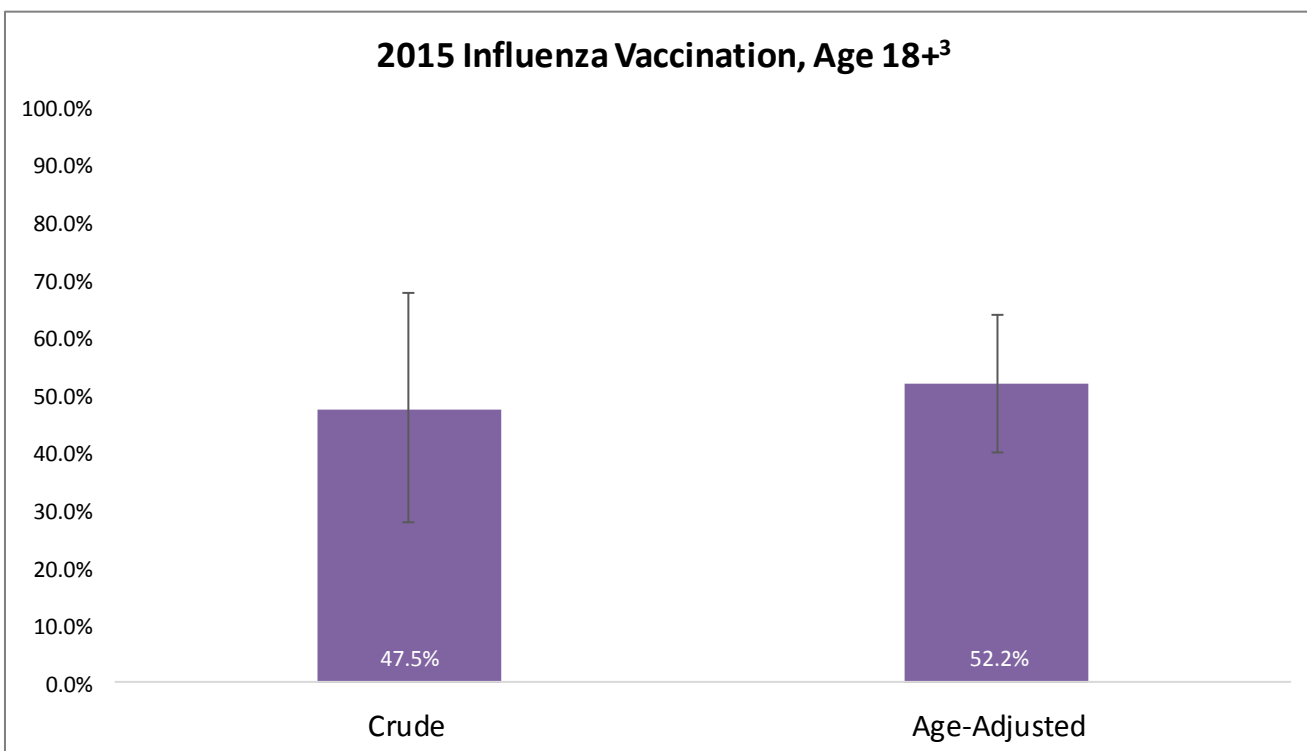


<b>≥19 Years of Age<sup>6</sup></b>		
Adults in USIIS born on or before 07/1/1997		
<b>Total</b>	8,887	
	<b>Total</b>	<b>Percent</b>
≥1 dose Influenza last season*	2,225	25.0%
≥1 dose influenza in lifetime	6,508	73.2%
≥1 TDaP	3,879	43.6%
≥1 Varicella	627	7.1%
≥1 HPV	687	7.7%
≥1 Zoster	431	4.8%
≥1 MMR	2,251	25.3%
≥1 PCV13	149	1.7%
≥1PPSV23	1,376	15.5%
≥1 Hep A	2,965	33.4%
≥1 Hep B	3,366	37.9%
≥1 Meningococcal	1,189	13.4%
≥1 HIB	1,628	18.3%

\*Last flu season between 07/01/2015 and 6/30/2016

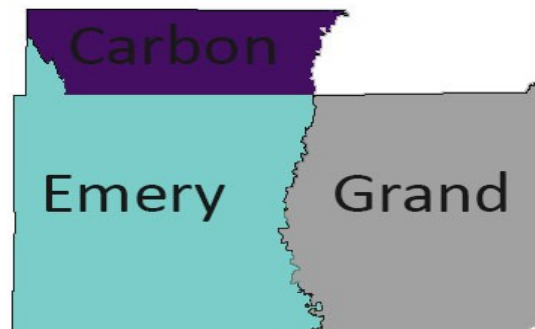


Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates. \*Use caution in interpreting, the estimate has a coefficient of variation > 30% and is therefore deemed unreliable by UDOH standards. \*\*The estimate has been suppressed because 1) The relative standard error is greater than 50% or when the relative standard error can't be determined. Consider aggregating years to decrease the relative standard error and improve the reliability of the estimate. 2) the observed number of events is very small and not appropriate for publication, or 3) it could be used to calculate the number in a cell that has been suppressed.



Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates. \*Use caution in interpreting, the estimate has a coefficient of variation > 30% and is therefore deemed unreliable by UDOH standards. \*\*The estimate has been suppressed because 1) The relative standard error is greater than 50% or when the relative standard error can't be determined. Consider aggregating years to decrease the relative standard error and improve the reliability of the estimate. 2) the observed number of events is very small and not appropriate for publication, or 3) it could be used to calculate the number in a cell that has been suppressed.

**Early Childhood Immunization**



24-35 months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2013 and 07/01/2014		
Total	383	
	Total	Percent
≥3 doses DTaP	280	73.1%
≥4 doses DTaP	212	55.4%
≥3 doses Polio	270	70.5%
≥1 dose MMR	280	73.1%
≥3 doses Hib	255	66.6%
≥1 dose Hib	357	93.2%
≥3 doses Hep B	283	73.9%
Hep B Birth dose	325	84.9%
≥1 dose Varicella	276	72.1%
≥3 doses PCV	271	70.8%
≥4 doses PCV	192	50.1%
≥2 doses Hep A	164	42.8%
≥1 dose Rotavirus	263	68.7%
4:3:1	210	54.8%
4:3:1:3	206	53.8%
4:3:1:4	179	46.7%
4:3:1:3:3	203	53.0%
4:3:1:0:3:1	205	53.5%
4:3:1:3:3:1	201	52.5%
4:3:1:4:3:1	176	46.0%
4:3:1:0:3:1:4	176	46.0%
4:3:1:3:3:1:4	171	44.6%

≤3 months of Age <sup>6</sup>		
Children in USIIS born between 03/02/2016 and 07/01/2016		
Total	74	
	Total	Percent
≥1 dose DTaP	74	100%
≥1 dose Polio	74	100%
≥1 dose Hib	73	98.6%
≥1 dose Hep B	74	100%
≥2 doses Hep B	66	89.2%
≥1 dose PCV	74	100%

≤5 months of Age <sup>6</sup>		
Children in USIIS born between 01/02/2016 and 07/01/2016		
Total	114	
	Total	Percent
≥2 doses DTaP	61	53.5%
≥2 doses Polio	61	53.5%
≥2 doses Hib	60	52.6%
≥2 doses Hep B	99	86.8%
≥2 doses PCV	60	62.6%



<b>&lt;13 Months of Age<sup>6</sup></b>		
Children in USIIS born between 06/02/2015 and 07/01/2016		
<b>Total</b>	324	
	<b>Total</b>	<b>Percent</b>
≥3 doses DTaP	103	31.8%
≥2 doses Polio	222	68.5%
≥1 dose MMR	53	16.4%
≥2 doses Hib	220	67.9%
≥3 doses Hib	99	30.6%
≥2 doses Hep B	289	89.2%
≥3 doses Hep B	150	46.3%
≥1 dose Varicella	53	16.4%
≥3 doses PCV	110	34.0%

<b>&lt;19 Months of Age<sup>6</sup></b>		
Children in USIIS born between 12/02/2014 and 07/01/2016		
<b>Total</b>	510	
	<b>Total</b>	<b>Percent</b>
≥3 doses DTaP	223	43.7%
≥4 doses DTaP	77	15.1%
≥3 doses Polio	215	42.2%
≥1 dose MMR	166	32.5%
≥3 doses Hib	210	41.2%
≥1 dose Hib	495	97.1%
≥3 doses Hep B	267	52.4%
≥1 dose Varicella	169	33.1%
≥3 doses PCV	229	44.9%
>4 doses PCV	92	18.0%
4:3:1	70	13.7%
4:3:1:3	69	13.5%
4:3:1:4	65	12.7%
4:3:1:3:3	66	12.9%
4:3:1:0:3	60	11.8%
4:3:1:4:3	62	12.2%
4:3:1:3:3:1	66	12.9%
4:3:1:0:3:1	67	13.1%
4:3:1:4:3:1	62	12.2%

<24 Months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2014 and 07/01/2016		
Total	646	
	Total	Percent
≥3 doses DTaP	317	49.1%
≥4 doses DTaP	121	18.7%
≥3 doses Polio	307	47.5%
≥1 dose MMR	240	37.2%
≥3 doses Hib	295	45.7%
≥1 dose Hib	627	97.1%
≥3 doses Hep B	362	56.0%
≥1 dose Varicella	242	37.5%
≥3 doses PCV	318	49.2%
≥4 doses PCV	136	21.1%
4:3:1	105	16.3%
4:3:1:3	111	17.2%
4:3:1:4	98	15.2%
4:3:1:3:3	104	16.1%
4:3:1:0:3	105	16.3%
4:3:1:4:3	91	14.1%
4:3:1:3:3:1	104	16.1%
4:3:1:0:3:1	105	16.3%
4:3:1:4:3:1	91	14.1%
4:3:1:3:3:1:4	90	13.9%

12-17 Years of Age <sup>6</sup>						
Children in USIIS born between 07/02/1998 and 07/01/2004						
Total	4,273					
	Total	Total %	Female Total	Female %	Male Total	Male %
1 HPV	863	20.2%	501	23.8%	361	16.8%
2 HPV	426	9.97%	264	12.5%	161	7.5%
3 HPV	238	5.6%	150	7.1%	87	4.0%

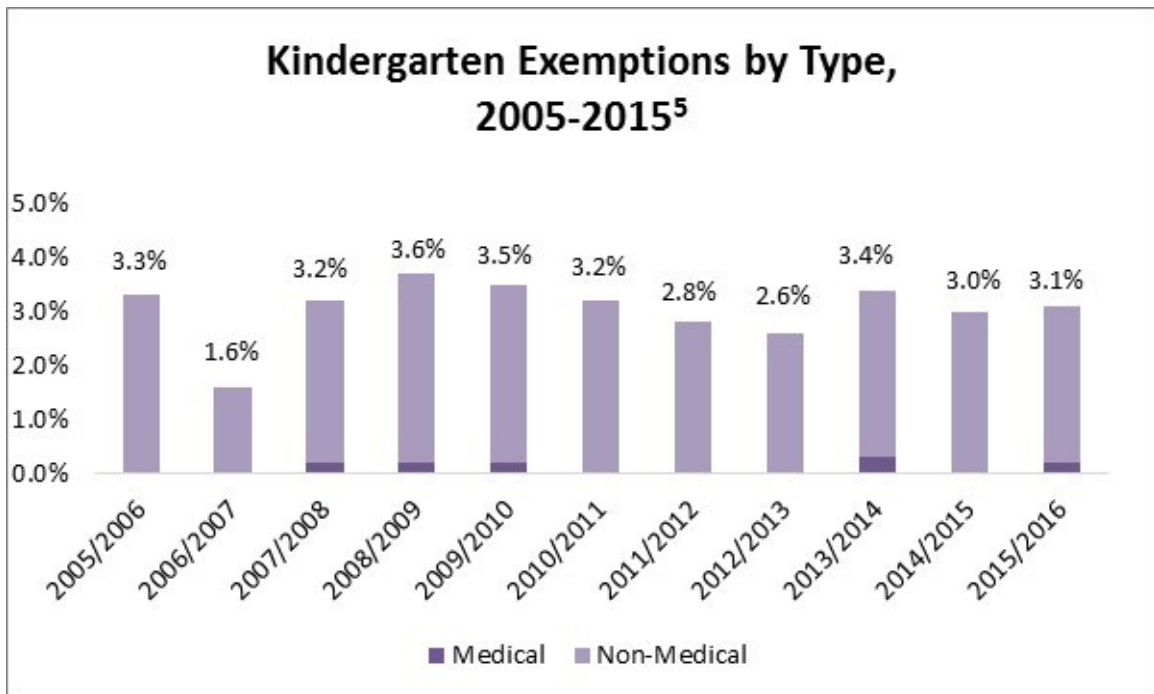
12-17 Years of Age <sup>6</sup>		
Children in USIIS born between 07/02/1998 and 07/01/2004		
Total	4,273	
	Total	Percent
≥1 dose Meningococcal	1,257	29.4%
≥1 dose TDaP	2,394	56.0%

≤18 Years of Age <sup>6</sup>		
Children in USIIS born after 07/2/1997		
Total	11,323	
	Total	Percent
≥1 dose Influenza	4,546	40.1%
≥1 dose Influenza last season*	1,043	9.2%

\*Last flu season between 07/01/2015 and 6/30/2016

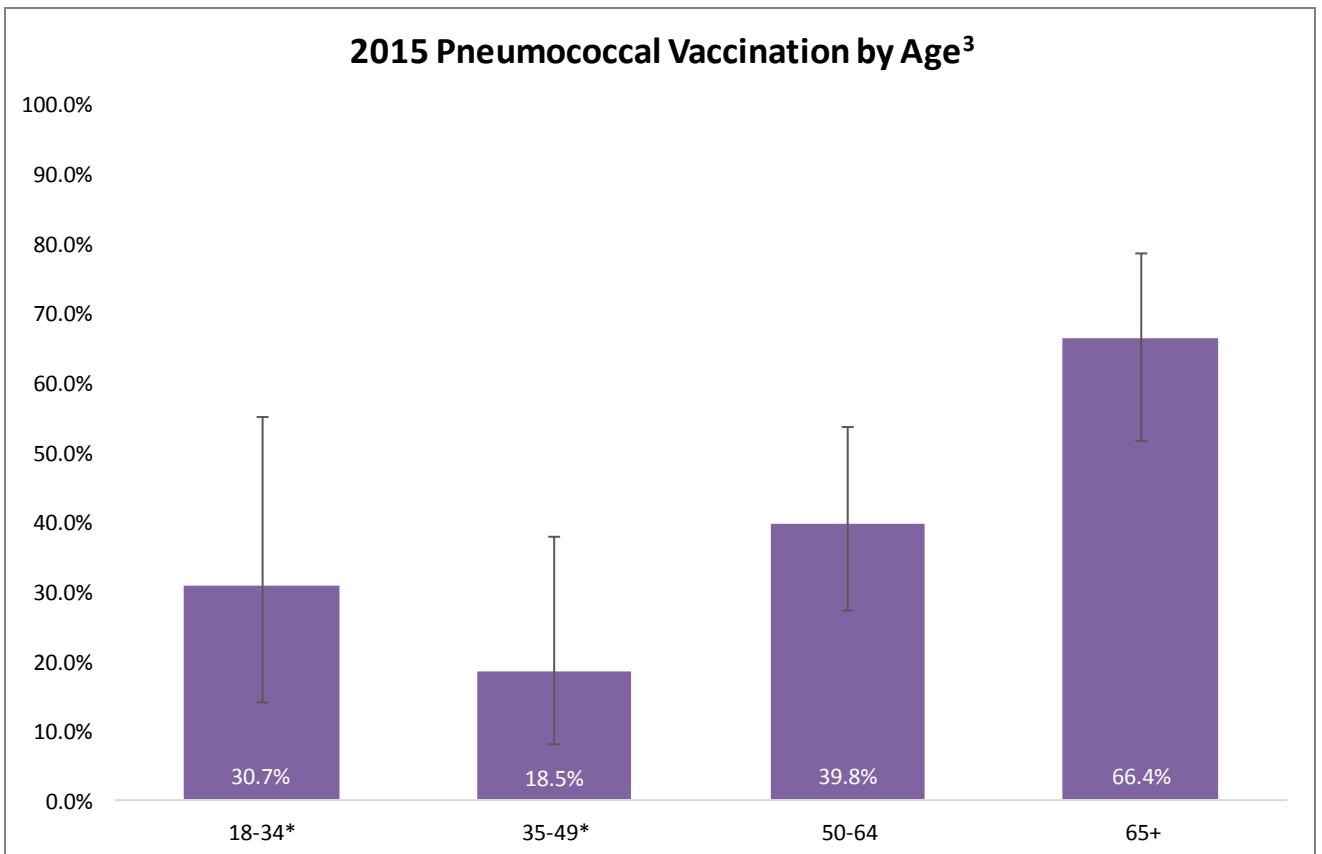
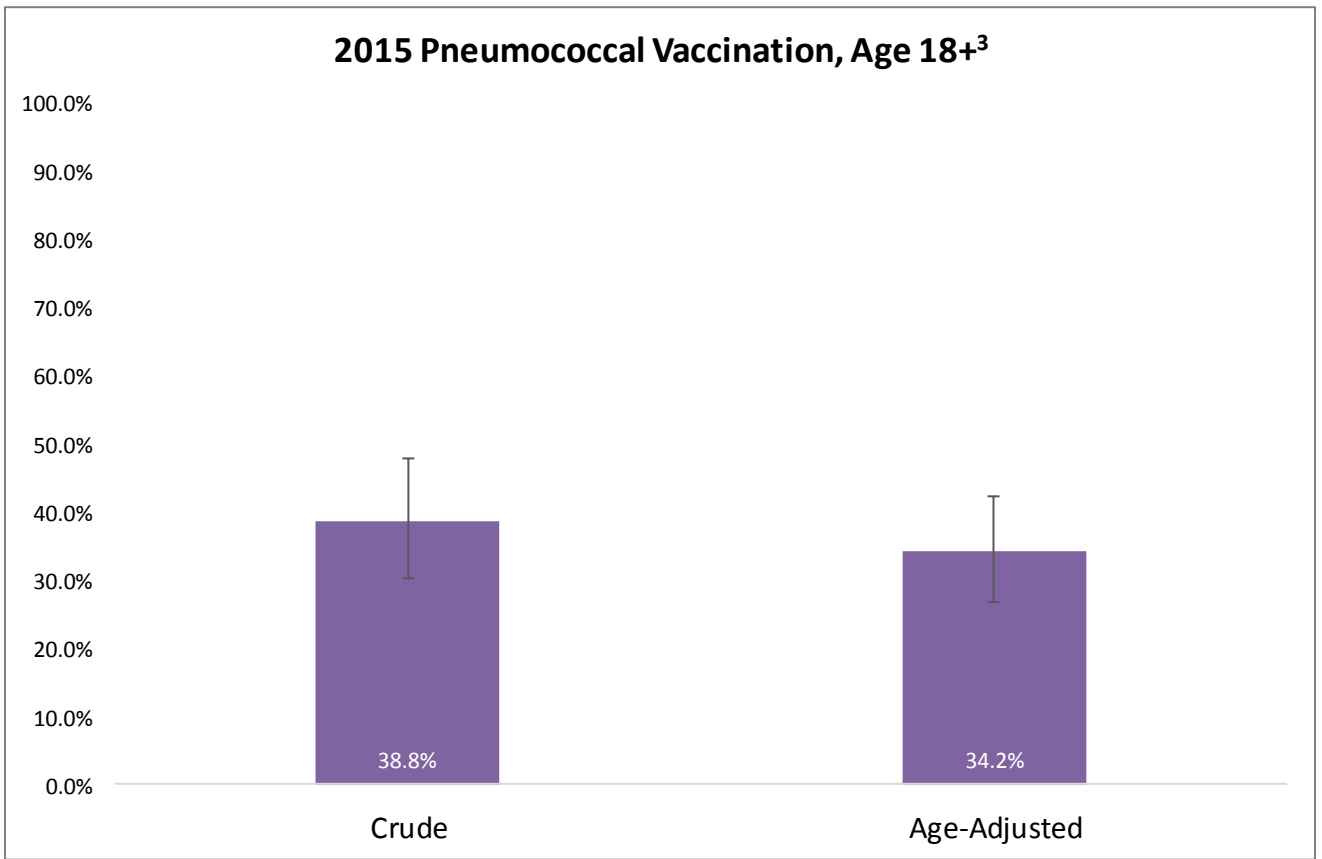
Adequately Immunized by School District 2015 <sup>2</sup>						
	Carbon		Emery		Grand	
	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions
<b>Kindergarten School Entry</b>	72.2%	2.7%	68.3%	4.4%	98.0%	2.0%
<b>Second-Dose Measles (K-12)</b>	97.1%	1.6%	95.6%	3.4%	97.1%	2.8%
<b>7th Grade Entry</b>	93.2%	1.5%	91.8%	3.9%	95.2%	3.2%

Immunized for Child Care 2015 <sup>2</sup>		
	Adequately Immunized	Total Exemptions
<b>Licensed Child Care Facilities</b>	88.1%	4.8%
<b>Head Start Centers</b>	77.7%	0.8%

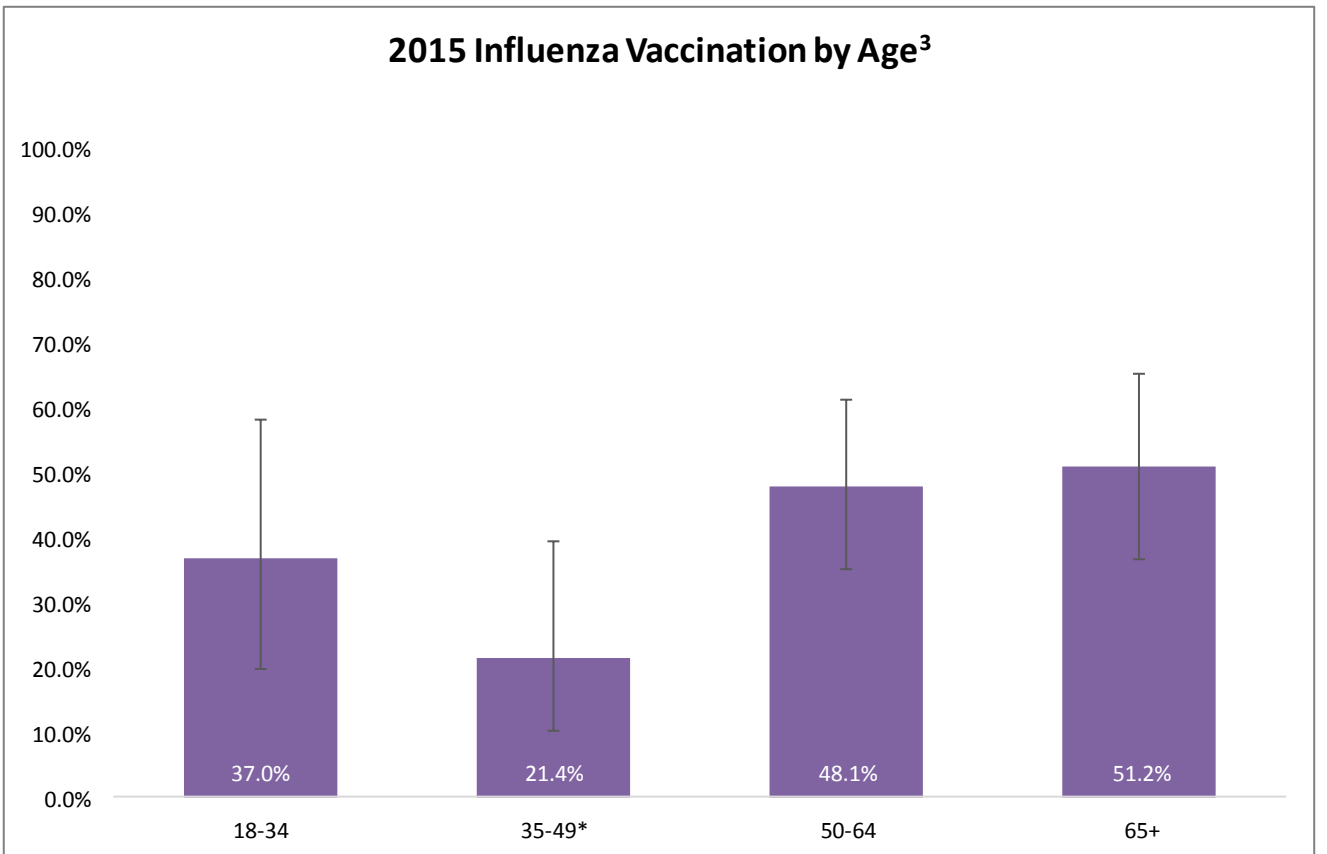
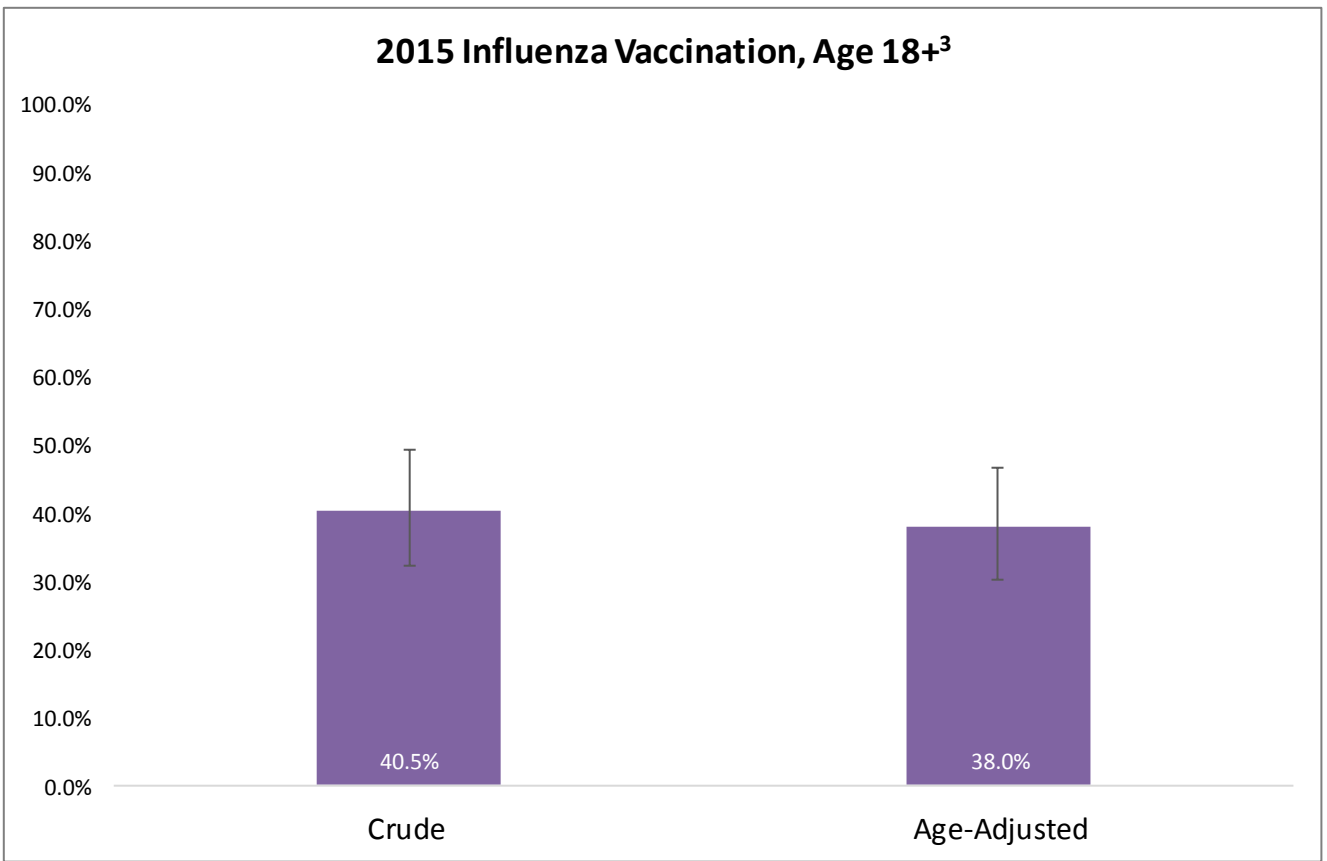


<b>≥19 Years of Age<sup>6</sup></b>		
Adults in USIIS born on or before 07/1/1997		
<b>Total</b>	23,549	
	<b>Total</b>	<b>Percent</b>
≥1 dose Influenza last season*	4,375	18.6%
≥1 dose influenza in lifetime	14,731	62.6%
≥1 TDaP	5,139	21.8%
≥1 Varicella	1,075	4.6%
≥1 HPV	600	2.5%
≥1 Zoster	1,039	4.4%
≥1 MMR	5,647	24.0%
≥1 PCV13	927	3.9%
≥1PPSV23	2,335	9.9%
≥1 Hep A	4,197	17.8%
≥1 Hep B	5,191	22.0%
≥1 Meningococcal	1,276	5.4%
≥1 HIB	3,068	13.0%

\*Last flu season between 07/01/2015 and 6/30/2016

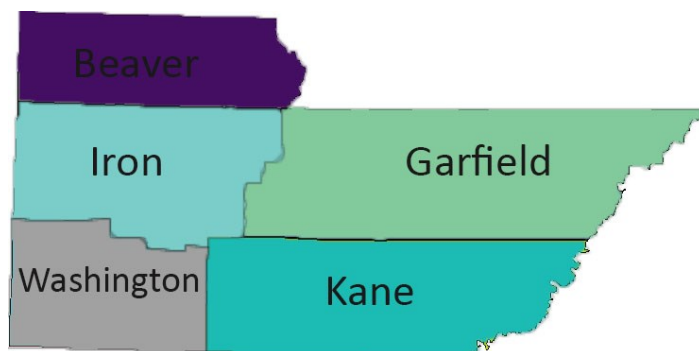


Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates. \*Use caution in interpreting, the estimate has a coefficient of variation > 30% and is therefore deemed unreliable by UDOH standards.



Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates.

**Early Childhood Immunization**



24-35 months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2013 and 07/01/2014		
Total	3,154	
	Total	Percent
≥3 doses DTaP	2,839	90.0%
≥4 doses DTaP	2,416	76.6%
≥3 doses Polio	2,771	87.9%
≥1 dose MMR	2,759	87.5%
≥3 doses Hib	2,654	84.1%
≥1 dose Hib	3,107	98.5%
≥3 doses Hep B	2,830	89.7%
Hep B Birth dose	2,486	78.8%
≥1 dose Varicella	2,700	85.6%
≥3 doses PCV	2,772	87.9%
≥4 doses PCV	2,313	73.3%
≥2 doses Hep A	1,987	63.0%
≥1 dose Rotavirus	2,698	85.5%
4:3:1	2,356	74.7%
4:3:1:3	2,319	73.5%
4:3:1:4	2,164	68.6%
4:3:1:3:3	2,300	72.9%
4:3:1:0:3:1	2,303	73.0%
4:3:1:3:3:1	2,269	71.9%
4:3:1:4:3:1	2,131	67.6%
4:3:1:0:3:1:4	2,131	67.6%
4:3:1:3:3:1:4	2,109	66.9%

≤3 months of Age <sup>6</sup>		
Children in USIIS born between 03/02/2016 and 07/01/2016		
Total	895	
	Total	Percent
≥1 dose DTaP	888	99.2%
≥1 dose Polio	882	98.5%
≥1 dose Hib	874	97.7%
≥1 dose Hep B	883	98.7%
≥2 doses Hep B	803	89.7%
≥1 dose PCV	868	97.0%

≤5 months of Age <sup>6</sup>		
Children in USIIS born between 01/02/2016 and 07/01/2016		
Total	1,354	
	Total	Percent
≥2 doses DTaP	800	59.1%
≥2 doses Polio	795	58.7%
≥2 doses Hib	783	57.8%
≥2 doses Hep B	1,240	91.6%
≥2 doses PCV	791	58.4%



<b>&lt;13 Months of Age<sup>6</sup></b>		
Children in USIIS born between 06/02/2015 and 07/01/2016		
<b>Total</b>	3,064	
	<b>Total</b>	<b>Percent</b>
≥3 doses DTaP	1,770	57.8%
≥2 doses Polio	2,384	77.8%
≥1 dose MMR	413	13.5%
≥2 doses Hib	2,365	77.2%
≥3 doses Hib	745	24.3%
≥2 doses Hep B	2,885	94.2%
≥3 doses Hep B	2,188	71.4%
≥1 dose Varicella	445	14.5%
≥3 doses PCV	1,730	56.5%

<b>&lt;19 Months of Age<sup>6</sup></b>		
Children in USIIS born between 12/02/2014 and 07/01/2016		
<b>Total</b>	4,618	
	<b>Total</b>	<b>Percent</b>
≥3 doses DTaP	3,092	67.0%
≥4 doses DTaP	799	17.3%
≥3 doses Polio	3,024	65.5%
≥1 dose MMR	1,590	34.4%
≥3 doses Hib	1,875	40.6%
≥1 dose Hib	4,538	98.3%
≥3 doses Hep B	3,525	76.3%
≥1 dose Varicella	1,650	35.7%
≥3 doses PCV	3,040	65.8%
≥4 doses PCV	1,361	29.5%
4:3:1	775	16.8%
4:3:1:3	756	16.4%
4:3:1:4	710	15.4%
4:3:1:3:3	746	16.2%
4:3:1:0:3	634	13.7%
4:3:1:4:3	702	15.2%
4:3:1:3:3:1	742	16.1%
4:3:1:0:3:1	760	16.5%
4:3:1:4:3:1	698	15.1%

<24 Months of Age <sup>6</sup>		
Children in USIIS born between 12/02/2014 and 07/01/2016		
Total	5,897	
	Total	Percent
≥3 doses DTaP	4,206	71.3%
≥4 doses DTaP	1,641	27.8%
≥3 doses Polio	4,088	69.3%
≥1 dose MMR	2,625	44.5%
≥3 doses Hib	2,870	48.7%
≥1 dose Hib	5,793	98.2%
≥3 doses Hep B	4,615	78.3%
≥1 dose Varicella	2,689	45.6%
≥3 doses PCV	4,120	69.9%
≥4 doses PCV	2,210	37.5%
4:3:1	1,444	24.5%
4:3:1:3	1,555	26.4%
4:3:1:4	1,468	24.9%
4:3:1:3:3	1,527	25.9%
4:3:1:0:3	1,563	26.5%
4:3:1:4:3	1,446	24.5%
4:3:1:3:3:1	1,520	25.8%
4:3:1:0:3:1	1,552	26.3%
4:3:1:4:3:1	1,440	24.4%
4:3:1:3:3:1:4	1,436	24.4%

12-17 Years of Age <sup>6</sup>						
Children in USIIS born between 07/02/1998 and 07/01/2004						
Total	24,420					
	Total	Total %	Female Total	Female %	Male Total	Male %
1 HPV	6,600	27.0%	3,932	32.8%	2,659	21.5%
2 HPV	4,009	16.42%	2,521	21.0%	1,482	12.0%
3 HPV	2,524	10.3%	1,663	13.9%	858	6.9%

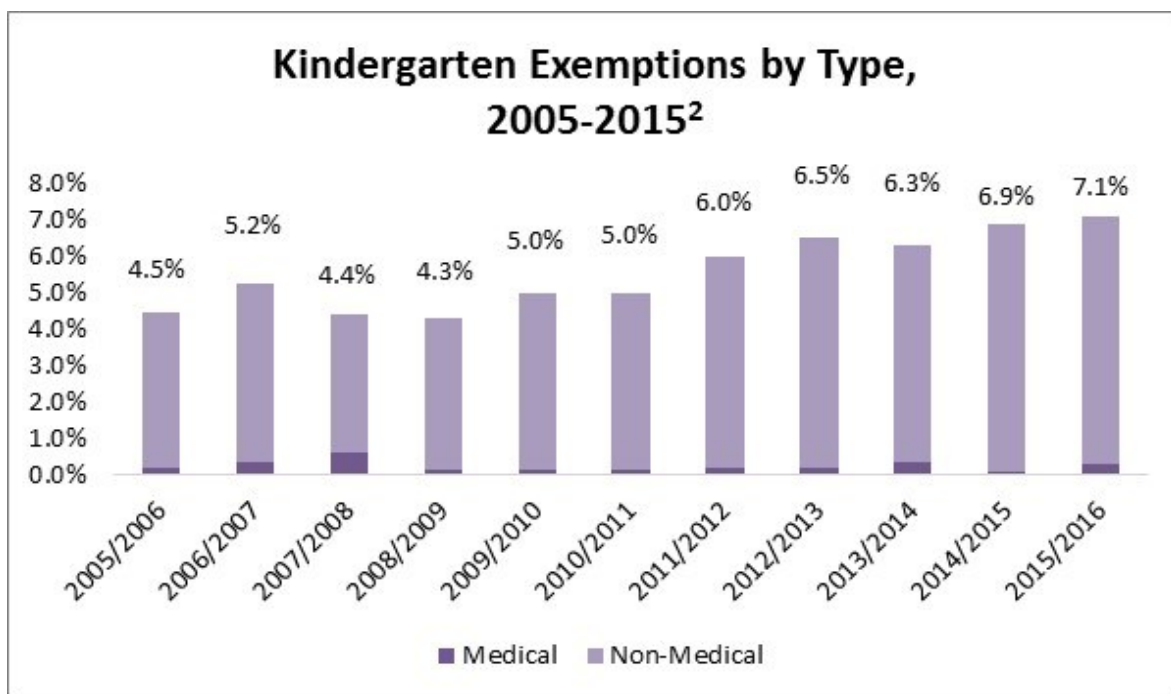
12-17 Years of Age <sup>6</sup>		
Children in USIIS born between 07/02/1998 and 07/01/2004		
Total	24,420	
	Total	Percent
≥1 dose Meningococcal	13,298	54.5%
≥1 dose Tdap	17,525	71.8%

≤18 Years of Age <sup>6</sup>		
Children in USIIS born after 07/1/1997		
Total	71,798	
	Total	Percent
≥1 dose Influenza in lifetime	35,345	49.2%
≥1 dose Influenza in last flu season*	12,188	17.0%

\*Last flu season between 07/01/2015 and 6/30/2016

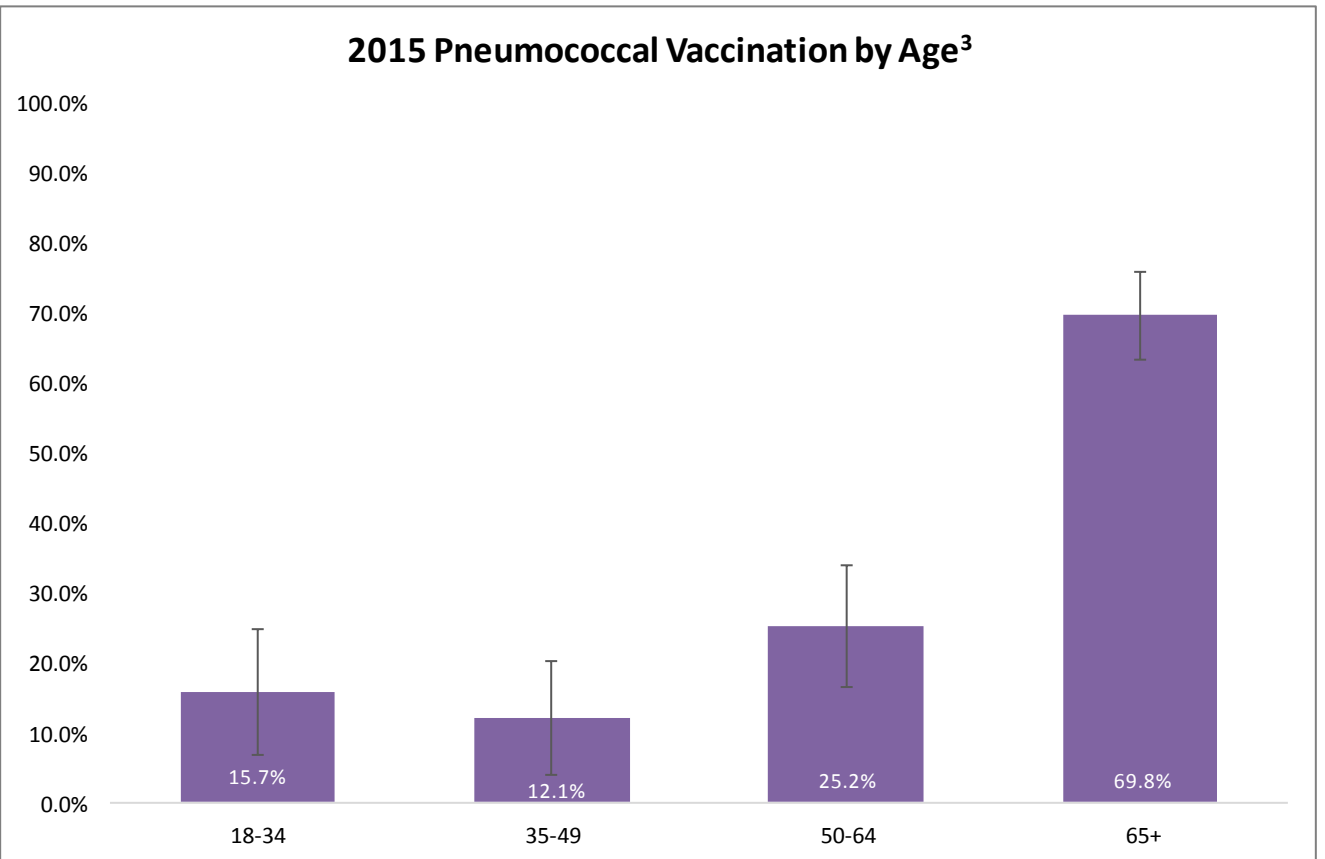
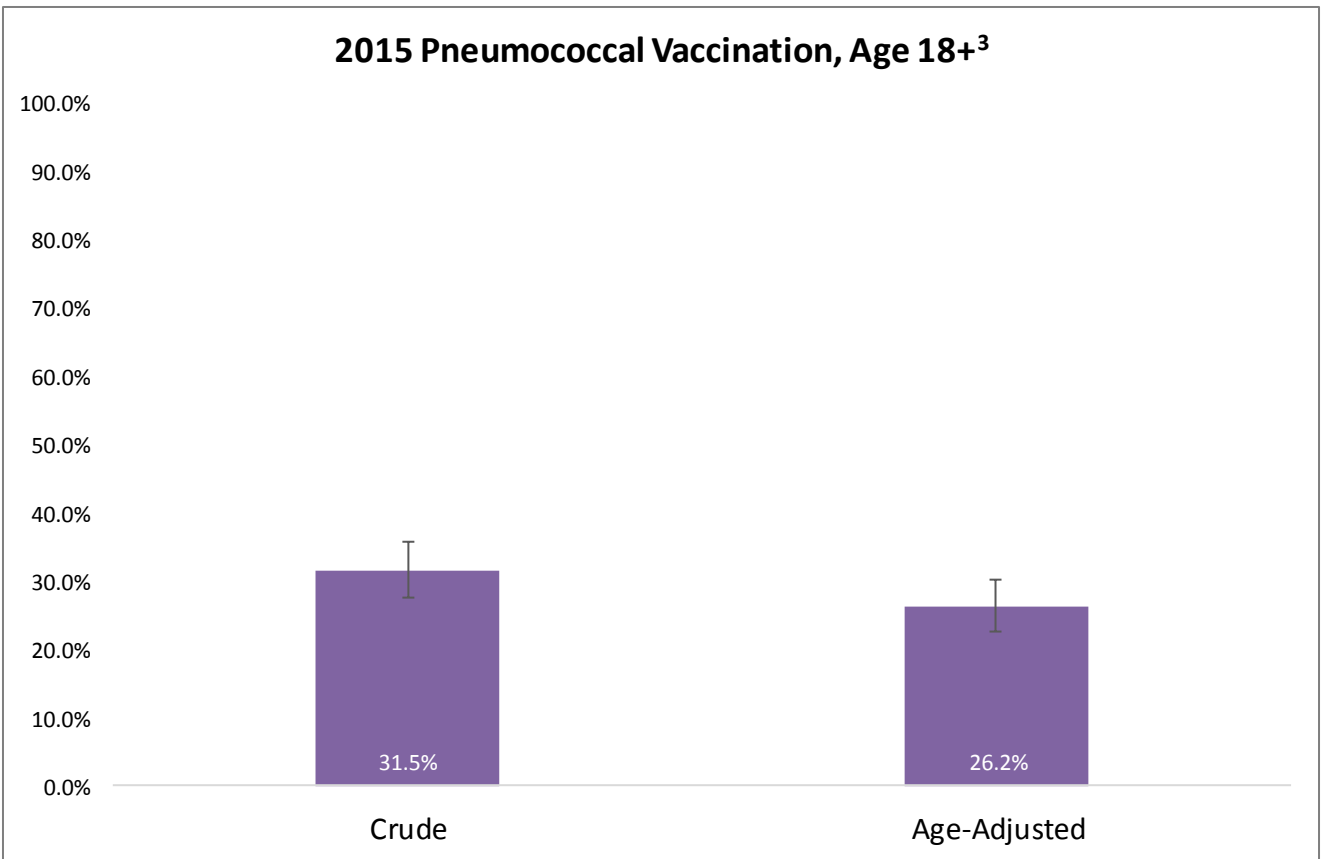
Adequately Immunized by School District 2015 <sup>2</sup>										
	Beaver		Garfield		Iron		Kane		Washington	
	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt
<b>Kindergarten School Entry</b>	94.1%	3.7%	88.1%	6.8%	91.9%	5.1%	85.1%	10.3%	90.5%	7.4%
<b>Second-Dose Measles (K-12)</b>	98.1%	1.8%	95.6%	4.4%	94.7%	5.2%	93.8%	6.0%	93.4%	6.5%
<b>7th Grade Entry</b>	96.2%	3.0%	91.2%	8.8%	94.7%	4.6%	80.7%	11.9%	87.6%	11.6%

Immunized for Child Care 2015 <sup>2</sup>		
	Adequately Immunized	Total Exemptions
<b>Licensed Child Care Facilities</b>	82.5%	2.7%
<b>Head Start Centers</b>	86.4%	4.0%

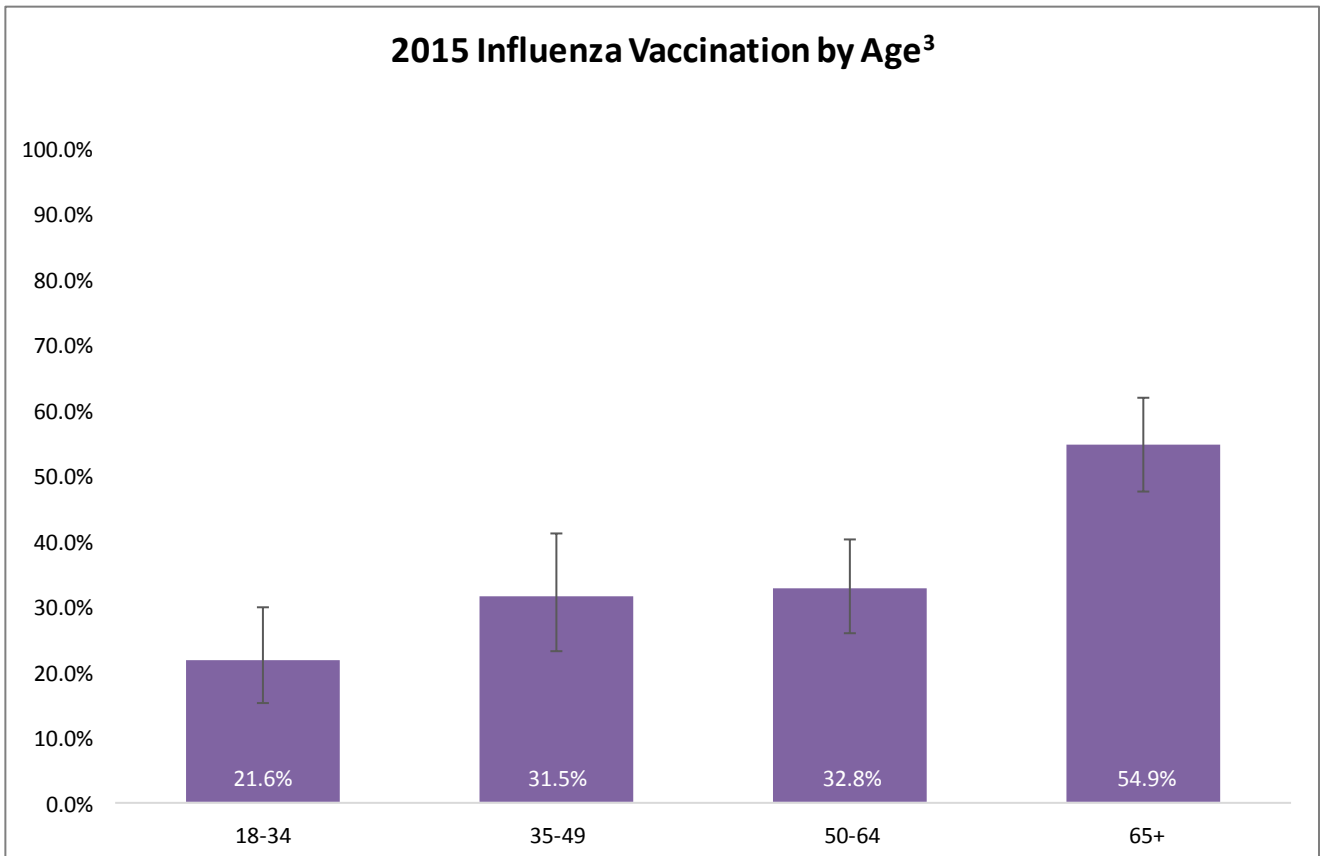
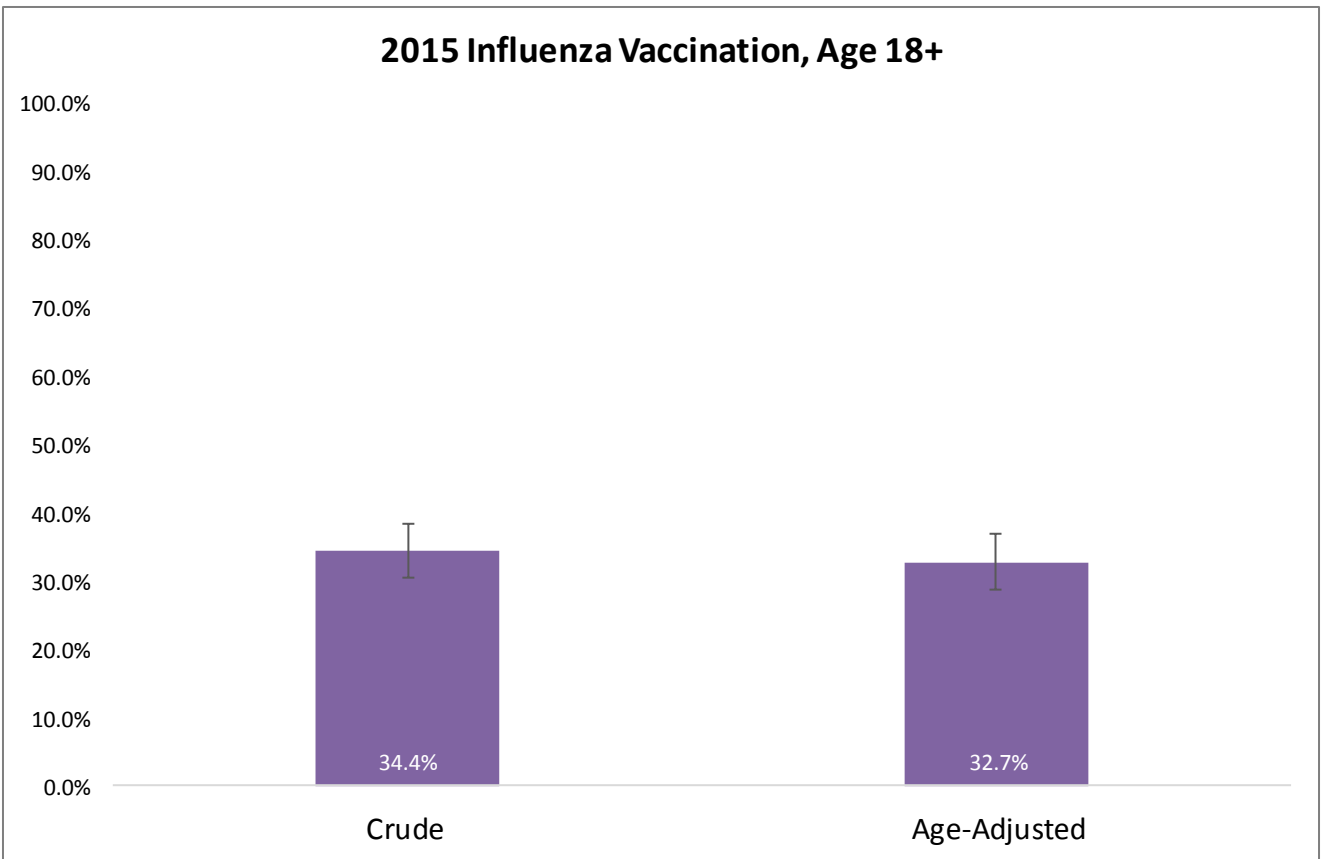


<b>≥19 Years of Age<sup>6</sup></b>		
Adults in USIIS born on or before 07/1/1997		
<b>Total</b>	122,475	
	<b>Total</b>	<b>Percent</b>
≥1 dose Influenza last season*	27,768	22.7%
≥1 dose influenza in lifetime	65,135	53.2%
≥1 TDaP	40,080	32.7%
≥1 Varicella	8,113	6.6%
≥1 HPV	4,036	3.3%
≥1 Zoster	8,474	6.9%
≥1 MMR	39,809	32.5%
≥1 PCV13	10,867	8.9%
≥1PPSV23	12,972	10.6%
≥1 Hep A	33,618	27.4%
≥1 Hep B	37,583	30.7%
≥1 Meningococcal	10,180	8.3%
≥1 HIB	22,988	18.8%

\*Last flu season between 07/01/2015 and 6/30/2016



Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates.



Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates.

**Early Childhood Immunization**



24-35 months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2013 and 07/01/2014		
Total	463	
	Total	Percent
≥3 doses DTaP	405	87.5%
≥4 doses DTaP	319	68.9%
≥3 doses Polio	384	82.9%
≥1 dose MMR	368	79.5%
≥3 doses Hib	396	85.5%
≥1 dose Hib	451	97.4%
≥3 doses Hep B	361	78.0%
Hep B Birth dose	320	69.1%
≥1 dose Varicella	347	74.9%
≥3 doses PCV	406	87.7%
≥4 doses PCV	325	70.2%
≥2 doses Hep A	254	54.9%
≥1 dose Rotavirus	416	89.8%
4:3:1	290	62.6%
4:3:1:3	288	62.2%
4:3:1:4	274	59.2%
4:3:1:3:3	262	56.6%
4:3:1:0:3:1	258	55.7%
4:3:1:3:3:1	256	55.3%
4:3:1:4:3:1	248	53.6%
4:3:1:0:3:1:4	248	53.6%
4:3:1:3:3:1:4	246	53.1%

≤3 months of Age <sup>6</sup>		
Children in USIIS born between 03/02/2016 and 07/01/2016		
Total	139	
	Total	Percent
≥1 dose DTaP	139	100%
≥1 dose Polio	134	96.4%
≥1 dose Hib	136	97.8%
≥1 dose Hep B	129	92.8%
≥2 doses Hep B	114	82.0%
≥1 dose PCV	137	98.6%

≤5 months of Age <sup>6</sup>		
Children in USIIS born between 01/02/2016 and 07/01/2016		
Total	190	
	Total	Percent
≥2 doses DTaP	104	54.7%
≥2 doses Polio	99	52.1%
≥2 doses Hib	98	51.6%
≥2 doses Hep B	158	83.2%
≥2 doses PCV	102	53.7%



<13 Months of Age <sup>6</sup>		
Children in USIIS born between 06/02/2015 and 07/01/2016		
Total	448	
	Total	Percent
≥3 doses DTaP	242	54.0%
≥2 doses Polio	333	74.3%
≥1 dose MMR	70	15.6%
≥2 doses Hib	332	74.1%
≥3 doses Hib	230	51.3%
≥2 doses Hep B	387	86.4%
≥3 doses Hep B	235	52.5%
≥1 dose Varicella	20	4.5%
≥3 doses PCV	243	54.2%

<19 Months of Age <sup>6</sup>		
Children in USIIS born between 12/02/2014 and 07/01/2016		
Total	677	
	Total	Percent
≥3 doses DTaP	439	64.8%
≥4 doses DTaP	107	15.8%
≥3 doses Polio	412	60.9%
≥1 dose MMR	238	35.2%
≥3 doses Hib	423	62.5%
≥1 dose Hib	665	98.2%
≥3 doses Hep B	408	60.3%
≥1 dose Varicella	165	24.4%
≥3 doses PCV	444	65.6%
≥4 doses PCV	208	30.7%
4:3:1	93	13.7%
4:3:1:3	93	13.7%
4:3:1:4	90	13.3%
4:3:1:3:3	86	12.7%
4:3:1:0:3	69	10.2%
4:3:1:4:3	84	12.4%
4:3:1:3:3:1	85	12.6%
4:3:1:0:3:1	85	12.6%
4:3:1:4:3:1	83	12.3%

<24 Months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2014 and 07/01/2016		
Total	893	
	Total	Percent
≥3 doses DTaP	613	68.6%
≥4 doses DTaP	236	26.4%
≥3 doses Polio	567	63.5%
≥1 dose MMR	413	46.2%
≥3 doses Hib	598	67.0%
≥1 dose Hib	875	98.0%
≥3 doses Hep B	565	63.3%
≥1 dose Varicella	331	37.1%
≥3 doses PCV	621	69.5%
≥4 doses PCV	344	38.5%
4:3:1	198	22.2%
4:3:1:3	215	24.1%
4:3:1:4	211	23.6%
4:3:1:3:3	205	23.0%
4:3:1:0:3	205	23.0%
4:3:1:4:3	202	22.6%
4:3:1:3:3:1	200	22.4%
4:3:1:0:3:1	200	22.4%
4:3:1:4:3:1	197	22.1%
4:3:1:3:3:1:4	197	22.1%

12-17 Years of Age <sup>6</sup>						
Children in USIIS born between 07/02/1998 and 07/01/2004						
Total	5,101					
	Total	Total %	Female Total	Female %	Male Total	Male %
1 HPV	1,913	37.5%	1,030	42.2%	869	33.2%
2 HPV	1,237	24.25%	694	28.4%	533	20.4%
3 HPV	757	14.8%	445	18.2%	304	11.6%

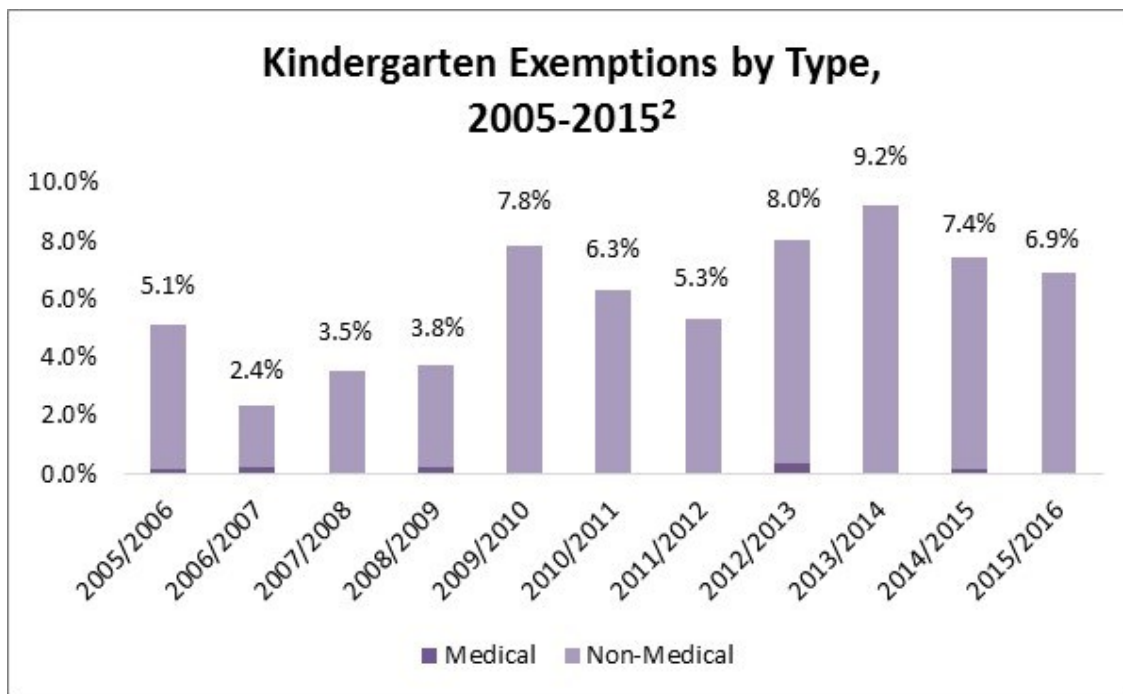
12-17 Years of Age <sup>6</sup>		
Children in USIIS born between 07/02/1998 and 07/01/2004		
Total	5,101	
	Total	Percent
≥1 dose Meningococcal	2,809	55.1%
≥1 dose Tdap	3,019	59.2%

≤18 Years of Age <sup>6</sup>		
Children in USIIS born after 07/1/1997		
Total	13,287	
	Total	Percent
≥1 dose Influenza in lifetime	9,048	68.1%
≥1 dose Influenza in last season*	3,225	24.3%

\*Last flu season between 07/01/2015 and 6/30/2016

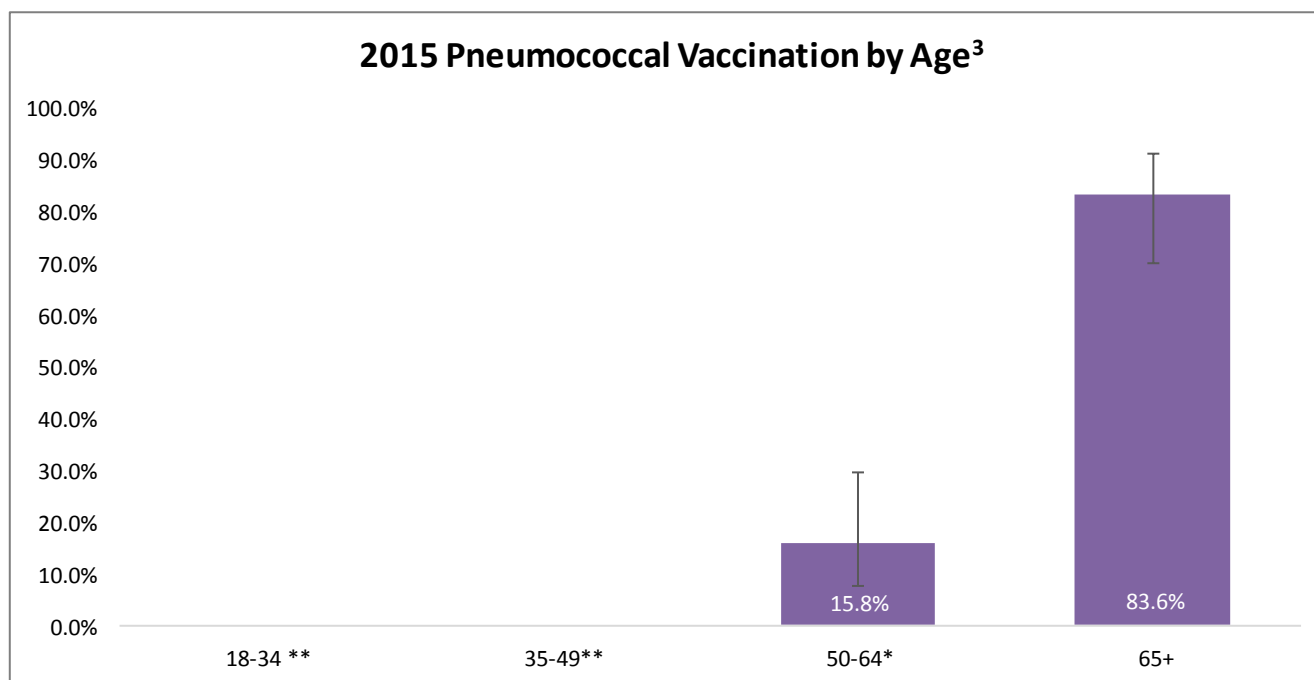
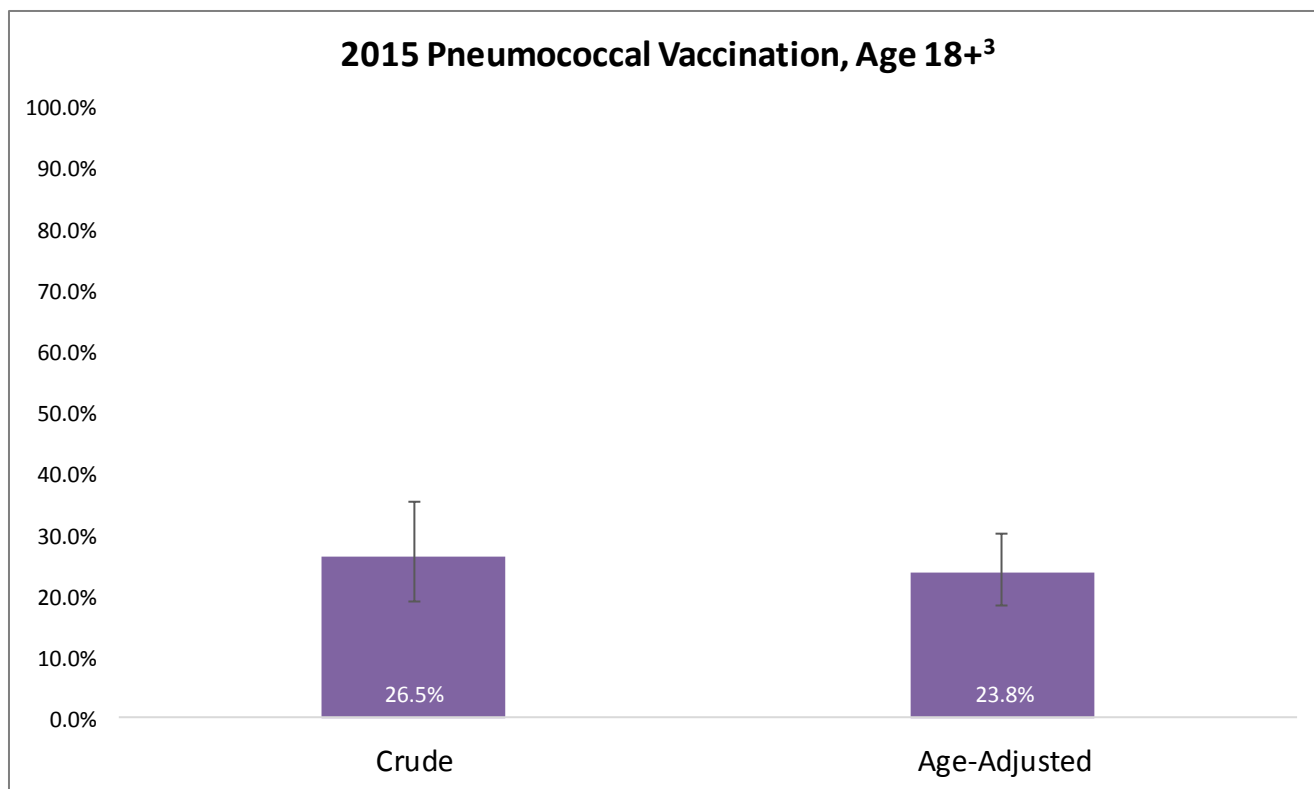
Adequately Immunized by School District 2015 <sup>2</sup>						
	North Summit		Park City		South Summit	
	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions
<b>Kindergarten School Entry</b>	96.2%	2.6%	87.5%	7.8%	96.4%	3.6%
<b>Second-Dose Measles (K-12)</b>	97.8%	2.2%	95.0%	4.7%	97.3%	2.5%
<b>7th Grade Entry</b>	96.5%	3.5%	89.3%	7.8%	95.4%	3.9%

Immunized for Child Care 2015 <sup>2</sup>		
	Adequately Immunized	Total Exemptions
<b>Licensed Child Care Facilities</b>	89.7%	5.4%
<b>Head Start Centers</b>	N/A	N/A

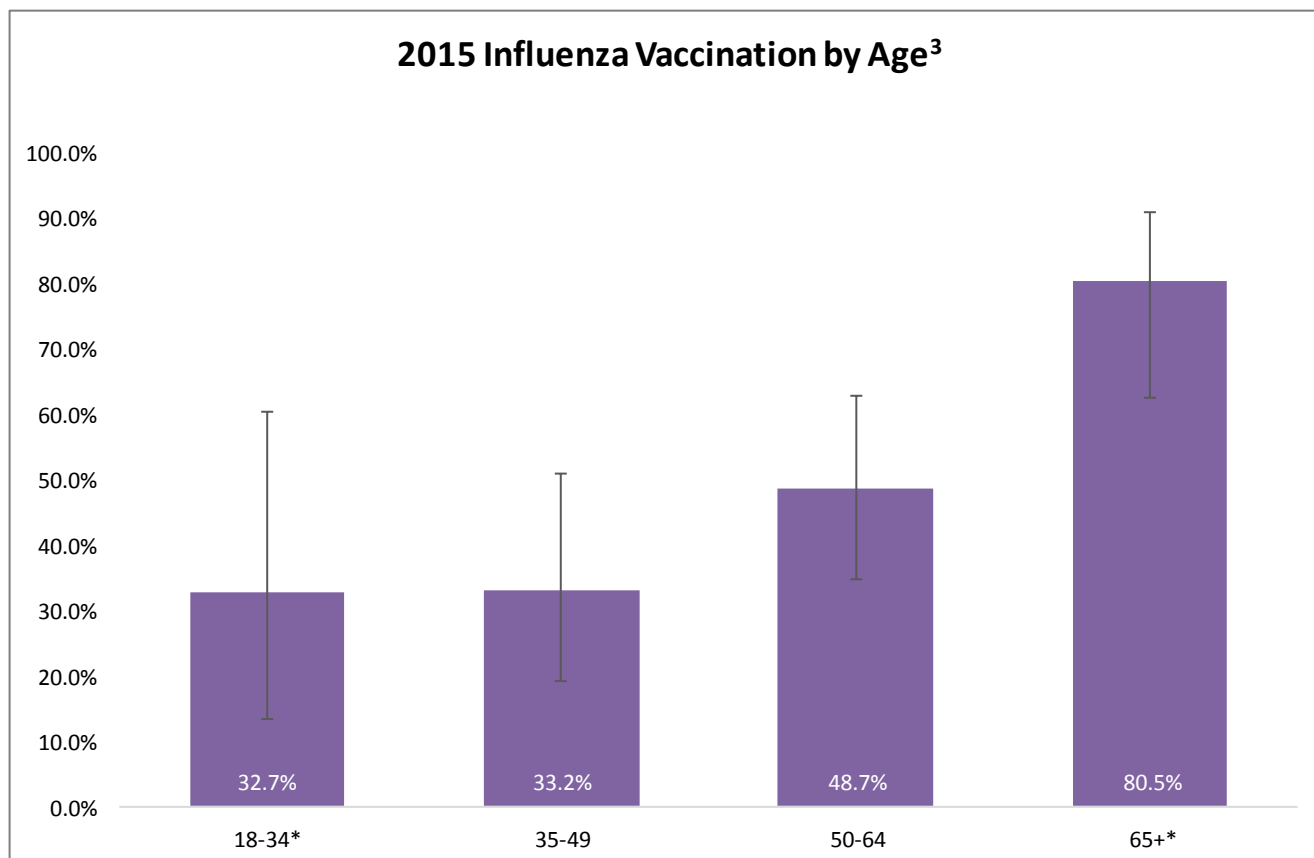
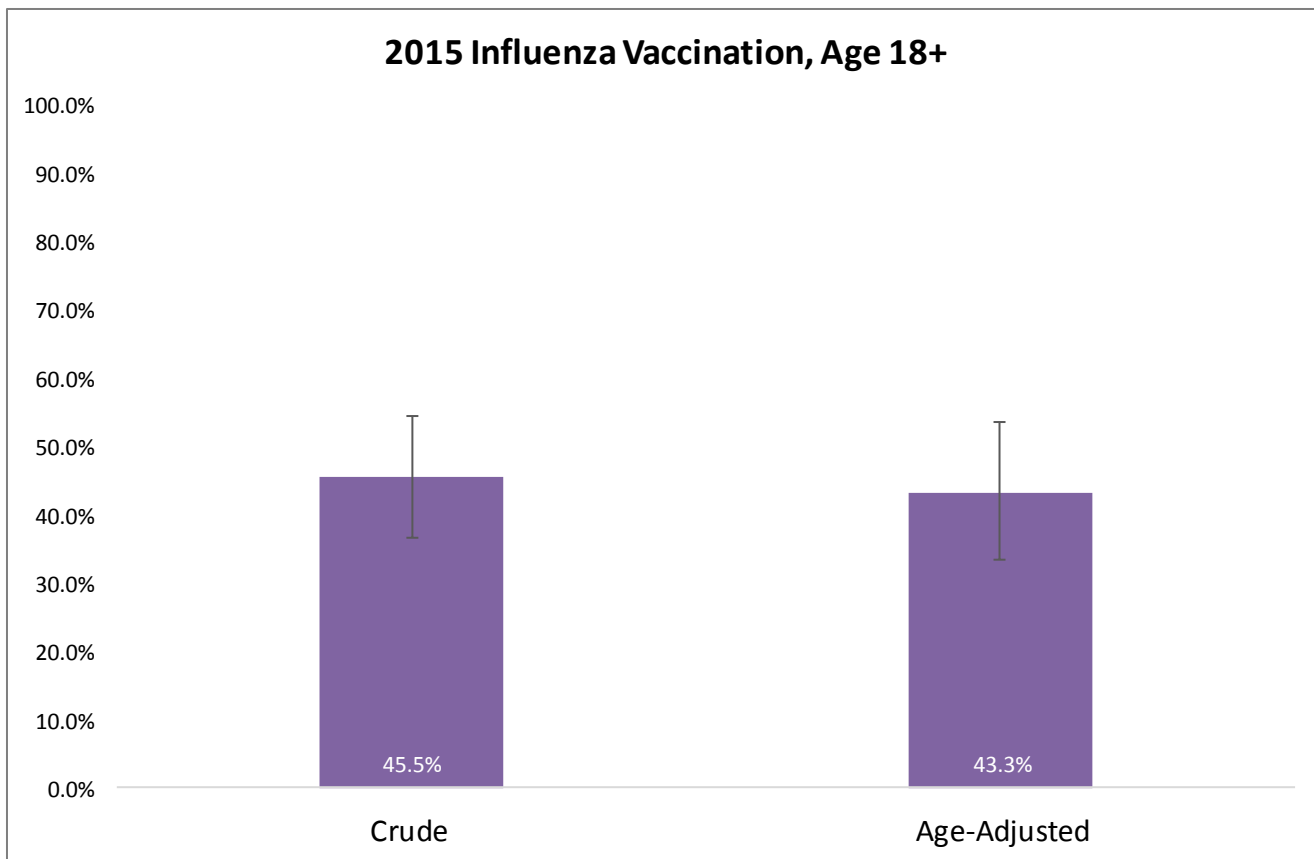


<b>≥19 Years of Age<sup>6</sup></b>		
Adults in USIIS born on or before 07/1/1997		
<b>Total</b>	29,417	
	<b>Total</b>	<b>Percent</b>
≥1 dose Influenza last season*	7,731	25.1%
≥1 dose influenza in lifetime	16,703	56.8%
≥1 TDaP	10,468	35.6%
≥1 Varicella	1,992	6.8%
≥1 HPV	1,284	4.4%
≥1 Zoster	1,868	6.4%
≥1 MMR	7,054	24.0%
≥1 PCV13	2,255	7.7%
≥1PPSV23	1,833	6.2%
≥1 Hep A	7,921	26.9%
≥1 Hep B	7,499	25.5%
≥1 Meningococcal	2,544	8.6%
≥1 HIB	3,460	11.8%

\*Last flu season between 07/01/2015 and 6/30/2016

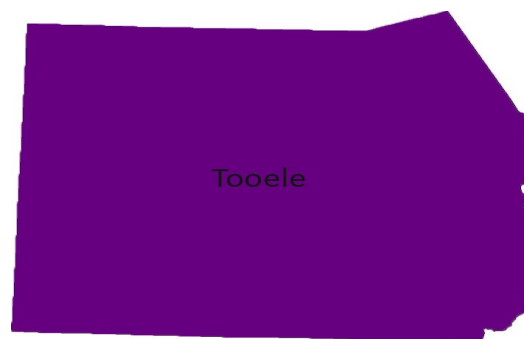


Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates. \*Use caution in interpreting, the estimate has a coefficient of variation > 30% and is therefore deemed unreliable by UDOH standards. \*\*The estimate has been suppressed because 1) The relative standard error is greater than 50% or when the relative standard error can't be determined. Consider aggregating years to decrease the relative standard error and improve the reliability of the estimate. 2) the observed number of events is very small and not appropriate for publication, or 3) it could be used to calculate the number in a cell that has been suppressed.



Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates. Use caution in interpreting, the estimate has a coefficient of variation > 30% and is therefore deemed unreliable by UDOH standards.

**Early Childhood Immunization**



24-35 months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2013 and 07/01/2014		
Total	1,049	
	Total	Percent
≥3 doses DTaP	964	91.9%
≥4 doses DTaP	828	78.9%
≥3 doses Polio	952	90.8%
≥1 dose MMR	945	90.1%
≥3 doses Hib	942	89.8%
≥1 dose Hib	1,037	98.9%
≥3 doses Hep B	957	91.2%
Hep B Birth dose	917	87.4%
≥1 dose Varicella	942	89.8%
≥3 doses PCV	950	90.6%
≥4 doses PCV	810	77.2%
≥2 doses Hep A	755	72.0%
≥1 dose Rotavirus	952	90.8%
4:3:1	810	77.2%
4:3:1:3	803	76.5%
4:3:1:4	768	73.2%
4:3:1:3:3	795	75.8%
4:3:1:0:3:1	799	76.2%
4:3:1:3:3:1	792	75.5%
4:3:1:4:3:1	758	72.3%
4:3:1:0:3:1:4	758	72.3%
4:3:1:3:3:1:4	755	72.0%

≤3 months of Age <sup>6</sup>		
Children in USIIS born between 03/02/2016 and 07/01/2016		
Total	293	
	Total	Percent
≥1 dose DTaP	292	99.7%
≥1 dose Polio	292	99.7%
≥1 dose Hib	290	99.0%
≥1 dose Hep B	289	98.6%
≥2 doses Hep B	270	92.2%
≥1 dose PCV	285	97.3%

≤5 months of Age <sup>6</sup>		
Children in USIIS born between 01/02/2016 and 07/01/2016		
Total	462	
	Total	Percent
≥2 doses DTaP	286	61.9%
≥2 doses Polio	285	61.7%
≥2 doses Hib	285	61.7%
≥2 doses Hep B	433	93.7%
≥2 doses PCV	282	61.0%



<13 Months of Age <sup>6</sup>		
Children in USIIS born between 06/02/2015 and 07/01/2016		
Total	1,081	
	Total	Percent
≥3 doses DTaP	648	59.9%
≥2 doses Polio	852	78.8%
≥1 dose MMR	225	20.8%
≥2 doses Hib	852	78.8%
≥3 doses Hib	611	56.5%
≥2 doses Hep B	1,036	95.8%
≥3 doses Hep B	650	60.1%
≥1 dose Varicella	221	20.4%
≥3 doses PCV	634	58.6%

<19 Months of Age <sup>6</sup>		
Children in USIIS born between 12/02/2014 and 07/01/2016		
Total	1,555	
	Total	Percent
≥3 doses DTaP	1,065	68.5%
≥4 doses DTaP	300	19.3%
≥3 doses Polio	1,052	67.7%
≥1 dose MMR	631	40.6%
≥3 doses Hib	1,023	65.8%
≥1 dose Hib	1,541	99.1%
≥3 doses Hep B	1,060	68.2%
≥1 dose Varicella	626	40.3%
≥3 doses PCV	1,047	67.3%
≥4 doses PCV	398	25.6%
4:3:1	290	18.6%
4:3:1:3	289	18.6%
4:3:1:4	269	17.3%
4:3:1:3:3	284	18.3%
4:3:1:0:3	242	15.6%
4:3:1:4:3	265	17.0%
4:3:1:3:3:1	284	18.3%
4:3:1:0:3:1	286	18.4%
4:3:1:4:3:1	266	17.1%

<24 Months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2014 and 07/01/2016		
Total	2,032	
	Total	Percent
≥3 doses DTaP	1,501	73.9%
≥4 doses DTaP	646	31.8%
≥3 doses Polio	1,482	72.9%
≥1 dose MMR	1,046	51.5%
≥3 doses Hib	1,451	71.4%
≥1 dose Hib	2,010	98.9%
≥3 doses Hep B	1,478	72.7%
≥1 dose Varicella	1,041	51.2%
≥3 doses PCV	1,469	72.3%
≥4 doses PCV	734	36.1%
4:3:1	568	28.0%
4:3:1:3	622	30.6%
4:3:1:4	579	28.5%
4:3:1:3:3	609	30.0%
4:3:1:0:3	613	30.2%
4:3:1:4:3	569	28.0%
4:3:1:3:3:1	609	30.0%
4:3:1:0:3:1	612	30.1%
4:3:1:4:3:1	568	28.0%
4:3:1:3:3:1:4	556	27.4%

12-17 Years of Age <sup>6</sup>						
Children in USIIS born between 07/02/1998 and 07/01/2004						
Total	9,042					
	Total	Total %	Female Total	Female %	Male Total	Male %
1 HPV	3,852	42.6%	2,085	48.0%	1,756	37.7%
2 HPV	2,205	24.39%	1,263	29.1%	934	20.0%
3 HPV	1,324	14.6%	784	18.0%	537	11.5%

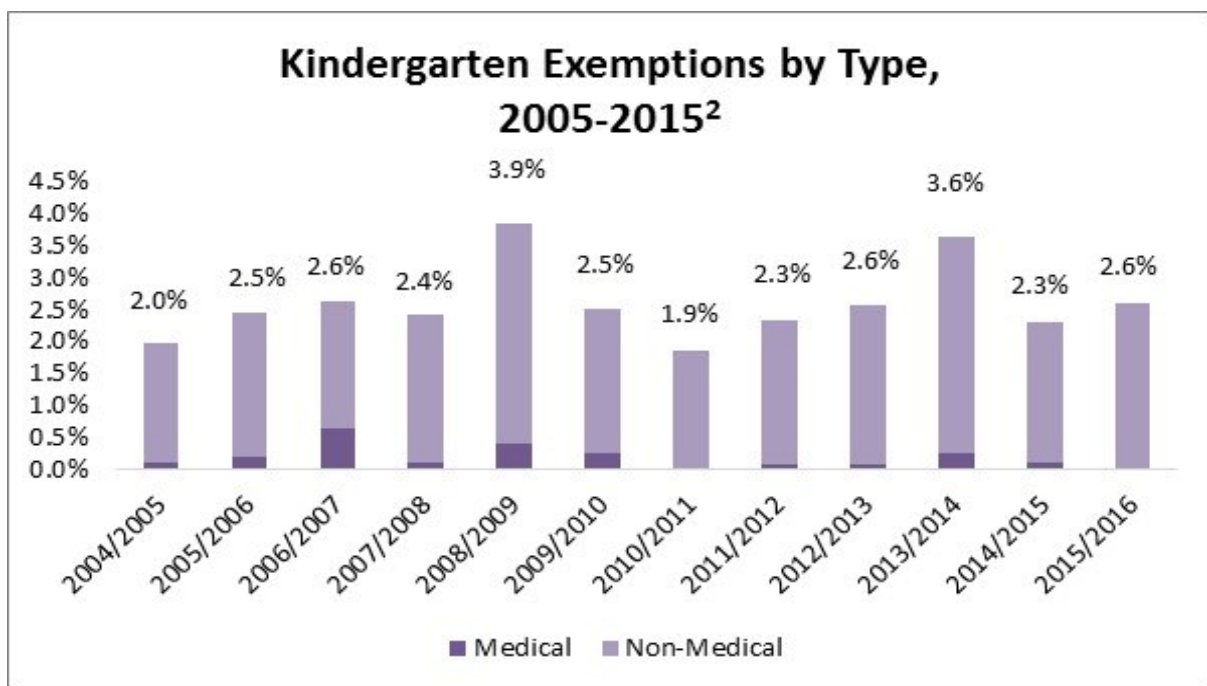
12-17 Years of Age <sup>6</sup>		
Children in USIIS born between 07/02/1998 and 07/01/2004		
Total	9,042	
	Total	Percent
≥1 dose Meningococcal	5,296	58.6%
≥1 dose TDaP	6,098	67.4%

≤18 Years of Age <sup>6</sup>		
Children in USIIS born after 07/1/1997		
Total	25,379	
	Total	Percent
≥1 dose Influenza in lifetime	17,345	68.3%
≥1 dose Influenza in last season*	6,659	26.2%

\*Last flu season between 07/01/2015 and 6/30/2016

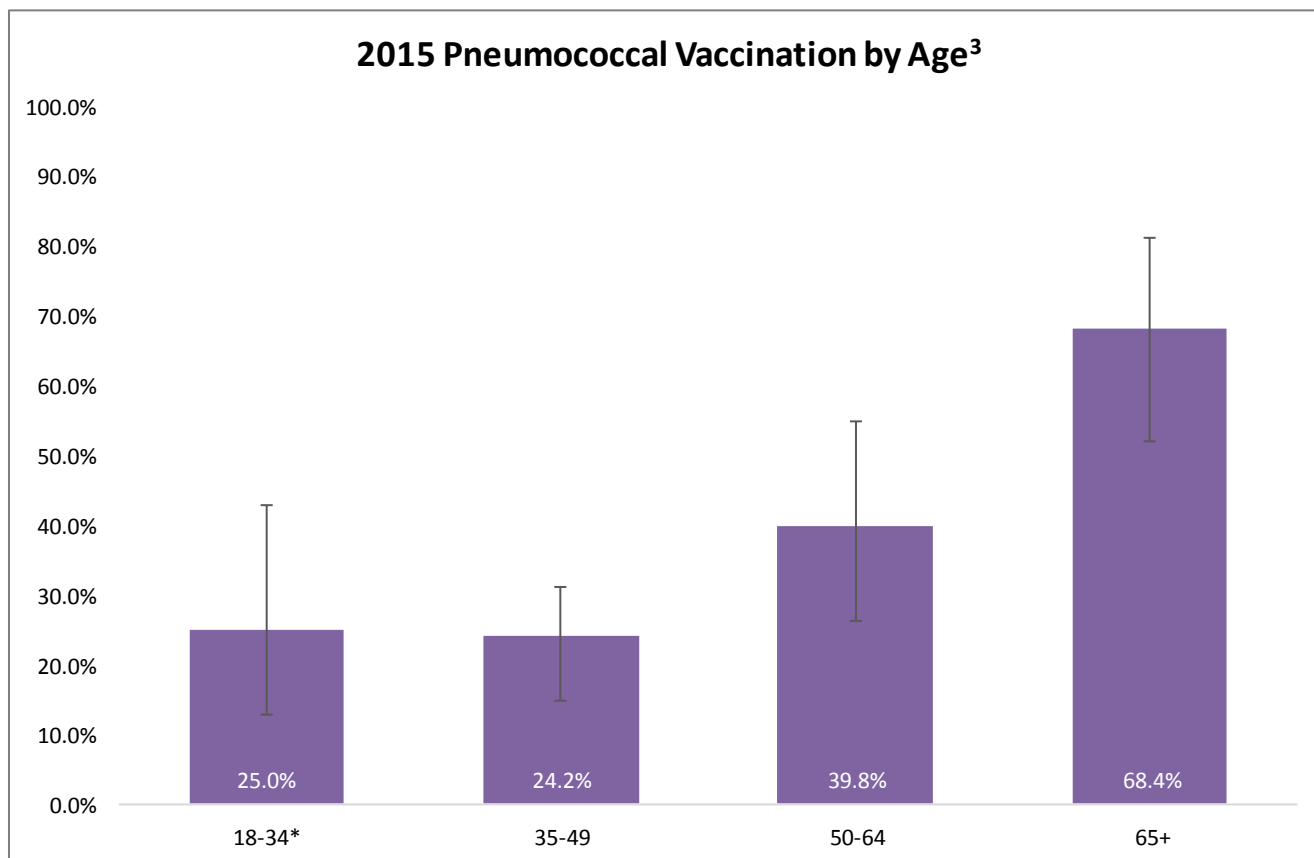
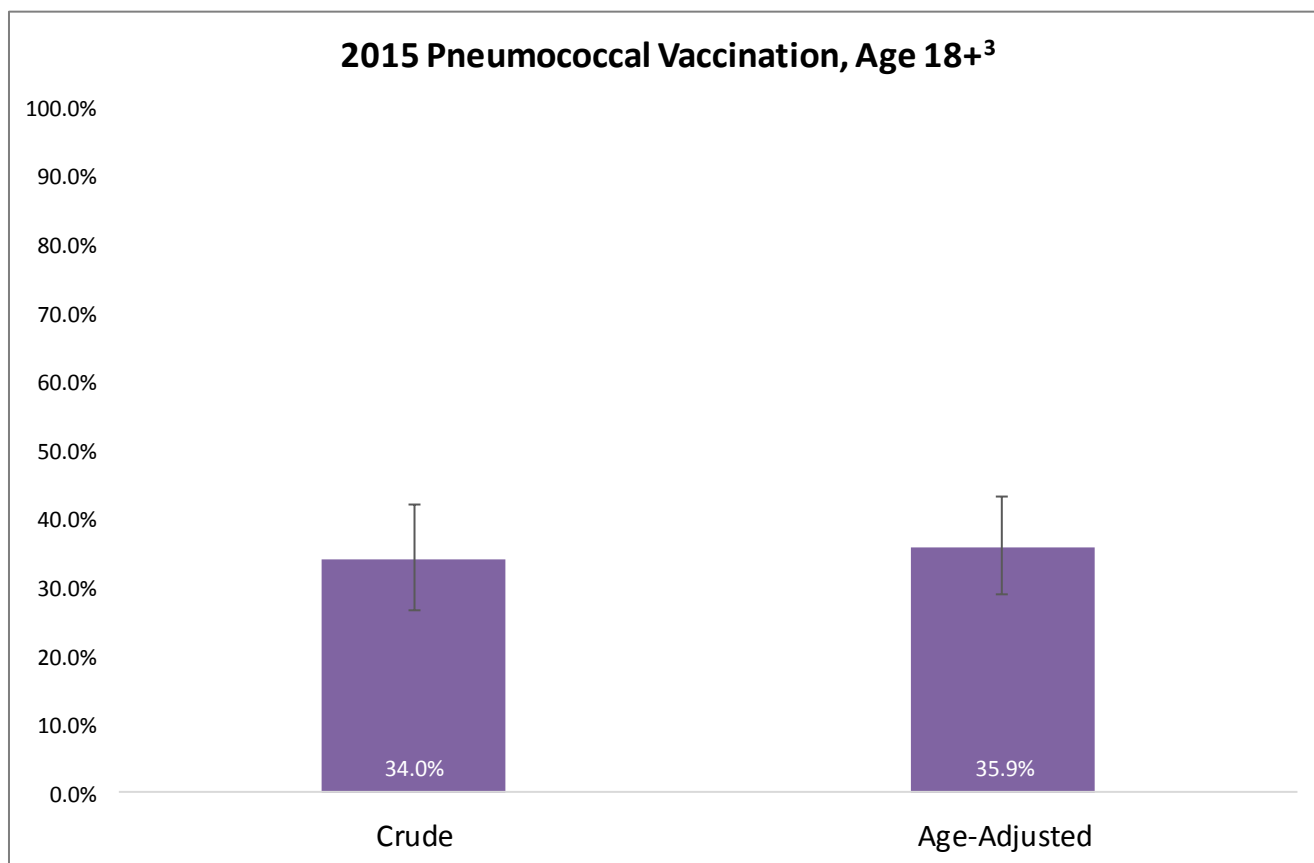
Adequately Immunized by School District 2015 <sup>2</sup>		
Tooele		
	Adequately Immunized	Total Exemptions
Kindergarten School Entry	93.8%	2.5%
Second-Dose Measles (K-12)	97.4%	2.5%
7th Grade Entry	92.5%	3.2%

Immunized for Child Care 2015 <sup>2</sup>		
	Adequately Immunized	Total Exemptions
Licensed Child Care Facilities	92.0%	2.9%
Head Start Centers	N/A	N/A

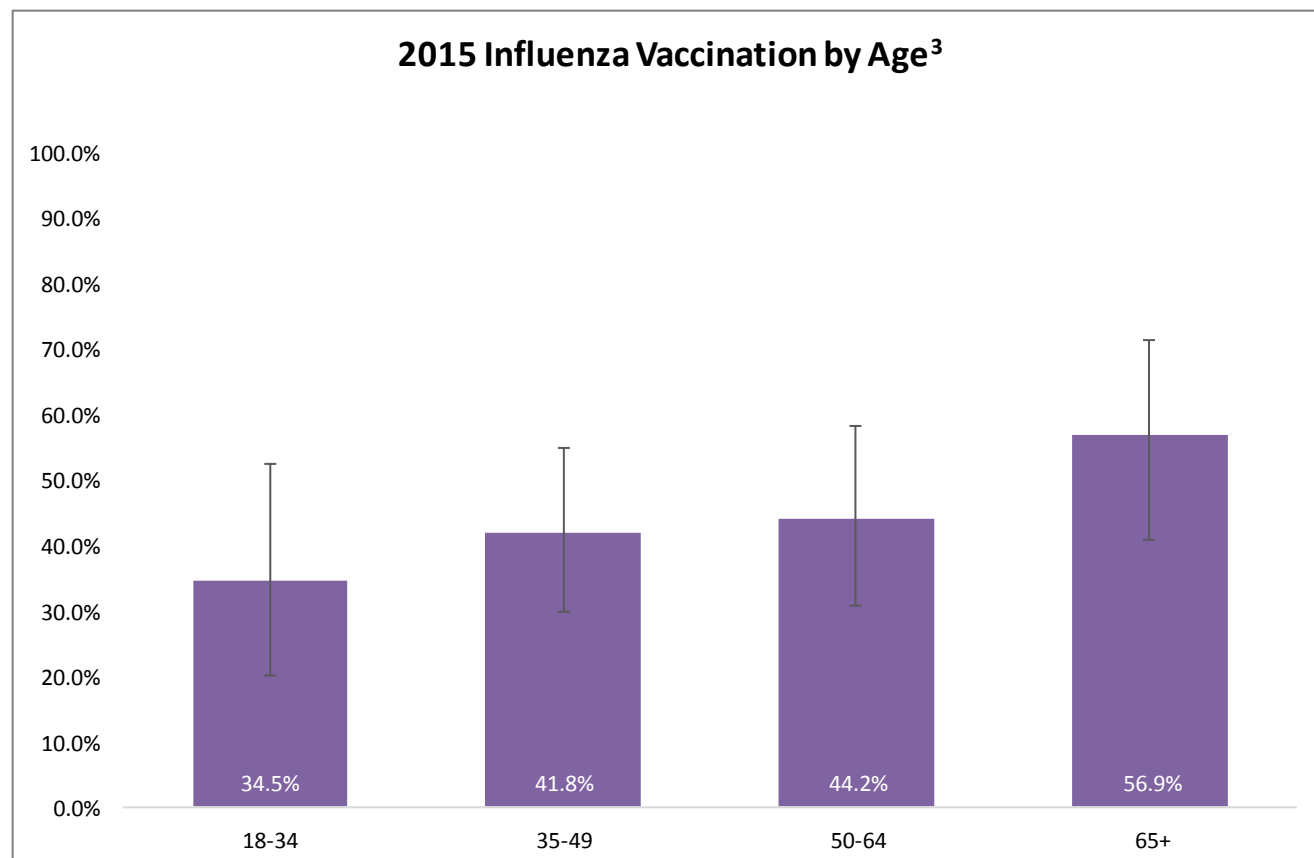
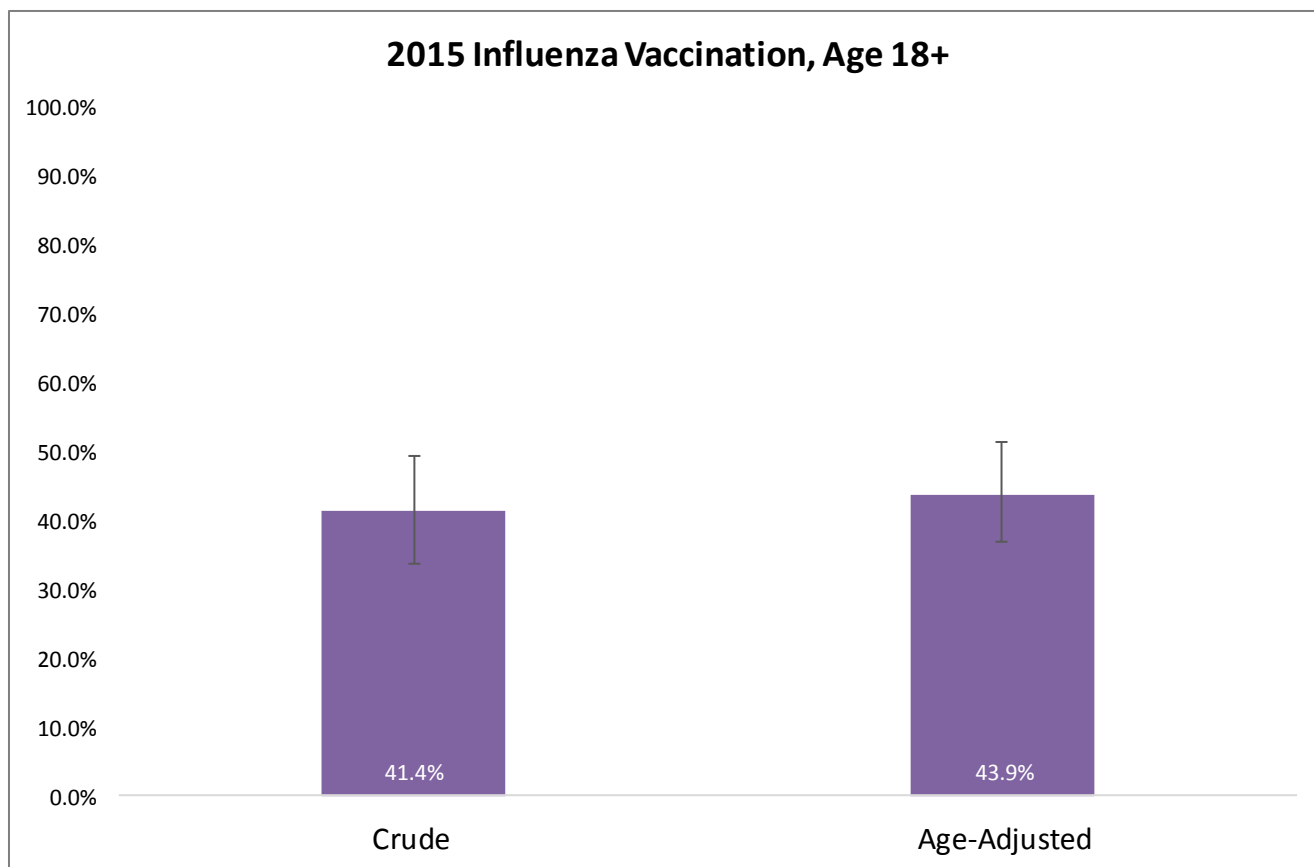


<b>≥19 Years of Age<sup>6</sup></b>		
Adults in USIIS born on or before 07/1/1997		
<b>Total</b>	43,181	
	<b>Total</b>	<b>Percent</b>
≥1 dose Influenza last season*	8,828	20.4%
≥1 dose influenza in lifetime	24,570	56.9%
≥1 TDaP	14,492	33.6%
≥1 Varicella	2,679	6.2%
≥1 HPV	2,055	4.8%
≥1 Zoster	2,174	5.0%
≥1 MMR	15,512	35.9%
≥1 PCV13	2,776	6.4%
≥1PPSV23	4,594	10.6%
≥1 Hep A	9,672	22.4%
≥1 Hep B	11,906	27.6%
≥1 Meningococcal	3,119	7.2%
≥1 HIB	7,028	16.3%

\*Last flu season between 07/01/2015 and 6/30/2016

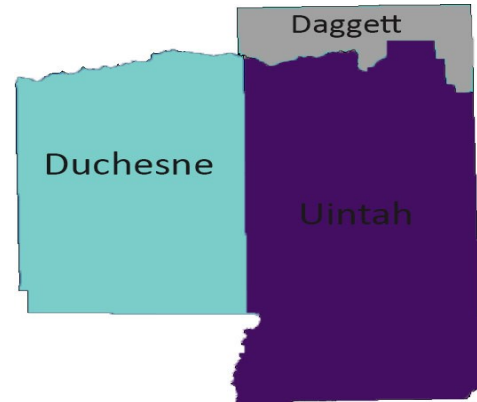


Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates. Use caution in interpreting, the estimate has a coefficient of variation > 30% and is therefore deemed unreliable by UDOH standards.



Source: BRFSS, Utah, 2015. Crude and Age-Adjusted Rates.

**Early Childhood Immunization**



24-35 months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2013 and 07/01/2014		
Total	1,176	
	Total	Percent
≥3 doses DTaP	1,077	91.6%
≥4 doses DTaP	895	76.1%
≥3 doses Polio	1,069	90.9%
≥1 dose MMR	1,032	87.8%
≥3 doses Hib	1,051	89.4%
≥1 dose Hib	1,166	99.1%
≥3 doses Hep B	1,082	92.0%
Hep B Birth dose	1,022	86.9%
≥1 dose Varicella	986	83.8%
≥3 doses PCV	1,052	89.5%
≥4 doses PCV	856	72.8%
≥2 doses Hep A	331	28.1%
≥1 dose Rotavirus	1,067	90.7%
4:3:1	875	74.4%
4:3:1:3	870	74.0%
4:3:1:4	806	68.5%
4:3:1:3:3	862	73.3%
4:3:1:0:3:1	857	72.9%
4:3:1:3:3:1	854	72.6%
4:3:1:4:3:1	792	67.3%
4:3:1:0:3:1:4	792	67.3%
4:3:1:3:3:1:4	791	67.3%

≤3 months of Age <sup>6</sup>		
Children in USIIS born between 03/02/2016 and 07/01/2016		
Total	262	
	Total	Percent
≥1 dose DTaP	261	99.6%
≥1 dose Polio	258	98.5%
≥1 dose Hib	258	98.5%
≥1 dose Hep B	259	99.0%
≥2 doses Hep B	240	91.6%
≥1 dose PCV	257	98.1%

≤5 months of Age <sup>6</sup>		
Children in USIIS born between 01/02/2016 and 07/01/2016		
Total	408	
	Total	Percent
≥2 doses DTaP	242	59.3%
≥2 doses Polio	237	58.1%
≥2 doses Hib	239	58.6%
≥2 doses Hep B	376	92.2%
≥2 doses PCV	241	59.1%

USIIS data queries were performed September 12, 2016. Service areas may vary because of the number of users who enter data into USIIS. Please interpret results of USIIS with caution.



<13 Months of Age <sup>6</sup>		
Children in USIIS born between 06/02/2015 and 07/01/2016		
Total	979	
	Total	Percent
≥3 doses DTaP	559	57.1%
≥2 doses Polio	772	78.9%
≥1 dose MMR	162	16.5%
≥2 doses Hib	768	78.4%
≥3 doses Hib	539	55.1%
≥2 doses Hep B	936	95.6%
≥3 doses Hep B	679	69.4%
≥1 dose Varicella	118	12.1%
≥3 doses PCV	539	55.1%

<19 Months of Age <sup>6</sup>		
Children in USIIS born between 12/02/2014 and 07/01/2016		
Total	1,491	
	Total	Percent
≥3 doses DTaP	1,006	67.5%
≥4 doses DTaP	188	12.6%
≥3 doses Polio	995	66.7%
≥1 dose MMR	554	37.2%
≥3 doses Hib	976	65.5%
≥1 dose Hib	1,476	99.0%
≥3 doses Hep B	1,128	75.7%
≥1 dose Varicella	448	30.0%
≥3 doses PCV	974	65.3%
≥4 doses PCV	345	23.1%
4:3:1	181	12.1%
4:3:1:3	181	12.1%
4:3:1:4	171	11.5%
4:3:1:3:3	179	12.0%
4:3:1:0:3	143	9.6%
4:3:1:4:3	171	11.5%
4:3:1:3:3:1	171	11.5%
4:3:1:0:3:1	175	11.7%
4:3:1:4:3:1	168	11.3%

<24 Months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2014-07/01/2016		
Total	1,970	
	Total	Percent
≥3 doses DTaP	1,429	72.5%
≥4 doses DTaP	510	25.9%
≥3 doses Polio	1,416	71.9%
≥1 dose MMR	947	48.1%
≥3 doses Hib	1,394	70.8%
≥1 dose Hib	1,952	99.1%
≥3 doses Hep B	1,562	79.3%
≥1 dose Varicella	819	41.6%
≥3 doses PCV	1,394	70.8%
≥4 doses PCV	672	34.1%
4:3:1	449	22.8%
4:3:1:3	495	25.1%
4:3:1:4	464	23.6%
4:3:1:3:3	492	25.0%
4:3:1:0:3	492	25.0%
4:3:1:4:3	463	23.5%
4:3:1:3:3:1	482	24.5%
4:3:1:0:3:1	482	24.5%
4:3:1:4:3:1	454	23.0%
4:3:1:3:3:1:4	452	22.9%

12-17 Years of Age <sup>6</sup>						
Children in USIIS born between 07/02/1998 and 07/01/2004						
Total	6,598					
	Total	Total %	Female Total	Female %	Male Total	Male %
1 HPV	2,242	34.0%	1,289	40.8%	937	27.6%
2 HPV	1,422	21.55%	854	27.0%	558	16.4%
3 HPV	928	14.1%	578	18.3%	346	10.2%

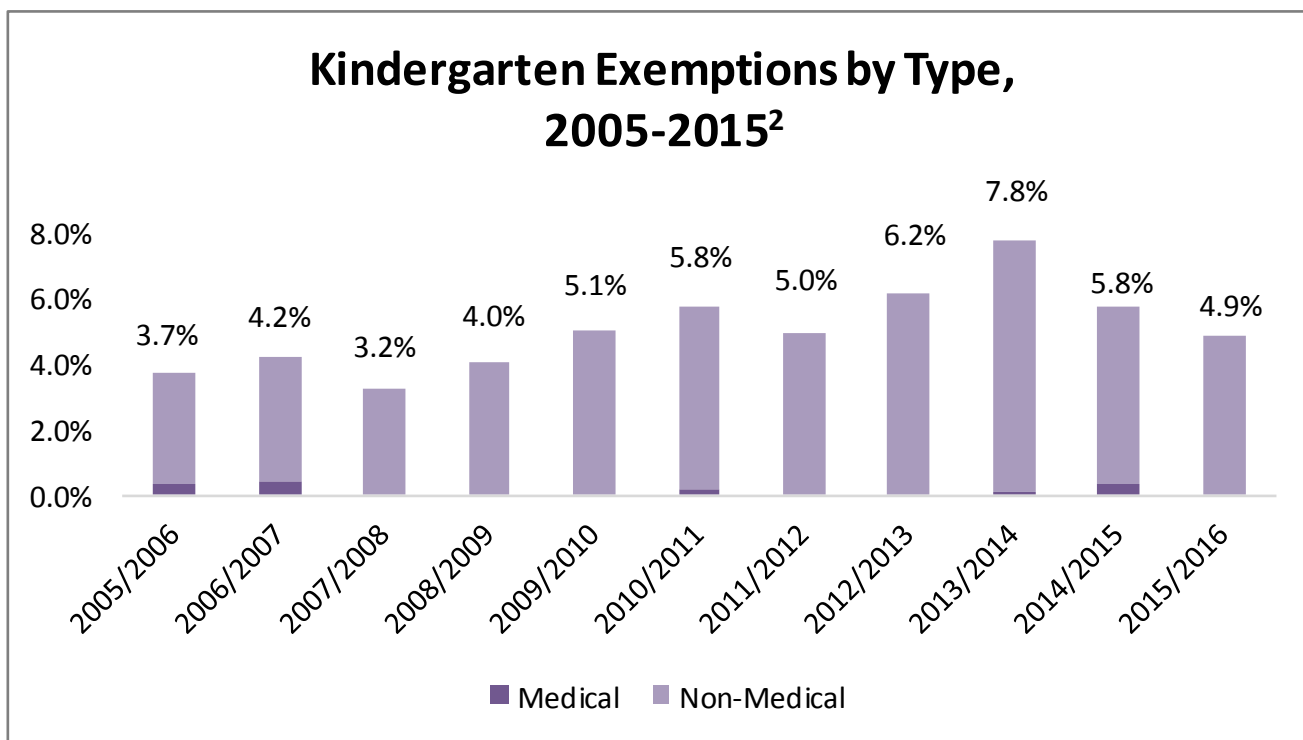
12-17 Years of Age <sup>6</sup>		
Children in USIIS born between 07/02/1998 and 07/01/2004		
Total	6,598	
	Total	Percent
≥1 dose Meningococcal	3,944	59.8%
≥1 dose TDaP	4,964	75.2%

≤18 Years of Age <sup>6</sup>		
Children in USIIS born after 07/1/1997		
Total	21,374	
	Total	Percent
≥1 dose Influenza in lifetime	10,249	48.0%
≥1 dose Influenza in last season*	4,178	19.5%

\*Last flu season between 07/01/2015 and 6/30/2016

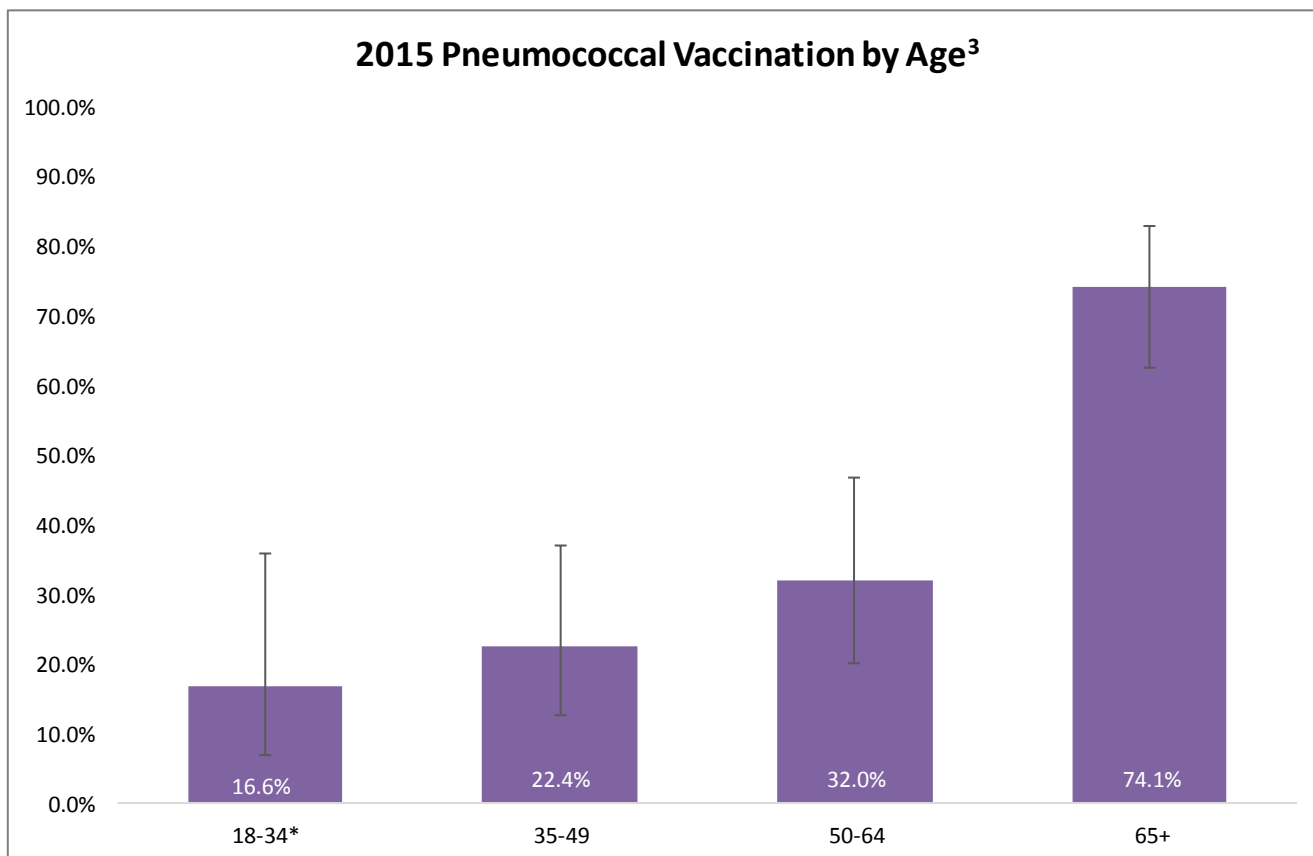
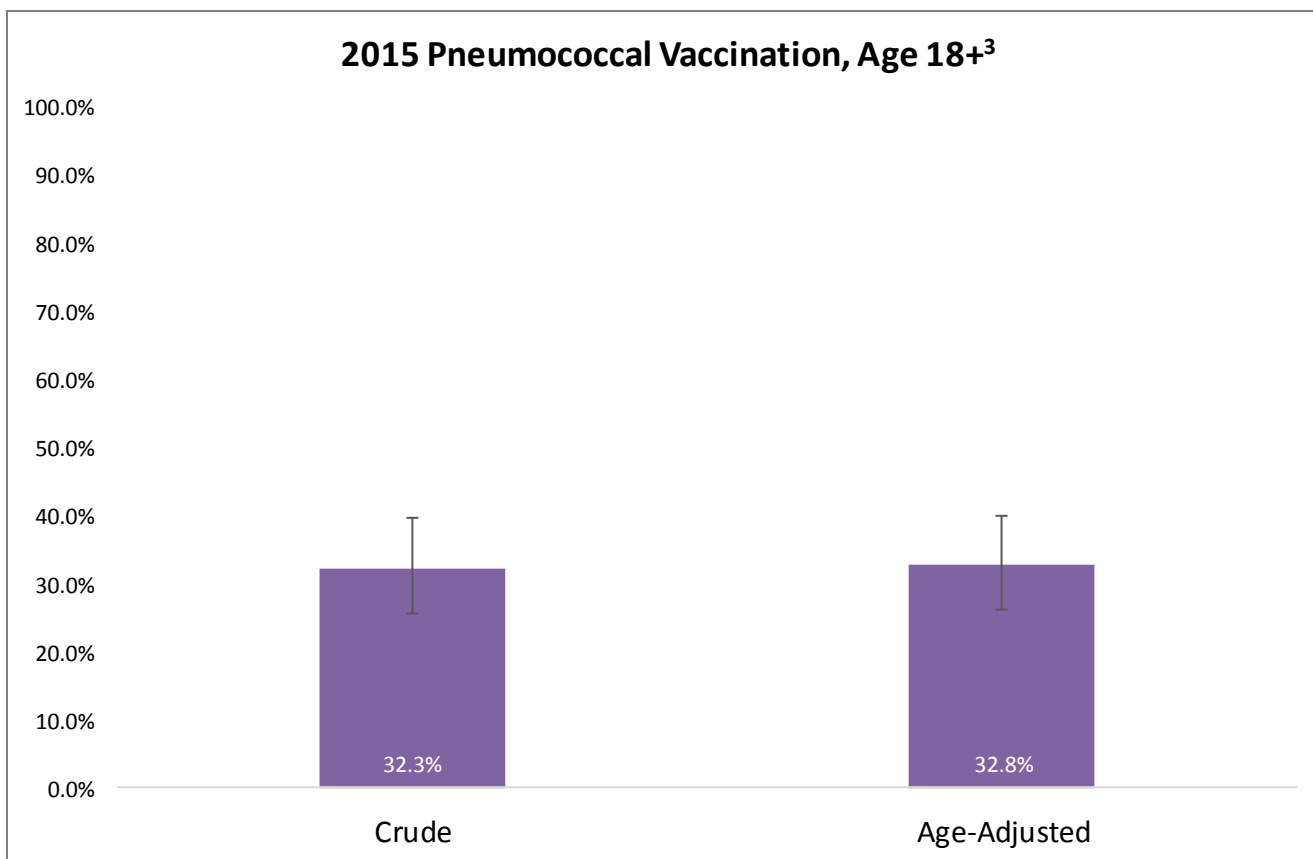
Adequately Immunized by School District 2015 <sup>2</sup>						
	Daggett		Duchesne		Uintah	
	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions
<b>Kindergarten School Entry</b>	100%	0.0%	89.6%	5.9%	91.6%	4.6%
<b>Second-Dose Measles (K-12)</b>	98.9%	1.1%	96.5%	3.3%	95.7%	4.0%
<b>7th Grade Entry</b>	94.8%	5.3%	93.2%	6.1%	87.0%	6.5%

Immunized for Child Care 2015 <sup>2</sup>		
	Adequately Immunized	Total Exemptions
<b>Licensed Child Care Facilities</b>	87.5%	1.0%
<b>Head Start Centers</b>	N/A	N/A

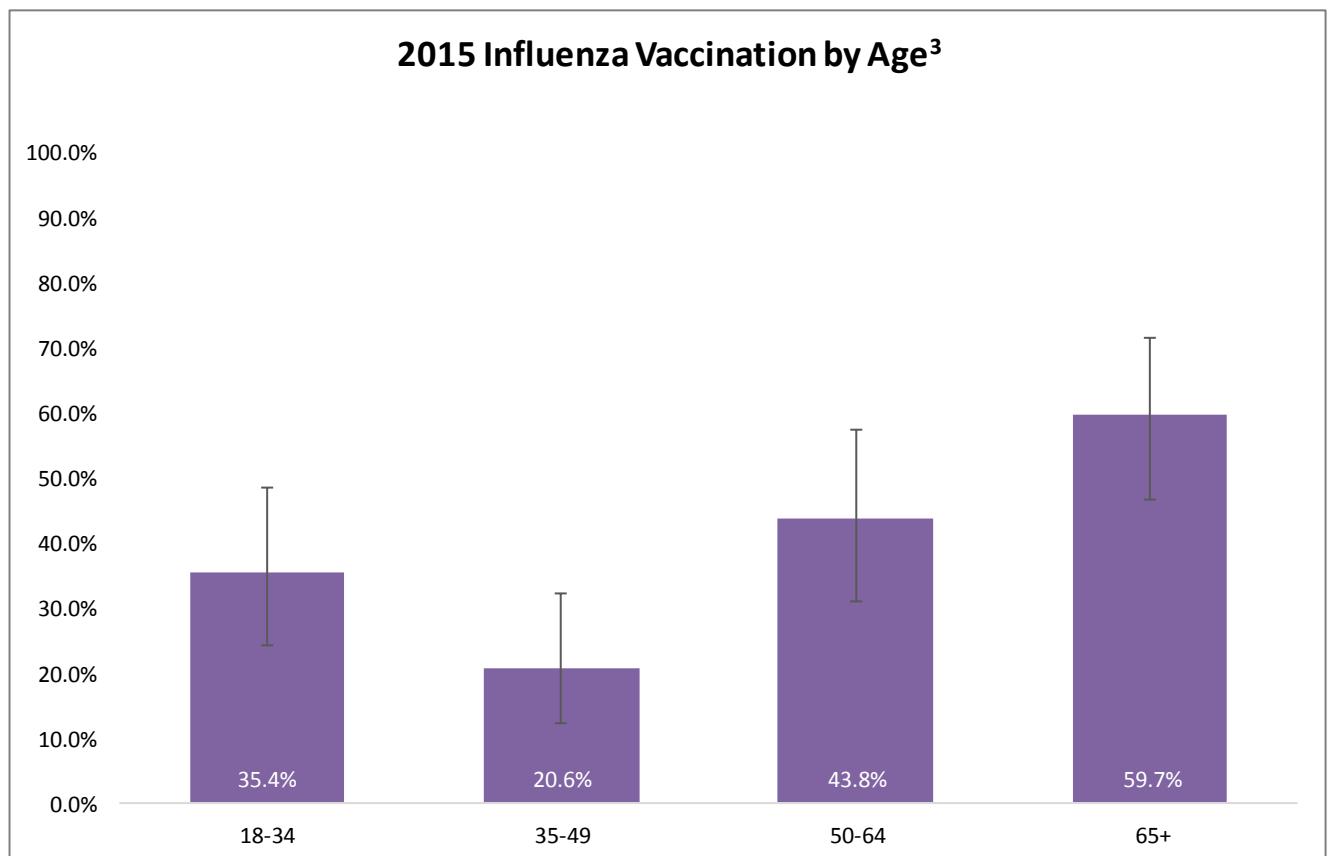
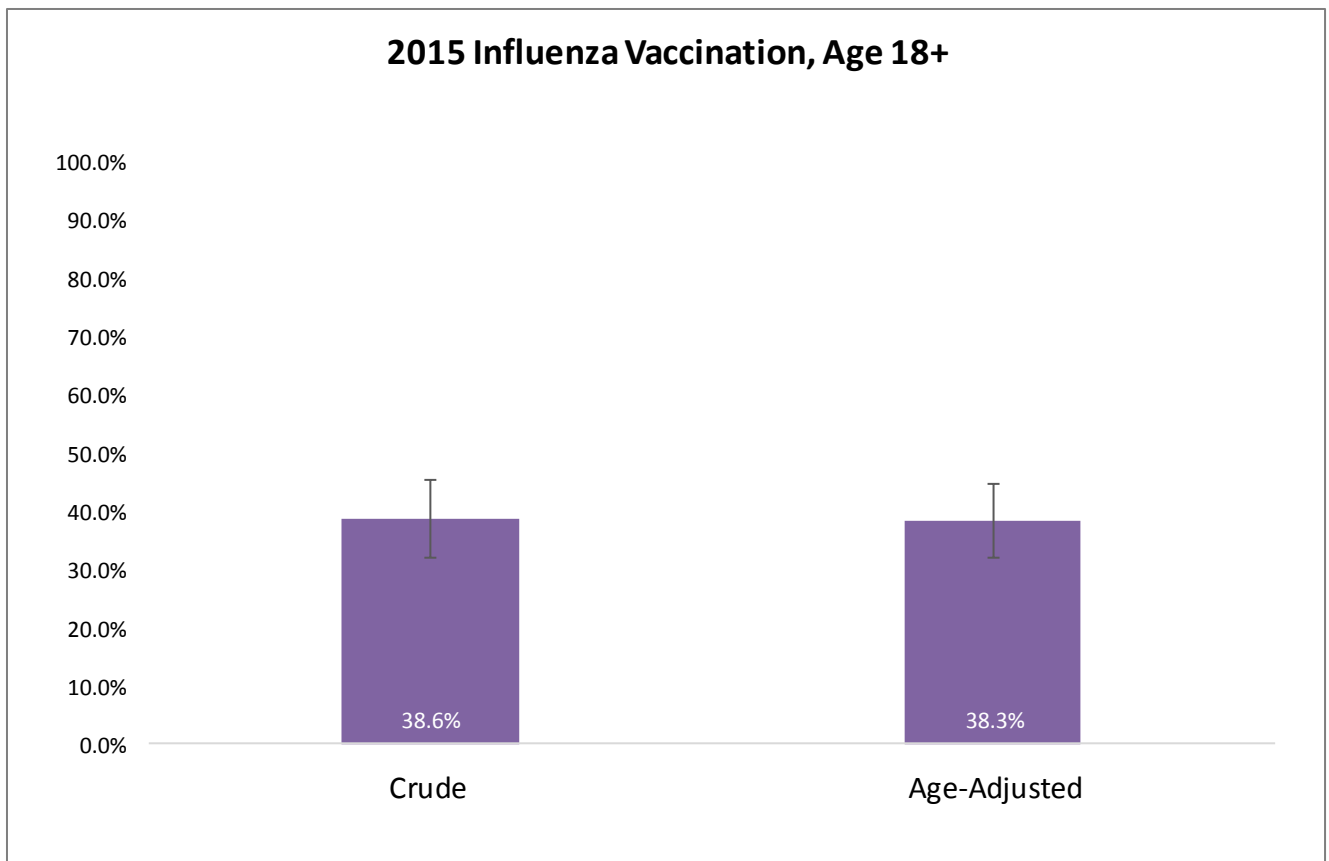


<b>≥19 Years of Age<sup>6</sup></b>		
Adults in USIIS born on or before 07/1/1997		
<b>Total</b>	35,984	
	<b>Total</b>	<b>Percent</b>
≥1 dose Influenza last season*	6,143	17.1%
≥1 dose influenza in lifetime	13,820	38.4%
≥1 TDaP	11,399	31.7%
≥1 Varicella	2,304	6.4%
≥1 HPV	1,203	3.3%
≥1 Zoster	1,942	5.4%
≥1 MMR	16,358	45.5%
≥1 PCV13	1,217	3.4%
≥1PPSV23	2,867	8.0%
≥1 Hep A	7,885	21.9%
≥1 Hep B	9,604	26.7%
≥1 Meningococcal	2,509	7.0%
≥1 HIB	6,556	18.2%

\*Last flu season between 07/01/2015 and 6/30/2016



Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates.



Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates.

**Early Childhood Immunization**



24-35 months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2013 and 07/01/2014		
Total	11,301	
	Total	Percent
≥3 doses DTaP	7,815	69.2%
≥4 doses DTaP	5,605	49.6%
≥3 doses Polio	7,427	65.7%
≥1 dose MMR	9,032	79.9%
≥3 doses Hib	7,554	66.8%
≥1 dose Hib	10,774	95.3%
≥3 doses Hep B	7,110	62.9%
Hep B Birth dose	8,932	79.0%
≥1 dose Varicella	8,919	78.9%
≥3 doses PCV	7,660	67.8%
≥4 doses PCV	5,545	49.1%
≥2 doses Hep A	6,703	59.3%
≥1 dose Rotavirus	8,482	75.1%
4:3:1	5,376	47.6%
4:3:1:3	5,333	47.2%
4:3:1:4	4,943	43.7%
4:3:1:3:3	5,118	45.3%
4:3:1:0:3:1	5,100	45.1%
4:3:1:3:3:1	5,063	44.8%
4:3:1:4:3:1	4,748	42.0%
4:3:1:0:3:1:4	4,748	42.0%
4:3:1:3:3:1:4	4,735	41.9%

≤3 months of Age <sup>6</sup>		
Children in USIIS born between 03/02/2016 and 07/01/2016		
Total	3,536	
	Total	Percent
≥1 dose DTaP	3,516	99.4%
≥1 dose Polio	3,491	98.7%
≥1 dose Hib	3,492	98.8%
≥1 dose Hep B	3,459	97.8%
≥2 doses Hep B	3,029	85.7%
≥1 dose PCV	3,472	98.2%

≤5 months of Age <sup>6</sup>		
Children in USIIS born between 01/02/2016 and 07/01/2016		
Total	5,105	
	Total	Percent
≥2 doses DTaP	2,906	56.9%
≥2 doses Polio	2,889	56.6%
≥2 doses Hib	2,881	56.4%
≥2 doses Hep B	4,458	87.3%
≥2 doses PCV	2,892	56.7%



<13 Months of Age <sup>6</sup>		
Children in USIIS born between 06/02/2015 and 07/01/2016		
Total	11,562	
	Total	Percent
≥3 doses DTaP	5,877	50.8%
≥2 doses Polio	8,750	75.7%
≥1 dose MMR	1,716	14.8%
≥2 doses Hib	8,761	75.8%
≥3 doses Hib	5,590	48.3%
≥2 doses Hep B	10,441	90.3%
≥3 doses Hep B	5,972	51.7%
≥1 dose Varicella	1,662	14.4%
≥3 doses PCV	6,090	52.7%

<19 Months of Age <sup>6</sup>		
Children in USIIS born between 12/02/2014 and 07/01/2016		
Total	17,044	
	Total	Percent
≥3 doses DTaP	10,295	60.4%
≥4 doses DTaP	2,542	14.9%
≥3 doses Polio	9,958	58.4%
≥1 dose MMR	5,921	34.7%
≥3 doses Hib	9,969	58.5%
≥1 dose Hib	16,766	98.4%
≥3 doses Hep B	10,137	59.5%
≥1 dose Varicella	5,763	33.8%
≥3 doses PCV	10,643	62.4%
≥4 doses PCV	4,624	27.1%
4:3:1	2,317	13.6%
4:3:1:3	2,311	13.6%
4:3:1:4	2,242	13.2%
4:3:1:3:3	2,230	13.1%
4:3:1:0:3	1,831	10.7%
4:3:1:4:3	2,174	12.8%
4:3:1:3:3:1	2,201	12.9%
4:3:1:0:3:1	2,206	12.9%
4:3:1:4:3:1	2,154	12.6%

<24 Months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2014 and 07/01/2016		
Total	21,892	
	Total	Percent
≥3 doses DTaP	14,072	64.3%
≥4 doses DTaP	5,131	23.4%
≥3 doses Polio	13,380	61.1%
≥1 dose MMR	9,881	45.1%
≥3 doses Hib	13,665	62.4%
≥1 dose Hib	21,493	98.2%
≥3 doses Hep B	13,454	61.5%
≥1 dose Varicella	9,686	44.2%
≥3 doses PCV	14,444	66.0%
≥4 doses PCV	7,400	33.8%
4:3:1	4,255	19.4%
4:3:1:3	4,728	21.6%
4:3:1:4	4,572	20.9%
4:3:1:3:3	4,560	20.8%
4:3:1:0:3	4,576	20.9%
4:3:1:4:3	4,428	20.2%
4:3:1:3:3:1	4,500	20.6%
4:3:1:0:3:1	4,516	20.6%
4:3:1:4:3:1	4,384	20.0%
4:3:1:3:3:1:4	4,368	20.0%

12-17 Years of Age <sup>6</sup>						
Children in USIIS born between 07/02/1998 and 07/01/2004						
Total	74,706					
	Total	Total %	Female Total	Female %	Male Total	Male %
1 HPV	21,503	28.8%	12,506	34.8%	8,976	23.7%
2 HPV	11,376	15.23%	6,881	19.2%	4,484	11.9%
3 HPV	6,002	8.0%	3,755	10.5%	2,242	5.9%

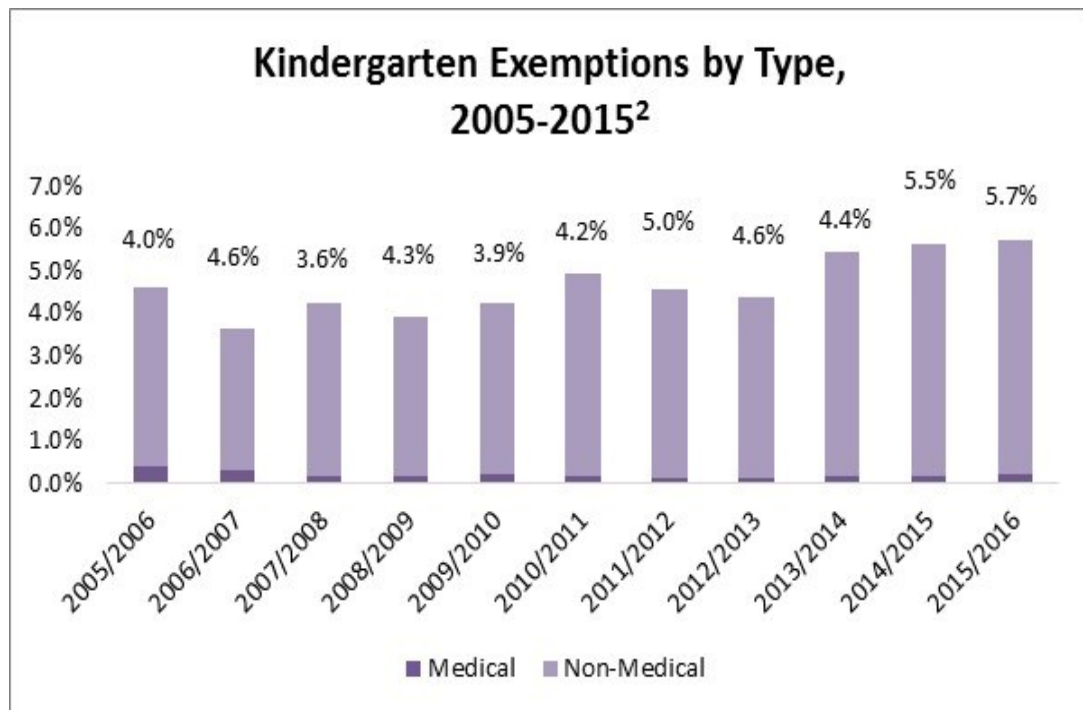
12-17 Years of Age <sup>6</sup>		
Children in USIIS born between 07/02/1998 and 07/01/2004		
Total	74,706	
	Total	Percent
≥1 dose Meningococcal	36,278	48.6%
≥1 dose Tdap	41,135	55.1%

<18 Years of Age <sup>6</sup>		
Children in USIIS born after 07/1/1997		
Total	222,801	
	Total	Percent
≥1 dose Influenza in lifetime	125,369	56.3%
≥1 dose Influenza last flu season*	57,384	25.8%

\*Last flu season between 07/01/2015 and 6/30/2016

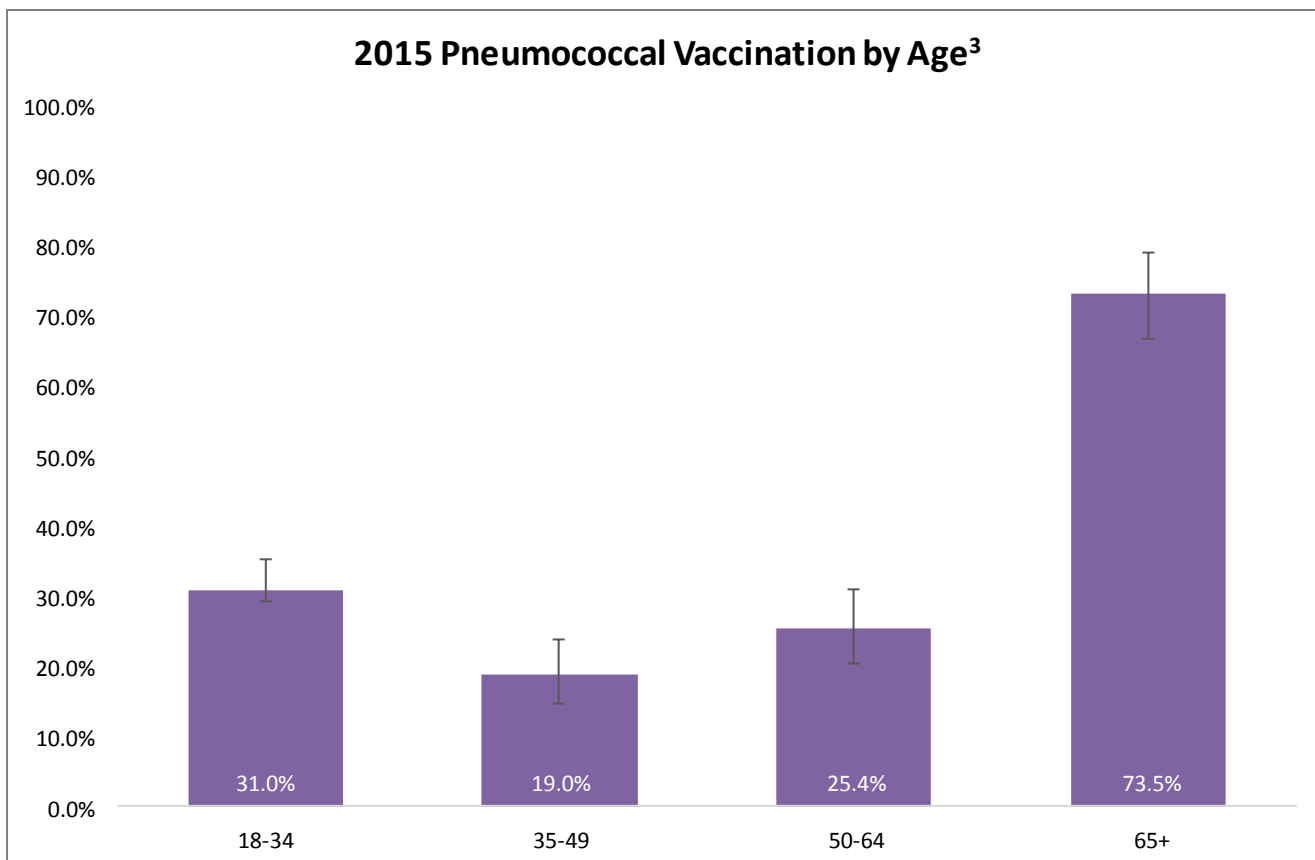
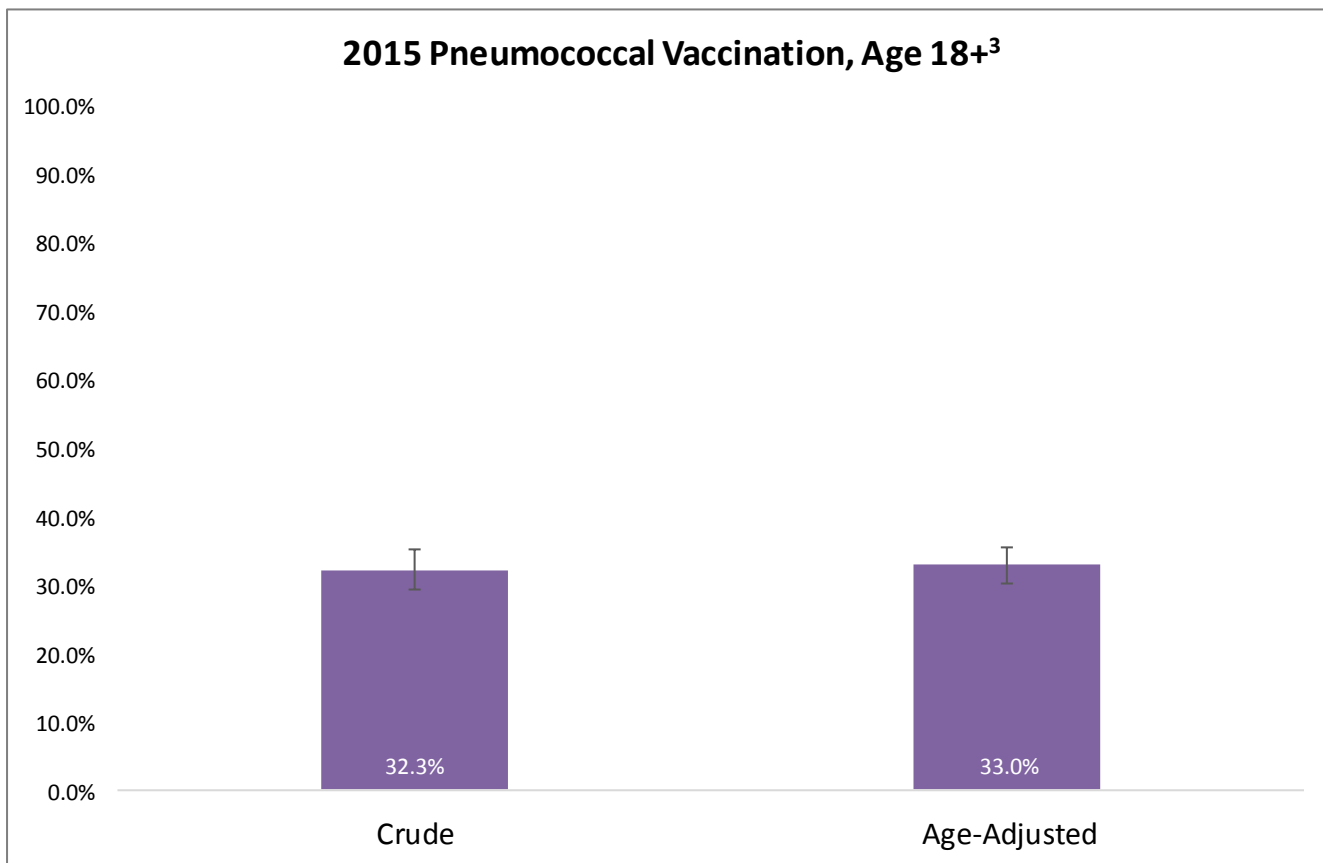
Adequately Immunized by School District 2015 <sup>2</sup>						
	Alpine		Nebo		Provo	
	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions
<b>Kindergarten School Entry</b>	83.6%	8.2%	90.8%	4.5%	84.7%	9.5%
<b>Second-Dose Measles (K-12)</b>	95.2%	4.3%	95.7%	4.2%	93.2%	6.4%
<b>7th Grade Entry</b>	84.0%	6.1%	93.6%	5.2%	80.1%	12.2%

Immunized for Child Care 2015 <sup>2</sup>		
	Adequately Immunized	Total Exemptions
<b>Licensed Child Care Facilities</b>	81.0%	2.2%
<b>Head Start Centers</b>	86.9%	1.8%

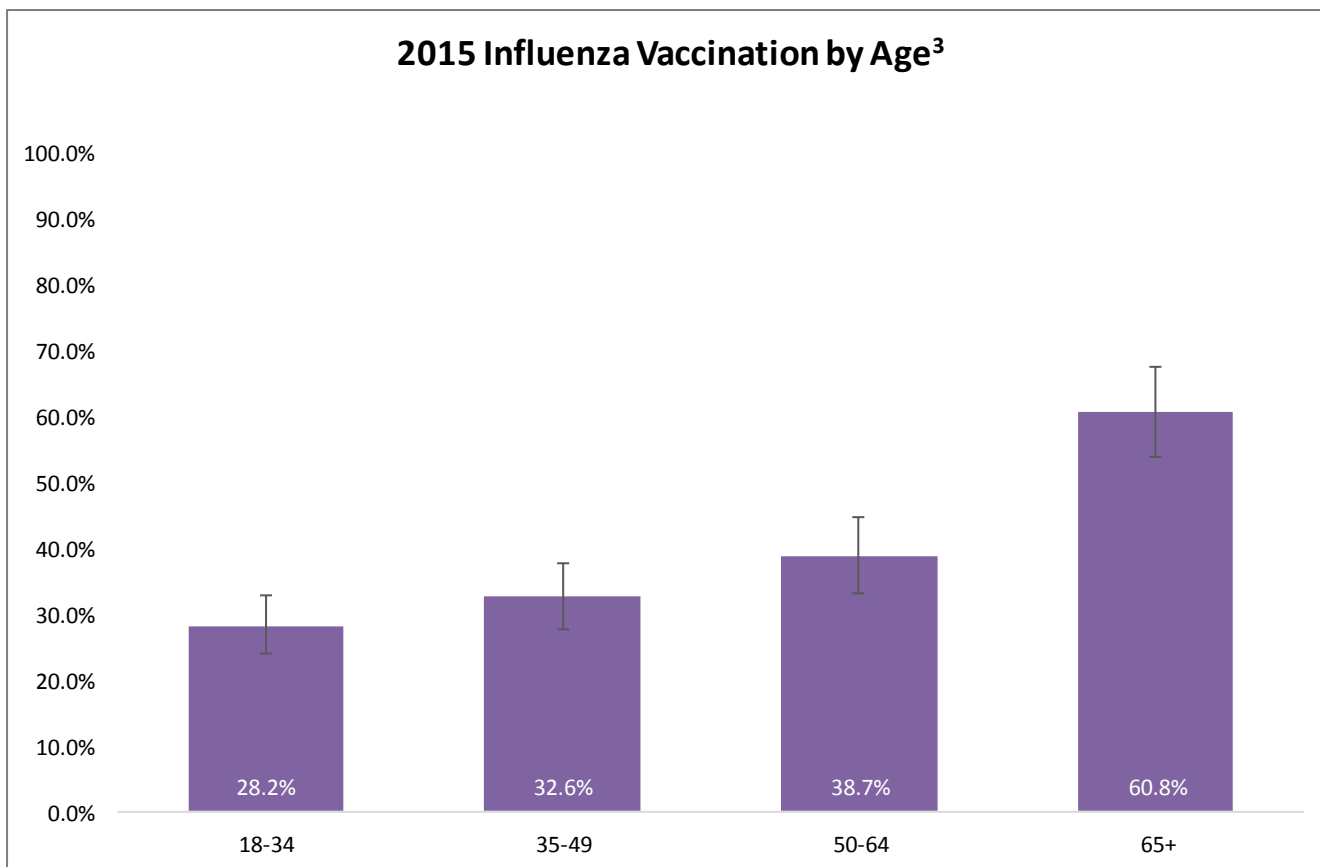
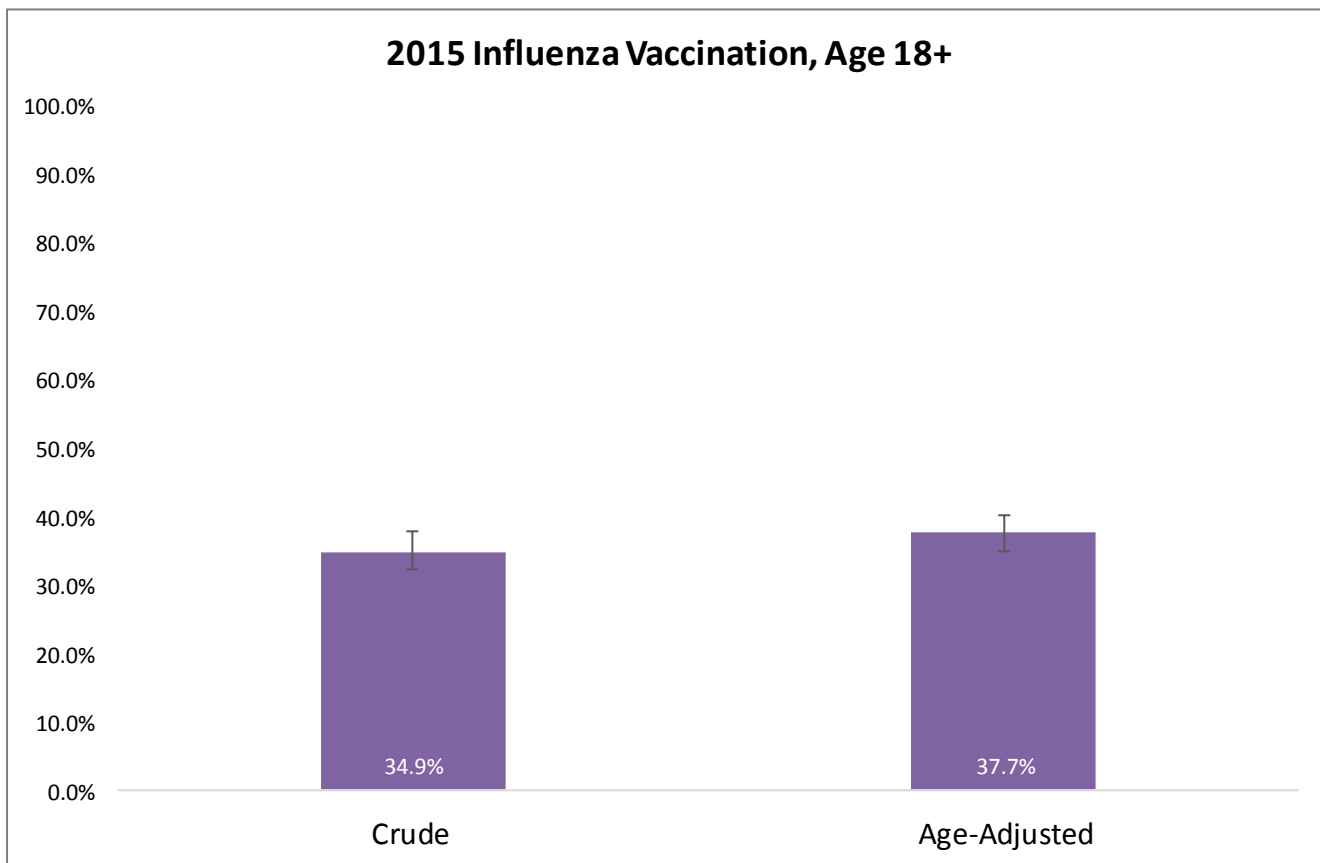


<b>≥19 Years of Age<sup>6</sup></b>		
Adults in USIIS born on or before 07/1/1997		
<b>Total</b>	321,248	
	<b>Total</b>	<b>Percent</b>
≥1 dose Influenza last season*	70,317	21.9%
≥1 dose influenza in lifetime	183,286	57.1%
≥1 TDaP	120,459	37.5%
≥1 Varicella	23,061	7.2%
≥1 HPV	10,683	3.3%
≥1 Zoster	13,853	4.3%
≥1 MMR	98,448	30.6%
≥1 PCV13	8,918	2.8%
≥1PPSV23	33,652	10.5%
≥1 Hep A	102,469	31.9%
≥1 Hep B	109,066	34.0%
≥1 Meningococcal	34,460	10.7%
≥1 HIB	49,284	15.3%

\*Last flu season between 07/01/2015 and 6/30/2016



Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates.



Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates.

**Early Childhood Immunization**



24-35 months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2013 and 07/01/2014		
Total	453	
	Total	Percent
≥3 doses DTaP	401	88.5%
≥4 doses DTaP	305	67.3%
≥3 doses Polio	389	85.9%
≥1 dose MMR	361	79.7%
≥3 doses Hib	387	85.4%
≥1 dose Hib	442	97.6%
≥3 doses Hep B	366	80.8%
Hep B Birth dose	353	77.9%
≥1 dose Varicella	352	77.7%
≥3 doses PCV	378	83.4%
≥4 doses PCV	267	58.9%
≥2 doses Hep A	192	42.4%
≥1 dose Rotavirus	406	89.6%
4:3:1	289	63.8%
4:3:1:3	283	62.5%
4:3:1:4	230	50.8%
4:3:1:3:3	270	59.6%
4:3:1:0:3:1	269	59.4%
4:3:1:3:3:1	265	58.5%
4:3:1:4:3:1	218	48.1%
4:3:1:0:3:1:4	218	48.1%
4:3:1:3:3:1:4	217	47.9%

≤3 months of Age <sup>6</sup>		
Children in USIIS born between 03/02/2016 and 07/01/2016		
Total	123	
	Total	Percent
≥1 dose DTaP	123	100%
≥1 dose Polio	118	95.9%
≥1 dose Hib	120	97.6%
≥1 dose Hep B	118	95.9%
≥2 doses Hep B	96	78.0%
≥1 dose PCV	121	98.4%

≤5 months of Age <sup>6</sup>		
Children in USIIS born between 01/02/2016 and 07/01/2016		
Total	181	
	Total	Percent
≥2 doses DTaP	105	58.0%
≥2 doses Polio	101	55.8%
≥2 doses Hib	102	56.4%
≥2 doses Hep B	147	81.2%
≥2 doses PCV	106	58.6%



<13 Months of Age <sup>6</sup>		
Children in USIIS born between 06/02/2015 and 07/01/2016		
Total	420	
	Total	Percent
≥3 doses DTaP	213	50.7%
≥2 doses Polio	311	74.0%
≥1 dose MMR	38	9.0%
≥2 doses Hib	308	73.3%
≥3 doses Hib	157	37.4%
≥2 doses Hep B	359	85.5%
≥3 doses Hep B	229	54.5%
≥1 dose Varicella	17	4.0%
≥3 doses PCV	207	49.3%

<19 Months of Age <sup>6</sup>		
Children in USIIS born between 12/02/2014 and 07/01/2016		
Total	651	
	Total	Percent
≥3 doses DTaP	408	62.7%
≥4 doses DTaP	116	17.8%
≥3 doses Polio	387	59.4%
≥1 dose MMR	192	29.5%
≥3 doses Hib	342	52.5%
≥1 dose Hib	638	98.0%
≥3 doses Hep B	388	59.6%
≥1 dose Varicella	153	23.5%
≥3 doses PCV	385	59.1%
≥4 doses PCV	142	21.8%
4:3:1	94	14.4%
4:3:1:3	93	14.3%
4:3:1:4	72	11.1%
4:3:1:3:3	86	13.2%
4:3:1:0:3	73	11.2%
4:3:1:4:3	68	10.4%
4:3:1:3:3:1	85	13.1%
4:3:1:0:3:1	85	13.1%
4:3:1:4:3:1	67	10.3%

<24 Months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2014 and 07/01/2016		
Total	854	
	Total	Percent
≥3 doses DTaP	582	68.1%
≥4 doses DTaP	226	26.5%
≥3 doses Polio	549	64.3%
≥1 dose MMR	341	39.9%
≥3 doses Hib	504	59.0%
≥1 dose Hib	831	98.0%
≥3 doses Hep B	536	92.8%
≥1 dose Varicella	293	34.3%
≥3 doses PCV	553	64.8%
≥4 doses PCV	256	30.0%
4:3:1	180	21.1%
4:3:1:3	197	23.1%
4:3:1:4	157	18.4%
4:3:1:3:3	183	21.4%
4:3:1:0:3	184	21.5%
4:3:1:4:3	148	17.3%
4:3:1:3:3:1	181	21.2%
4:3:1:0:3:1	182	21.3%
4:3:1:4:3:1	146	17.1%
4:3:1:3:3:1:4	147	17.2%

12-17 Years of Age <sup>6</sup>						
Children in USIIS born between 07/02/1998 and 07/01/2004						
Total	3,916					
	Total	Total %	Female Total	Female %	Male Total	Male %
1 HPV	1,300	33.2%	708	38.0%	589	28.8%
2 HPV	662	16.91%	375	20.1%	284	13.9%
3 HPV	337	8.6%	205	11.0%	130	6.4%

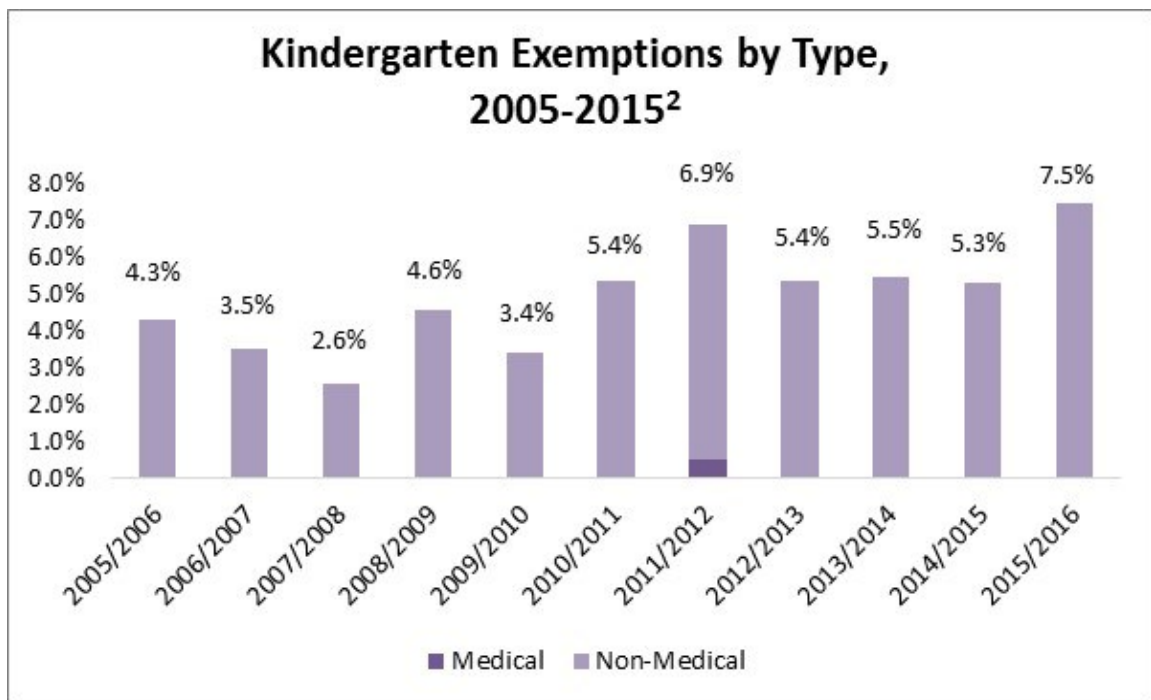
12-17 Years of Age <sup>6</sup>		
Children in USIIS born between 07/02/1999 and 07/01/2004		
Total	3,916	
	Total	Percent
≥1 dose Meningococcal	2,299	58.7%
≥1 dose TDaP	2,996	76.5%

<18 Years of Age <sup>6</sup>		
Children in USIIS born after 07/1/1998		
Total	11,364	
	Total	Percent
≥1 dose Influenza in lifetime	6,808	59.9%
≥1 dose Influenza last flu season*	2,212	19.5%

\*Last flu season between 07/01/2015 and 6/30/2016

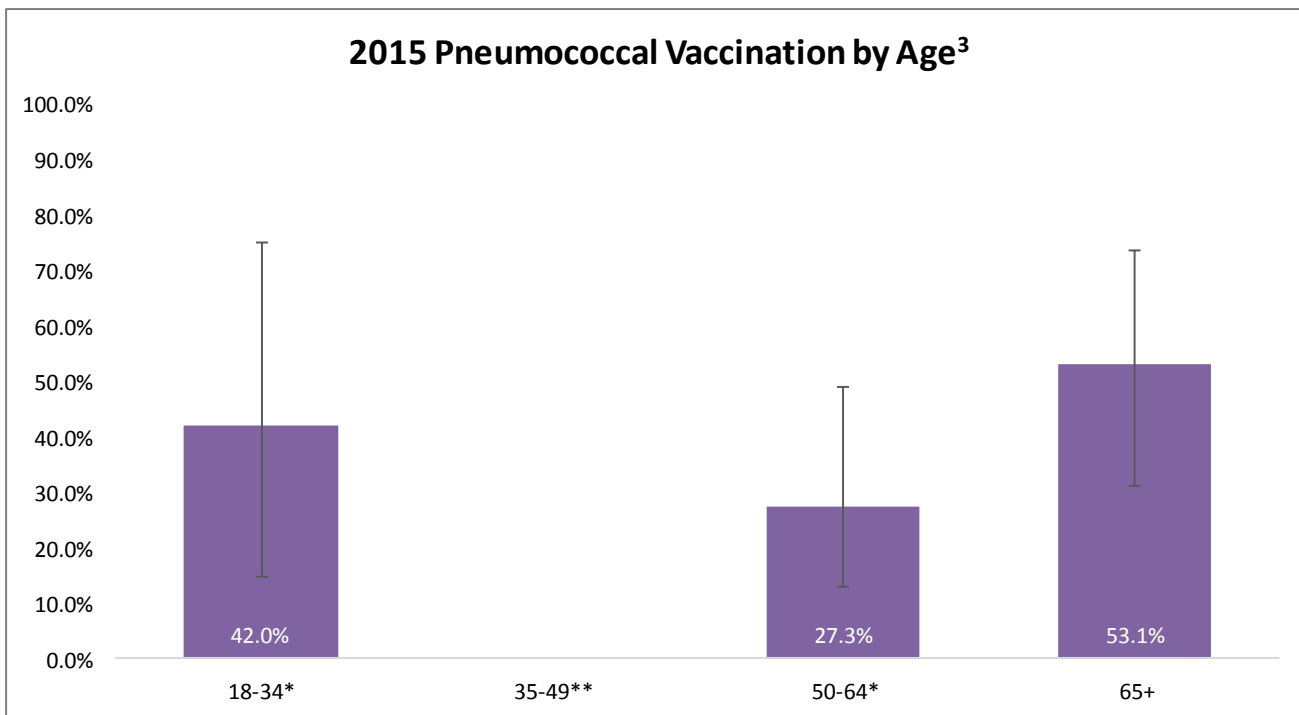
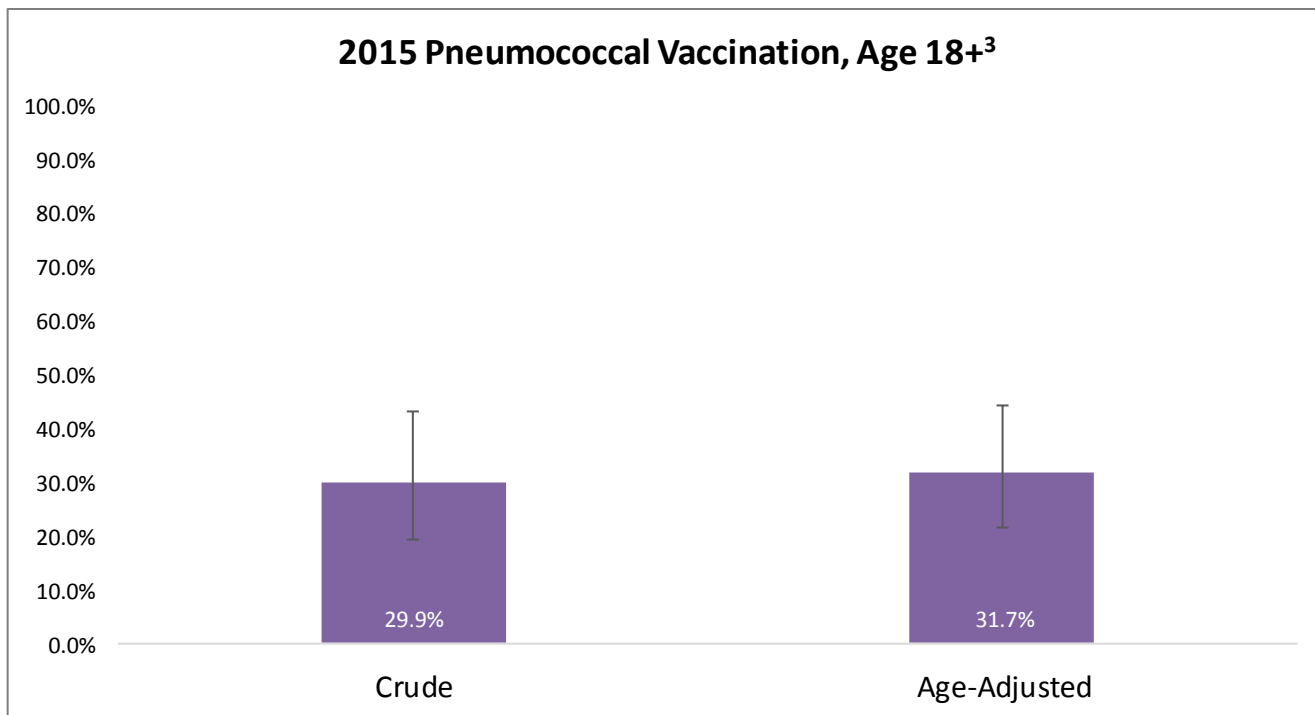
Adequately Immunized by School District 2015 <sup>2</sup>		
Wasatch		
	Adequately Immunized	Total Exemptions
Kindergarten School Entry	89.7%	5.8%
Second-Dose Measles (K-12)	95.5%	4.4%
7th Grade Entry	94.6%	5.2%

Immunized for Child Care 2015 <sup>2</sup>		
	Adequately Immunized	Total Exemptions
Licensed Child Care Facilities	81.1%	0.0%
Head Start Centers	N/A	N/A

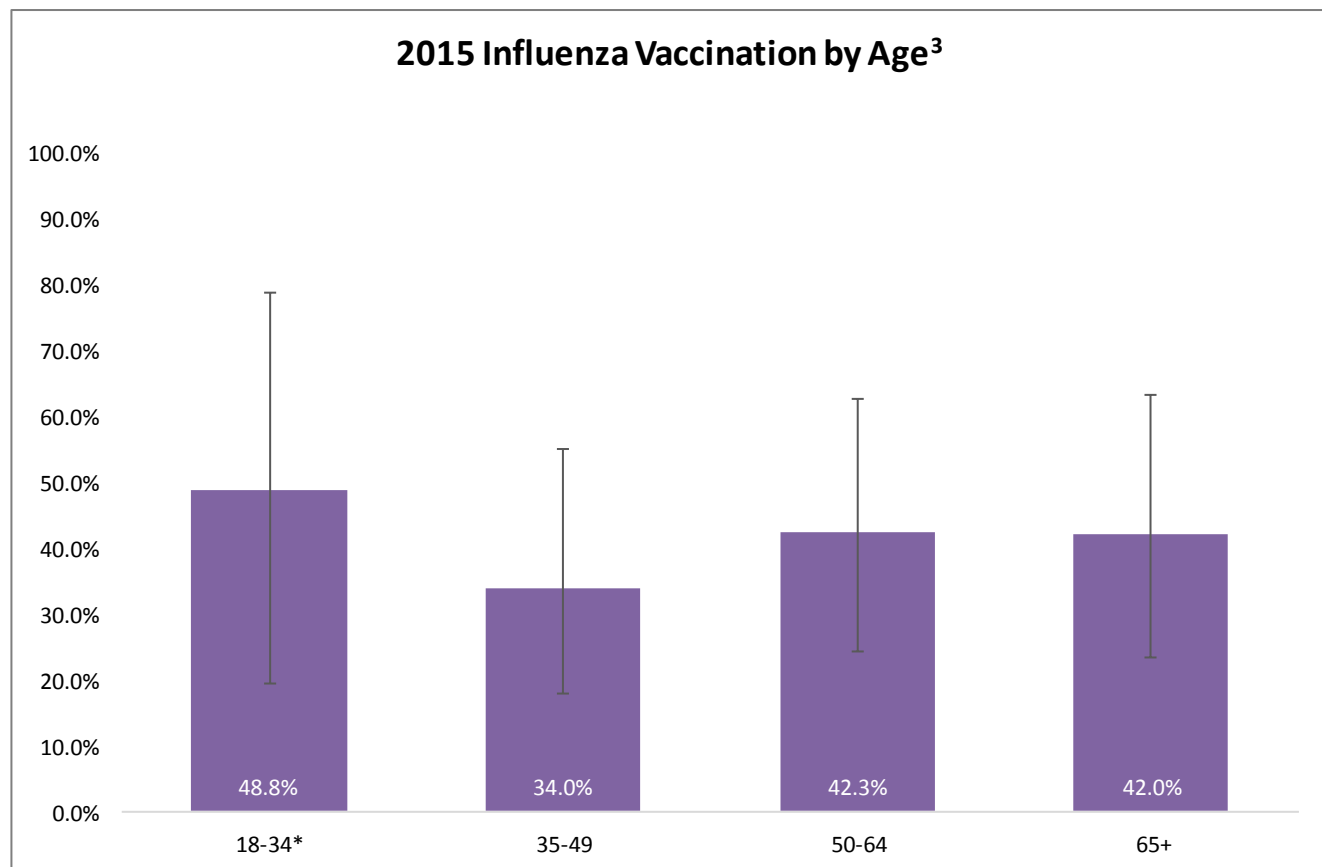
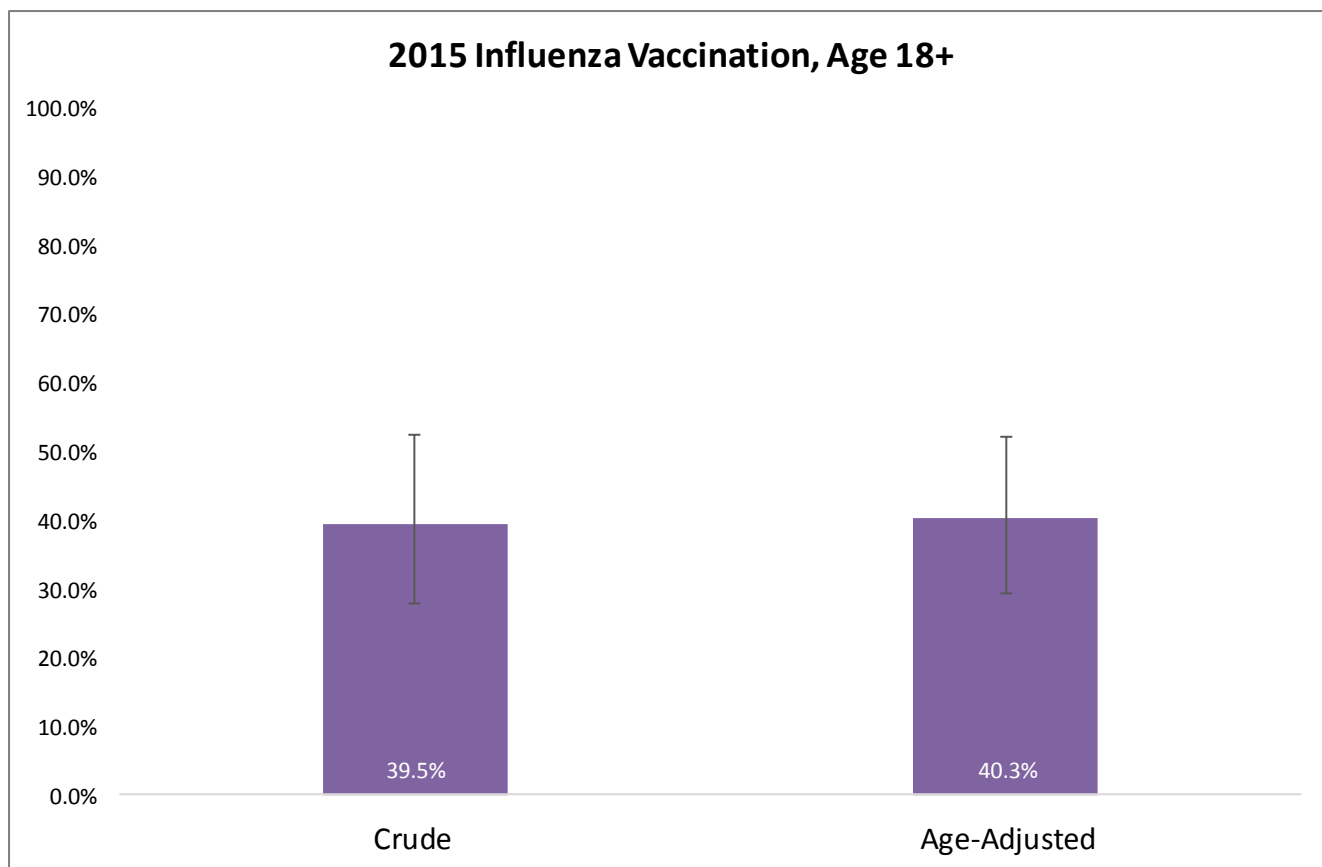


<b>≥19 Years of Age<sup>6</sup></b>		
Adults in USIIS born on or before 07/1/1997		
<b>Total</b>	17,656	
	<b>Total</b>	<b>Percent</b>
≥1 dose Influenza last season*	3,783	21.4%
≥1 dose influenza in lifetime	10,503	59.5%
≥1 TDaP	8,139	46.1%
≥1 Varicella	1,474	8.3%
≥1 HPV	675	3.8%
≥1 Zoster	1,277	7.2%
≥1 MMR	5,353	30.3%
≥1 PCV13	1,079	6.1%
≥1PPSV23	1,583	9.0%
≥1 Hep A	6,277	35.6%
≥1 Hep B	6,412	36.3%
≥1 Meningococcal	2,619	14.8%
≥1 HIB	2,992	16.9%

\*Last flu season between 07/01/2015 and 6/30/2016

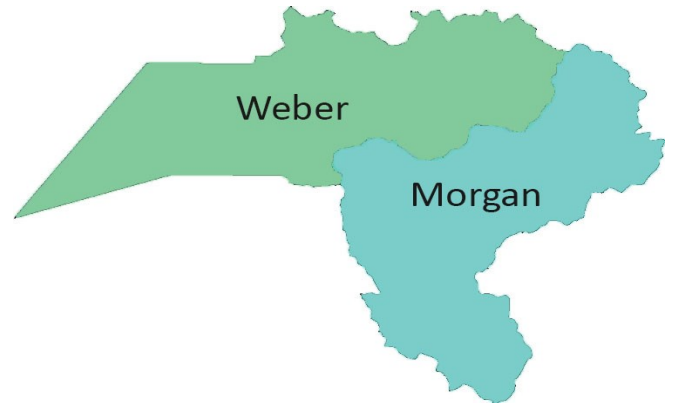


Source: BRFSS, Utah, 2015. Crude and Age-Adjusted Rates. \* Use caution in interpreting, the estimate has a coefficient of variation > 30% and is therefore deemed unreliable by UDOH standards. \*\*The estimate has been suppressed because 1) The relative standard error is greater than 50% or when the relative standard error can't be determined. Consider aggregating years to decrease the relative standard error and improve the reliability of the estimate. 2) the observed number of events is very small and not appropriate for publication, or 3) it could be used to calculate the number in a cell that has been suppressed.



Source: BRFSS, Utah, 2015. Crude and Age-adjusted Rates. \* Use caution in interpreting, the estimate has a coefficient of variation > 30% and is therefore deemed unreliable by UDOH standards.

**Early Childhood Immunization**



24-35 months of Age <sup>6</sup>		
Children in USIIS born between 07/02/2013 and 07/01/2014		
<b>Total</b>	3,796	
	<b>Total</b>	<b>Percent</b>
≥3 doses DTaP	3,473	91.5%
≥4 doses DTaP	3,052	80.4%
≥3 doses Polio	3,433	90.4%
≥1 dose MMR	3,401	89.6%
≥3 doses Hib	3,403	89.6%
≥1 dose Hib	3,750	98.8%
≥3 doses Hep B	3,315	87.3%
Hep B Birth dose	3,315	87.3%
≥1 dose Varicella	3,387	89.2%
≥3 doses PCV	3,425	90.2%
≥4 doses PCV	2,980	78.5%
≥2 doses Hep A	2,656	70.0%
≥1 dose Rotavirus	3,433	90.4%
4:3:1	2,995	78.9%
4:3:1:3	2,984	78.6%
4:3:1:4	2,842	74.9%
4:3:1:3:3	2,953	77.8%
4:3:1:0:3:1	2,947	77.6%
4:3:1:3:3:1	2,938	77.4%
4:3:1:4:3:1	2,809	74.0%
4:3:1:0:3:1:4	2,809	74.0%
4:3:1:3:3:1:4	2,805	73.9%

≤3 months of Age <sup>6</sup>		
Children in USIIS born between 03/02/2016 and 07/01/2016		
<b>Total</b>	1,212	
	<b>Total</b>	<b>Percent</b>
≥1 dose DTaP	1,205	99.4%
≥1 dose Polio	1,202	99.2%
≥1 dose Hib	1,198	98.8%
≥1 dose Hep B	1,203	99.3%
≥2 doses Hep B	1,120	92.4%
≥1 dose PCV	1,195	98.6%

≤5 months of Age <sup>6</sup>		
Children in USIIS born between 01/02/2016 and 07/01/2016		
<b>Total</b>	181	
	<b>Total</b>	<b>Percent</b>
≥2 doses DTaP	105	58.0%
≥2 doses Polio	101	55.8%
≥2 doses Hib	102	56.4%
≥2 doses Hep B	147	81.2%
≥2 doses PCV	106	58.6%



**Weber-Morgan Service Area *Early Childhood Immunization* 2016**

<b>&lt;13 Months of Age<sup>6</sup></b>		
Children in USIIS born between 06/02/2015 and 07/01/2016		
<b>Total</b>	4,177	
	Total	Percent
≥3 doses DTaP	2,410	57.7%
≥2 doses Polio	3,272	78.3%
≥1 dose MMR	739	17.7%
≥2 doses Hib	3,279	78.5%
≥3 doses Hib	2,299	55.0%
≥2 doses Hep B	3,989	95.5%
≥3 doses Hep B	2,527	60.5%
≥1 dose Varicella	736	17.6%
≥3 doses PCV	2,393	57.3%

<b>&lt;19 Months of Age<sup>6</sup></b>		
Children in USIIS born between 12/02/2014 and 07/01/2016		
<b>Total</b>	6,054	
	Total	Percent
≥3 doses DTaP	4,100	67.7%
≥4 doses DTaP	1,300	21.5%
≥3 doses Polio	4,046	66.8%
≥1 dose MMR	2,280	37.7%
≥3 doses Hib	3,953	65.3%
≥1 dose Hib	6,010	99.3%
≥3 doses Hep B	4,206	69.5%
≥1 dose Varicella	2,277	37.6%
≥3 doses PCV	4,078	67.4%
≥4 doses PCV	1,816	30.0%
4:3:1	1,256	20.7%
4:3:1:3	1,255	20.7%
4:3:1:4	1,212	20.0%
4:3:1:3:3	1,238	20.4%
4:3:1:0:3	1,037	17.1%
4:3:1:4:3	1,197	19.8%
4:3:1:3:3:1	1,234	20.4%
4:3:1:0:3:1	1,235	20.4%
4:3:1:4:3:1	1,193	19.7%

**Weber-Morgan Service Area *Early Childhood Immunization* 2016**

<b>&lt;24 Months of Age<sup>6</sup></b>		
Children in USIIS born between 07/02/2014 and 07/01/2016		
<b>Total</b>	7,679	
	<b>Total</b>	<b>Percent</b>
≥3 doses DTaP	5,548	72.2%
≥4 doses DTaP	2,489	32.4%
≥3 doses Polio	5,479	71.4%
≥1 dose MMR	3,694	48.1%
≥3 doses Hib	5,385	70.1%
≥1 dose Hib	7,616	99.2%
≥3 doses Hep B	5,639	73.4%
≥1 dose Varicella	3,688	48.0%
≥3 doses PCV	5,516	71.8%
≥4 doses PCV	3,033	39.5%
4:3:1	2,192	28.5%
4:3:1:3	2,421	31.5%
4:3:1:4	2,335	30.4%
4:3:1:3:3	2,395	31.2%
4:3:1:0:3	2,396	31.2%
4:3:1:4:3	,2313	30.1%
4:3:1:3:3:1	2,391	31.1%
4:3:1:0:3:1	2,392	31.1%
4:3:1:4:3:1	2,307	30.0%
4:3:1:3:3:1:4	2,313	30.1%

12-17 Years of Age <sup>6</sup>						
Children in USIIS born between 07/02/1998 and 07/01/2004						
Total	30,752					
	Total	Total %	Female Total	Female %	Male Total	Male %
1 HPV	13,790	44.8%	7,635	50.9%	6,142	39.3%
2 HPV	9,110	29.62%	5,243	35.0%	3,858	24.7%
3 HPV	6,114	19.9%	3,572	23.8%	2,538	16.2%

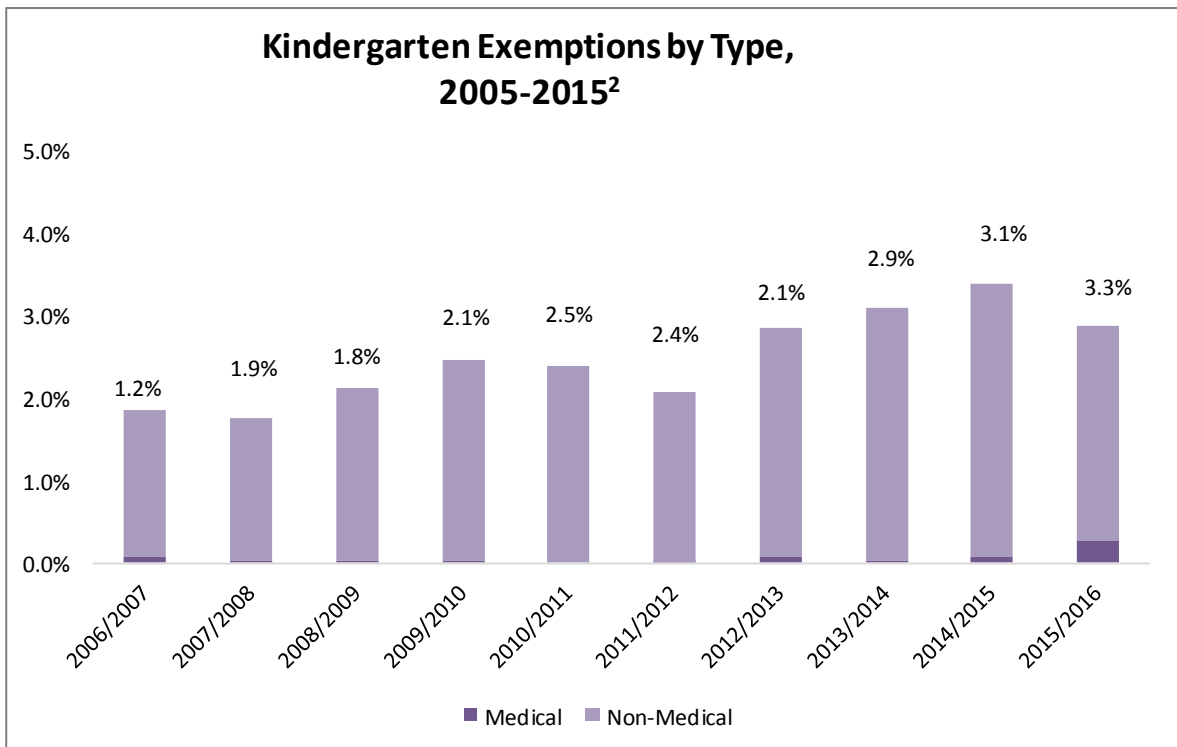
12-17 Years of Age <sup>6</sup>		
Children in USIIS born between 07/02/1998 and 07/01/2004		
Total	30,752	
	Total	Percent
≥1 dose Meningococcal	19,636	63.9%
≥1 dose Tap	22,988	74.8%

<18 Years of Age <sup>6</sup>		
Children in USIIS born after 07/1/1997		
Total	89,432	
	Total	Percent
≥1 dose Influenza in lifetime	55,394	61.9%
≥1 dose Influenza last season*	24,514	27.4%

\*Last flu season between 7/1/15 and 6/30/16

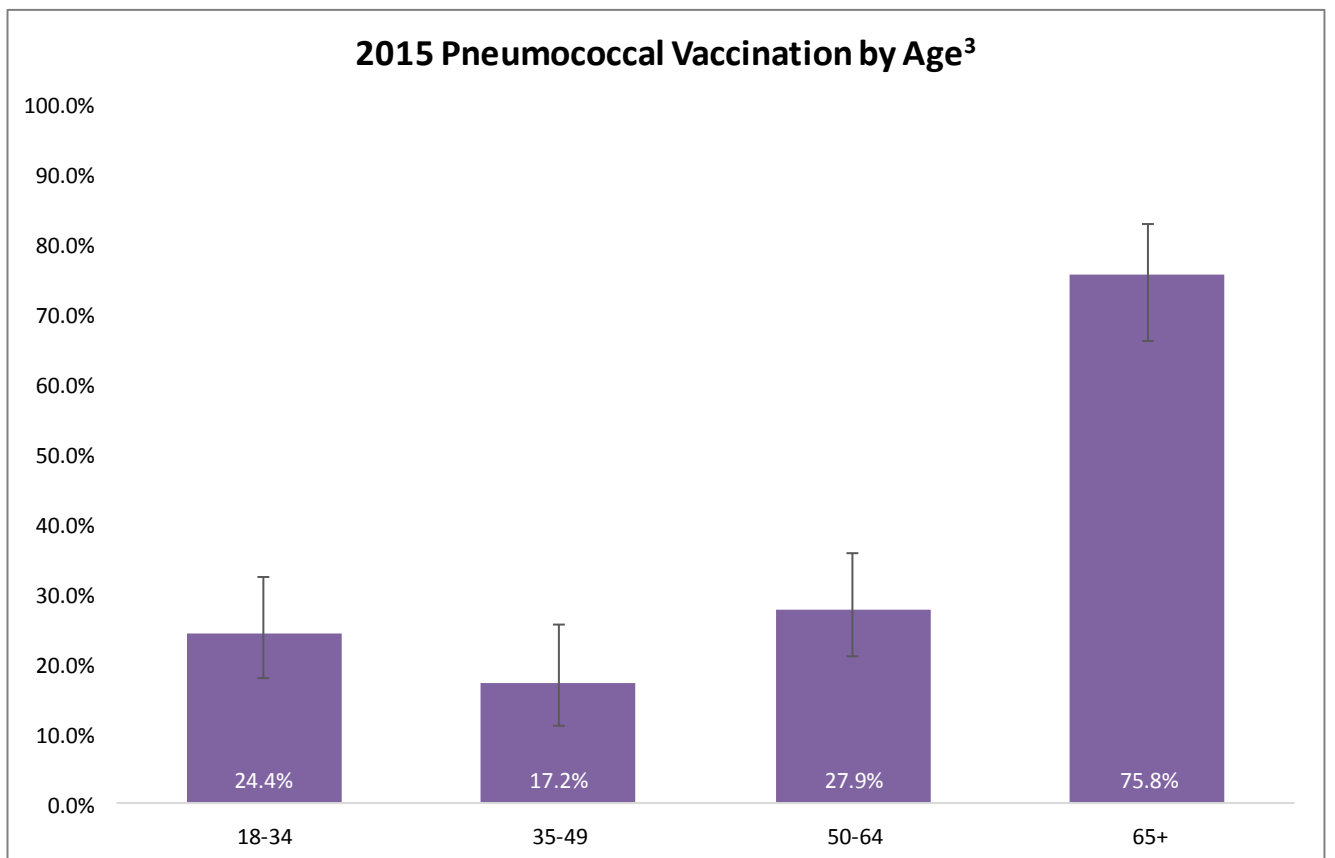
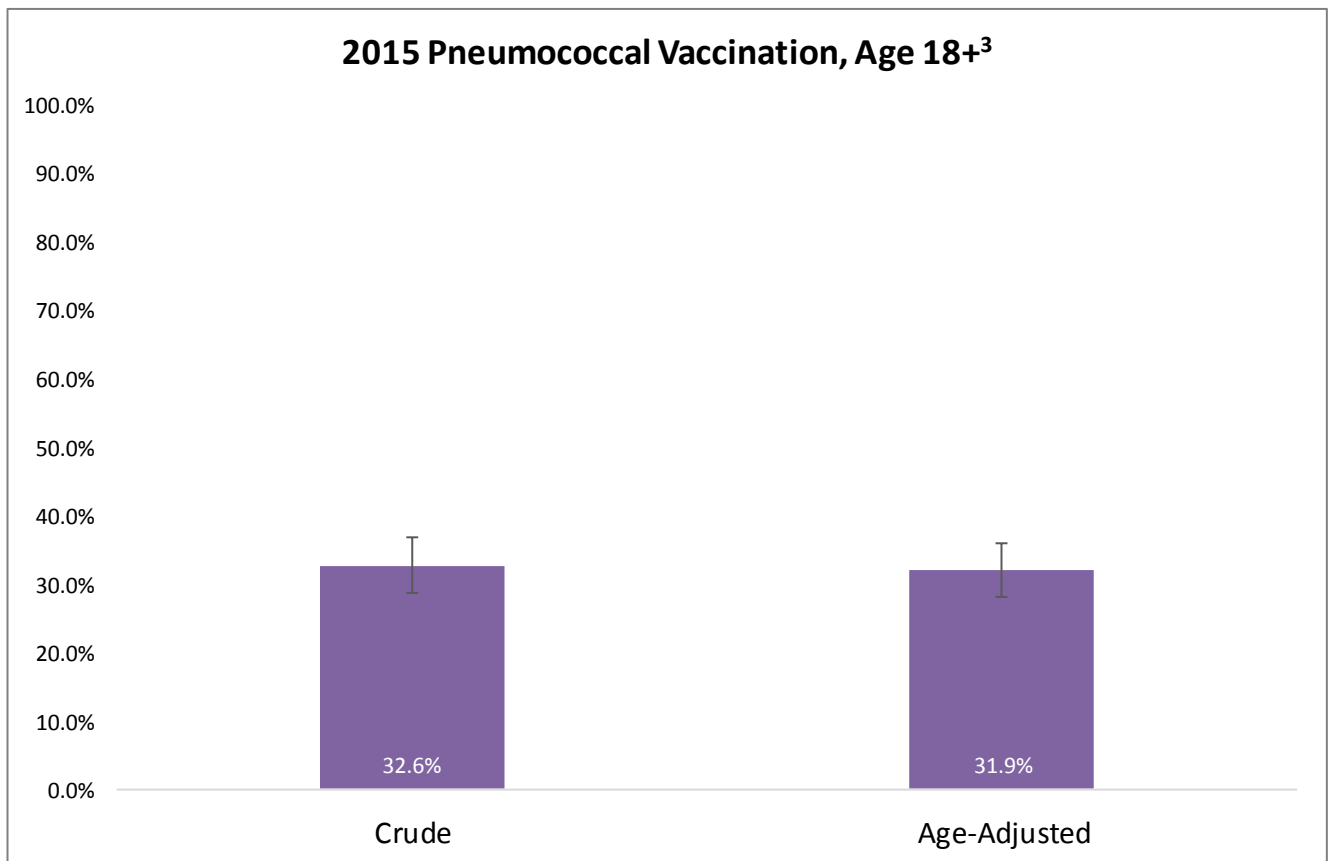
Adequately Immunized by School District 2015 <sup>2</sup>						
	Morgan		Ogden		Weber	
	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions
<b>Kindergarten School Entry</b>	93.1%	4.9%	87.7%	1.4%	94.9%	2.5%
<b>Second-Dose Measles (K-12)</b>	96.2%	3.6%	98.1%	1.1%	97.9%	2.0%
<b>7th Grade Entry</b>	96.6%	3.4%	96.0%	1.5%	93.7%	3.0%

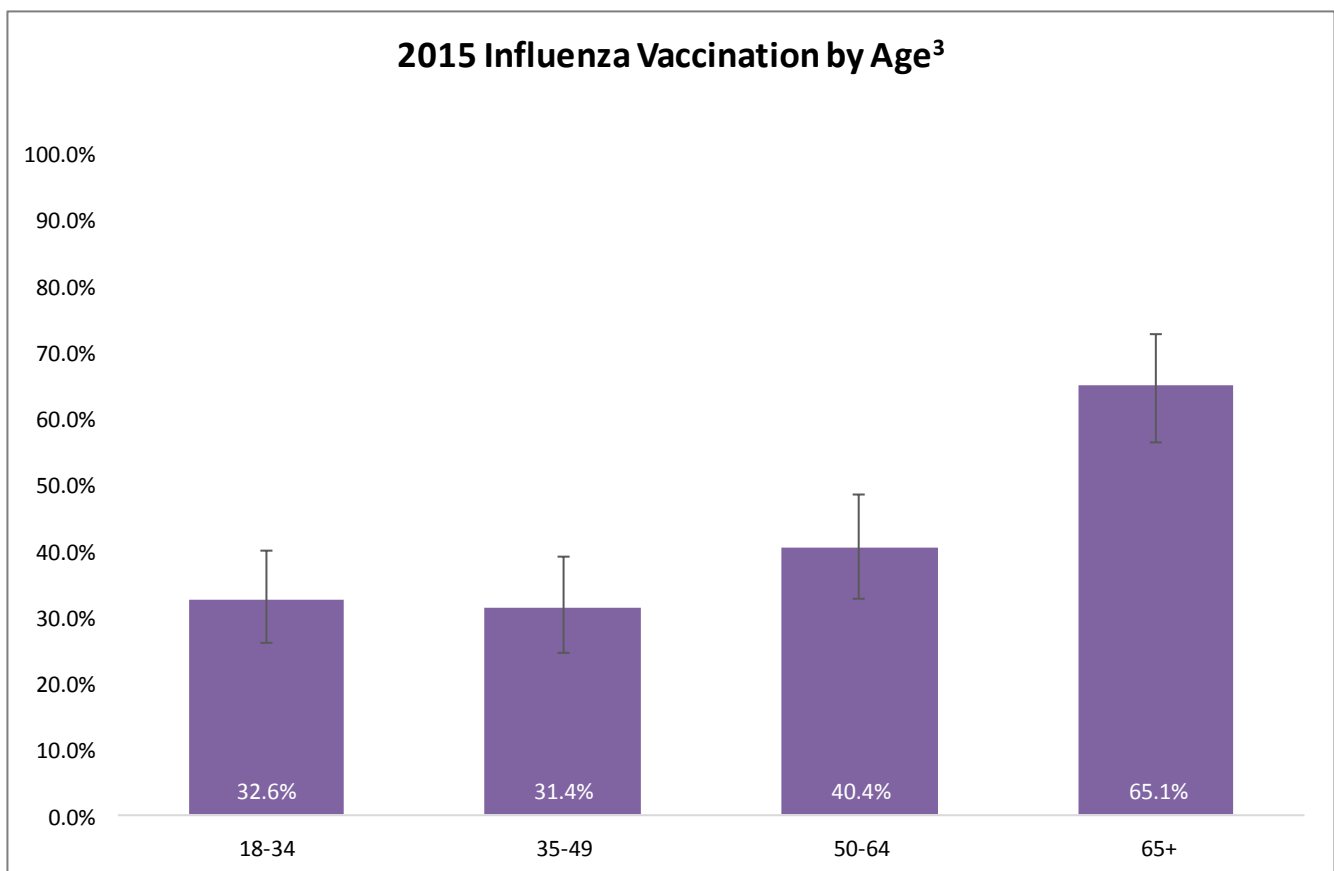
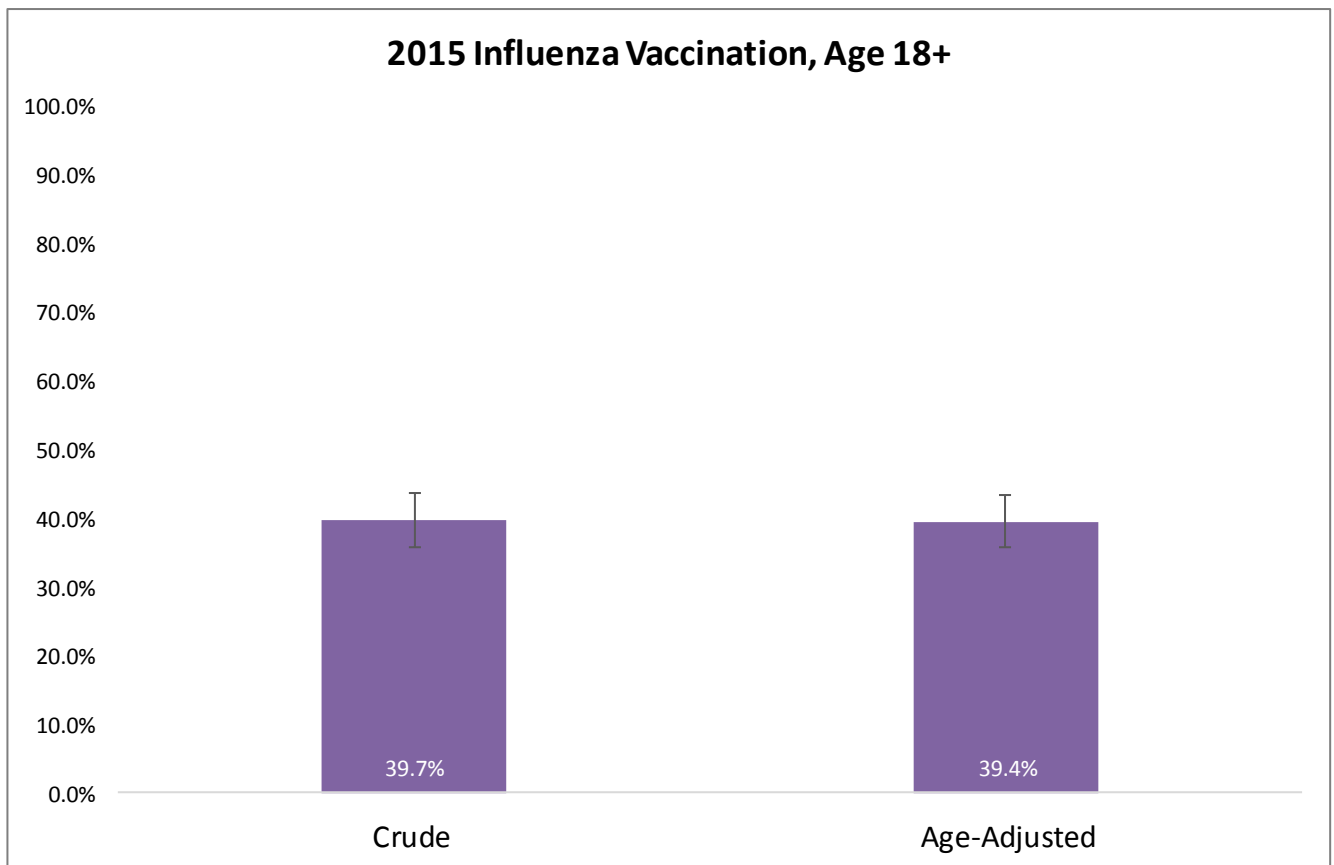
Immunized for Child Care 2015 <sup>2</sup>		
	Adequately Immunized	Total Exemptions
<b>Licensed Child Care Facilities</b>	91.4%	1.4%
<b>Head Start Centers</b>	95.4%	1.1%



<b>≥19 Years of Age<sup>6</sup></b>		
Adults in USIIS born on or before 07/1/1997		
<b>Total</b>	162,092	
	<b>Total</b>	<b>Percent</b>
≥1 dose Influenza last season*	36,802	22.7%
≥1 dose influenza in lifetime	83,449	51.5%
≥1 TDaP	66,345	40.9%
≥1 Varicella	11,471	7.1%
≥1 HPV	8,744	5.4%
≥1 Zoster	11,946	7.4%
≥1 MMR	48,070	29.7%
≥1 PCV13	10,829	6.7%
≥1PPSV23	16,912	10.4%
≥1 Hep A	38,809	23.9%
≥1 Hep B	52,899	32.6%
≥1 Meningococcal	16,346	10.1%
≥1 HIB	22,661	14.0%

\*Last flu season between 07/01/2015 and 6/30/2016





## **Appendix A: *AFIX (Assessment, Feedback, Incentive, eXchange)***

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The Utah Immunization Program (UIP) provides quality feedback to providers regarding its yearly immunization rate assessments through a program called AFIX (Assessment, Feedback, Incentive, eXchange).

Our goals for 2016 have been to focus on high volume providers as well as providers who have not previously received an AFIX visit. HPV education has been a focus in most clinics with all offices receiving an HPV informational packet and parent educational tear off sheets. Provider Relations staff review in detail the clinic rates, including HPV rates. Providers are given suggestions on how to improve and ultimately decide what measures they feel their clinic would reasonably be able to implement.

As of September 23, 2016, 85 AFIX visits were conducted. Visits included an in-depth feedback session along with a questionnaire which guides to making decisions on proven quality improvement strategies. Feedback sessions provide an opportunity for office staff to discuss strategies for improving immunization coverage rates UIP staff. UIP staff is available to provide suggestions and data, but ultimately, each clinic must decide what activities are appropriate to increase the vaccination coverage levels in their clinic.

According to the questionnaire data:

Top childhood strategies not currently being implemented:

- Inactivating patients in the IIS who are no longer seen by the practice
- Reminder recall system for pediatric patients
- Routinely measuring clinic immunization coverage levels and sharing results with staff

Top childhood strategies selected for implementation:

- Inactivating patients in the IIS who are no longer active patients
- Implementing some sort of reminder recall for pediatric patients (some specific to the DTaP 4)
- Using the IIS forecast to determine immunizations at every visit

Top adolescent strategies not currently being implemented:

- Inactivating adolescents in the IIS who are no longer seen by the practice
- Reminder recall system for adolescents (including a reminder system specifically for HPV doses 2 and 3)
- System in place to schedule wellness visits for patients at 11-12 years of age

Top adolescent strategies selected for implementation:

- Inactivating patients in the IIS who are no longer seen by the practice
- Reminder recall system in place for adolescents
- Put in place a system to actively schedule 11-12 year old wellness visits

Follow-up will take place within six months of the visit. Rates are re-run and compared to initial visit at the follow up visit. If there has been incomplete implementation of goals, a subsequent follow up will take place within an appropriately scheduled time.



## IMMUNIZATION REPORT FOR LONG-TERM CARE FACILITIES

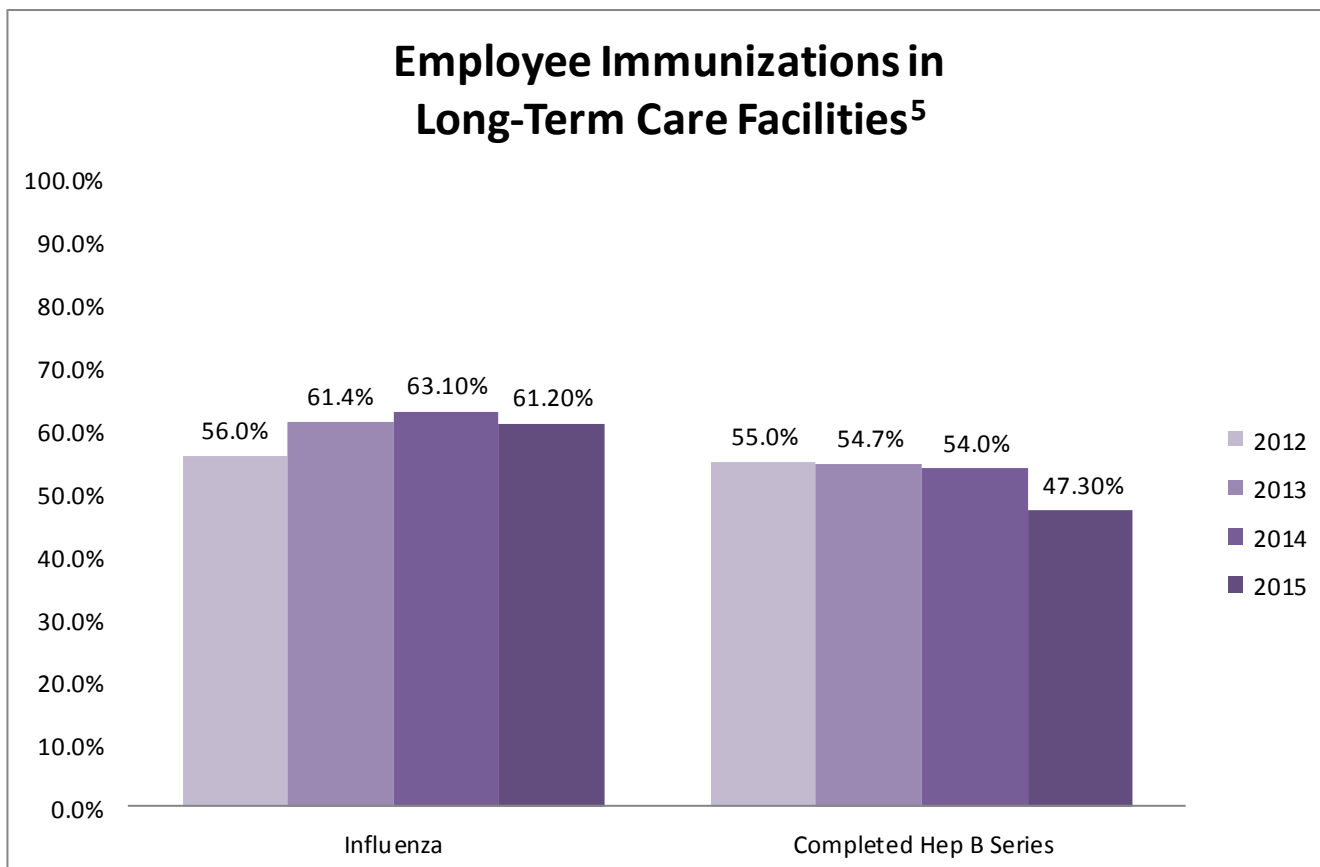
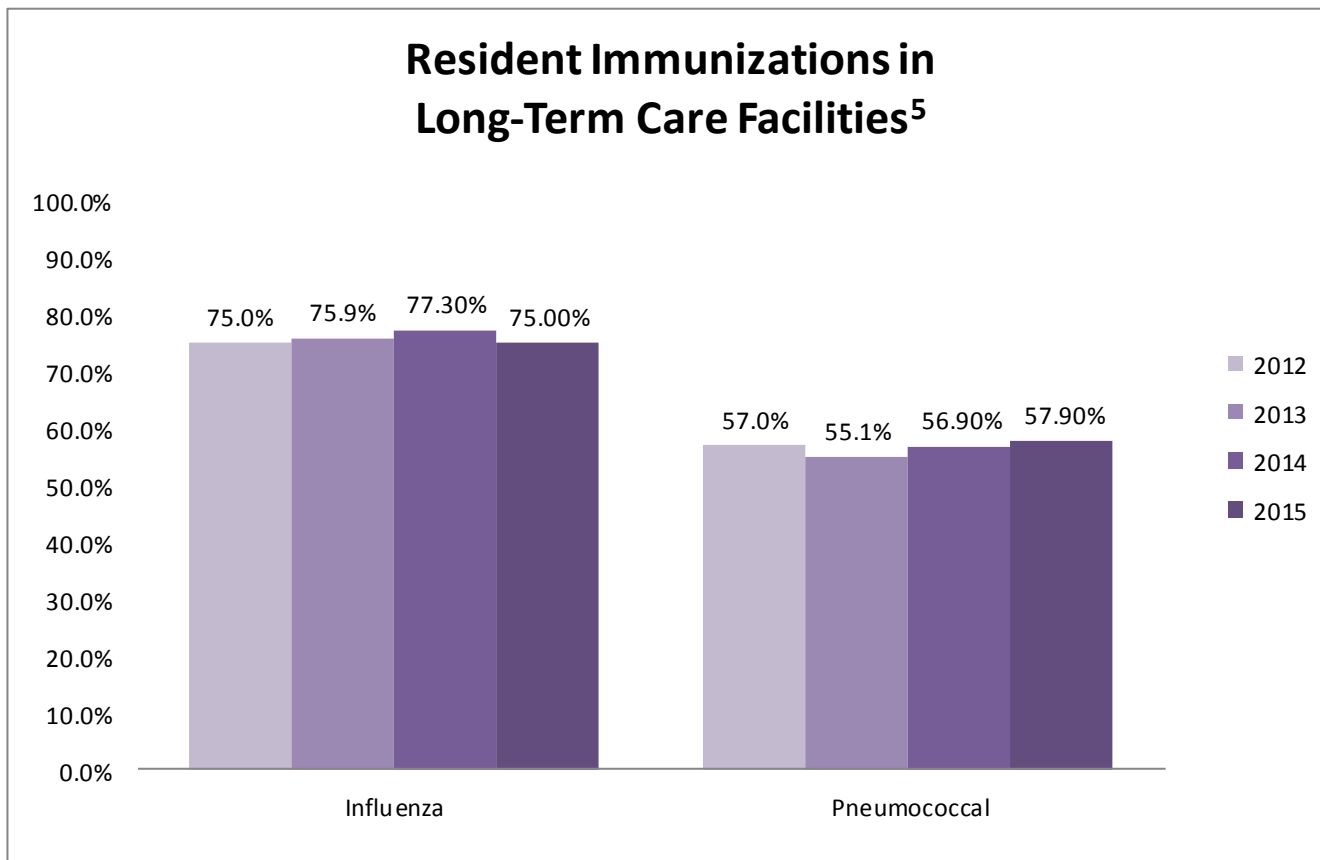
Long-term care facilities are required to report the influenza and pneumococcal immunization status of patients and the influenza and hepatitis B immunization status of employees to the Utah Immunization Program. Completion of the annual report is necessary to prevent sanctioning of a facility's license.

The report includes persons who are residents or employees of a facility between October 1 and December 31 of the survey year. The survey is completed online no later than January 31 of the following year. Facilities reporting includes hospitals (swing beds and transitional care beds), nursing care facilities, small healthcare facilities, and type I and type II assisted living facilities. All 334 of the care facilities now operating reported for 2015

The portion of the survey reported here is as follows:

- *Influenza (flu) immunizations*: given during the reporting time period for residents and employees;
- *Pneumococcal immunizations*: given at any time for residents only; and
- *Hepatitis B immunizations*: given at any time to an employee having direct patient contact.

State of Utah: 334 Facilities			
Residents and Employees Immunized in Long-term Care Facilities			
Residents	Total	Flu	Pneumococcal
	18,925	75.0%	57.9%
All Employees	Total	Flu	Hepatitis B
	21,101	61.2%	N/A
Employees with Direct Patient Care	16,188	N/A	47.3%



### Bear River Service Area: 20 Facilities

Residents	Number	Flu	Pneumococcal
	890	74.9%	54.3%
All Employees	Number	Flu	Hepatitis B
	984	50.0%	N/A
Employees with Direct Patient Care	841	N/A	52.9%

### Central Service Area: 21 Facilities

Residents	Number	Flu	Pneumococcal
	572	82.7%	73.3%
All Employees	Number	Flu	Hepatitis B
	1,258	86.9%	N/A
Employees with Direct Patient Care	969	N/A	81.4%

### Davis County: 29 Facilities

Residents	Number	Flu	Pneumococcal
	1,742	80.1%	58.5%
All Employees	Number	Flu	Hepatitis B
	1,949	65.9%	N/A
Employees with Direct Patient Care	1,461	N/A	47.4%

### Salt Lake County: 97 Facilities

Residents	Number	Flu	Pneumococcal
	7,186	71.2%	55.7%
All Employees	Number	Flu	Hepatitis B
	6,421	53.7%	N/A
Employees with Direct Patient Care	5,012	N/A	32.3%

### San Juan Service Area: 0 Facilities

Residents	Number	Flu	Pneumococcal
	N/A	N/A	N/A
All Employees	Number	Flu	Hepatitis B
	N/A	N/A	N/A
Employees with Direct Patient Care	N/A	N/A	N/A

Southeastern Service Area: 9 Facilities			
Residents	<b>Number</b>	<b>Flu</b>	<b>Pneumococcal</b>
	315	67.9%	53.3%
All Employees	<b>Number</b>	<b>Flu</b>	<b>Hepatitis B</b>
	914	87.1%	N/A
Employees with Direct	402	N/A	60.9%

Southwest Service Area: 42 Facilities			
Residents	<b>Number</b>	<b>Flu</b>	<b>Pneumococcal</b>
	2,037	73.2%	60.0%
All Employees	<b>Number</b>	<b>Flu</b>	<b>Hepatitis B</b>
	2,298	67.9%	N/A
Employees with Direct Patient Care	1,666	N/A	52.1%

Summit County: 2 Facilities			
Residents	<b>Number</b>	<b>Flu</b>	<b>Pneumococcal</b>
	53	96.2%	50.9%
All Employees	<b>Number</b>	<b>Flu</b>	<b>Hepatitis B</b>
	56	41.1%	N/A
Employees with Direct	44	N/A	31.8%

Tooele County: 4 Facilities			
Residents	<b>Number</b>	<b>Flu</b>	<b>Pneumococcal</b>
	133	75.9%	48.9%
All Employees	<b>Number</b>	<b>Flu</b>	<b>Hepatitis B</b>
	513	66.9%	N/A
Employees with Direct	373	N/A	67.0%

TriCounty Service Area: 7 Facilities			
Residents	<b>Number</b>	<b>Flu</b>	<b>Pneumococcal</b>
	282	71.3%	64.9%
All Employees	<b>Number</b>	<b>Flu</b>	<b>Hepatitis B</b>
	570	73.0%	N/A
Employees with Direct	478	N/A	86.6%

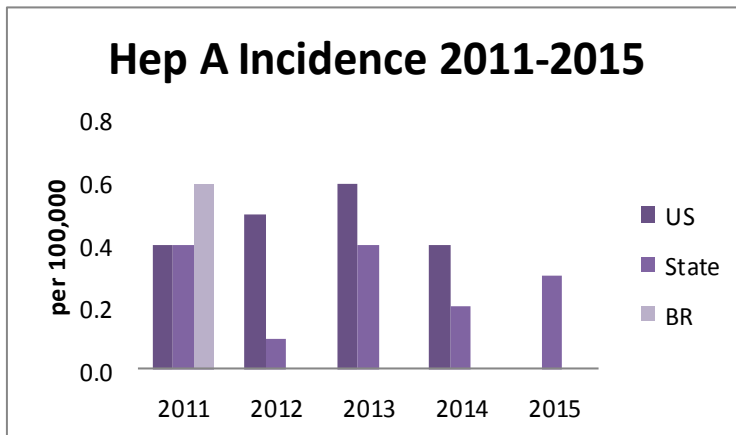
Utah County: 72 Facilities			
Residents	<b>Number</b>	<b>Flu</b>	<b>Pneumococcal</b>
	3,286	75.4%	57.0%
All Employees	<b>Number</b>	<b>Flu</b>	<b>Hepatitis B</b>
	4,037	54.8%	N/A
Employees with Direct	3,206	N/A	48.8%

Wasatch County: 4 Facilities			
Residents	<b>Number</b>	<b>Flu</b>	<b>Pneumococcal</b>
	160	88.8%	43.8%
All Employees	<b>Number</b>	<b>Flu</b>	<b>Hepatitis B</b>
	256	77.3%	N/A
Employees with Direct	238	N/A	29.4%

Weber-Morgan Service Area: 27 Facilities			
Residents	<b>Number</b>	<b>Flu</b>	<b>Pneumococcal</b>
	1,838	82.4%	63.9%
All Employees	<b>Number</b>	<b>Flu</b>	<b>Hepatitis B</b>
	1,854	57.4%	N/A
Employees with Direct	1,498	N/A	45.5%

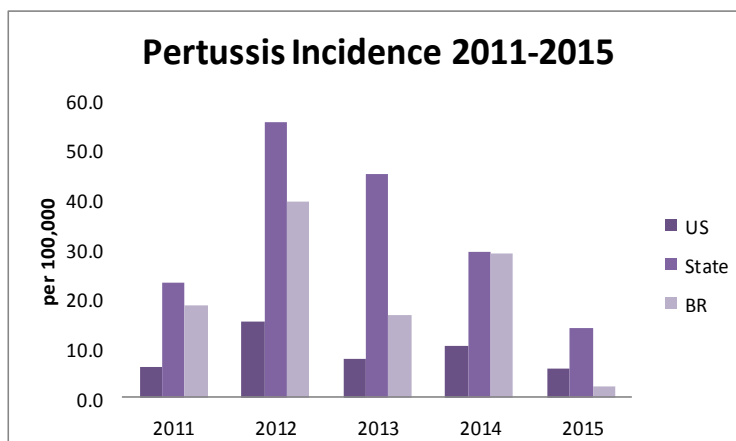
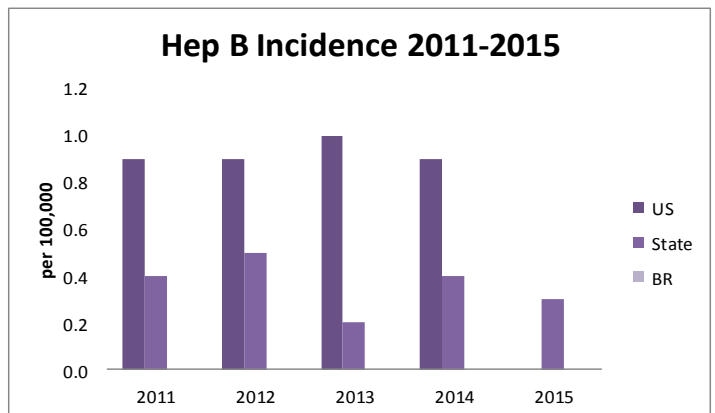
**Bear River Service Area**

Hepatitis A, Hepatitis B, and Pertussis are preventable through immunization. Trends in vaccine-preventable diseases are tracked with the intent that the data can be helpful in developing collaborative immunization campaign efforts. The following data were provided by the Bureau of Epidemiology, Utah Department of Health, for statewide and local health districts. National data were obtained from the CDC. The 2015 U.S. rates were estimated from CDC provisional data. U.S. data from 2015 should be viewed as only an estimate.



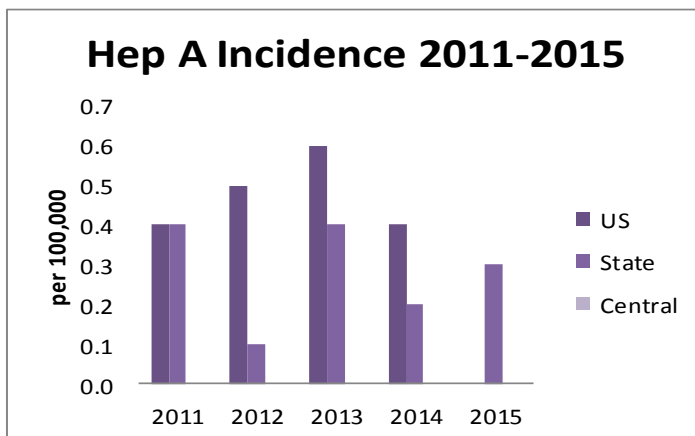
Hepatitis A			
Year	U.S.	Utah	BR
2011	0.4	0.3	0.6
2012	0.5	0.1	0.0
2013	0.6	0.4	0.0
2014	0.4	0.2	0.0
2015	N/A	0.3	0.0

Hepatitis B			
Year	U.S.	Utah	BR
2011	0.9	0.4	0.0
2012	0.9	0.5	0.0
2013	1.0	0.2	0.0
2014	0.9	0.4	0.0
2015	N/A	0.3	0.0



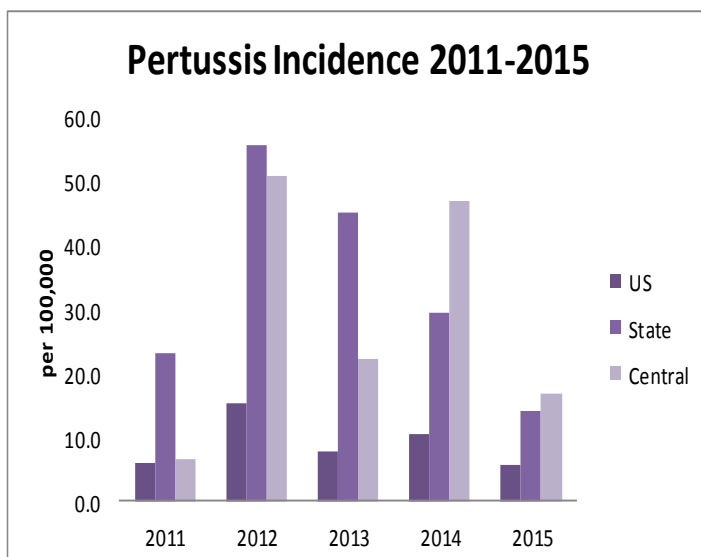
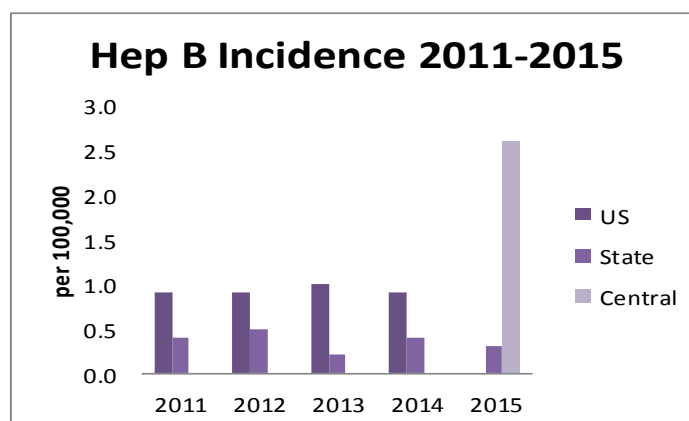
Pertussis			
Year	U.S.	Utah	BR
2011	6.0	23.2	18.5
2012	15.4	55.7	39.8
2013	7.7	45.1	16.5
2014	10.4	29.6	29.0
2015	5.7	14.0	2.3

Central Utah Service Area



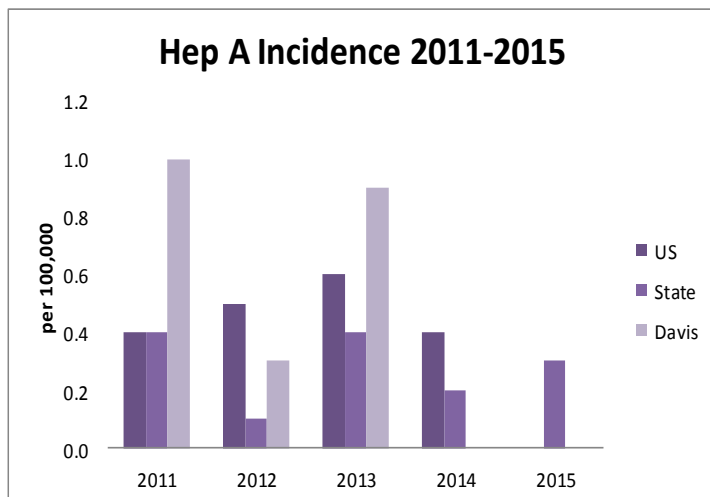
Hepatitis A			
Year	U.S.	Utah	Central
2011	0.4	0.3	0.0
2012	0.5	0.1	0.0
2013	0.6	0.4	0.0
2014	0.4	0.2	0.0
2015	N/A	0.3	0.0

Hepatitis B			
Year	U.S.	Utah	Central
2011	0.9	0.4	0.0
2012	0.9	0.5	0.0
2013	1.0	0.2	0.0
2014	0.9	0.4	0.0
2015	N/A	0.3	2.6



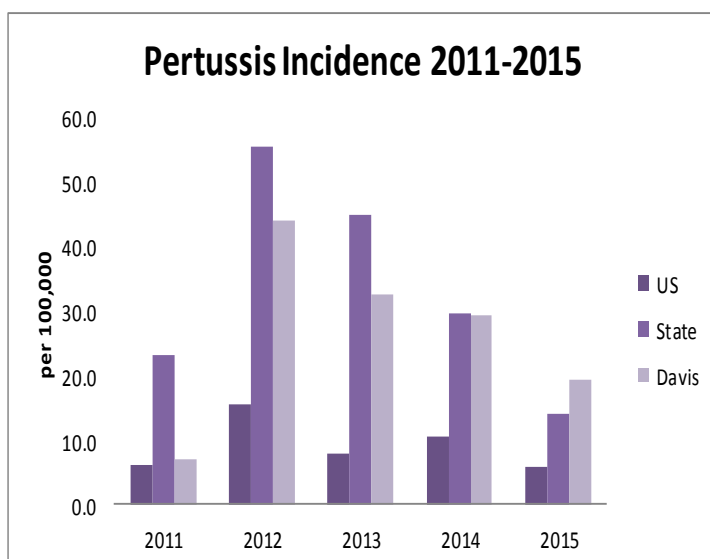
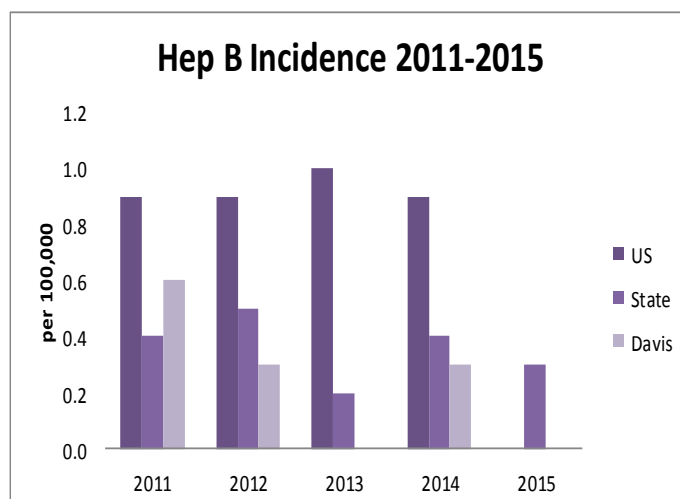
Pertussis			
Year	U.S.	Utah	Central
2011	6.0	23.2	6.5
2012	15.4	55.7	51.0
2013	7.7	45.1	22.3
2014	10.4	29.6	47.0
2015	5.7	14.0	16.8

Davis County



Hepatitis A			
Year	U.S.	Utah	Davis
2011	0.4	0.3	1.0
2012	0.5	0.1	0.3
2013	0.6	0.4	0.9
2014	0.4	0.2	0.0
2015	N/A	0.3	0.0

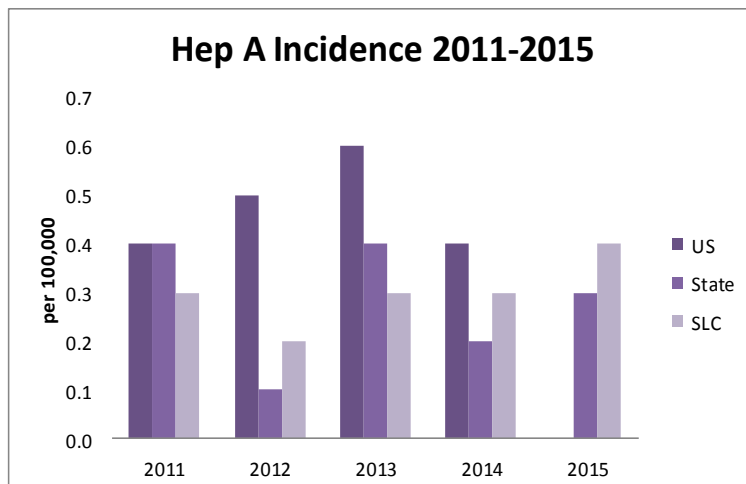
Hepatitis B			
Year	U.S.	Utah	Davis
2011	0.9	0.4	0.6
2012	0.9	0.5	0.3
2013	1.0	0.2	0.0
2014	0.9	0.4	0.3
2015	N/A	0.3	0.0



Pertussis			
Year	U.S.	Utah	Davis
2011	6.0	23.2	7.1
2012	15.4	55.7	44.0
2013	7.7	45.1	32.6
2014	10.4	29.6	29.4
2015	5.7	14.0	19.3

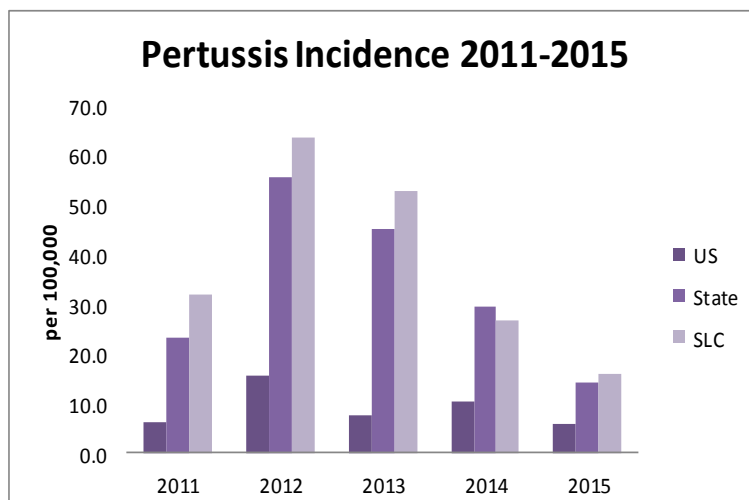
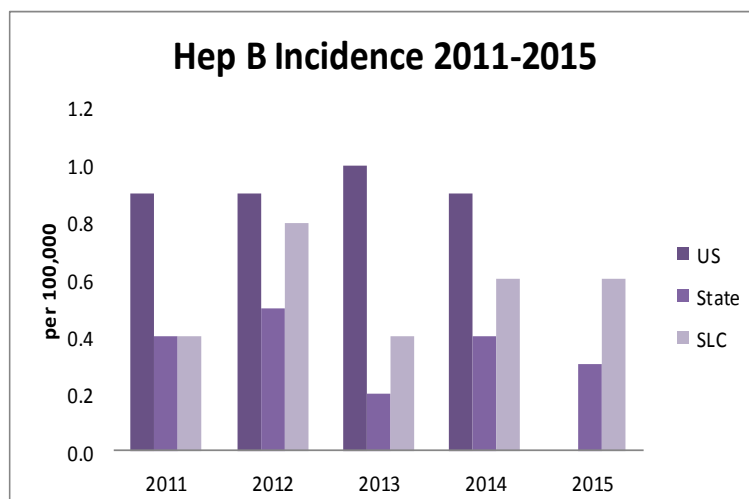


Salt Lake County



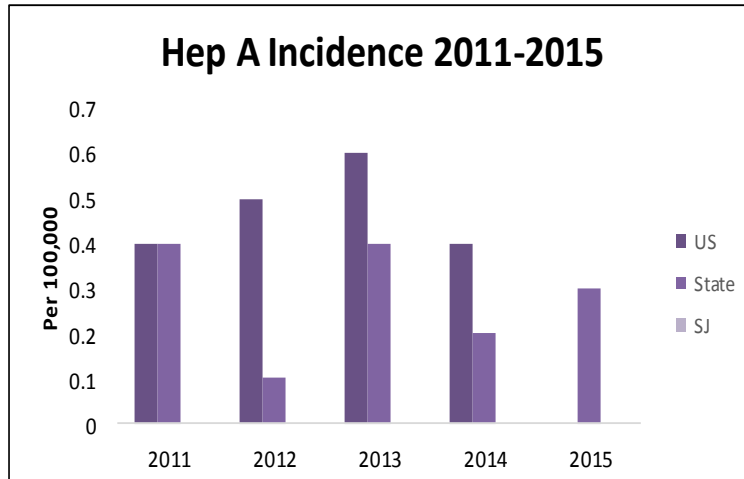
Hepatitis A			
Year	U.S.	Utah	SLC
2011	0.4	0.3	0.3
2012	0.5	0.1	0.2
2013	0.6	0.4	0.3
2014	0.4	0.2	0.3
2015	N/A	0.3	0.4

Hepatitis B			
Year	U.S.	Utah	SLC
2011	0.9	0.4	0.4
2012	0.9	0.5	0.8
2013	1.0	0.2	0.4
2014	0.9	0.4	0.6
2015	N/A	0.3	0.6



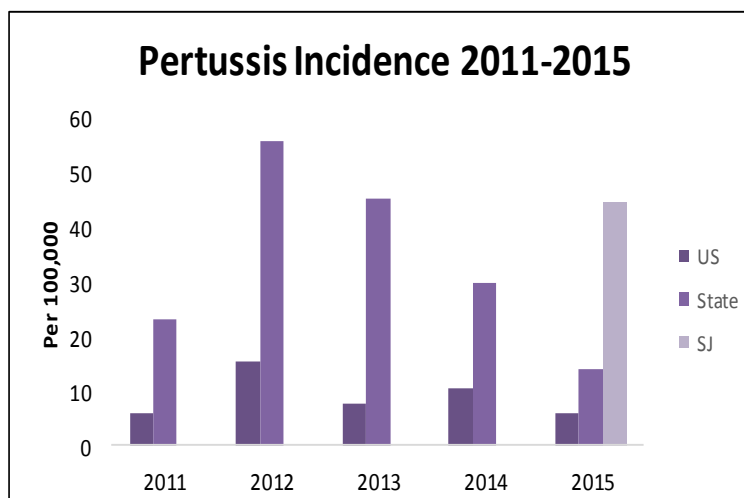
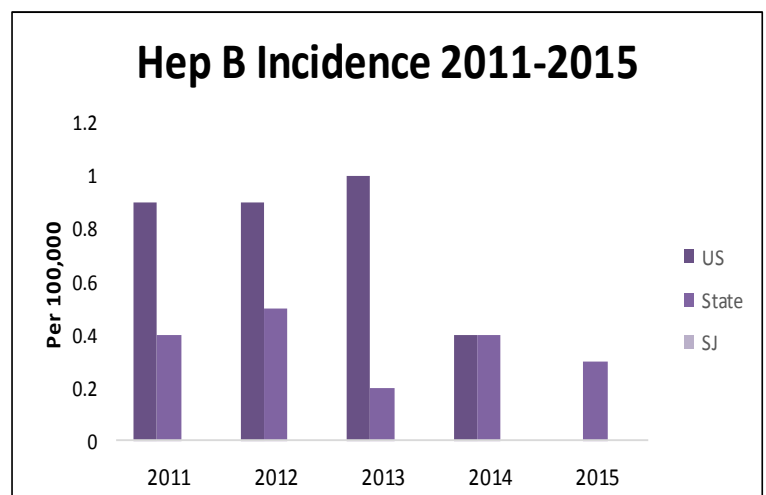
Pertussis			
Year	U.S.	Utah	SLC
2011	6.0	23.2	31.9
2012	15.4	55.7	63.9
2013	7.7	45.1	52.9
2014	10.4	29.6	26.6
2015	5.7	14.0	16.0

San Juan County



Hepatitis A			
Year	U.S.	Utah	SJ
2011	0.4	0.3	*
2012	0.5	0.1	*
2013	0.6	0.4	*
2014	0.4	0.2	*
2015	N/A	0.3	0.0

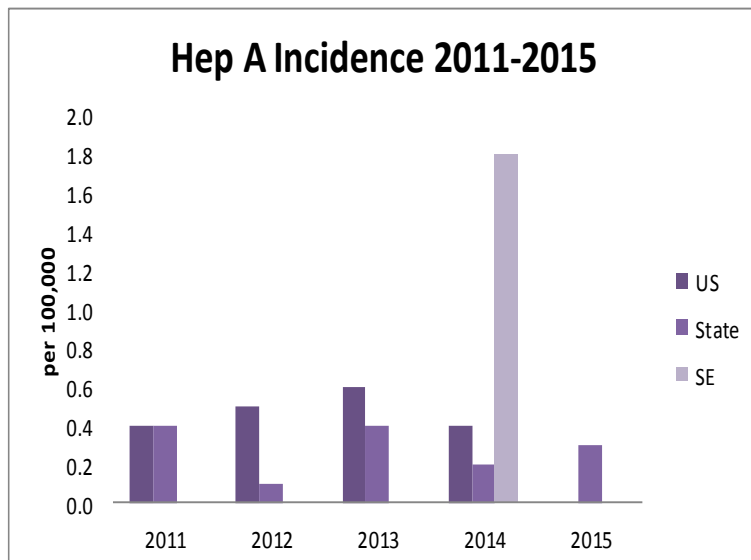
Hepatitis B			
Year	U.S.	Utah	SJ
2011	0.9	0.4	*
2012	0.9	0.5	*
2013	1.0	0.2	*
2014	0.9	0.4	*
2015	N/A	0.3	0.0



Pertussis			
Year	U.S.	Utah	SJ
2011	6.0	23.2	*
2012	15.4	55.7	*
2013	7.7	45.1	*
2014	10.4	29.6	*
2015	5.7	14.0	44.4

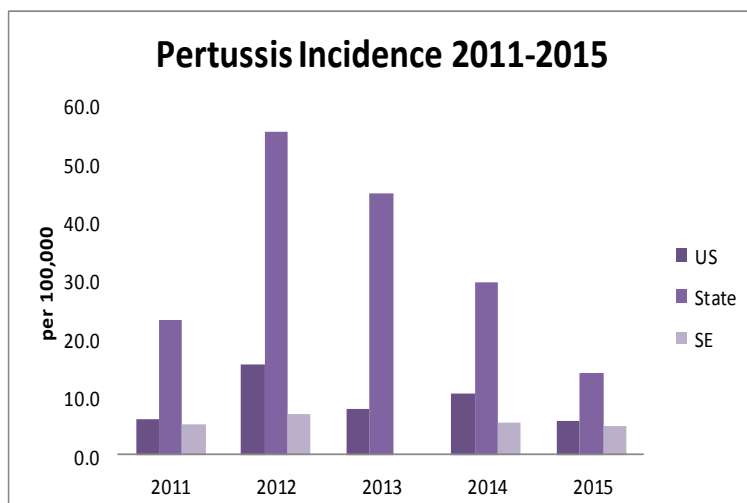
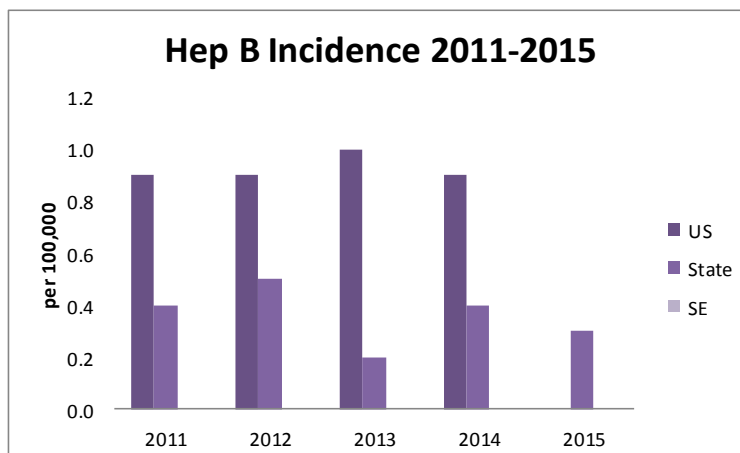
\* 2011-2014 data combined with Southeast

Southeastern Service Area



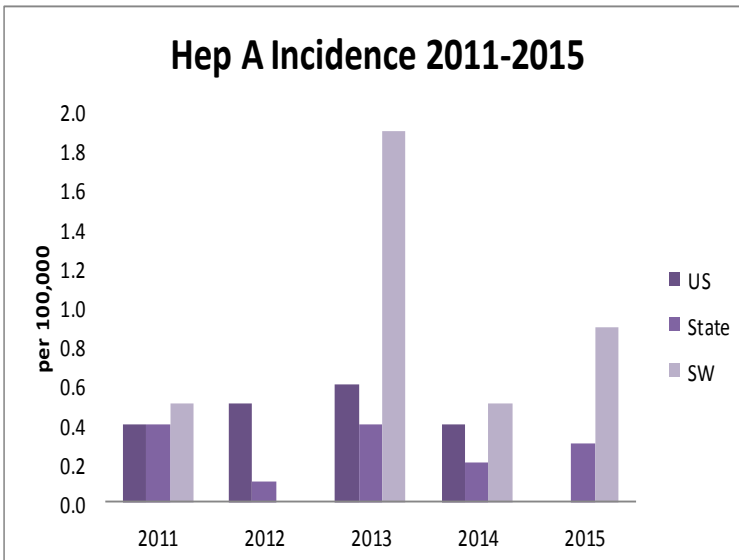
Hepatitis A			
Year	U.S.	Utah	SE
2011	0.4	0.3	0.0
2012	0.5	0.1	0.0
2013	0.6	0.4	0.0
2014	0.4	0.2	1.8
2015	N/A	0.3	0.0

Hepatitis B			
Year	U.S.	Utah	SE
2011	0.9	0.4	0.0
2012	0.9	0.5	0.0
2013	1.0	0.2	0.0
2014	0.9	0.4	0.0
2015	N/A	0.3	0.0



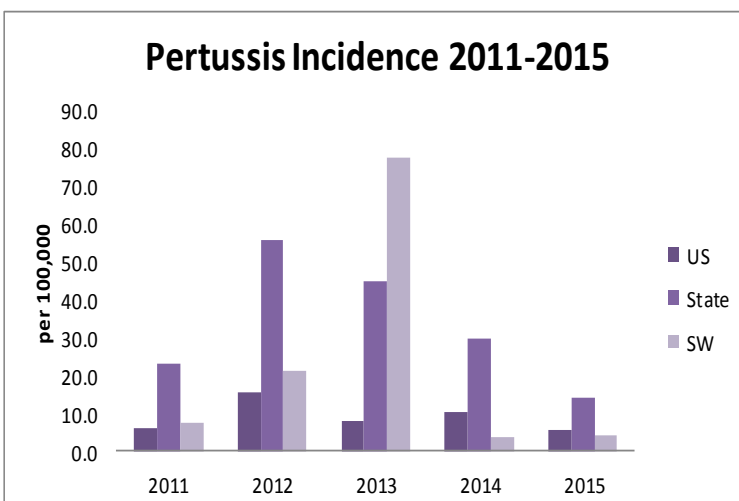
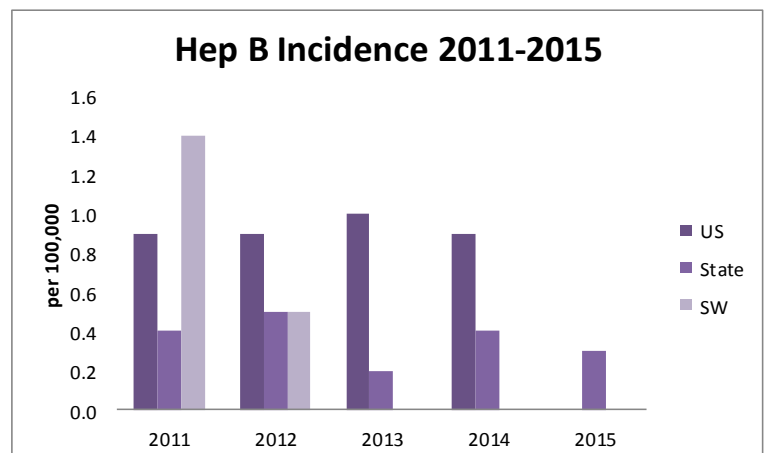
Pertussis			
Year	U.S.	Utah	SE
2011	6.0	23.2	5.3
2012	15.4	55.7	7.0
2013	7.7	45.1	0.0
2014	10.4	29.6	5.4
2015	5.7	14.0	5.0

Southwest Service Area



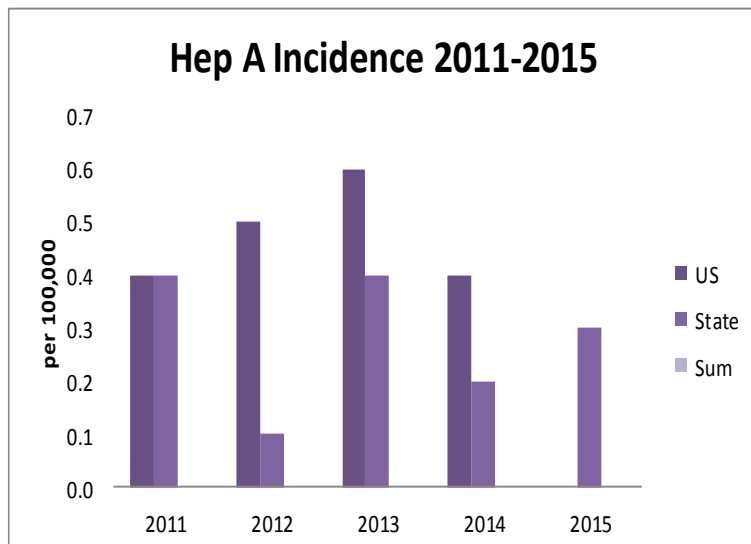
Hepatitis A			
Year	U.S.	Utah	SW
2011	0.4	0.3	0.5
2012	0.5	0.1	0.0
2013	0.6	0.4	1.9
2014	0.4	0.2	0.5
2015	N/A	0.3	0.9

Hepatitis B			
Year	U.S.	Utah	SW
2011	0.9	0.4	1.4
2012	0.9	0.5	0.5
2013	1.0	0.2	0.0
2014	0.9	0.4	0.0
2015	N/A	0.3	0.0



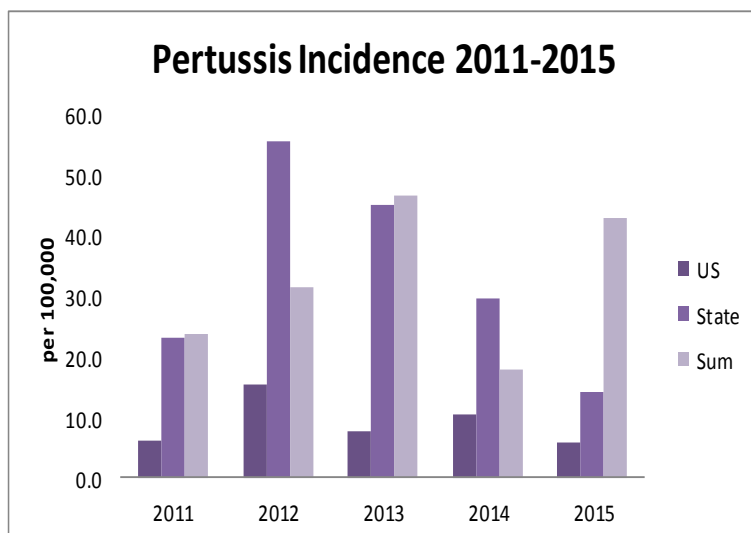
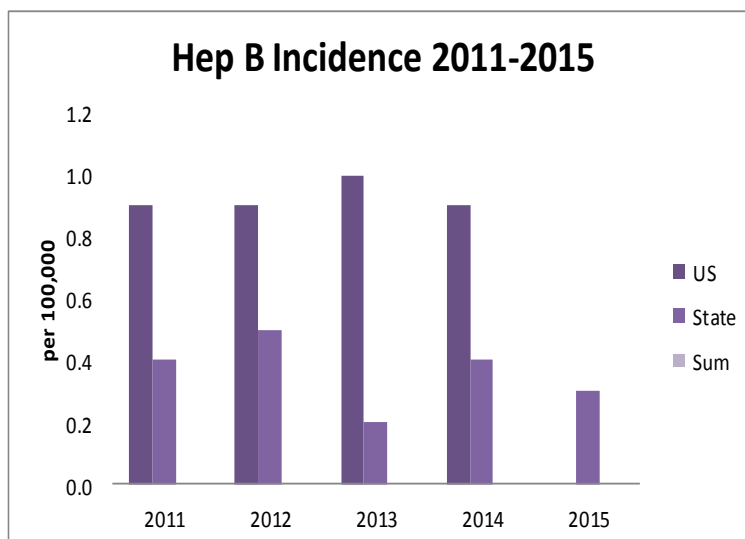
Pertussis			
Year	U.S.	Utah	SW
2011	6.0	23.2	7.2
2012	15.4	55.7	21.3
2013	7.7	45.1	77.8
2014	10.4	29.6	3.7
2015	5.7	14.0	4.1

Summit County



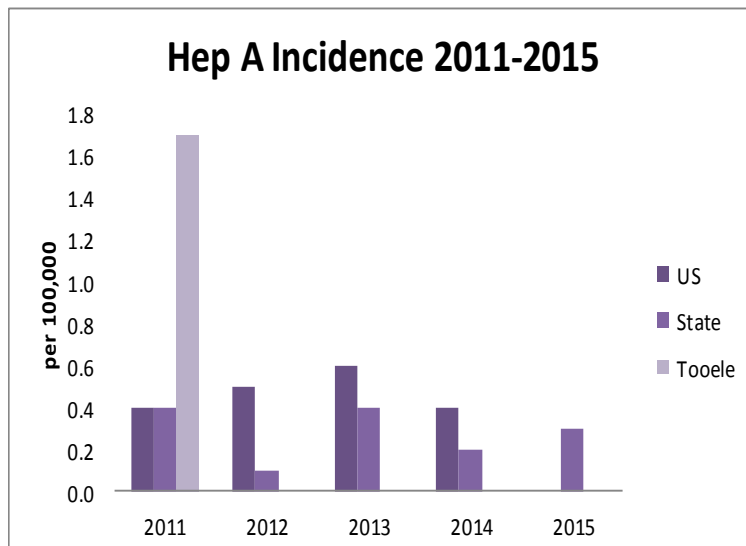
Hepatitis A			
Year	U.S.	Utah	Summit
2011	0.4	0.3	0.0
2012	0.5	0.1	0.0
2013	0.6	0.4	0.0
2014	0.4	0.2	0.0
2015	N/A	0.3	0.0

Hepatitis B			
Year	U.S.	Utah	Summit
2011	0.9	0.4	0.0
2012	0.9	0.5	0.0
2013	1.0	0.2	0.0
2014	0.9	0.4	0.0
2015	N/A	0.3	0.0



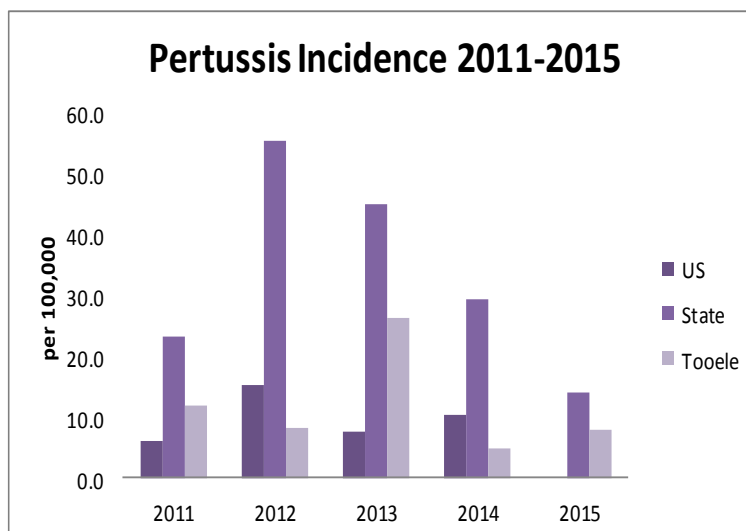
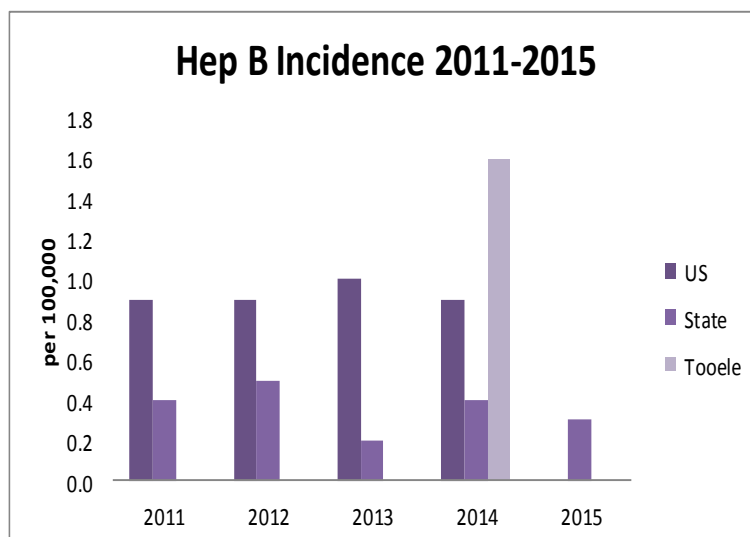
Pertussis			
Year	U.S.	Utah	Summit
2011	6.0	23.2	23.9
2012	15.4	55.7	31.5
2013	7.7	45.1	46.8
2014	10.4	29.6	17.9
2015	5.7	14.0	42.9

Tooele County



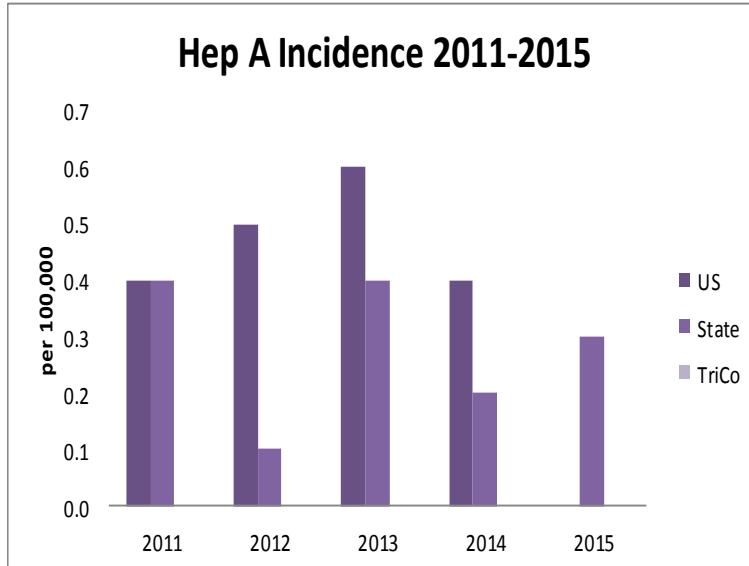
Hepatitis A			
Year	U.S.	Utah	Tooele
2011	0.4	0.3	1.7
2012	0.5	0.1	0.0
2013	0.6	0.4	0.0
2014	0.4	0.2	0.0
2015	N/A	0.3	0.0

Hepatitis B			
Year	U.S.	Utah	Tooele
2011	0.9	0.4	0.0
2012	0.9	0.5	0.0
2013	1.0	0.2	0.0
2014	0.9	0.4	1.6
2015	N/A	0.3	0.0



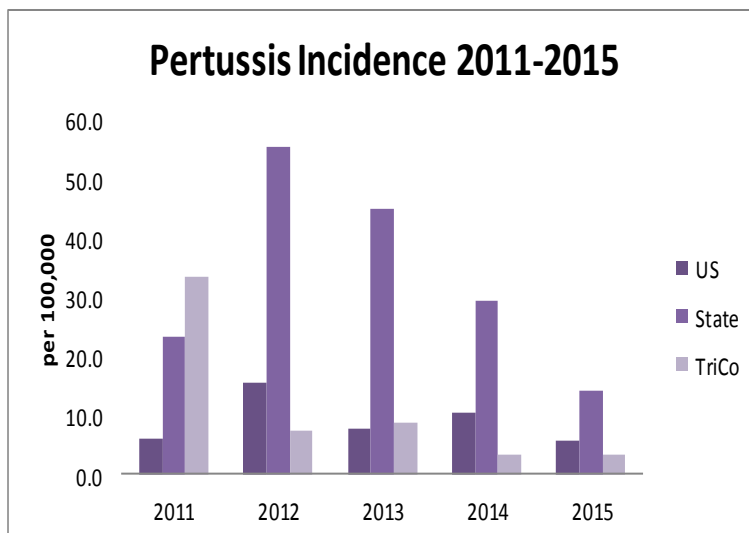
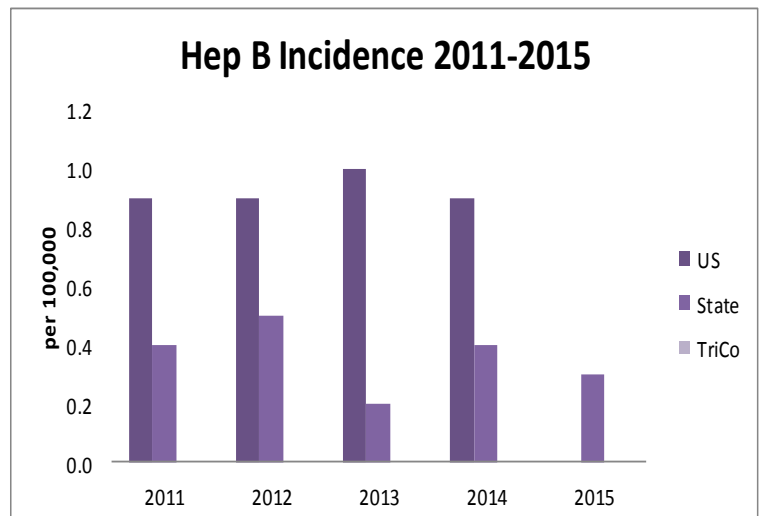
Pertussis			
Year	U.S.	Utah	Tooele
2011	6.0	23.2	11.8
2012	15.4	55.7	8.3
2013	7.7	45.1	26.3
2014	10.4	29.6	4.9
2015	5.7	14.0	7.9

TriCounty Service Area



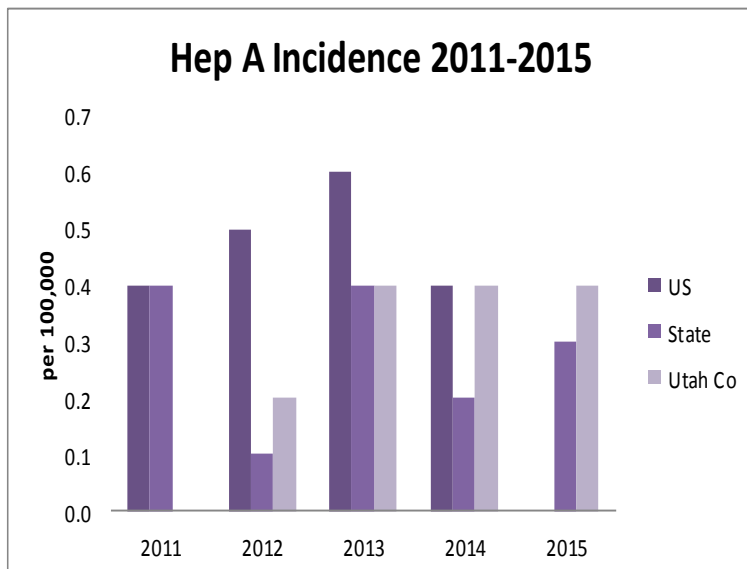
Hepatitis A			
Year	U.S.	Utah	TriCo
2011	0.4	0.3	0.0
2012	0.5	0.1	0.0
2013	0.6	0.4	0.0
2014	0.4	0.2	0.0
2015	N/A	0.3	0.0

Hepatitis B			
Year	U.S.	Utah	TriCo
2011	0.9	0.4	0.0
2012	0.9	0.5	0.0
2013	1.0	0.2	0.0
2014	0.9	0.4	0.0
2015	N/A	0.3	0.0



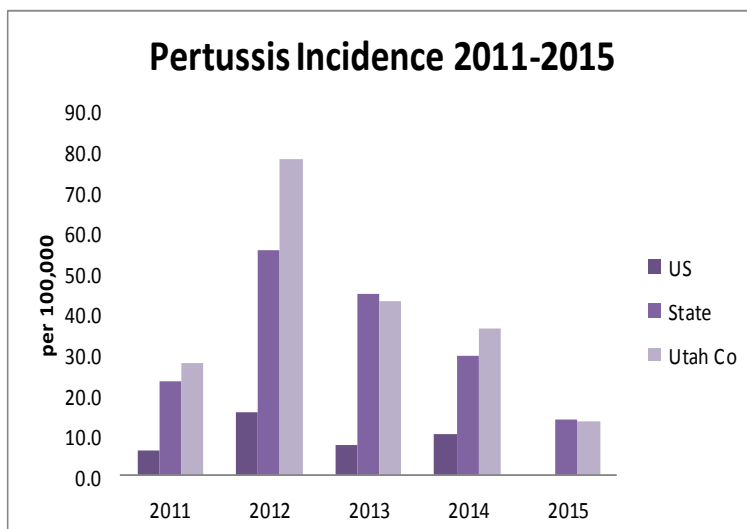
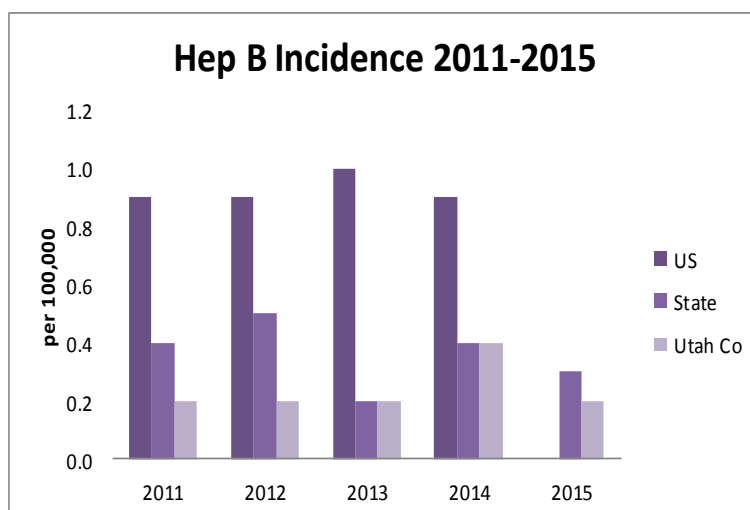
Pertussis			
Year	U.S.	Utah	TriCo
2011	6.0	23.2	33.6
2012	15.4	55.7	7.2
2013	7.7	45.1	8.8
2014	10.4	29.6	3.4
2015	5.7	14.0	3.3

Utah County



Hepatitis A			
Year	U.S.	Utah	Utah Co
2011	0.4	0.3	0.0
2012	0.5	0.1	0.2
2013	0.6	0.4	0.4
2014	0.4	0.2	0.4
2015	N/A	0.3	0.4

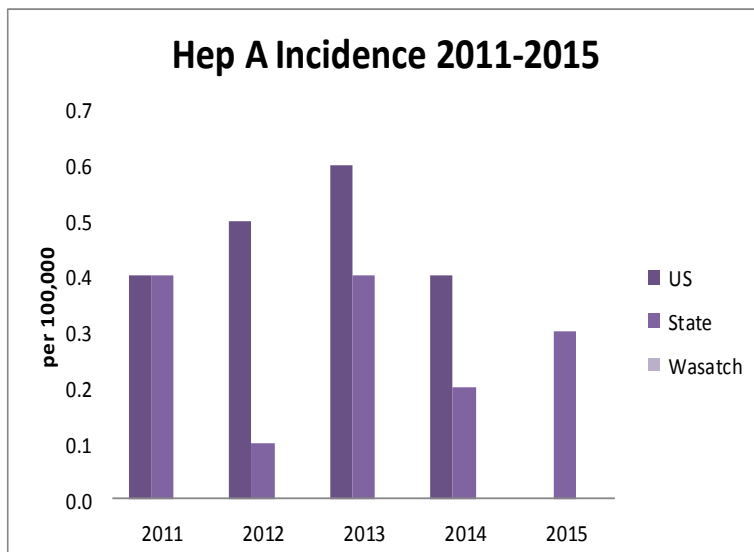
Hepatitis B			
Year	U.S.	Utah	Utah Co
2011	0.9	0.4	0.2
2012	0.9	0.5	0.2
2013	1.0	0.2	0.2
2014	0.9	0.4	0.4
2015	N/A	0.3	0.2



Pertussis			
Year	U.S.	Utah	Utah Co
2011	6.0	23.2	27.9
2012	15.4	55.7	78.2
2013	7.7	45.1	43.3
2014	10.4	29.6	36.2
2015	5.7	14.0	13.4

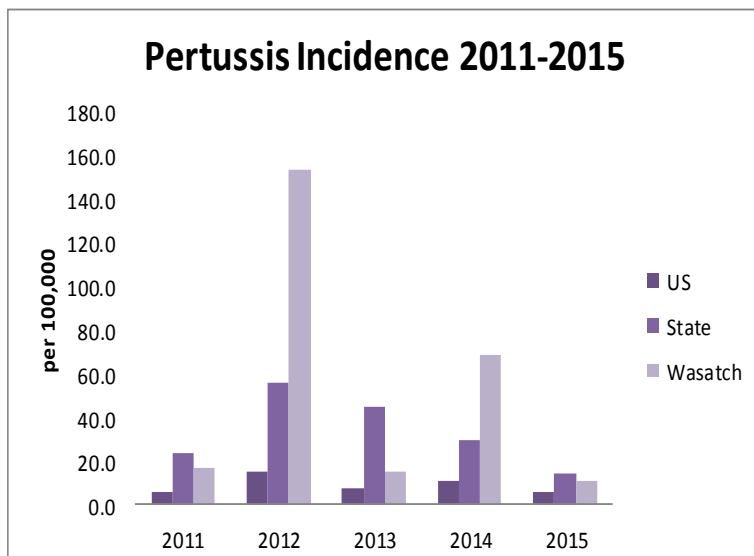
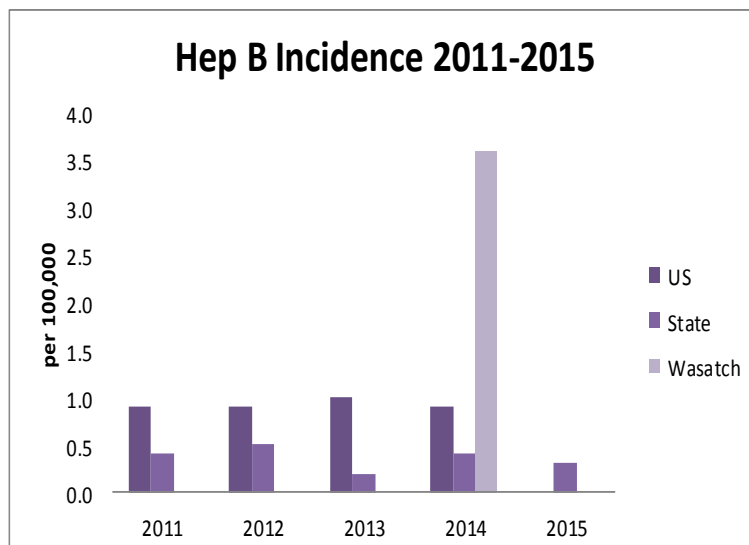


Wasatch County



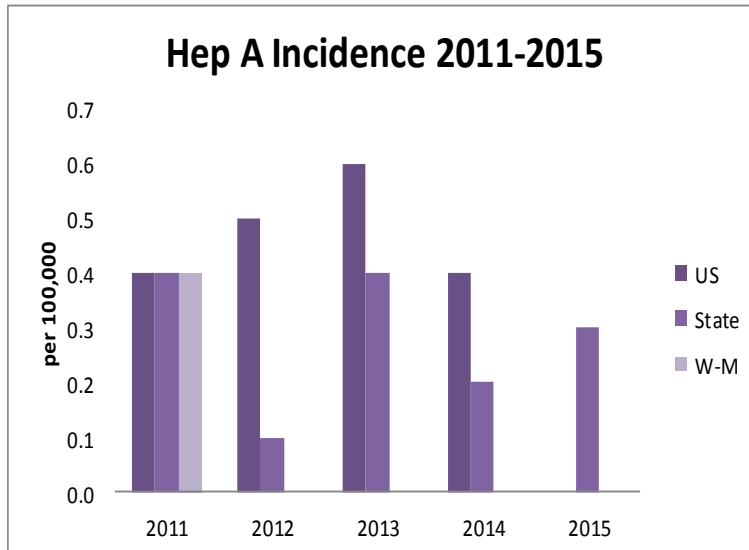
Hepatitis A			
Year	U.S.	Utah	Wasatch
2011	0.4	0.3	0.0
2012	0.5	0.1	0.0
2013	0.6	0.4	0.0
2014	0.4	0.2	0.0
2015	N/A	0.3	0.0

Hepatitis B			
Year	U.S.	Utah	Wasatch
2011	0.9	0.4	0.0
2012	0.9	0.5	0.0
2013	1.0	0.2	0.0
2014	0.9	0.4	3.6
2015	N/A	0.3	0.0



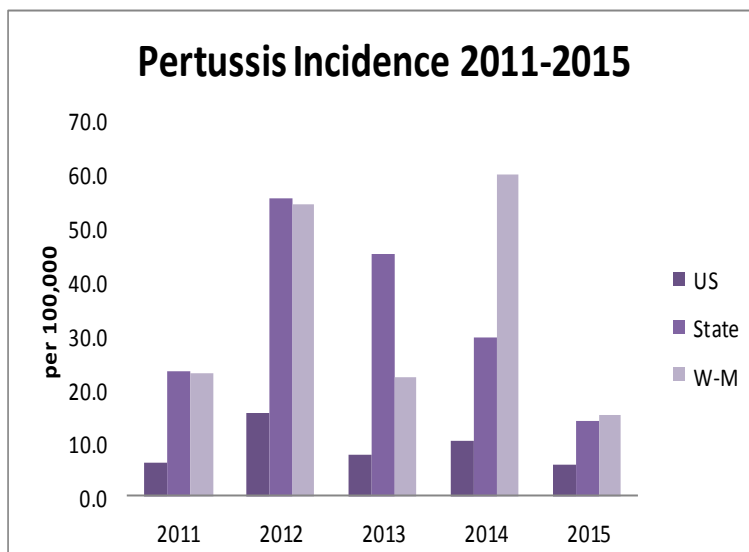
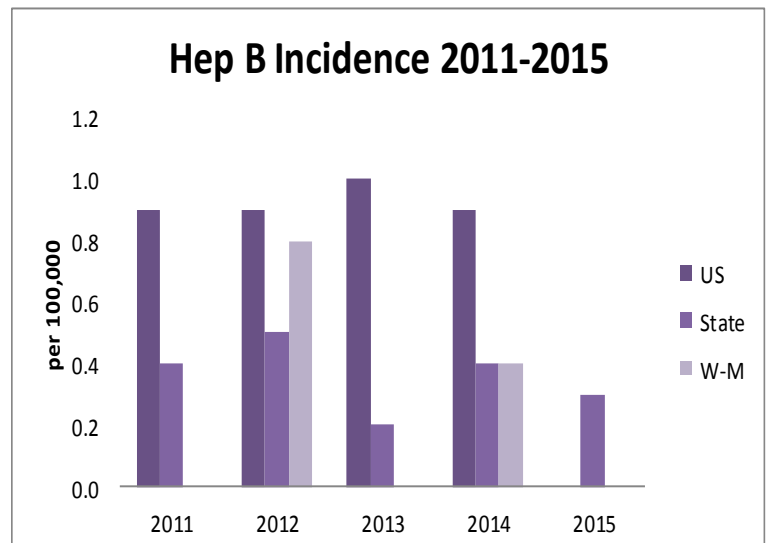
Pertussis			
Year	U.S.	Utah	Wasatch
2011	6.0	23.2	16.4
2012	15.4	55.7	153.4
2013	7.7	45.1	15.1
2014	10.4	29.6	68.6
2015	5.7	14.0	10.3

Weber-Morgan Service Area



Hepatitis A			
Year	U.S.	Utah	W-M
2011	0.4	0.3	0.4
2012	0.5	0.1	0.0
2013	0.6	0.4	0.0
2014	0.4	0.2	0.0
2015	N/A	0.3	0.0

Hepatitis B			
Year	U.S.	Utah	W-M
2011	0.9	0.4	0.0
2012	0.9	0.5	0.8
2013	1.0	0.2	0.0
2014	0.9	0.4	0.4
2015	N/A	0.3	0.0



Pertussis			
Year	U.S.	Utah	W-M
2011	6.0	23.2	22.9
2012	15.4	55.7	54.3
2013	7.7	45.1	22.1
2014	10.4	29.6	60.1
2015	5.7	14.0	14.9

The Vaccines for Children (VFC) Program helps provide vaccines to children whose parents or guardians may not be able to afford them. This helps ensure all children have a better chance of getting their recommended vaccinations on schedule. A child is eligible for the VFC Program if they are younger than 19 years and is one of the following:

- Medicaid-Eligible\*
- Uninsured
- Underinsured
- American Indian or Alaska native

In the 2015 Calendar year, it was estimated that 489,009 children under 19 years old were eligible for VFC funded vaccines in Utah.

VFC vaccines can be administered by any enrolled VFC Program Provider. Altogether there are 44,000 providers enrolled in the VFC Program nationwide. Currently, there are 360 VFC providers in Utah.

Number of Active VFC Providers Utah, 2016	Total: 360
Private Providers	243
FQHC/RHC/CHC	50
Hospitals	7
Indian Health Service	6
Local Health Departments	38
Long Term Care Center	1
Pharmacies	3
Other Public Providers	11
School District	1

According to the CDC, it is estimated that vaccination of children born between 1994 and 2013 will:

- Prevent 322 million illnesses
- Help avoid 732,000 deaths
- Save nearly \$1.4 trillion in total societal costs.

\* An individual is eligible for VFC vaccines if they have Medicaid as their secondary insurance

Clinics enrolled in VFC are required to have a compliance visit bi-annually in which their knowledge of VFC policy and procedures are assessed. At this time, a VFC representative will also observe storage and handling techniques. Below are assessment scores for compliance visits and for unannounced storage and handling visits.

Utah General Information		2015
Total # of Enrolled Providers		365
# of Providers who enrolled in VFC		25
# of Providers who unenrolled from VFC		12
Compliance Visit Overview		
Annual Target (50% of Providers)		182
# of visits conducted		351
Average Overall Score		94%
Average Storage and Handling Score		95%
Unannounced Storage and Handling (USH) Overview		
Annual Target (5% of Providers)		18
# of visits conducted		61
Average USH Score		92%

Below is the number of doses distributed to VFC clinics throughout Utah in 2014 and 2015.

VFC Doses Distributed 2014-2015		
	2014 Total	2015 Total
DTaP	26,620	16,570
Pediarix	34,010	27,010
Pentacel	21,650	31,225
Kinrix	11,150	11,330
IPV	14,370	9,340
Hep A	41,838	41,900
Hep B	17,354	24,810
HIB	50,005	34,440
MCV	17,775	23,535
Men B	N/A	20
MMR	20,230	19,760
MMRV	18,660	19,480
PCV	69,730	70,540
Rotavirus	46,210	45,730
Td	950	940
Tdap	19,000	19,025
Varicella	22,870	23,720
<b>Total</b>	<b>459,822</b>	<b>449,685</b>

1. Centers for Disease Control and Prevention (CDC). August—October 2016. *National Immunization Survey (NIS) 2010-2015*. Retrieved from: <http://www.cdc.gov/vaccines/imz-managers/coverage/imz-coverage.html>.
2. Utah Immunization Program. July 2016. *Child Care Annual Summary Report*. Utah Department of Health.
3. Behavioral Risk Factor Surveillance System (BRFSS). September 2016. Utah Department of Health, Center for Health Data and Informatics.
4. Utah Immunization Program. July 2016. *Child Care Annual Summary Report, Kindergarten*. Utah Department of Health.
5. Utah Immunization Program. August 2016. *Long-Term Care Report*. Utah Department of Health.
6. Utah Statewide Immunization Information System (USIIS). September 2016. Utah Department of Health.

**Immunization Program, Bureau of Epidemiology**

Division of Disease Control and Prevention  
Utah Department of Health  
PO Box 142012  
Salt Lake City, Utah 84114-2012  
Phone: 801-538-9450  
Fax: 801-538-9440  
Website: [www.immunize-utah.org](http://www.immunize-utah.org)

**Utah Statewide Immunization Information System, Bureau of Epidemiology**

Division of Disease Control and Prevention  
Utah Department of Health  
Helpline: 801-538-3440 / 800-678-3440  
Website: [www.usiis.org](http://www.usiis.org)

**Data Resources Program, Maternal and Child Health Bureau**

Division of Community and Family Health Services  
Utah Department of Health  
PO Box 142002  
Salt Lake City, Utah 84114-2002  
Phone: 801-538-6916  
Fax: 801-538-6591  
Website: [www.health.utah.gov/drp](http://www.health.utah.gov/drp)

**Other Available Resources**

National Immunization Program	<a href="http://www.cdc.gov/vaccines">www.cdc.gov/vaccines</a>
National Immunization Data and Statistics	<a href="http://www.cdc.gov/vaccines/stats-surv/default.htm">www.cdc.gov/vaccines/stats-surv/default.htm</a>
Immunization Action Coalition	<a href="http://www.immunize.org">www.immunize.org</a>
Healthy People 2020	<a href="http://www.healthypeople.gov">www.healthypeople.gov</a>
Utah Department of Health	<a href="http://www.health.utah.gov">www.health.utah.gov</a>
Utah Maternal and Child Health Bureau	<a href="http://www.health.utah.gov/cfhs/mch">www.health.utah.gov/cfhs/mch</a>
Indicator-Based Information System for Public Health	<a href="http://ibis.health.utah.gov">http://ibis.health.utah.gov</a>
Office of Health Care Statistics	<a href="http://www.health.utah.gov/hda">www.health.utah.gov/hda</a>
Utah Medicaid Program	<a href="http://www.health.utah.gov/medicaid">www.health.utah.gov/medicaid</a>

**Utah Department of Health  
Immunization Program**

P.O. Box 142001

Salt Lake City, UT 84114-2012

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