# Up Where We Belong

## *Improving Immunization Rates*

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# Idaho Immunization Rates

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# 2015 National Immunization Survey For Infants 19-35 Months of Age

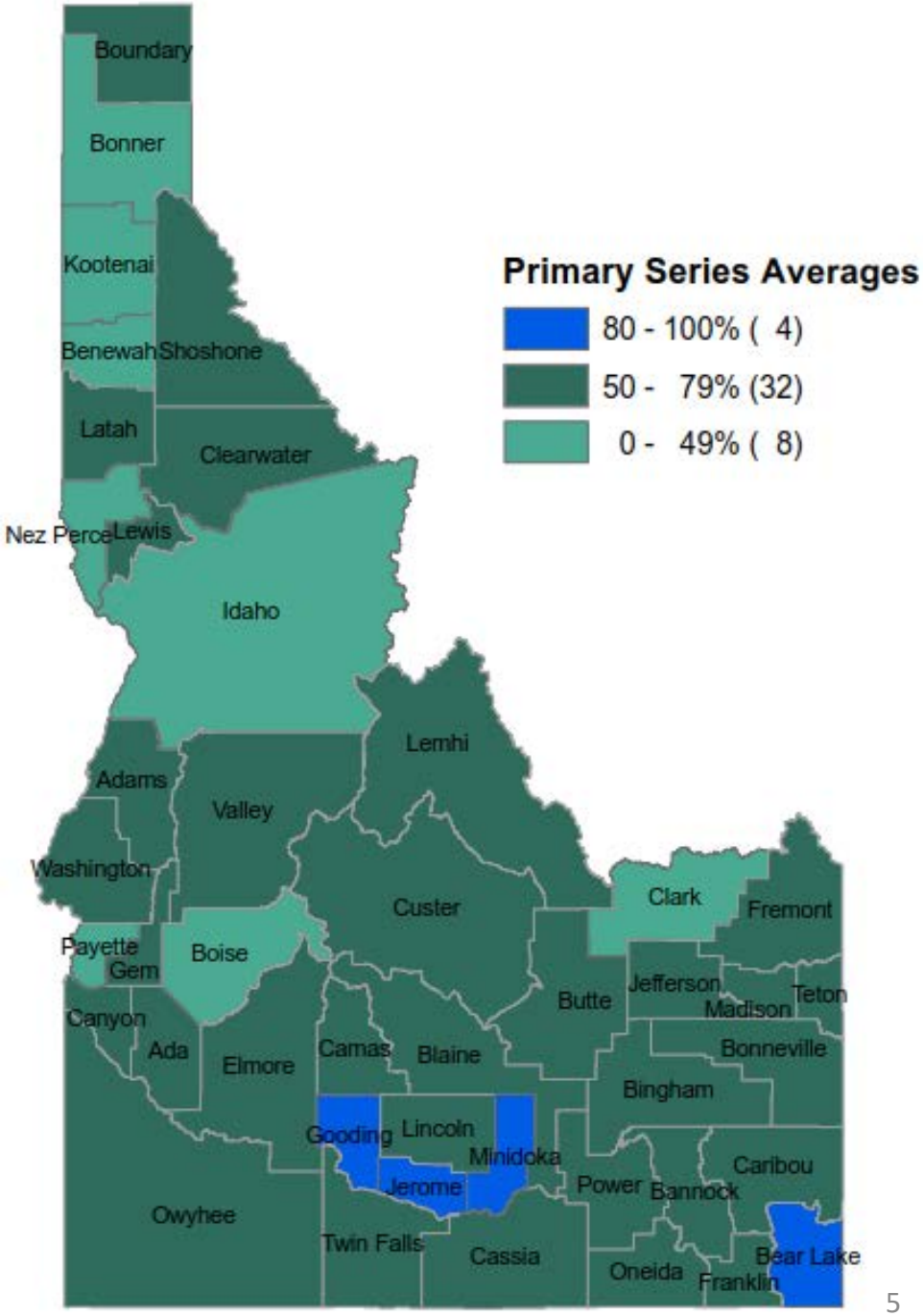
| Idaho | | National | |
|---|---|---|---|
| 4:3:1:3:3:1:4* | 71.6% | 4:3:1:3:3:1:4* | 72.2% |
| 4 DTaP | 81.1% | 4 DTaP | 84.6% |
| 3 Polio | 88.9% | 3 Polio | 93.7% |
| 1 MMR | 91.2% | 1 MMR | 91.9% |
| 3 HIB | 88.3% | 3 HIB | 94.3% |
| 3 Hep B | 89.8% | 3 Hep B | 92.6% |
| 1 Varicella | 88.5% | 1 Varicella | 91.8% |
| 4 Pneumococcal | 84.4% | 4 Pneumococcal | 84.1% |
| | | | |
| 2 Hep A | 58.8% | 2 Hep A | 59.6% |
| Rotavirus | 74.5% | Rotavirus | 73.2% |

# 2015 National Immunization Survey For Adolescents 13-17 years of age

| Idaho | | National | |
|---|---|---|---|
| 2 Varicella | 67.5% | 2 Varicella | 83.1% |
| 1 Tdap | 82.5% | 1 Tdap | 86.4% |
| 1 Meningococcal | 81.4% | 1 Meningococcal | 81.3% |
| 1 HPV (females) | 57.3% | 1 HPV (females) | 62.8% |
| 3 HPV (females) | 30.3% | 3 HPV (females) | 41.9% |
| 1 HPV (males) | 44.2% | 1 HPV (males) | 49.8% |
| 3 HPV (males) | 26.4% | 3 HPV (males) | 28.1% |
| 2 MMR | 80.4% | 2 MMR | 90.7% |
| 3 Hep B | 83.1% | 3 Hep B | 91.1% |

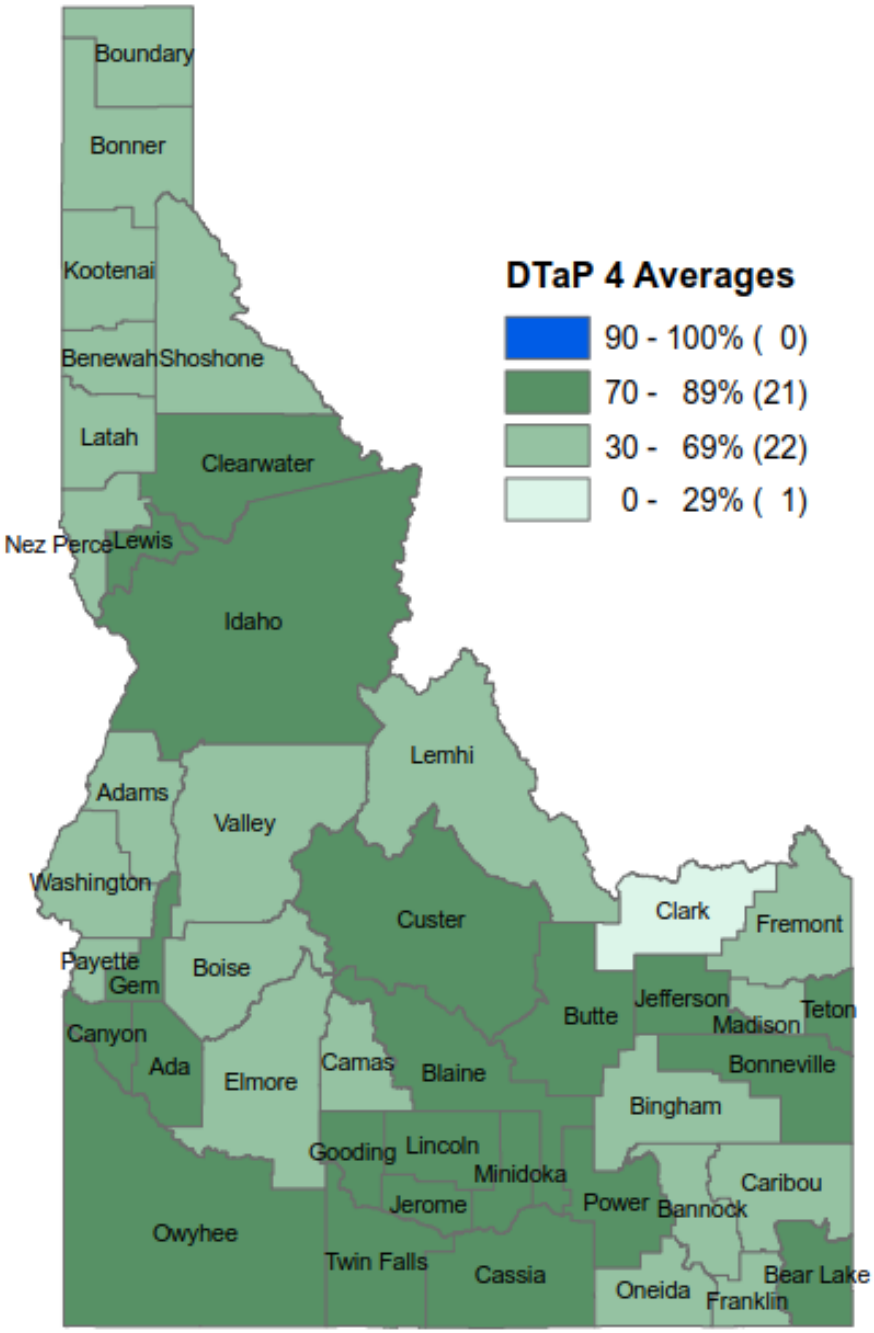
# Average Vaccination Rate for the Primary Series 4:3:1:3:3:1:4

- 4 DTaP, 3 Polio, 1 MMR, 3 HIB, 3 Hep B, 1 Varicella, 4 PCV
- Ages 24-35 months
- On-time by 24 months
- As of December 31, 2016
- Average rate of enrolled providers by county
- Healthy People 2020 Goal of 80% or more in Royal Blue



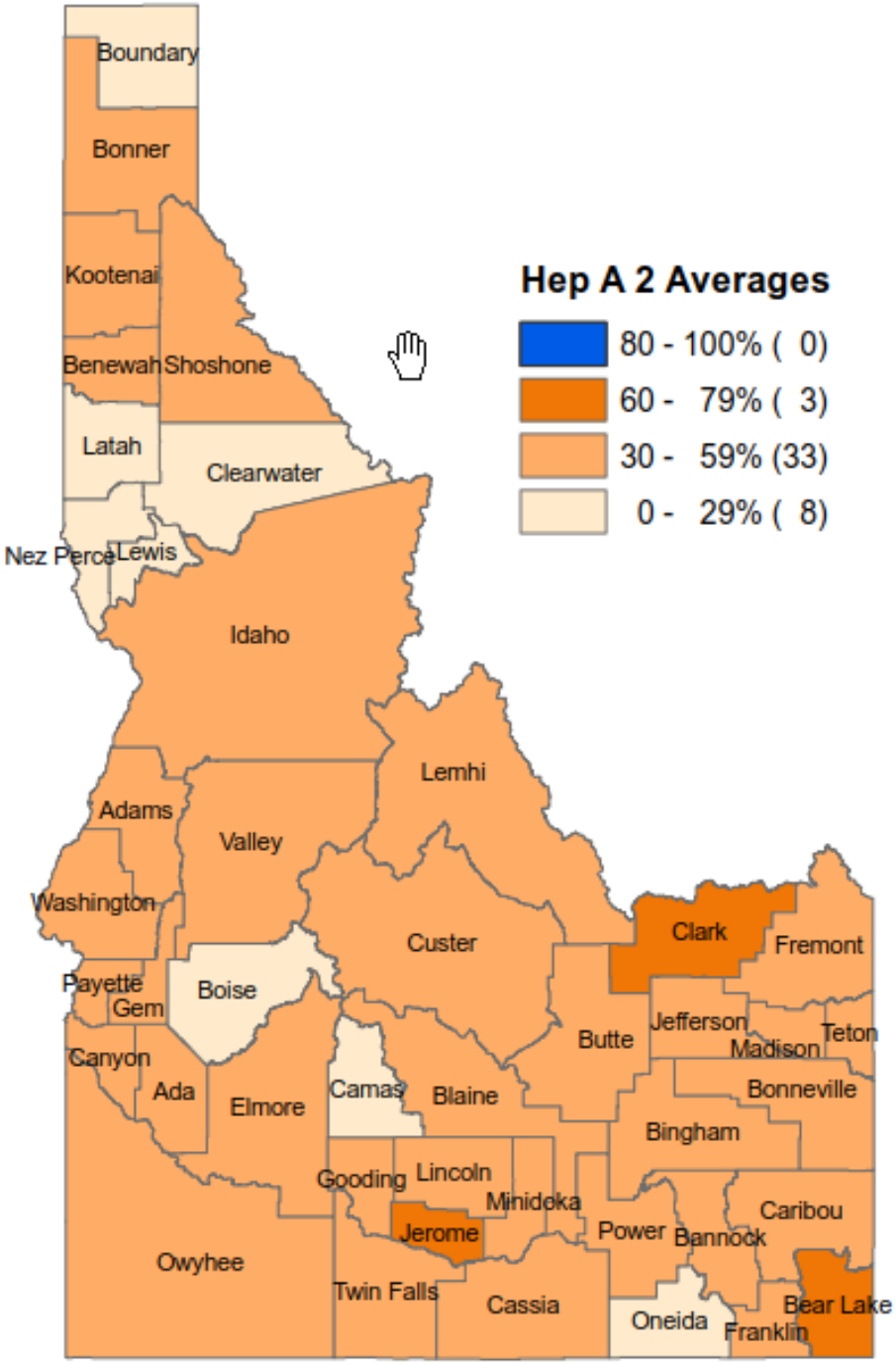
# Average Vaccination Rate for the 4th Dose of DTaP

- Ages 24-35 months
- On-time by 24 months
- As of December 31, 2016
- Average rate of enrolled providers by county
- Healthy People 2020 Goal of 90% or more in Royal Blue



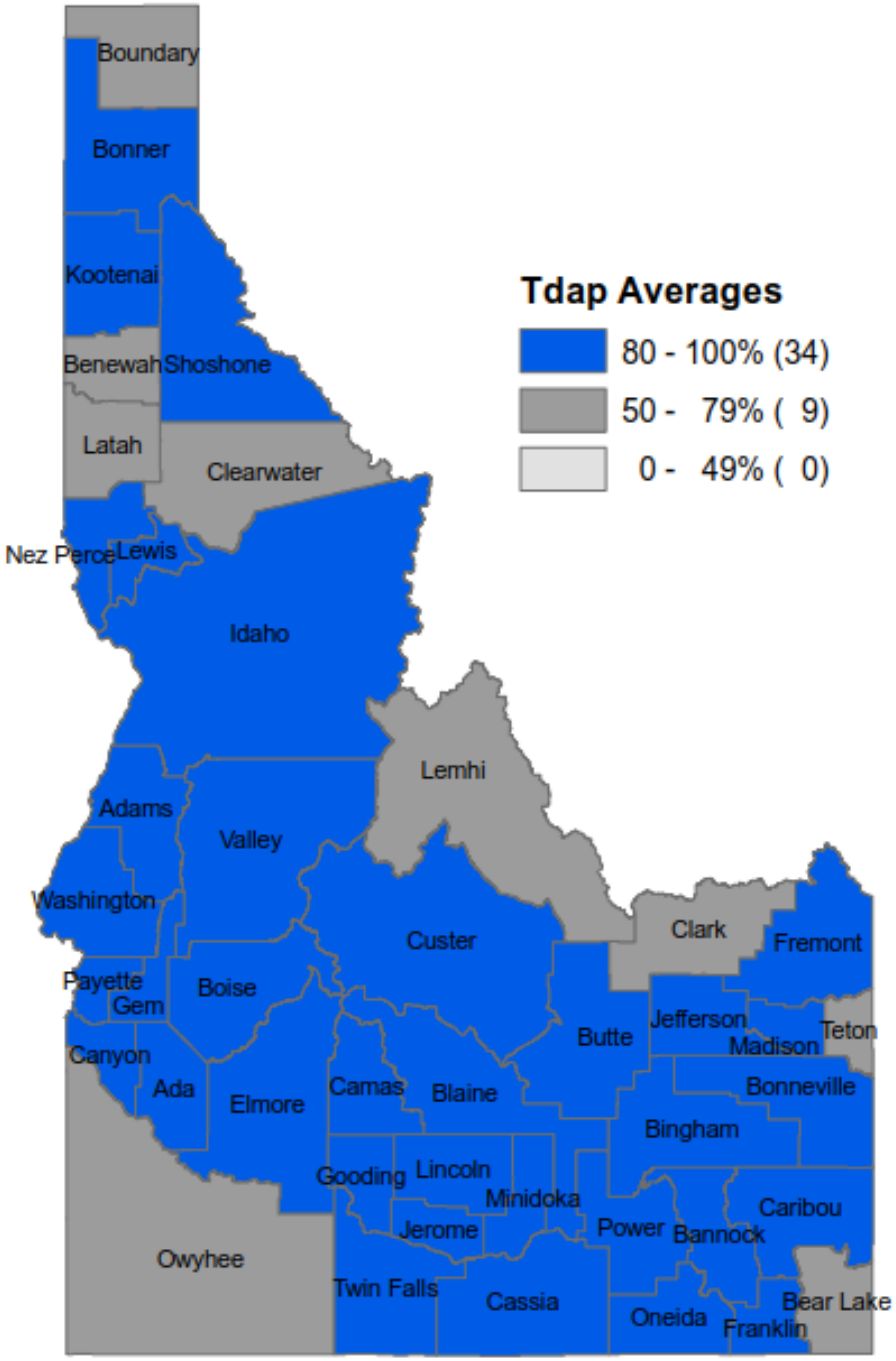
# Average Vaccination Rate for Hep A

- Ages 24-35 months
- On-time by 24 months
- As of December 31, 2016
- Average rate of enrolled providers by county
- Healthy People 2020 Goal of 85% or more in Royal Blue



# Average Vaccination Rate for Tdap

- Ages 13 – 17 years
- Update-to-date as of December 31, 2016
- Average rate of enrolled providers by county
- Healthy People 2020 Goal of 80% or more in Royal Blue



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# Quality Improvement (QI) Basic Steps

- State the problem and desired results
- Use data to understand the problem
- Identify and select strategies for improvement
- Pilot solution(s) on a small scale
- Expand scope and reach throughout an organization or system
- Evaluate QI outcomes

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# Common QI Characteristics

- A quality improvement team
- Training
- Mechanisms for selecting improvement opportunities
- A process for analysis and redesign
- A link to an organization's strategic plan
- An organizational culture that supports continual learning systems and process improvement

# Quality Improvement Team

**People**

- *Be sure you have people familiar with all aspects of the process*

**Champion**

- *Find someone willing and able to take responsibility, who will keep everyone engaged and motivated*

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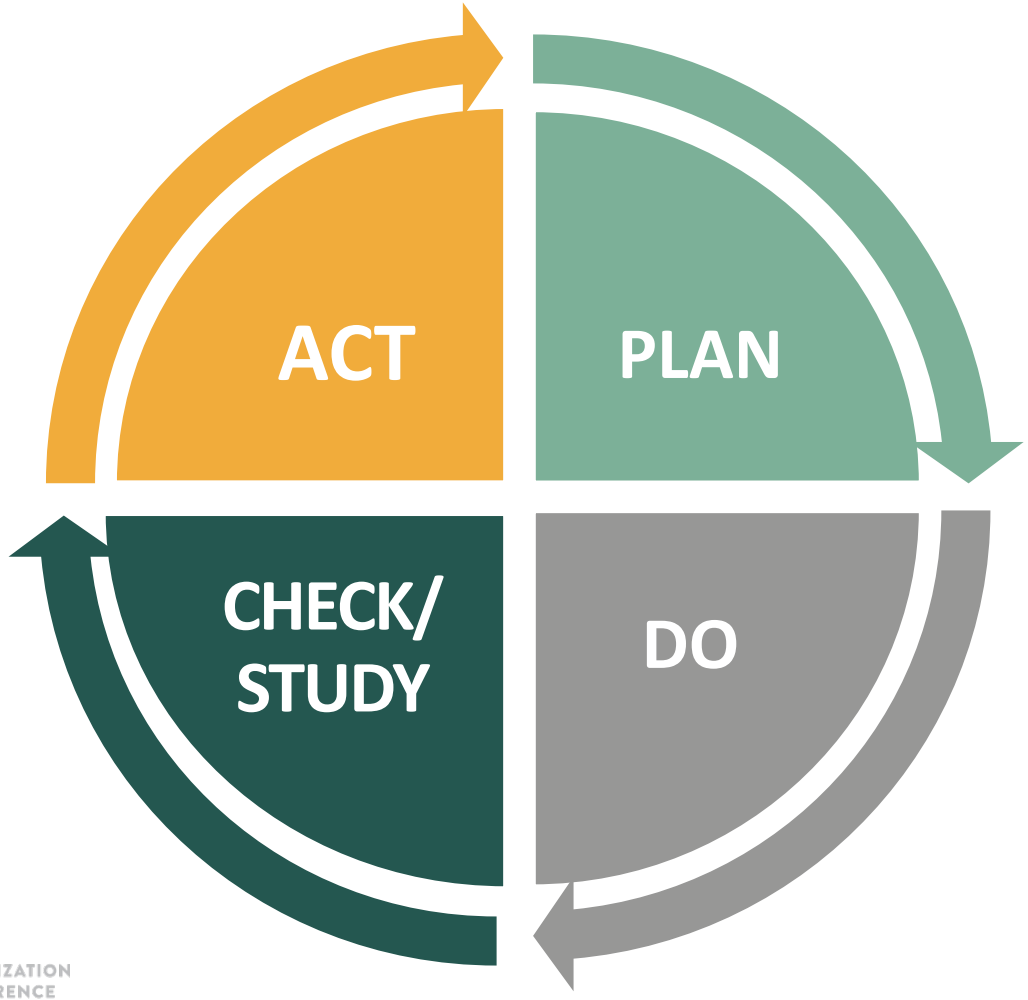
# Plan-Do-Check/Study-Act (PDSA)

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# Elements of PDSA

| | |
|---|---|
| **PLAN:** | **Design changes aimed at improvement, based on root causes.** |
| **DO:** | Implement changes, initially on small scale. |
| **CHECK/STUDY:** | See if the desired results are achieved. |
| **ACT:** | Make changes based on what you learned; spread success. |

# Strategies to Increase Quality of Immunization Services

- Assess your immunization rates
- Provide walk-in or immunization only visits
- Use a reminder/recall system
- Schedule next immunization visit before patients/parents leave the office
- Schedule wellness visits for patients 11-12 years of age

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# Idaho's Reminder Information System (IRIS)

*A Tool for Improvement*

# AFIX-IIS Product

Clinics may assess immunization coverage through IRIS

Provider immunization report

- Provider rates compared to jurisdictional rates, such as Idaho's National Immunization Survey

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# BENEFiTS

- Access to real-time immunization coverage rates
- Improve data quality in IRIS
- Decrease missed opportunities

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# Home Page

AFIX Cohort

Flexible Cohort

List of Scheduled Jobs

**Provider:** Select Provider

**Type:** Select

**As of Date:** 02/22/2017

Birth Date Range

**From:** 02/22/2017 **To:** 02/22/2017

**Reports:**
- Assessment
- Patient Listing
- Both

Clear Submit

# Provider Selection

## Select Provider

**Provider Name:**

Win

**VFC Pin:**

**IIS ID:**

Clear Search

| Select | Provider Name | Address, City, Zip | County | VFC Pin | IIS Id | Childhood Coverage % | Adolescent Coverage % |
|---|---|---|---|---|---|---|---|
| ◉ | Winchester Clinic - South | 123 MAIN STREET<br>TYE 79563 | | | 11110180010 | | |
| ○ | Winchester Clinic - East | 345 MAIN ST<br>AUSTIN 55222 | | | 11110180020 | | |
| ○ | Winchester Clinic | 789 MAIN STREET<br>AUSTIN 55112 | | | 11110180000 | | |

Previous 1 Next

Exit Select

# Childhood Criteria

**Type:** Childhood

**As of Date:** 02/24/2017

**Childhood Cohort Assessment Criteria**

**Age Range : 24-35 Months**

| | | |
|---|---|---|
| Polio 3 | DTap 4 | RV UTD |
| MMR 1 | Flu 1 | Hib UTD |
| HepA 2 | PCV UTD | Hep B UTD |
| 4:3:1:3:3:1:4 | | |

# Auto Birth Date Range

Birth Date Range

**From:** 02/23/1999 **To:** 02/22/2004

# Reports Selection

**Reports:**

- Assessment
- Patient Listing
- Both

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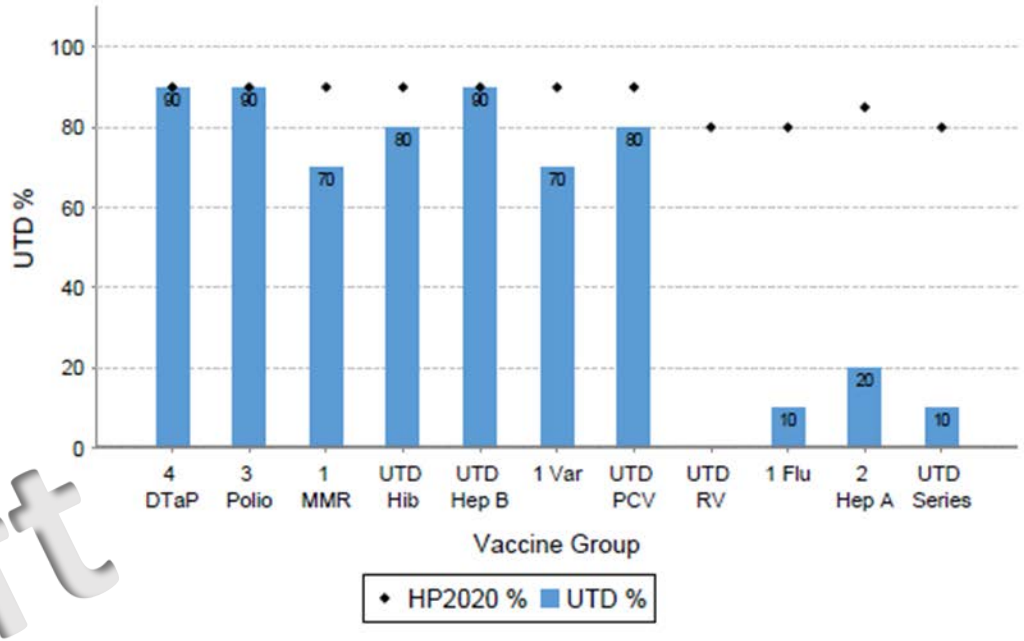
# Childhood Cohort Assessment and Missed Opportunities Report

| | | | |
|---|---|---|---|
| Report Run Date: | 02/21/2017 | Job ID: | 837 |
| Provider ID: | 147892 | As of Date: | 02/01/2017 |
| Provider Name: | ABC Labs | Age Range: | 24 - 35 Months |
| Number of Active Clients: | 10 | Birth Date Range: | 02/02/2014 - 02/01/2015 |

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| Vaccine Group | 4 DTaP | 3 Polio | 1 MMR | Hib** | HepB** | 1 Var | PCV** | RV** | 1 Flu | 2 HepA | 4:3:1:3:3:1:4** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| UTD % | 90% | 90% | 70% | 80% | 90% | 70% | 80% | 0% | 10% | 20% | 10% |
| UTD Numerator | 9 | 9 | 7 | 8 | 9 | 7 | 8 | 0 | 1 | 2 | 1 |
| HP 2020 % | 90% | 90% | 90% | 90% | 90% | 90% | 90% | 80% | 80% | 85% | 80% |

| Vaccine Group | 4 DTaP | 3 Polio | 1 MMR | Hib** | HepB** | 1 Var | PCV** | RV** | 1 Flu | 2 HepA | 4:3:1:3:3:1:4** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Missed Opps % | 0% | 10% | 10% | 10% | 0% | 0% | 10% | 10% | 10% | 10% | 0% |
| Missed Opps Numerator | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |

* Series 4:3:1:3:3:1:4

** UTD

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## Cohort Assessment Patient Listing

| | | | |
|---|---|---|---|
| Report Run Date: | 02/23/2017 | Job ID: | 939 |
| Provider ID: | 147892 | As of Date: | 02/22/2017 |
| Provider Name: | ABC Labs | Age Range: | 24 - 35 Months |
| Number of Active Clients: | 10 | Birth Date Range: | 02/23/2014 - 02/22/2015 |

| Last Name | First Name | Date Of Birth | IIS Patient ID | Chart # | UTD |
|---|---|---|---|---|---|
| ROMERO | EMANUEL | 09/10/2014 | 0 | | N |
| HART | ANNE | 04/27/2014 | 0 | | N |
| LAKE | THELMA | 02/28/2014 | 0 | | N |
| BURRELL | BENJAMIN | 02/28/2014 | 0 | | N |
| BIGGS | ADELE | 10/20/2014 | 0 | | N |
| SELLERS | LORRAINE | 11/23/2014 | 0 | | N |
| BEARD | REED | 03/27/2014 | 0 | | N |
| SIMPSON | QUINTON | 12/18/2014 | 0 | | N |
| TONEY | SEAN | 12/28/2014 | 0 | | N |
| DEJESUS | JOANN | 11/17/2014 | 0 | | N |

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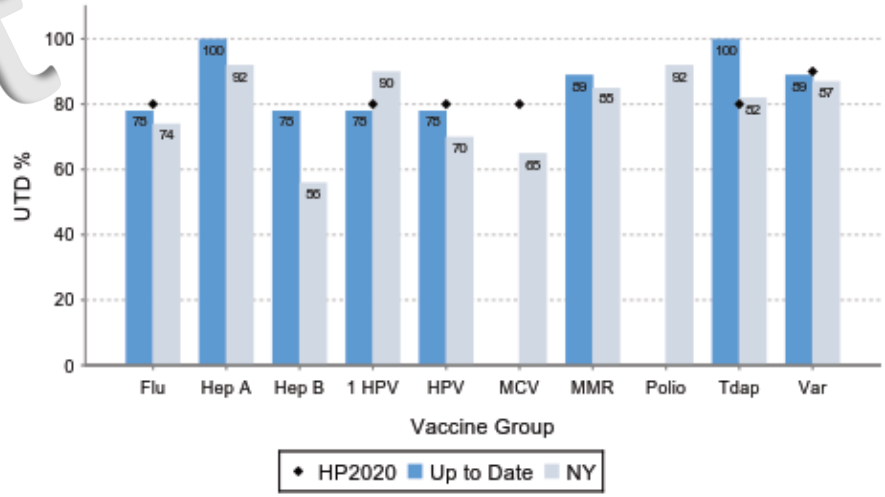
# Provider Report Card for Adolescent Immunization

**This report was run on 03/21/2017 for ABC Labs (147892). The report can be identified using the report id: 1282. The assessment was done for adolescent population with age range of 13 - 17 Years (born between 03/14/1999 and 03/13/2004). The compliance of these adolescent population were validated as of 03/13/2017. There are 10 adolescents assessed.**

## Adolescent Immunization Coverage Rates

| Vaccine Group | Up to Date # | Up to Date | NY | HP 2020^ | NY - NIS^^ | Recommended Doses |
|---|---|---|---|---|---|---|
| Flu | 7 | 78% | 74% | 80% | 78% | 1 dose of flu vaccine for the most recently completed flu season.* |
| Hep A | 9 | 100% | 92% | 0% | 96% | 2 or more doses of hepatitis A vaccine. UTD** |
| Hep B | 7 | 78% | 56% | 0% | 65% | 3 or more doses of hepatitis B vaccine. UTD** |
| 1 HPV | 7 | 78% | 90% | 80% | 78% | 1 dose of human papillomavirus vaccine to indicate the start of the series |
| HPV | 7 | 78% | 70% | 80% | 75% | 2 or 3 doses of human papillomavirus vaccine based on the product type used. UTD** |
| MCV | 0 | 0% | 65% | 80% | 70% | 1 or more doses of meningococcal vaccine. UTD** |
| MMR | 8 | 89% | 85% | 0% | 80% | 2 or more doses of measles, mumps and rubella vaccine |
| Polio | 0 | 0% | 92% | 0% | 94% | 3 or 4 doses of poliovirus vaccine based on the age at which the 3rd dose was received. UTD** |
| Tdap | 9 | 100% | 82% | 80% | 84% | 1 or more of tetanus and diphtheria toxoids and acellular pertussis vaccine |
| Var | 8 | 89% | 87% | 90% | 89% | 2 or more doses of varicella vaccine |

^Healthy People 2020 is a set of science-based public health goals established by the U.S. Department of Health and Human Services.
^^NY - NIS: National Immunization Surveys are conducted annually and used to obtain national, state, and selected local area estimates of vaccination coverage rates for U.S. children age 19-35 months and for U.S. adolescents age 13-17 years.
*WHX defines flu season as July 1 through June 30 and coverage calculations are based on the most recently completed flu season.
**UTD refers to vaccine measurements where a variable number of doses can be applied to achieve protection based on patient age, date of first dose, and/or vaccine product nuances.

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# Jurisdictional Status

- Organization
- Health District
- State

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Patients
- manage patient
- enter new patient
- manage patient status
- merge patients

# Manage Patient Status

**Manage Patient Status Criteria**

Find

*Select By Status

(•) Active ( ) Inactive-No longer a patient ( ) Inactive-Lost to follow-up ( ) Inactive-Unspecified ( ) All

*Select By Age

(•) All Ages

( ) Birth Date Range Earliest Birth Date: [ ] Latest Birth Date: [ ]

( ) By Age *From [ ] Months *To [ ] Months

Select By Length of Time Since Last Immunization

Years [ ] Evaluation Date: [ ] *(if blank, default is current date)*

Select By Last Name

Last Name [ ] Last Name Begin Range [ ] Last Name End Range [ ]

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# Patient Status Results

**Manage Patient Status Criteria**

Find

***Select By Status**

○ Active ○ Inactive-No longer a patient ○ Inactive-Lost to follow-up ○ Inactive-Unspecified ◉ All

***Select By Age**

◉ All Ages

○ Birth Date Range Earliest Birth Date: Latest Birth Date:

○ By Age *From Months *To Months

**Select By Length of Time Since Last Immunization**

Years Evaluation Date: *(if blank, default is current date)*

**Select By Last Name**

Last Name Last Name Begin Range Last Name End Range

Patient Status Results Set Returned 1-100 of 350 Next >>

| Select All/Deselect All ☐ | Last Name | First Name | Birth Date | Patient ID | Current Status | Last Immunization | Entered By Org |
|---|---|---|---|---|---|---|---|
| ☐ | BACKHAND | THREE | 11/01/2012 | QRY5678 | Inactive-Unspecified | 10/01/2013 | My Org |
| ☐ | BOURN | TOM | 08/26/2011 | 2495775 | Active | 08/26/2012 | My Org |
| ☐ | CCEED | DUDERA | 09/16/2011 | 2495546 | Active | 09/16/2012 | My Org |
| ☑ | CORTRIGHT | SUZANNE | 08/11/2005 | 500046677 | Active | 08/11/2015 | |
| ☐ | DEBENEDICTIS | CARY | 03/11/2005 | p1001 | Active | 03/11/2015 | My Org |
| ☐ | ECTLUND | NABEL | 03/28/2005 | 50044 | Active | 03/28/2015 | My Org |
| ☐ | FOREHAND | ELEVEN | 05/01/2013 | NO123IC | Inactive-Lost to follow-up | 05/01/2013 | |
| ☐ | GROTMOL | CHADWICK | 02/12/2003 | ABC323 | Inactive/No longer a patient | 02/12/2013 | My Org |
| ☐ | IMMUNITY | GIVEN | 01/14/2016 | IMMUN923 | Inactive-Unspecified | 01/14/2016 | My Org |
| | KIDD | ALERGY | 01/02/2016 | ACOM123 | Deceased | 01/02/2016 | My Org |
| ☑ | PRESUMED | IMMUNTY | 01/24/2016 | PRESMD873 | Active | 01/24/2016 | |
| ☑ | QULIENT | REACTION | 01/14/2016 | REACT123 | Active | 01/14/2016 | ABC Org |
| ☑ | SERIES | FINISHED | 02/01/2013 | Finished123 | Active | 02/01/2013 | ABC Org |

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# Types of Reminder/Recall Services

- Electronic Health Records
- Immunization Registries
- Tickler Files

# Outputs

- Letters
- Post Cards
- Phone Calls
- Text Messaging

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# Questions?


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