

Immunization Overview

State Board of Health
April 13, 2016

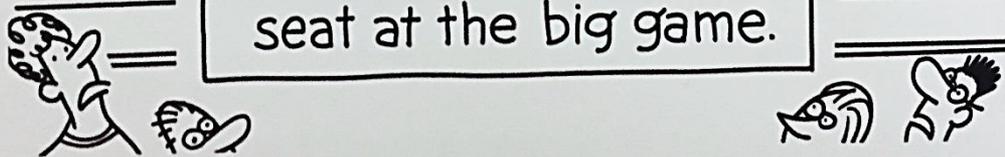
Michele Roberts, MPH, MCHES, Director
Office of Immunization and Child Profile

PUBLIC HEALTH
ALWAYS WORKING FOR A SAFER AND
HEALTHIER COMMUNITY



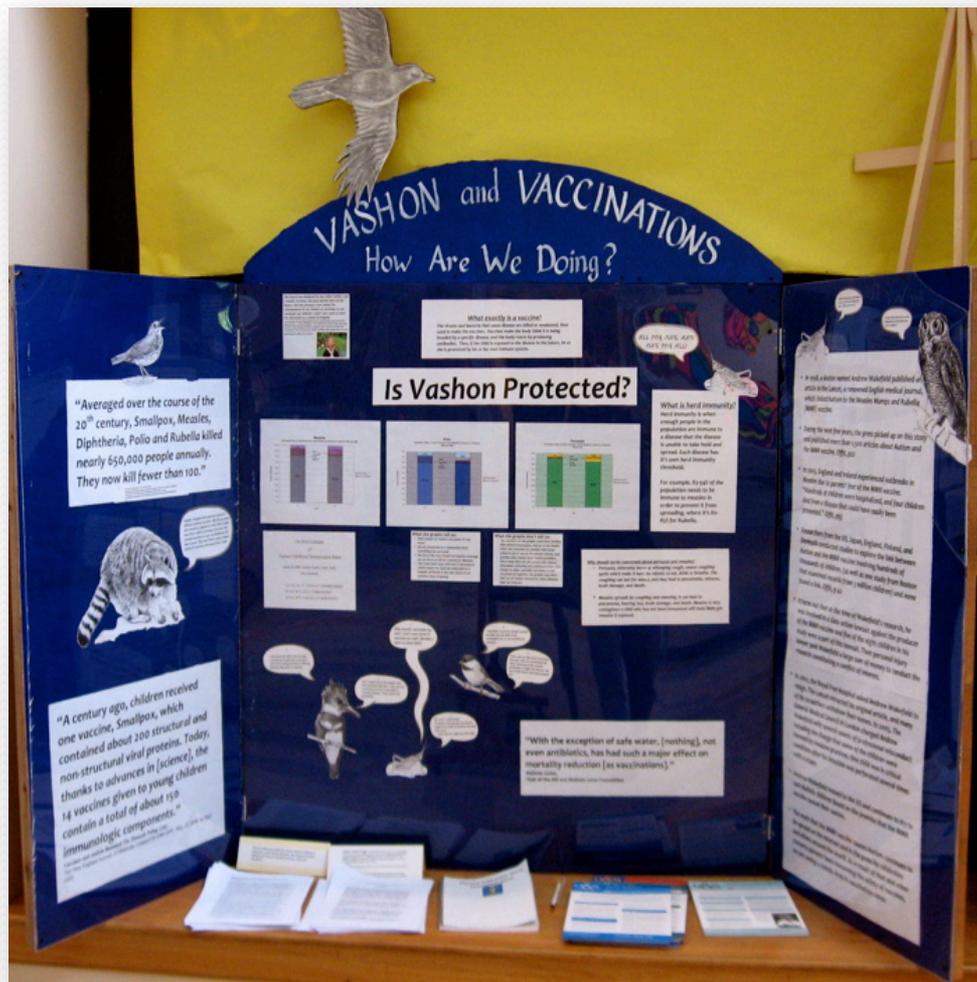


How to assure a good seat at the big game.



Vashon School District's Story

Two, four, six, eight
Who we gonna vaccinate
When you gonna realize
Now's the time to immunize
Parents don't procrastinate
Now's the time to vaccinate
Two, four, six, eight,
Let us all inoculate!



School Immunization Definitions

Complete: The student has provided proof of having all the required vaccines or proof of immunity.

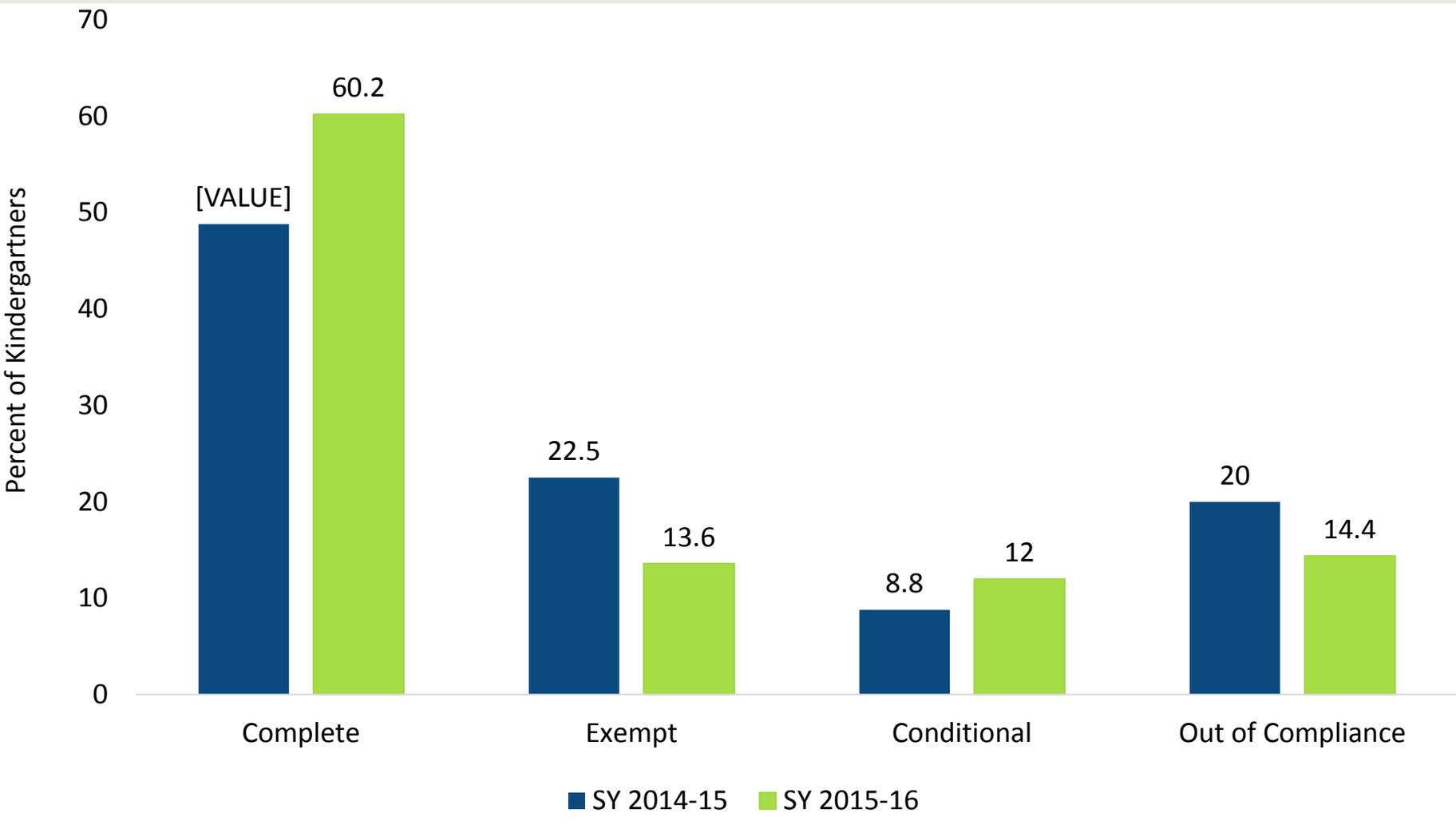
Exempt: The student has a signed Certificate of Exemption on file at the school excusing the student from one or more vaccinations due to medical, personal, or religious beliefs.

Conditional: The student is missing the required Certificate of Immunization Status or is missing one or more required vaccinations and is making satisfactory progress towards compliance.

Out-of-compliance: The student is missing the required Certificate of Immunization Status, missing one or more required vaccinations, and no exemption is on file.

Definitions based on WAC 246-105-020

Great News About Vashon's Data!



Data source: Washington DOH school immunization data, school years 2014-15 and 2015-16..

Other Success Stories

Finley School District, 2016

- Superintendent, principal, secretaries fully committed to exclusion, principal made personal calls
- Riverview High School: 100% compliance
- Finley Middle School: 99% compliance
- Finley Elementary School: 98.7% compliance

Spokane School District, 2015-16

- Reduced percent of non-compliant kindergartners from 24.6% to 1.6%; increased percent complete from 68.8% to 87.7%
- Used the Immunization Information System (IIS) and student information system, calls and letters to parents, free school-based vaccination clinics with school nurses as vaccinators

Today's Overview

- How our state approaches immunization
- How we assess our progress
 - ✓ Data sources
 - ✓ Childhood, teen and school results
- What we're doing to increase rates
- Policy priorities

Value of Vaccination is Clear

- 750,000 lives saved in the USA in the past 10 years¹
- Trillions of dollars saved in societal costs¹
- \$1 spent on vaccination = \$10 - \$16 in societal savings²

References:

1: <http://www.cdc.gov/media/releases/2014/p0424-immunization-program.html>

2: <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6316a4.htm>

Washington Takes a Lifespan Approach



Sources of Childhood Immunization Data

Washington State Immunization Information System (IIS)

- Records for individuals are initiated by:
 - ✓ Birth certificate
 - ✓ Provider entry
- Data is improving over time
 - ✓ Becoming more complete due to increases in absolute reporting and addition of reporters
 - ✓ Becoming more accurate due to increasing electronic data transfers

National Immunization Survey (NIS)

- Random telephone survey
- Small sample size means large confidence intervals
- Comparison year-over-year and between states
- NIS does not consider correct intervals between doses when determining “complete”

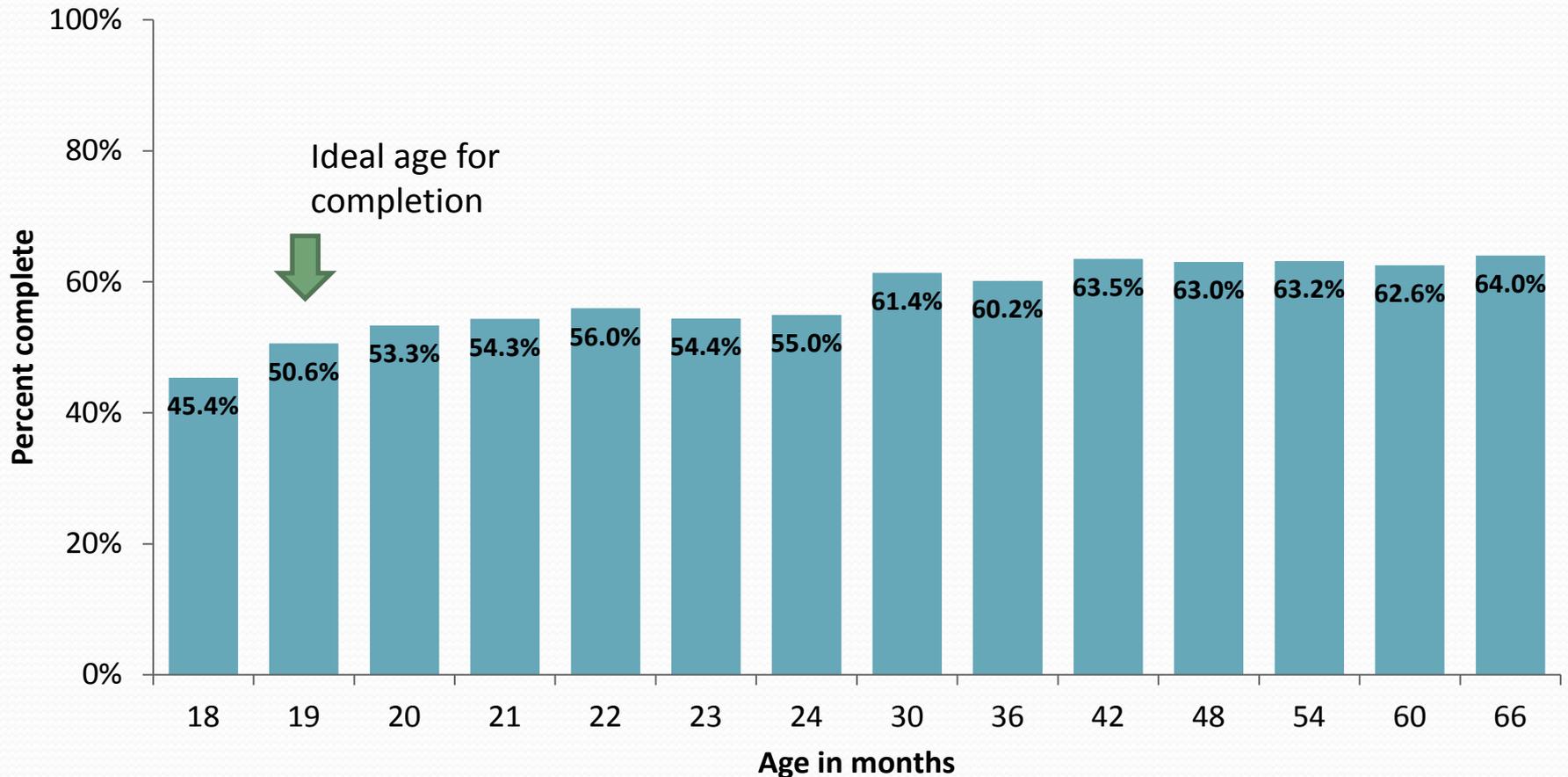
School Data

- Aggregated at individual school
- All schools required to report annually by November 1st
- Schools continue to update records throughout the year
- State data is a snapshot in time

Immunization Information System (IIS) Data

Washington - Slow Completion of the Childhood Immunization Series

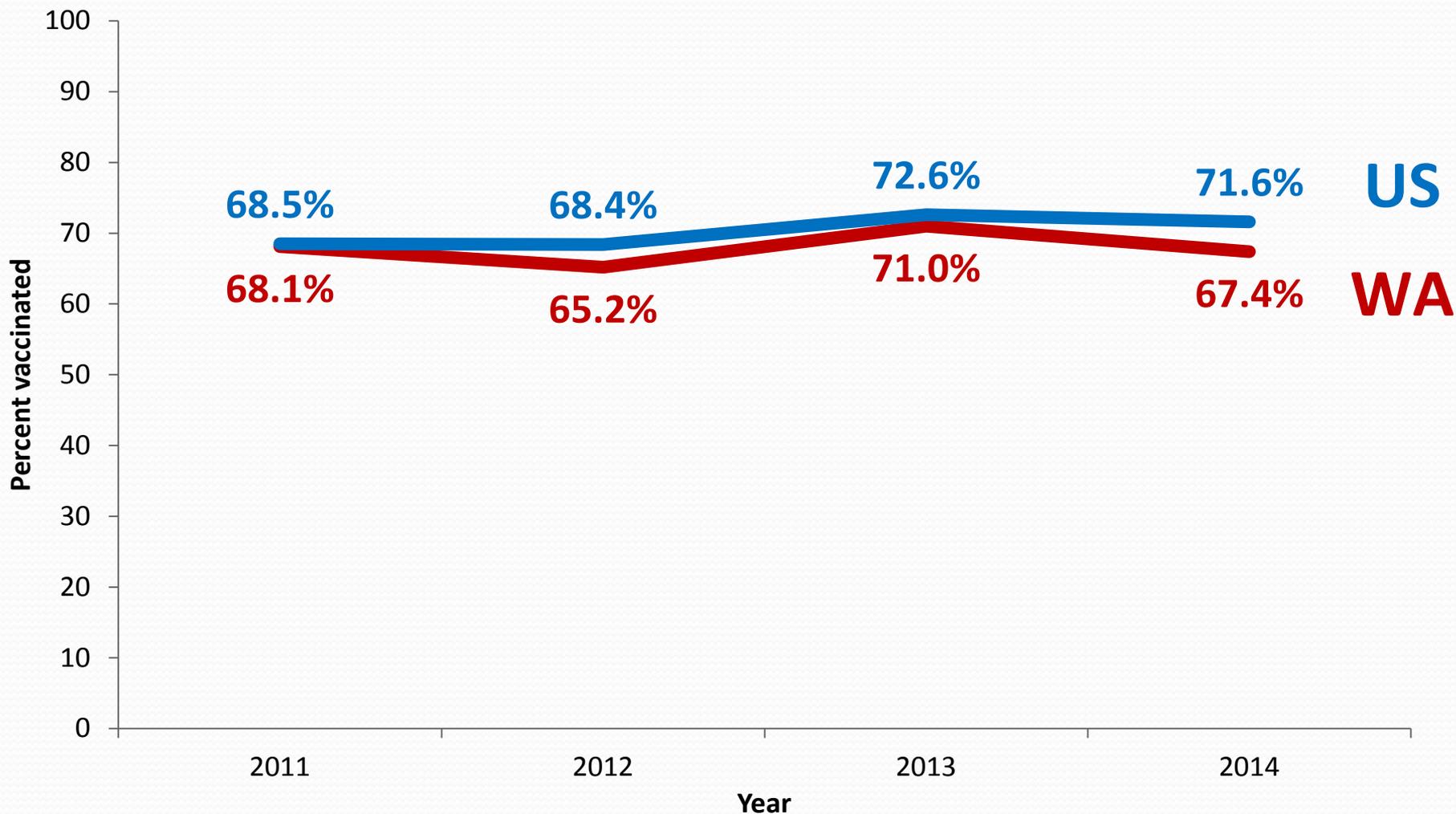
4:3:1:3:3:1:4 series completion by age in months



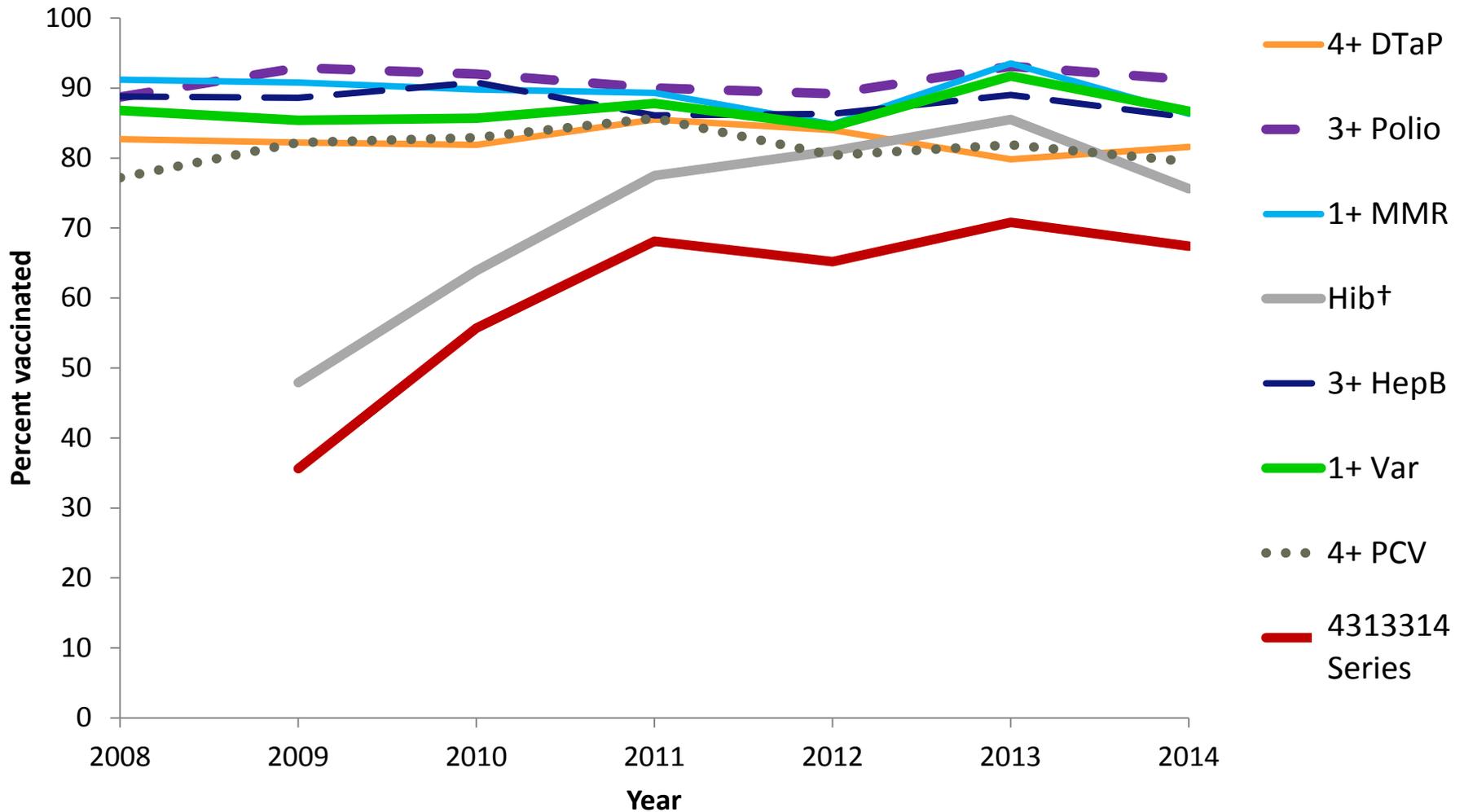
Data source: Washington Immunization Information System, coverage for the 4:3:1:3:3:1:4 immunization series.

National Immunization Survey (NIS) Data

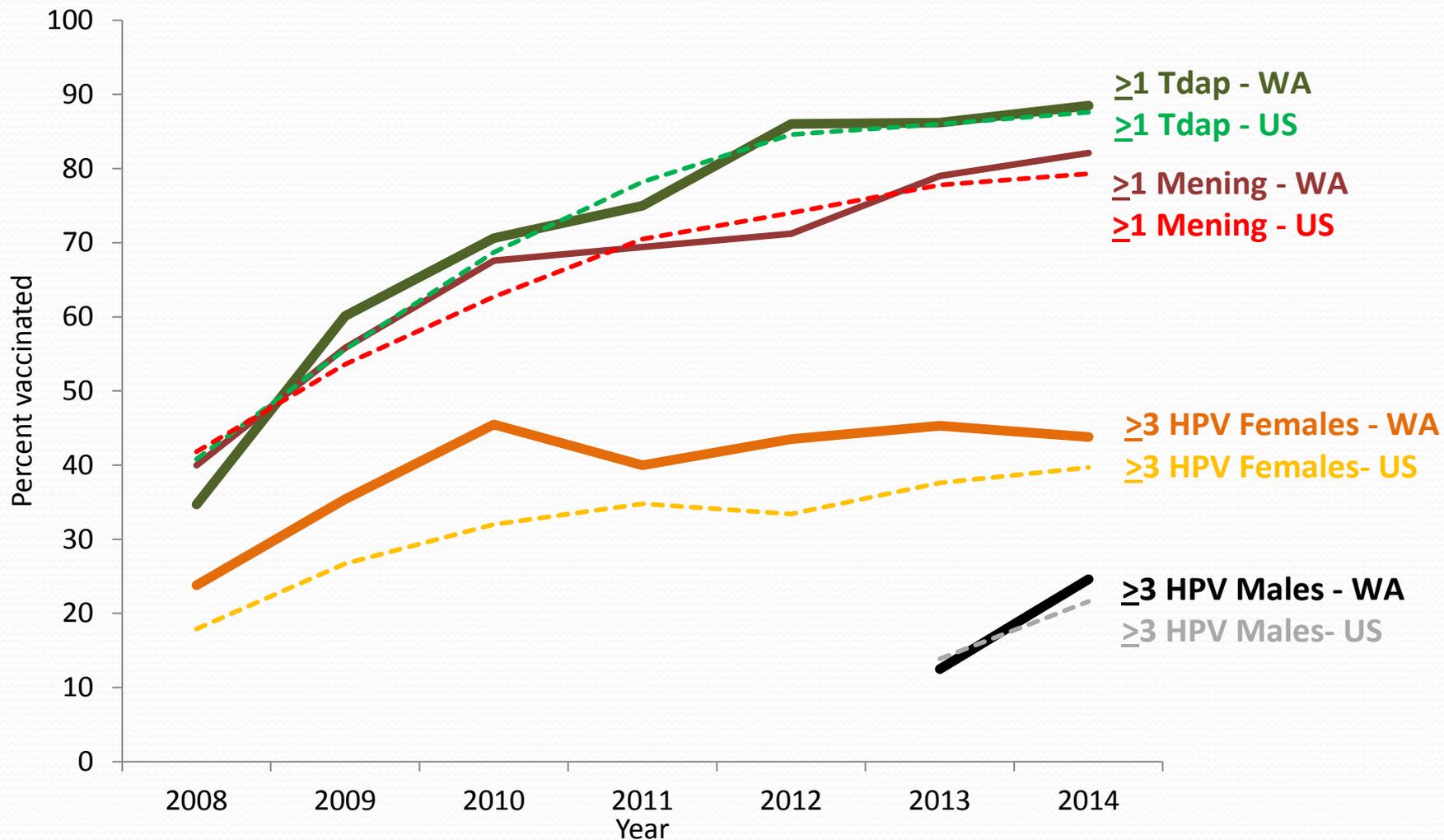
Immunization Coverage among 19 – 35 Month-olds 2011 - 2014



WA Trends in Childhood Immunization Coverage, 2008 - 2014

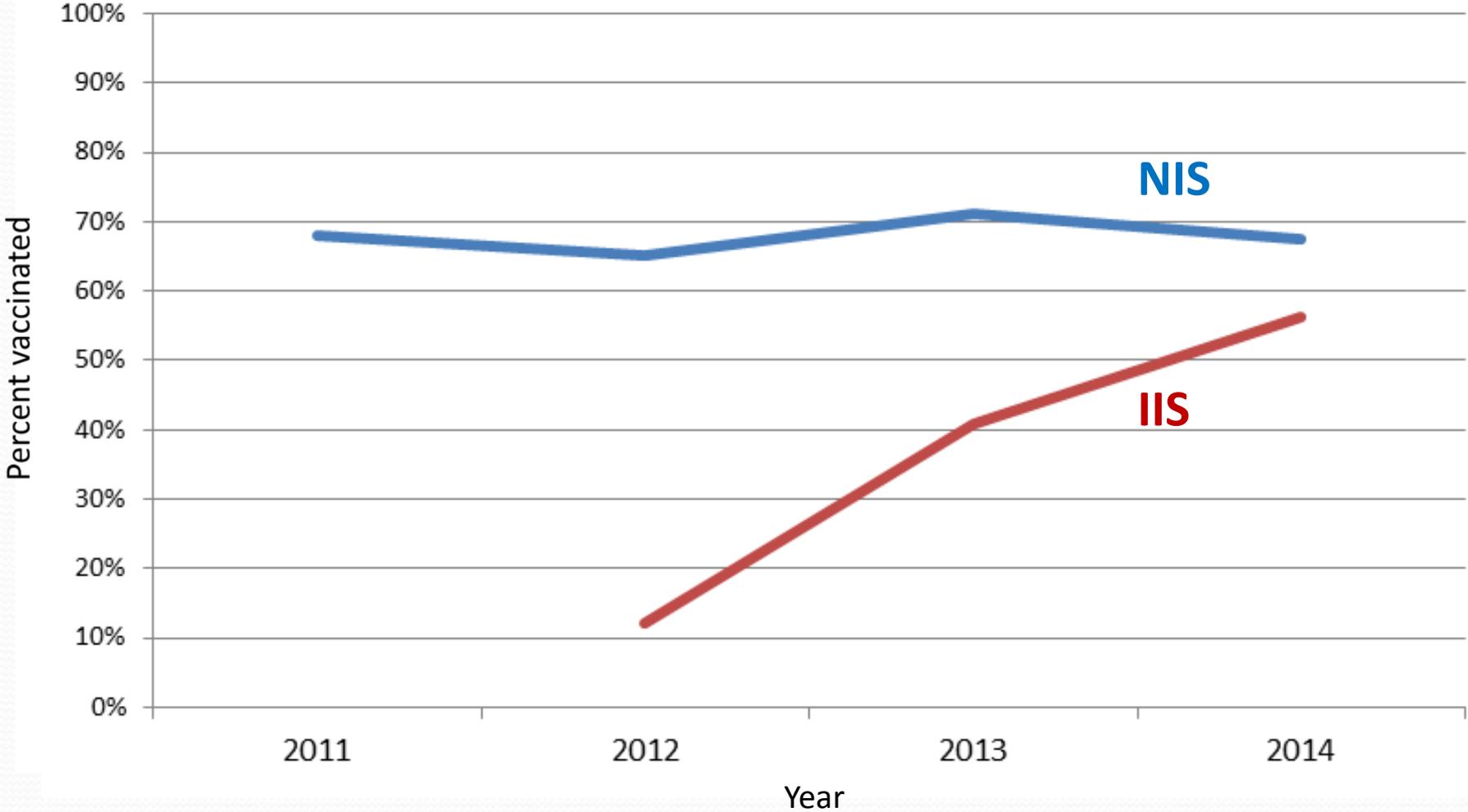


Adolescent Immunization Coverage, WA and US - 2008 - 2014



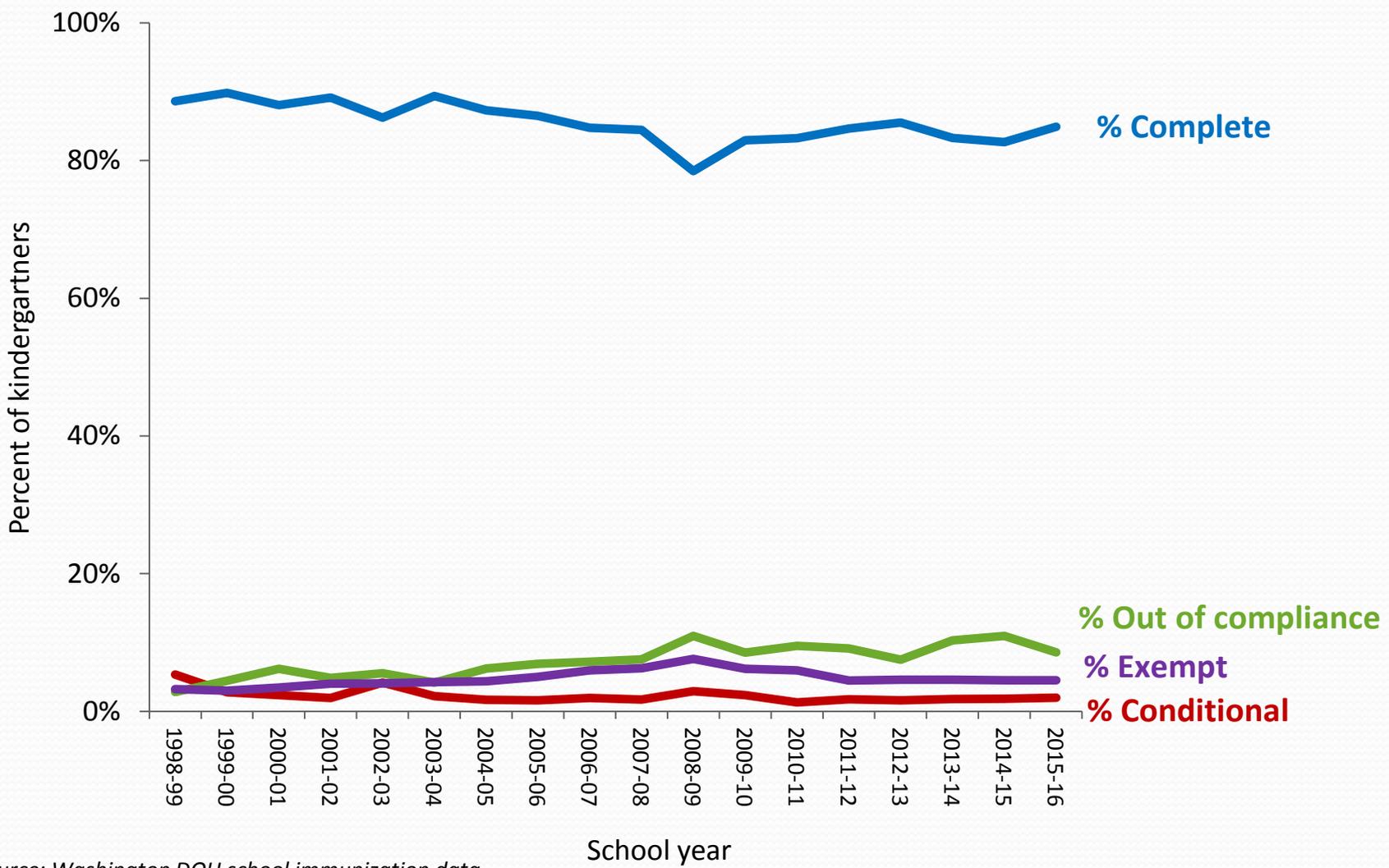
Data source: CDC, National Immunization Survey, 2008-2014.

Comparison of Childhood Vaccine Coverage from the NIS and IIS (4313314 among 19-35 month-olds)



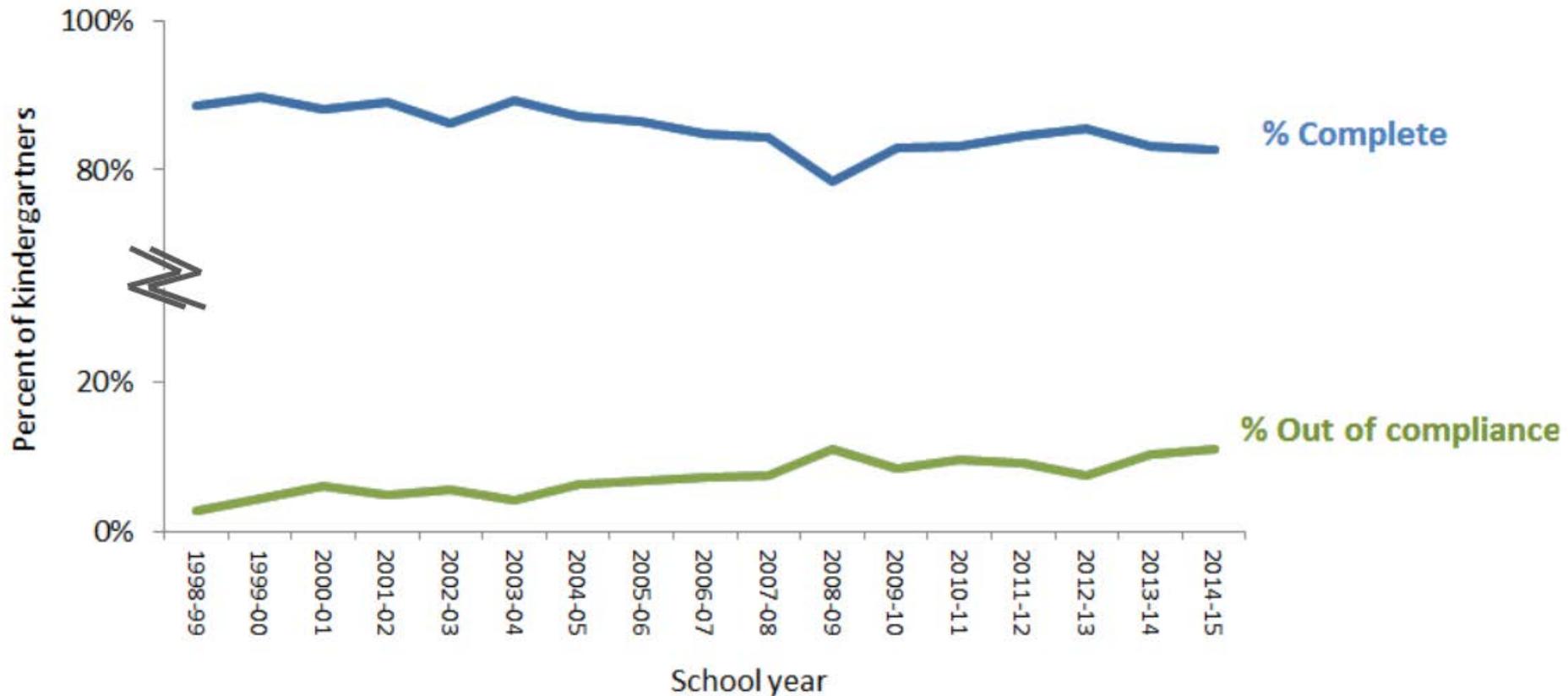
Data source: CDC, National Immunization Survey, 2011-2014; Washington Immunization Information System.

Immunization status of WA Kindergartners, 1998 - 2016

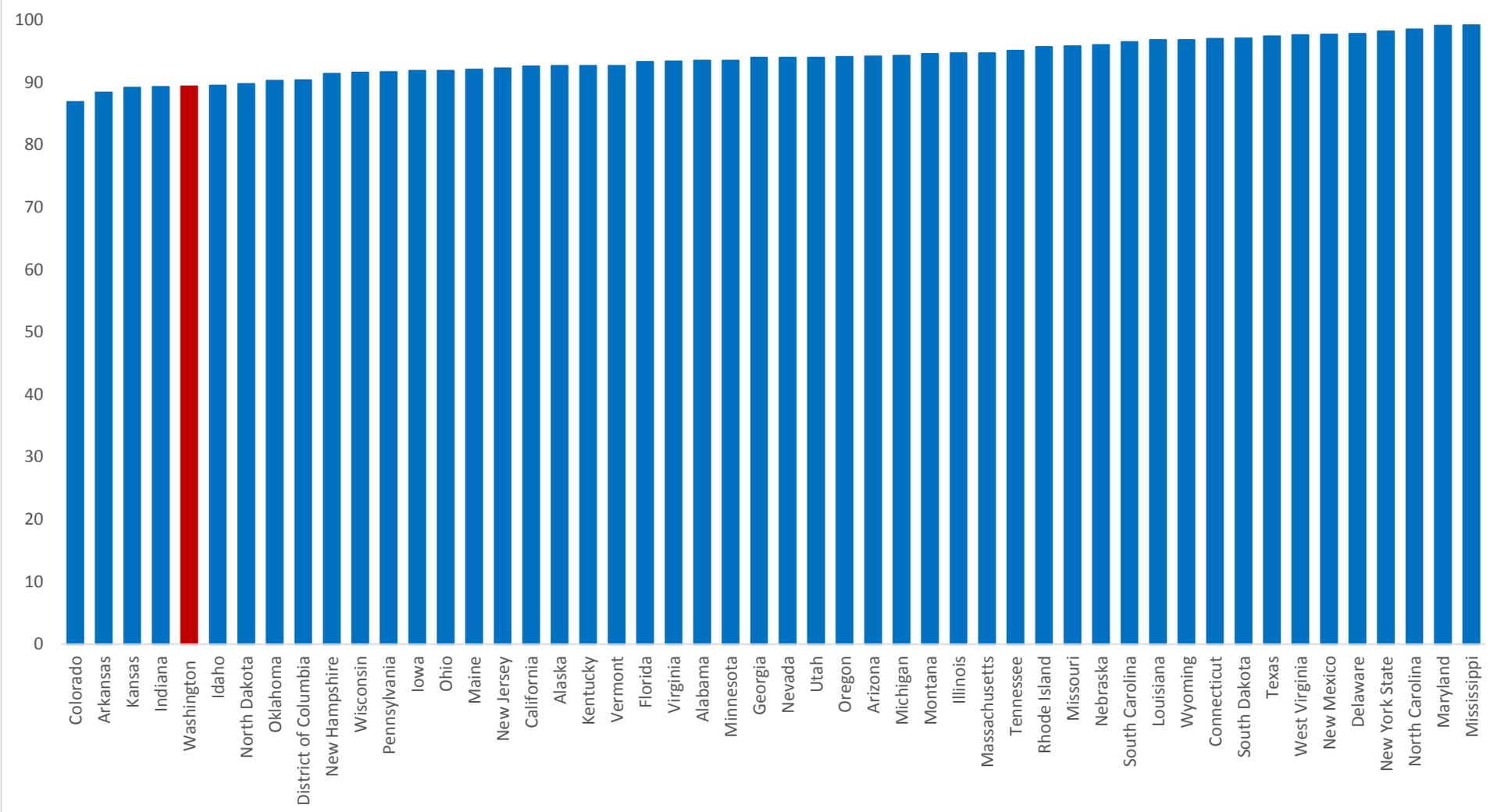


Data source: Washington DOH school immunization data.

Relationship between % Complete and % Out of Compliance WA, 1998 - 2016



Kindergarten MMR Coverage by State, 2014-15

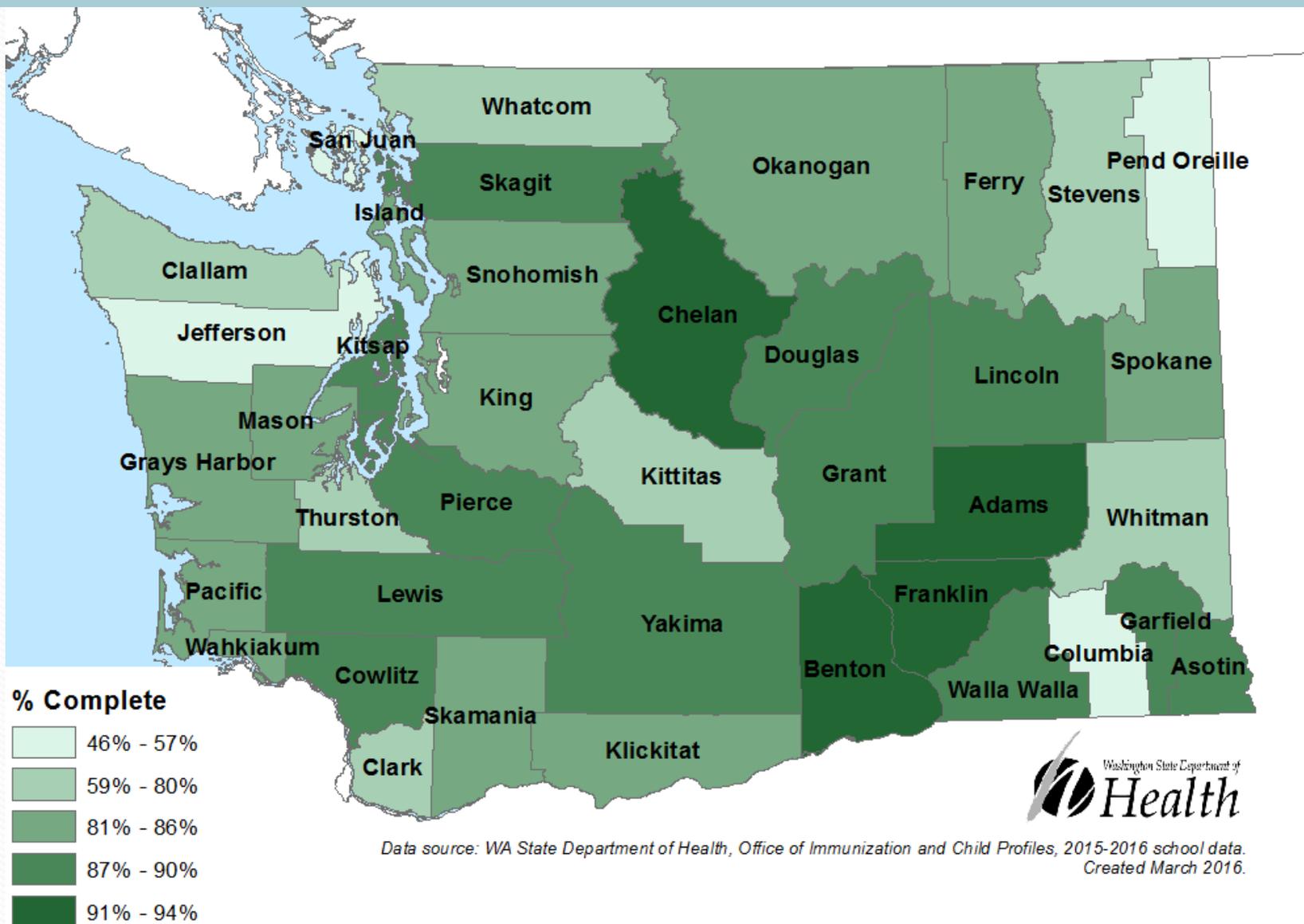


Washington = 89.4%

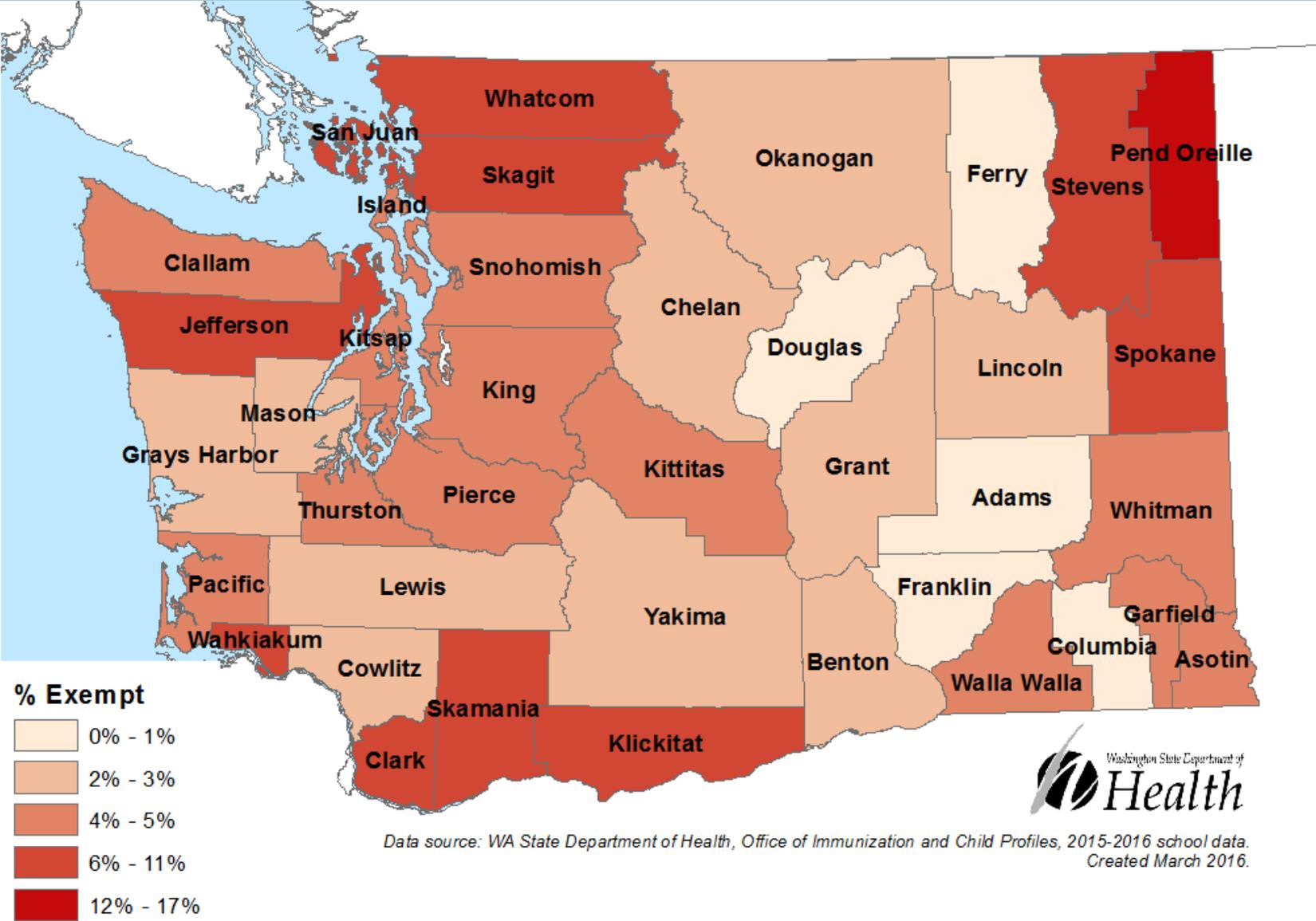
Data source: CDC school immunization data, 2014-15.

Washington State Department of Health

Kindergartners Complete for Required Immunizations by County



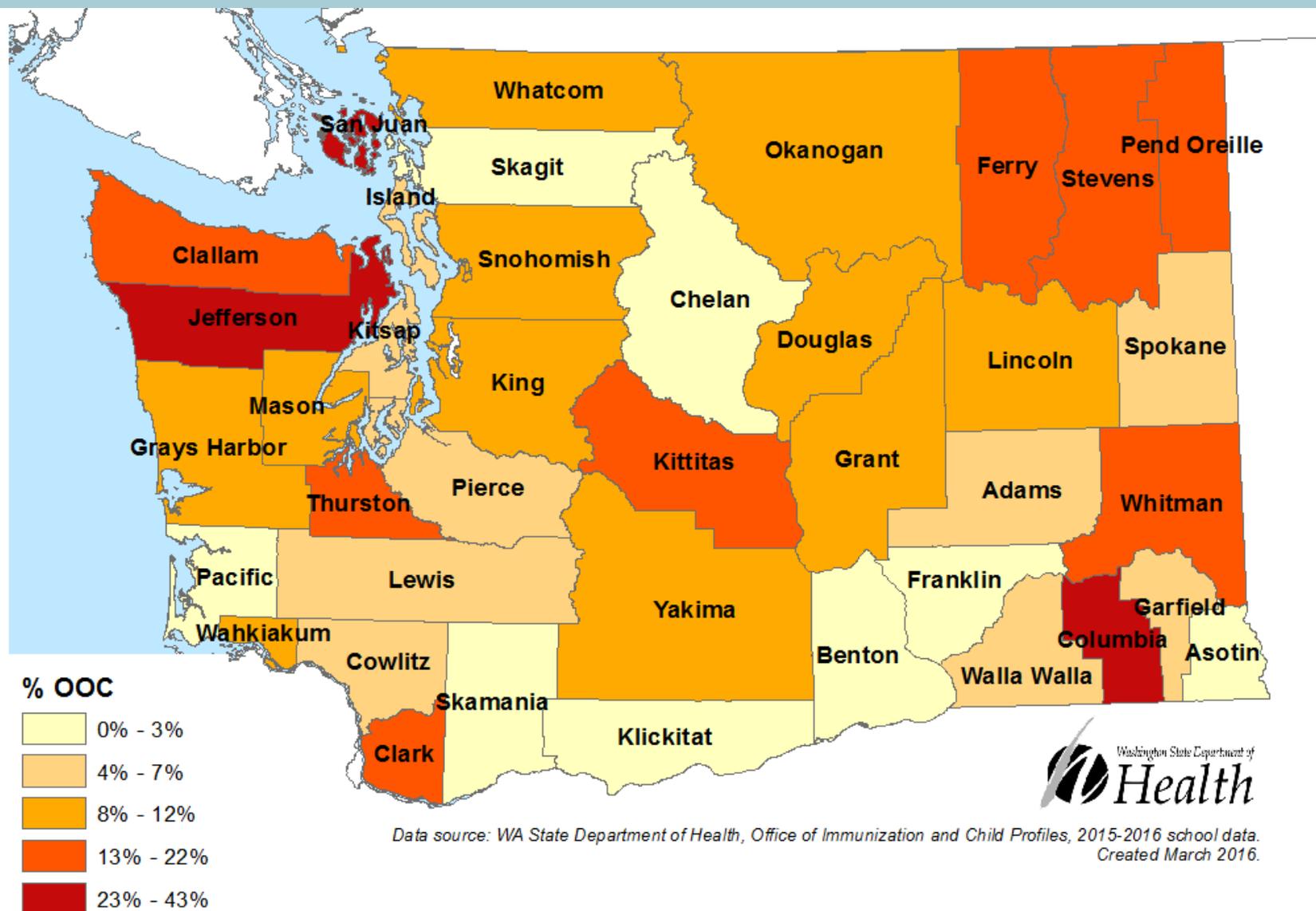
Kindergartners with School Immunization Exemptions by County



Data source: WA State Department of Health, Office of Immunization and Child Profiles, 2015-2016 school data. Created March 2016.



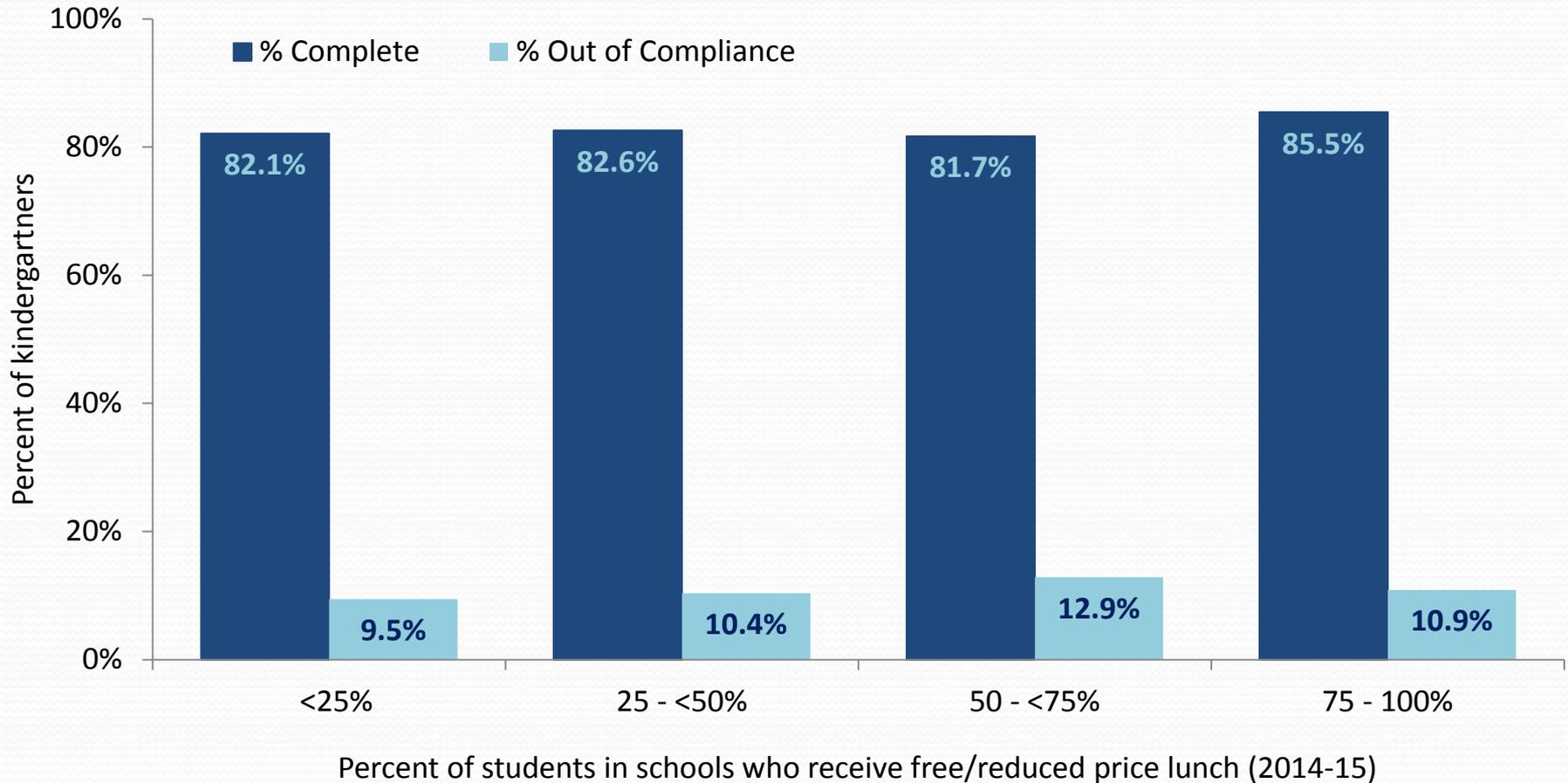
Kindergartners who are Out-of-Compliance (OOC) with School Immunization Requirements by County



Data source: WA State Department of Health, Office of Immunization and Child Profiles, 2015-2016 school data. Created March 2016.

WA Health Disparities and Student Immunization Status

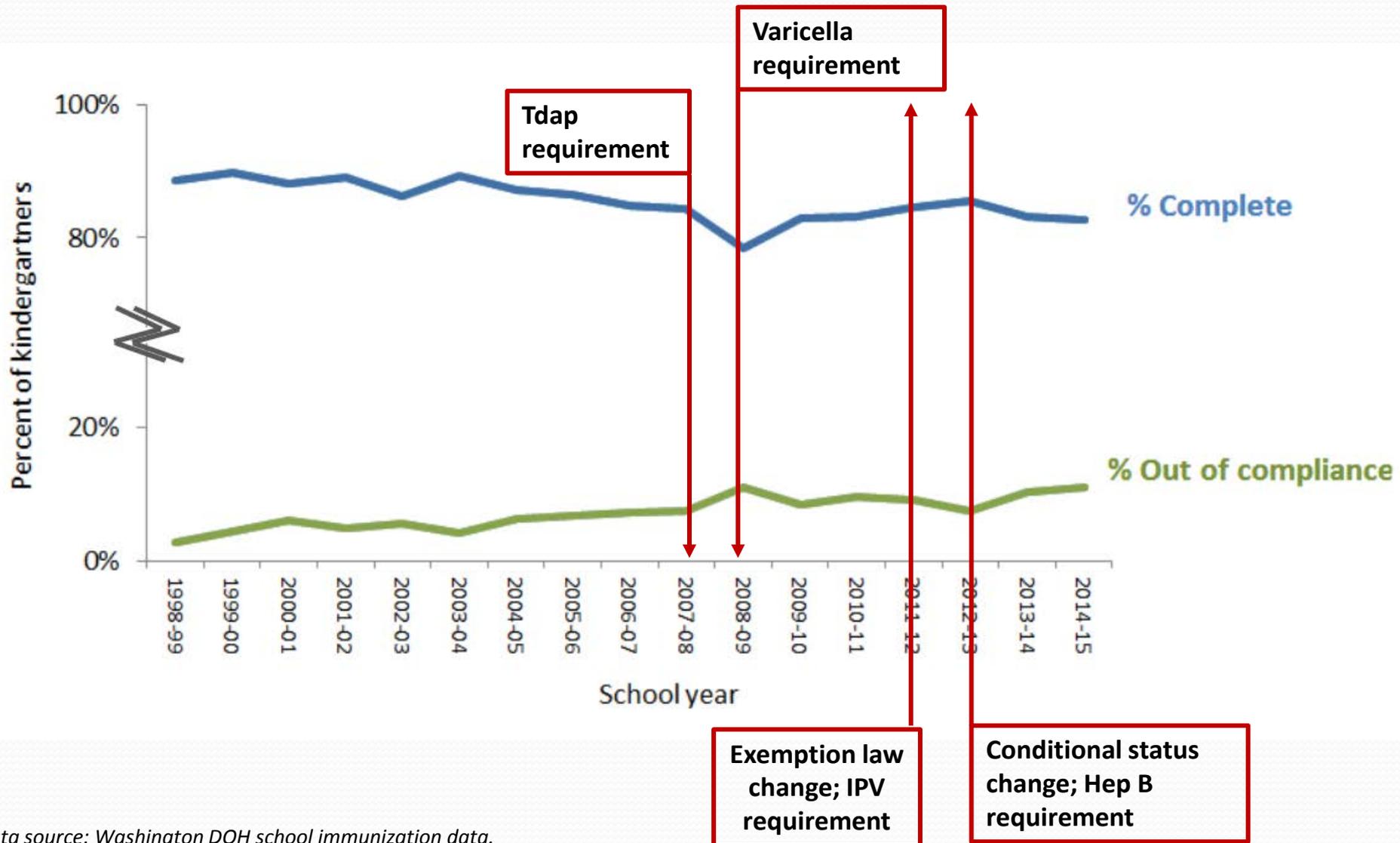
Kindergarten immunization coverage and compliance are not correlated with socioeconomic status. Coverage analyses using the percentage of students receiving free/reduced price lunch and the percentage of residents living in poverty in school ZIP codes show no correlation with kindergarten immunization status or the percent of kindergartners out of compliance with immunization requirements.



Factors Affecting School Immunization Coverage

- Access to immunization services
- Multiple student information systems
 - ✓ Each system programs its own algorithm to determine immunization status – can lead to inaccuracies
- Vaccine confidence
- Administrative burden for parents and schools
 - ✓ Following up with students who are conditional and out of compliance
 - ✓ Parents need to return immunization forms to school
- Many LHJs no longer administer immunizations
- Competing priorities
 - ✓ School nurses focus on student care plans and other health activities at the beginning of the school year

Changes in Immunization Laws and School Entry Requirements Affect School Immunization Coverage



Current Actions to Increase Rates

Enhance Access to Vaccination

- Universal access to vaccines for children
- WithinReach Family Health Hotline
- Pharmacies

Health Promotion

- Public media campaigns (Tdap for pregnant women, HPV, flu)
- Child Profile health promotion mailings
- Increase awareness of vaccine coverage rates (web page, ImmunizeWA, school report card)
- Immunity Community
 - ✓ Support VaxNW for vaccine hesitancy

Technology Support

- Train providers to use IIS data to target interventions
- Reminder/recall
- Immunize WA awards
- MyIR: public access to IIS records

Work with the SBOH

Current Work

- Update WAC 246-105-040 to reflect 2016 schedule.
- Review criteria for determining which vaccines should be added as school requirements.
- Convene stakeholders to review conditional status rules.

Future Work

- Review current parent and school reporting processes to determine whether law or rule changes might streamline the process.
- Child care immunization activities.
- Discuss online and homeschooled student immunization requirements.
- Consider adding immunization requirements for college entry/attendance.
- Consider changing Tdap requirement from 6th grade to 7th grade.

Immunization Information System: Immunization Validation Tool and School Module

Immunization Validation Tool




Certificate of Immunization Status (CIS)

DOH 348-013 January 2017

Office Use Only:
 Reviewed by: _____ Date: _____
 Signed Cert. of Exemption on file? Yes No

Child's Last Name: Kuss	First Name: Katelyn	Middle Initial: T.	Birthdate (mm/dd/yyyy): 08/14/2003	Sex: F
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I certify that the information provided on this form is correct and verifiable.

I give permission to my child's school to share immunization information with the Immunization Information System to help the school maintain my child's school record.

Parent/Guardian Signature Required _____	Parent/Guardian Signature Required _____
Date _____	Date _____

Vaccine	Date MM/DD/YY	Disease (YY)	Positive Titer (YY)	History (YY)					
Required Vaccines for School or Child Care Attendance									
Hib Child Care Only	10/23/2003	01/09/04	03/11/04	11/17/04					
PCV Child Care Only	10/23/03	01/09/04	03/11/04	11/17/04					
DTP, DTaP, DT, Td	10/23/2003	01/09/04	03/11/04	11/17/04	08/28/08				
Tdap	08/18/14								
Hepatitis B <input type="checkbox"/> Check here if 11-15 years, 2-dose schedule used	08/16/03	10/23/03	06/14/04						
Polio	10/23/2003	01/09/04	03/11/04	08/28/08					
Measles, Mumps, Rubella	11/17/04	10/03/05							
Varicella	11/17/04	08/28/08							
Recommended Vaccines									
Hepatitis A	10/03/05	12/22/06							
HPV	08/28/14	11/7/14	09/21/15						
Influenza	09/30/13	09/26/14	09/25/15						
Meningococcal	08/28/14								
Rotavirus									

Good to Go!

Assessment of Immunizations <input type="checkbox"/> A) Temporary Certificate – Expires _____ <input type="checkbox"/> B) Up to Date for Child Care Entry and <19 Months of Age <input type="checkbox"/> C) Complete for Child Care/Preschool <input type="checkbox"/> D) Complete for K-6 th Grade <input checked="" type="checkbox"/> E) Complete for 7 th -12 th Grade	Printed or stamped name, address, phone of qualified healthcare provider (MD, DO, PA, ARNP or Health Department): _____ Validated by the WA State Immunization Information System Certified by (Signature/Stamp or WAIS) _____ Date of Issue _____
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Report is Generated Showing which Vaccines Failed

Washington Immunization Information System (IIS)
 Official Immunization Certificate Automated Validation Assessment
 [FAIL]

Complete 6th-12th Grade

Name of Student: Katelyn Kuss	DOB:	Report Date:	Summary Result:
12 Years Old	8/14/03	9/29/15	FAIL

Vaccine Type	Required Doses	Doses Recorded in IIS	Valid Doses	Reason for Invalid Doses		
				Min. Age	Min. Interval	
<u>DTaP/DT/Td</u> [Failed]	5	10/23/2003	1			
		01/09/04	2			
		03/11/04	3			
		06/14/04				X
<u>Tdap</u> [Failed]	1					
IPV [Failed]	4	10/23/03	1			
		01/09/04	2			

School Module



WASHINGTON STATE
IMMUNIZATION
INFORMATION SYSTEM

Logged in: TRANG KUSS

Organization (IRMS): NORTSHORE SCHOOL DISTRICT (1943)

Date: January 5, 2016

- Main**
- Home
- Logout
- Select School
- Document Center
- Patient**
- Search/Add
- Demographics
- Remote Registry
- Vaccinations**
- View/Add
- Forecast
- Summary
- Settings**
- Schools**
- Edit Schools
- Roster
- Absenteeism
- Reports**
- Scheduled Reports**
- Change Password
- Answers
- Contact Us

Patient

Name:	TEST STUDENT	SIIS Patient ID:	6183367
Date of Birth:	04/02/2007	Age:	8 yrs
Guardian:	GUARDIAN	Status:	Active

Vaccination Summary

Vaccinations outside the ACIP schedule are marked with an 'X'.

Vaccine	1	2	3	4	5	6	7	8
DTaP/DTP/Td	06/02/2007 8 weeks	08/02/2007 4 months	04/03/2011 4 years					
OPV/IPV	06/02/2007 8 weeks	08/02/2007 4 months	04/03/2011 4 years					
MMR	04/01/2008 11 months	04/03/2011 4 years						
Hep B - 3 Dose	04/02/2007 0 days	08/02/2007 4 months	04/03/2011 4 years					
Varicella	04/01/2008 11 months	04/03/2011 4 years						

Invalid Vaccinations

Invalid Vaccinations	Date	Reason

Vaccine Deferrals

Vaccine	Dose	Date

Vaccine Contraindications / Exemptions / Precautions

- [↓ Contraindications](#)
- [↓ Exemptions](#)
- [↓ Precautions](#)

Vaccination Forecast

The forecast automatically switches to the accelerated schedule when a patient is behind schedule.

Vaccine Family	Dose	Recommended Date	Minimum Valid Date	Overdue Date	Status
Tdap	4	04/02/2014	04/02/2014	05/02/2014	Past Due



iWeb

Version: 5.15.8.2.1



STC

School Module Parent Letters and Reports

Action Report

To:
The Parent/Guardian of

Parent Letter

Vaccine Family	Dose	Recommended Date	Minimum Valid Date	Status
DTaP/DTTd	5	04/10/2012	04/10/2012	Due Now
POLIO	4	04/10/2012	04/10/2012	Up To Date

Dear Parent or Guardian:

Washington State law requires all children to be properly immunized to attend or continue attending school. According to our records above, your child did not get the required vaccinations to attend school.

Please ask your child's healthcare provider to give the required vaccination(s) and enter the information into the state immunization registry. If you have an immunization record from your healthcare provider, we can enter the immunizations into the state immunization registry with your consent.

Skipping vaccinations or missing vaccine doses makes it more likely that your child can get sick or give an illness to someone else.

In Washington, all children 18-years old or younger may get vaccines at low or no cost from their health care provider or county health department. Providers may charge an office visit fee and a fee to give the vaccine, called an administration fee. If you cannot pay the administration fee, ask your provider to waive the cost.

Please provide the date(s) of the missing immunizations to the school by _____ . If we don't get the information by this date, your child will not be allowed to attend school.

More information about Washington State vaccine requirements can be found at the Washington State Department of Health website:
www.doh.wa.gov/CommunityandEnvironment/Schools/Immunization/VaccineRequirements.aspx

Please call us right away for help or more information. Thank you for your prompt response!

School Nurse Action Report

School: _____ Report Date: March 4, 2015
 Grades: Kindergarten, 1st Grade, 2nd Grade, 3rd Grade, 4th Grade, 5th Grade, 6th Grade
 Series Name: SY2014-15 GRADE K-3
 Legend: DTaP/Td : TDAP : OPV/IPV : MMR : IIBV : VAR
 5 : 0 : 4 : 2 : 3 : 2

Student:		Guardian:	
SIIS ID:	4293930	Date of Birth:	10/27/2005
Grade Level:	3rd Grade	Home Phone:	(509)230-6903
Physician Name:		Physician Phone:	
Exempt :		Record Found:	Y

Vaccine Family	Dose	Recommended Date	Minimum Valid Date	Status	Temp Exemption Exp Date
VARICELLA	2nd	11/02/2010	11/02/2010	Out of Compliance	

Student:		Guardian:	
SIIS ID:	5090290	Date of Birth:	06/11/2007
Grade Level:	2nd Grade	Home Phone:	(509)230-6903
Physician Name:		Physician Phone:	
Exempt :		Record Found:	Y

Vaccine Family	Dose	Recommended Date	Minimum Valid Date	Status	Temp Exemption Exp Date
VARICELLA	1st	03/15/2012	03/15/2012	Out of Compliance	

Student:		Guardian:	
SIIS ID:	899076	Date of Birth:	03/18/2003
Grade Level:	6th Grade	Home Phone:	(509)953-2369
Physician Name:		Physician Phone:	
Exempt :		Record Found:	Y

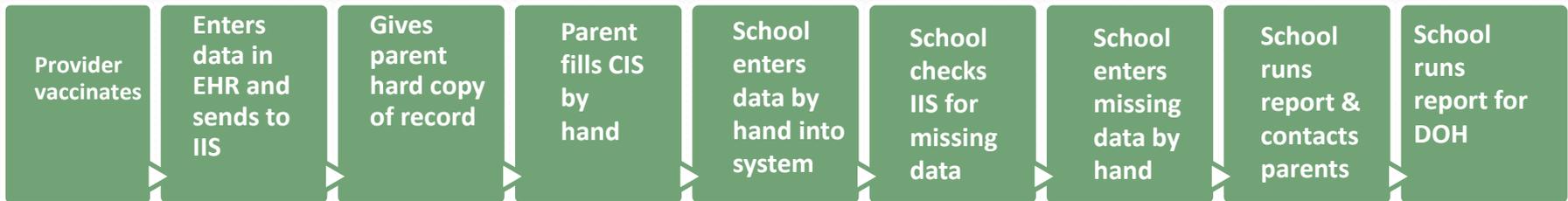
Vaccine Family	Dose	Recommended Date	Minimum Valid Date	Status	Temp Exemption Exp Date
MMR	2nd	05/19/2008	05/19/2008	Out of Compliance	

Student:		Guardian:	
SIIS ID:	8191455	Date of Birth:	08/15/2008
Grade Level:	1st Grade	Home Phone:	(509)988-0535
Physician Name:		Physician Phone:	
Exempt :		Record Found:	N

Vaccine Family	Dose	Recommended Date	Minimum Valid Date	Status	Temp Exemption Exp Date
DTaP/DTTd	1st	10/15/2008	09/26/2008	Out of Compliance	
POLIO	1st	10/15/2008	09/26/2008	Out of Compliance	
HEP-B 3 DOSE	1st	08/15/2008	08/15/2008	Out of Compliance	
MMR	1st	08/15/2009	08/15/2009	Out of Compliance	
VARICELLA	1st	08/15/2009	08/15/2009	Out of Compliance	

School Module Increases Reporting Efficiency and Accuracy

Current process: 9 steps, multiple handoffs, data copied 3+ times



With School Module in place: 5 steps, no manual data entry and hand copying of data



Questions?

Provider
Vaccines

Entity
data
EHR and
standards
US

Certified
leveraged
by parent
provider
or school

School
uses
module
to follow
up

Roll
user
module
for
login

