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# HAIAC

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Acute and Communicable Disease Prevention Program

Wednesday, December 14<sup>th</sup>, 2016

The logo for the Oregon Health Authority is displayed within a light blue curved banner. It features the word "Oregon" in a small serif font above the word "Health" in a large serif font, with the word "Authority" in a smaller serif font below "Health".

Oregon  
Health  
Authority

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# Outbreaks since 9/15/2016

Etiology	Count	Setting
Norovirus	14	<b>LTCF (9), Hospital (1), School (3), Other* (1)</b>
Gastroenteritis		
<i>Clostridium difficile</i>	1	<b>LTCF (1)</b>
<i>Salmonella</i>	2	Private home (1), Unknown (1)
E. coli O157	1	Foodborne? (1)
Cryptosporidium	1	Pool
Rotavirus	1	<b>LTCF (1)</b>
Sapovirus	1	Other (1)
unknown	25	<b>LTCF (11), School (5), Camp (2) Restaurant (3), Other (3)</b>
Respiratory		
Influenza A	4	<b>LTCF (3), Community wide (1)</b>
Pertussis	3	School (2), <b>Outpatient clinic(1)</b>
Mumps	1	Community wide
Strep pyogenes	1	School (1)
Unknown	1	<b>LTCF (1)</b>
Rash	3	DCC (3)
Other	3	School (2), Other* (1)
<b>Total</b>	<b>63</b>	

Act  
Ore

2 \*Other includes: private home, reception facility, work place

Authority

## Healthcare associated outbreaks, 9/15/2016-10/9/2016

- Healthcare associated infections account for 39% (n=24) of all outbreaks from September to December
- Most common etiology was norovirus and noro-like outbreaks
- Start of the Influenza season
  - 3 outbreaks during this time
  - All influenza A

Facility type	Norovirus	C. difficile	unknown-GI	unknown-respiratory	Influenza A	Rotavirus
Memory Care	4	0	1	0	0	0
Assisted Living Facility	1	1	5	1	2	0
Skilled Nursing Facility	1	0	2	0	1	1
SNF/Residential Care	3	0	1	0	0	0
Total	9	1	9	1	3	1

# Outbreak of note

- Community wide mumps outbreak
  - Increased number of calls regarding mumps since October
  - In total, 24 suspect, confirmed or presumptive cases have been reported since beginning of September
- Case Definitions:
  - Confirmed: Positive RT-PCR or culture in a patient with any of the following:
    - acute parotitis or salivary gland swelling for at least 2 days,
    - aseptic meningitis,
    - encephalitis,
    - hearing loss,
    - mastitis,
    - oophoritis,
    - orchitis,
    - pancreatitis
  - Presumptive: acute parotitis or other salivary gland swelling lasting at least 2 days, or orchitis or oophoritis unexplained by another diagnosis
    - in a person with positive serum anti-mumps IgM antibody or
    - epidemiologic linkage to another case or outbreak
  - Suspect: Acute parotitis, acute salivary gland swelling, orchitis or oophoritis OR positive lab with no clinical symptoms

# Thank You

<http://public.health.oregon.gov>

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# Re-baselining in NHSN

Roza Tammer, MPH, CIC  
HAI Reporting Epidemiologist, HAI Program

HAI Advisory Committee Meeting  
December 14, 2016

The logo for the Oregon Health Authority. It features the word "Oregon" in a small, white, serif font, positioned above the word "Health". "Health" is in a large, white, serif font. Below "Health" is the word "Authority" in a smaller, white, serif font. The entire logo is set against a dark blue background with a lighter blue curved shape behind it.

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# The SIR and National SIR Baseline

- The standardized infection ratio (SIR) is a statistical measure comparing observed and predicted healthcare-associated infections (HAI)

$$\text{SIR} = \frac{\text{Observed}}{\text{Predicted}}$$

- Observed HAI
  - The number of infections we observe in our facility and report into NHSN during a certain time period
- Predicted HAI
  - The number calculated based on the national SIR baseline
- National SIR baseline
  - An HAI incidence rate for a referent time period
  - In other words, how many HAI occurred and were reported into NHSN **nationally** during a certain time period

# Current National SIR Baselines

HAI Type	Referent Period
CLABSI	Jan 2006 – Dec 2008 (ACH) Jan 2013 – Dec 2013 (LTACH)
CAUTI	Jan 2009 – Dec 2009 (ACH) Jan 2013 – Dec 2013 (LTACH)
SSI	Jan 2006 – Dec 2008
MRSA bacteremia	Jan 2010 – Dec 2011
C. difficile infection	Jan 2010 – Dec 2011



# Why Re-baseline?

- Generally, to account for changes in NHSN since the original baselines were created
  - More facilities reporting data to NHSN
  - Changing demographics of facilities reporting data to NHSN
  - Increase in number and types of locations reporting device-associated data to NHSN
  - Greater volume of procedures reported each year
  - Introduction and increased use of CDA
  - Increase in number of partners using the NHSN Group function
  - But also...

# Why Re-baseline?

- Significant definition and protocol changes
  - Removal of selected event types
  - Changes in device-day data collection methods
  - VAE replaced VAP for adults
  - Changes to CAUTI definition
  - New events introduced
  - Introduction and refinement of definitions for identifying HAIs
  - Additional locations added to FACWIDEIN surveillance
  - Additional information required for procedures

# Benefits of Re-baselining

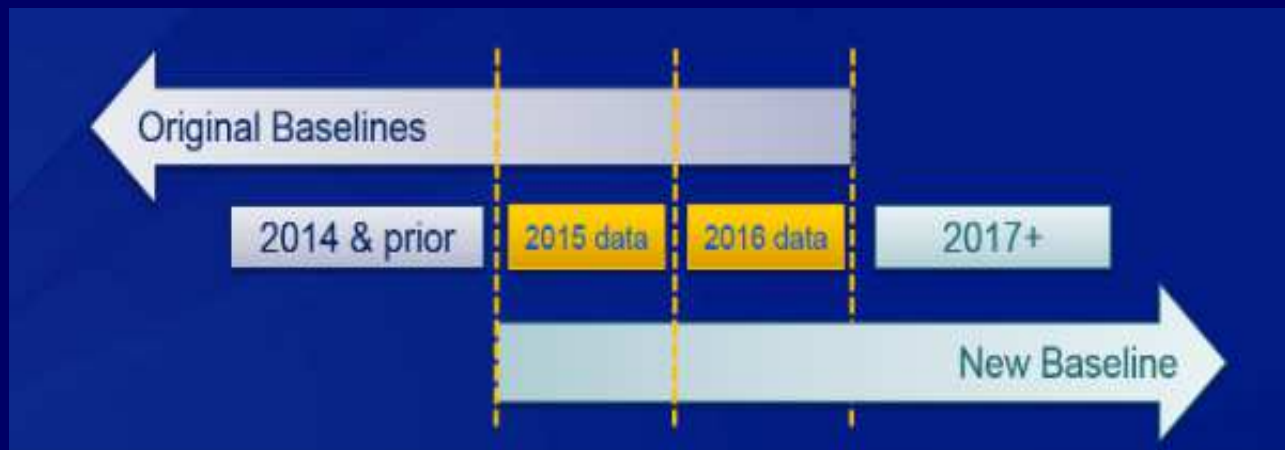
- New baselines account for 2015's major changes to HAI definitions and criteria
- A single referent (time) period resulting in more consistent methods for calculating predicted infections
- Using 2015 data allows NHSN to create an updated risk modeling strategy
- Re-baselining will make more SIR analysis output options available in NHSN
- Potentially changing the minimum precision criteria increases the scope of prevention activities

# Scope of the Re-baselining Project

- Update HAI risk models for current SIR output options
- Develop new risk-adjustment methods for CLABSI, CAUTI, and VAE data
- Introduce SIR output options for LabID events for LTACHs and IRFs
- Assess potential impact of new baseline on trends in HAI data
- Add new SIR output options into the NHSN application
- Potentially lower minimum precision criterion

# Impact of Re-baselining

- Data reported to NHSN for 2015 will be used as the new baseline for future SIRs
- Risk adjustment methods and risk models may vary from those generated using original baselines
- All new risk models will be implemented into the NHSN application in the form of new SIRs
- NHSN users with data analysis rights will have access to SIR outputs using both the new and old baselines, depending on time period



# Timeline for Re-baselining

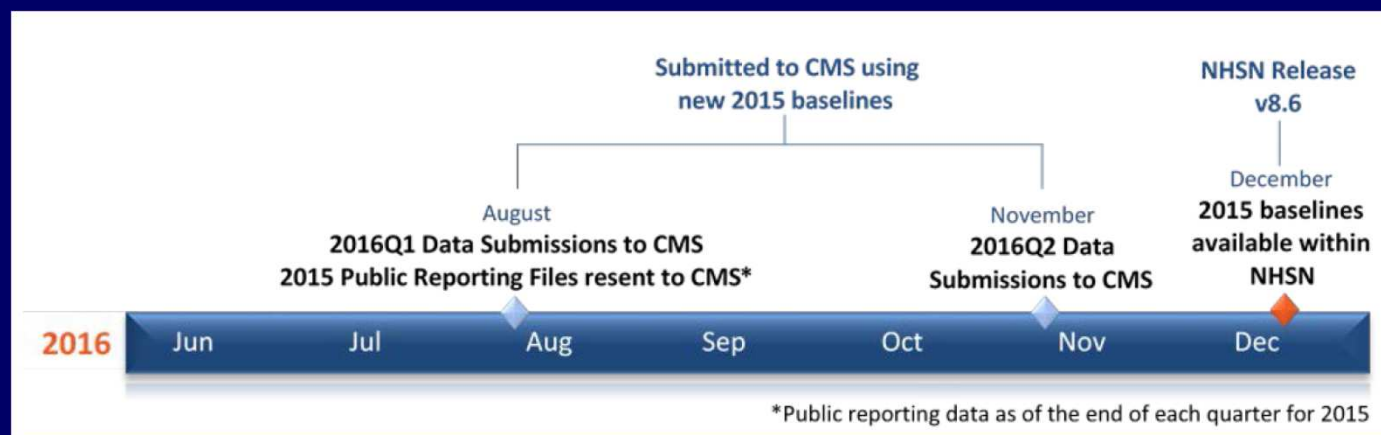
- Completed and ongoing tasks
  - Data quality checks
  - Preliminary analyses
  - Developing final analyses and risk adjustment
  - Validating final models
  - Developing new reports in NHSN application
  - Documentation will be revisited and updated as necessary
  - Education (newsletters, new quick reference guides, webinars)
- Coming soon...
  - December 10, 2016: Scheduled release of NHSN v 8.6, including all new SIRs using 2015 baseline and risk models

# Summary of New Measures

- SIR for critical access hospitals separate from acute care hospitals
- MBI SIR
- VAE SIR
  - Total VAE
  - IVAC Plus
- Pediatric SSI SIR
- MRSA and CDI LabID SIR for LTACH and IRF
- Standard Utilization Ratios (SUR) for all device types

# Implications of Re-baselining for CMS Reporting

- Quality Reporting programs
  - Q1 and Q2 of 2016 data submitted using the new 2015 baseline
  - CY 2015 public reporting files re-sent using new 2015 baseline in August 2016





# Implications of Re-baselining for CMS Reporting

- Value-Based Purchasing programs
  - FY2017 and FY2018 Program Years will use original NHSN baselines
  - FY2019 and later years of data will use the new 2015 NHSN baselines

CDC'S STANDARD POPULATION DATA IN THE HOSPITAL VBP PROGRAM

	FY 2017 Program year *	FY 2018 Program year *	FY 2019 Program year **	FY 2020 Program year **
NHSN Measures Baseline Periods.	Current standard population data.	Current standard population data.	New standard population data.	New standard population data
NHSN Measures Performance Periods.	Current standard population data.	Current standard population data.	New standard population data.	New standard population data

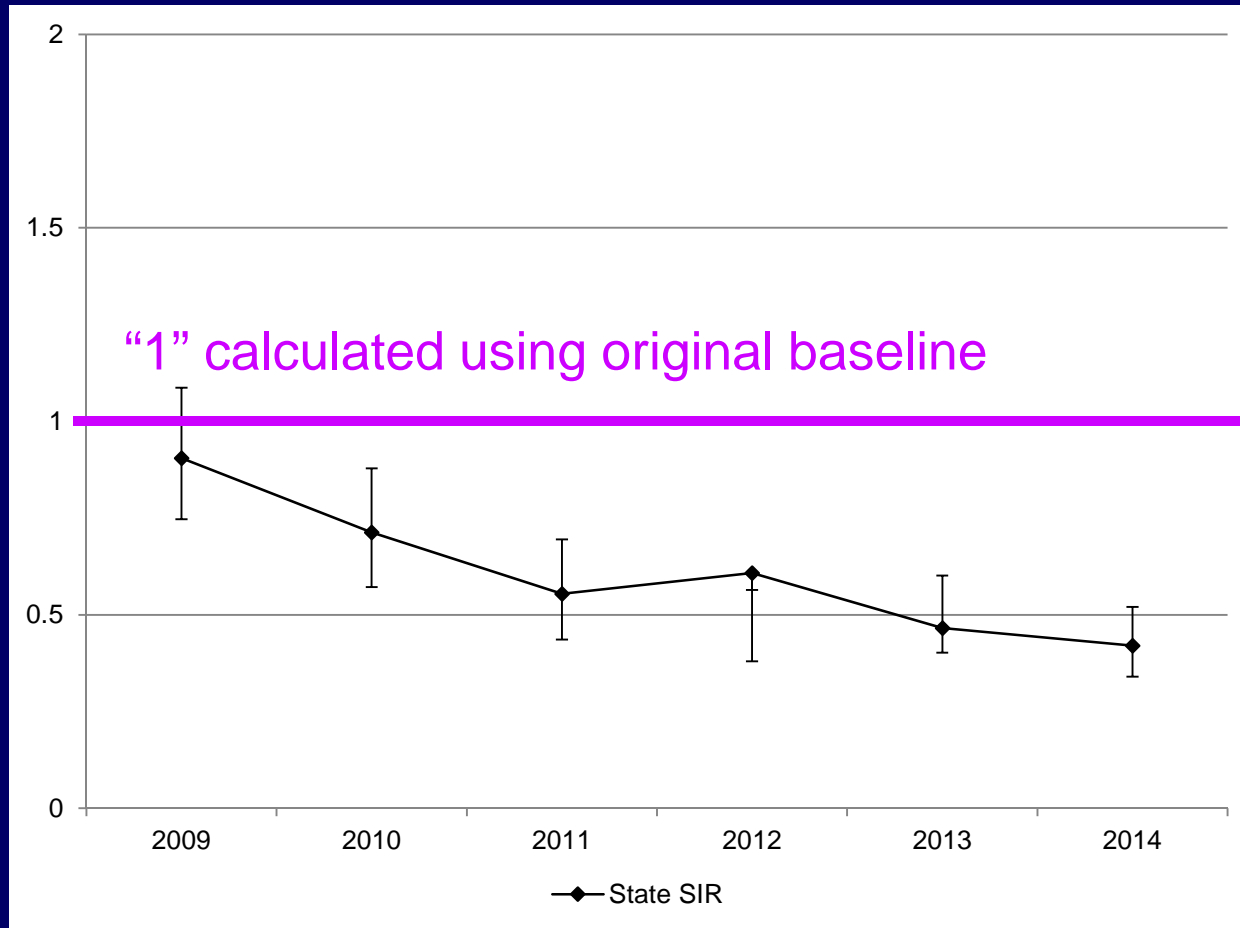
\* CDC will use "current standard population data" to calculate measure data that we will translate into scores on the measures.

\*\* CDC will use "new standard population data" (CY 2015) to calculate measure data that we will translate into scores on the measures.

# Statistical Implications for the SIR

- The 2015 baseline is a new “starting/referent point” from which to measure future progress
- Therefore, SIRs will shift closer to 1, particularly for the 2015 SIRs calculated with the 2015 baseline
- What will this look like?

# Example: Impact on the SIR

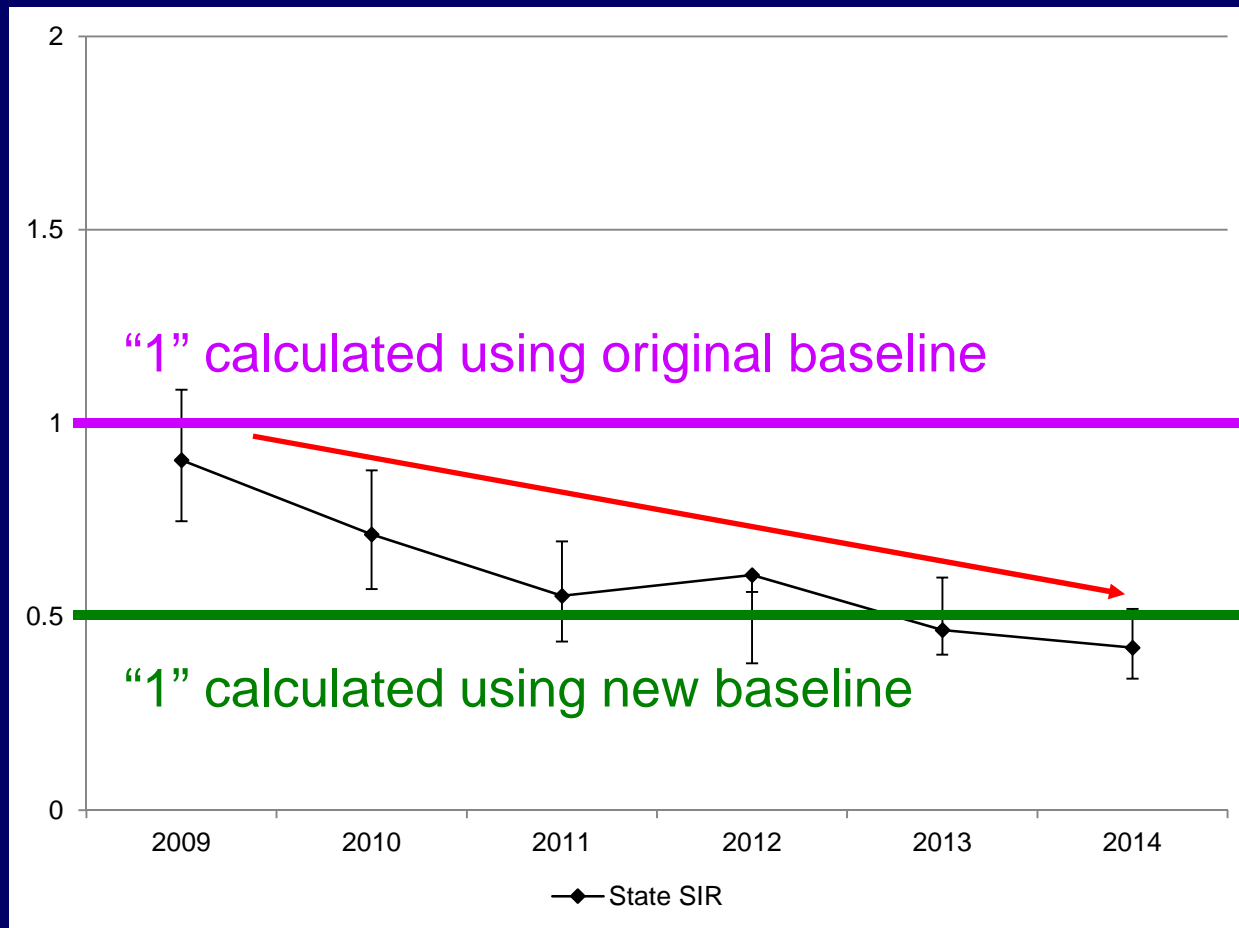


$\frac{\text{Observed} = 250}{\text{Predicted} = 250}$

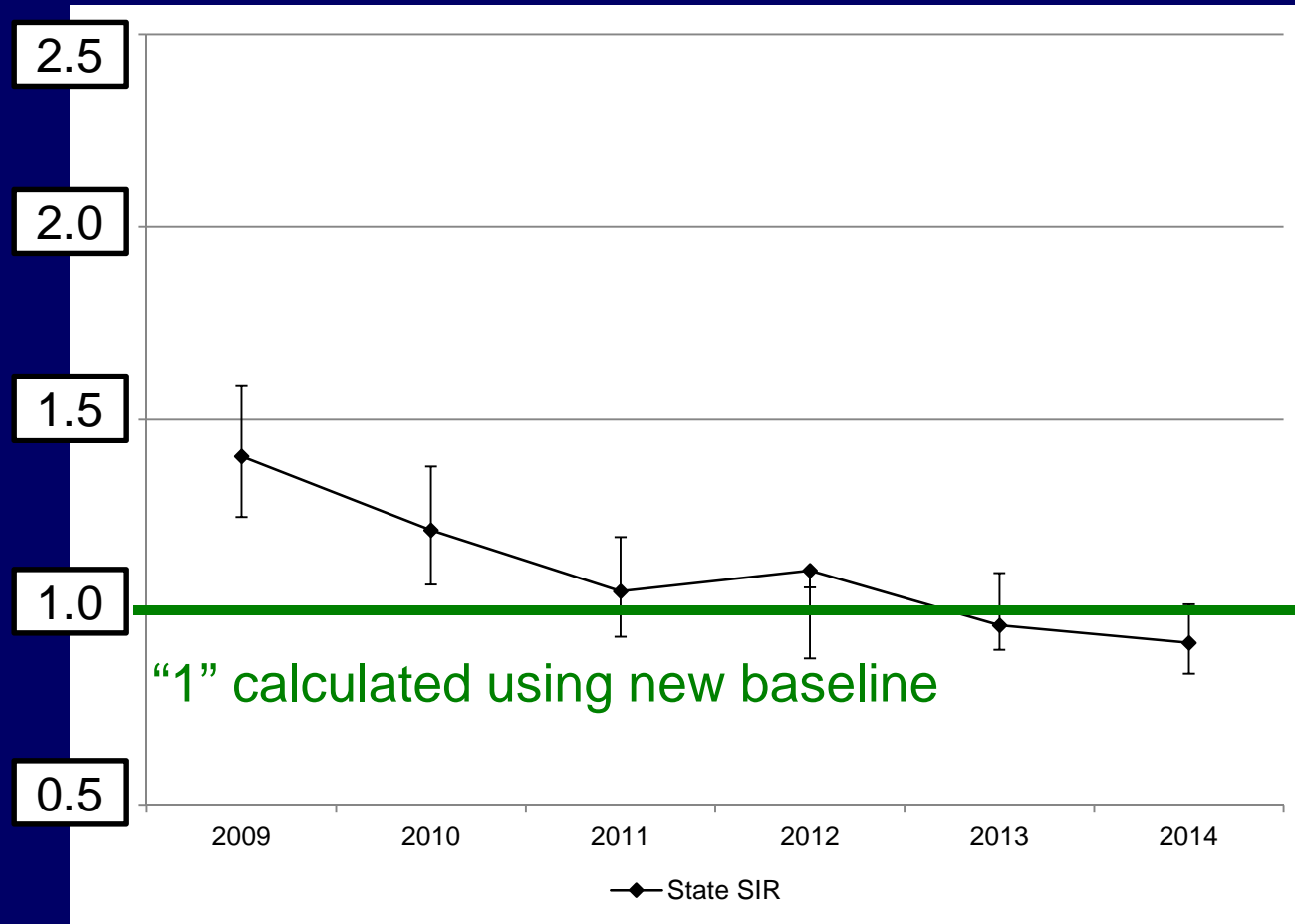
$250/250 = 1$

$\text{SIR} = 1$

# Example: Impact on the SIR



# Example: Impact on the SIR



# Resources for More Information

- CMS Final Rule, Federal Register Vol. 80 No. 158 (August 2015)
  - <https://www.gpo.gov/fdsys/pkg/FR-2015-08-17/pdf/2015-19049.pdf>
- NHSN quarterly newsletters
  - December 2015
    - [http://www.cdc.gov/nhsn/pdfs/newsletters/nhsn-enewsletter\\_dec-2015\\_final.pdf](http://www.cdc.gov/nhsn/pdfs/newsletters/nhsn-enewsletter_dec-2015_final.pdf)
  - March 2016
    - <http://www.cdc.gov/nhsn/pdfs/newsletters/nhsn-nl-june-2016.pdf>
  - June 2016
    - <http://www.cdc.gov/nhsn/pdfs/newsletters/nhsn-nl-june-2016.pdf>
- Presentations
  - NHSN Member's Meeting (June 2016)
    - <http://www.cdc.gov/nhsn/pdfs/newsletters/nhsn-members-meeting-2016.pdf>
  - Updating the National Risk-Adjustment of HAI Data (March 2016)
    - <https://www.cdc.gov/nhsn/pdfs/training/2016/updating-national-risk-adjustment-dudeck.pdf>
- NHSN's re-baselining website
  - <http://www.cdc.gov/nhsn/2015rebaseline/>

# Questions and discussion

- With questions regarding re-baselining
  - Email the NHSN Helpdesk at [nhsn@cdc.gov](mailto:nhsn@cdc.gov), with “Re-baseline” in the subject line
  - Email the HAI Program

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# NHSN's New User Interface

Roza Tammer, MPH, CIC  
HAI Reporting Epidemiologist, HAI Program

HAI Advisory Committee Meeting  
December 14, 2016





# NHSN's New Look

- New SIR, baseline, variables, and reports by facility type
- Visually different
  - Some parts of the application are in the same place but have a new look
  - Some parts of the application have been moved/renamed and also have a new look
- Goal: A more user-friendly, intuitive environment for creating reports and analyzing data
- Changes to be implemented when NHSN v.8.6 is released (December 10, 2016)

# Alerts

Before

**CDC** Department of Health and Human Services  
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network

**NHSN Home**  
Alerts  
Reporting Plan  
Patient  
Event  
Summary Data  
Report/Export  
Dialysis  
Facility  
Group  
Log Out

## NHSN Dialysis Component Home Page

Use the Navigation bar on the left to access the features of the application.

**Action items**

You must complete these items.

- Confer rights not accepted
- A survey is required for 2014

**Alerts**

- You have 1 incomplete survey
- You have 2 missing events
- You have 4 incomplete summary items
- You have 1 missing summary items

After

**CDC** Centers for Disease Control and Prevention  
CDC 24/7: Saving Lives. Protecting People™

NHSN - National Healthcare Safety Network

**NHSN Home**  
Alerts  
Reporting Plan  
Patient  
Event  
Procedure  
Summary Data  
Report/Export  
Surveys  
Analysis  
Users  
Facility  
Group  
Tools  
Logout

## NHSN Patient Safety Component Home Page

**COMPLETE THESE ITEMS**

Confer Rights  
**Not Accepted**

**ALERTS**

<b>84</b> Incomplete Events	<b>227</b> Missing Events	<b>56</b> Incomplete Summary Items	<b>322</b> Missing Summary Items
<b>29</b> Incomplete Procedures	<b>142</b> Missing Procedures	<b>5</b> Missing Procedure-Associated Events	<b>1</b> Unusual Susceptibility Profile

# Monthly Reporting Plans

Before

**CDC** Department of Health and Human Services  
Centers for Disease Control and Prevention

**NHSN - National Healthcare Safety Network**

Logged into PRB Dialysis Test Facility 3 (ID 22077) as JCLEN.  
Facility PRB Dialysis Test Facility 3 (ID 22077) is following the PS component.

**Add Monthly Reporting Plan**

✓ No data found for October, 2012

Mandatory fields marked with \*

Facility ID\*: PRB Dialysis Test Facility 3 (ID 22077)

Month\*: October

Year\*: 2012

☐ No NHSN Patient Safety Modules Followed this Month

**Device-Associated Module** [HELP](#)

Locations CLABSI DE VAP CAUTI CLIP

123456 - ABC DX FACILITY ☐ ☒ ☐ ☐

[Add Row](#) [Clear All Rows](#) [Copy from Previous Month](#)

After

**CDC** Centers for Disease Control and Prevention  
CDC 24/7: Saving Lives. Protecting People™

**NHSN - National Healthcare Safety Network** (apt-v-nhsn-test:8001)

**Add Monthly Reporting Plan**

Mandatory fields marked with \*

Facility ID\*: DHQP MEMORIAL HOSPITAL (ID 10018)

Month\*:

Year\*:

☐ No NHSN Patient Safety Modules Followed this Month

**Device-Associated Module**

Locations	CLABSI	VAP	CAUTI	CLIP
PEDSURG_CC - PEDSURG_CC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AMAU - ADULT MIXED ACUTY UNIT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

[Add Row](#) [Clear All Rows](#) [Copy from Previous Month](#)

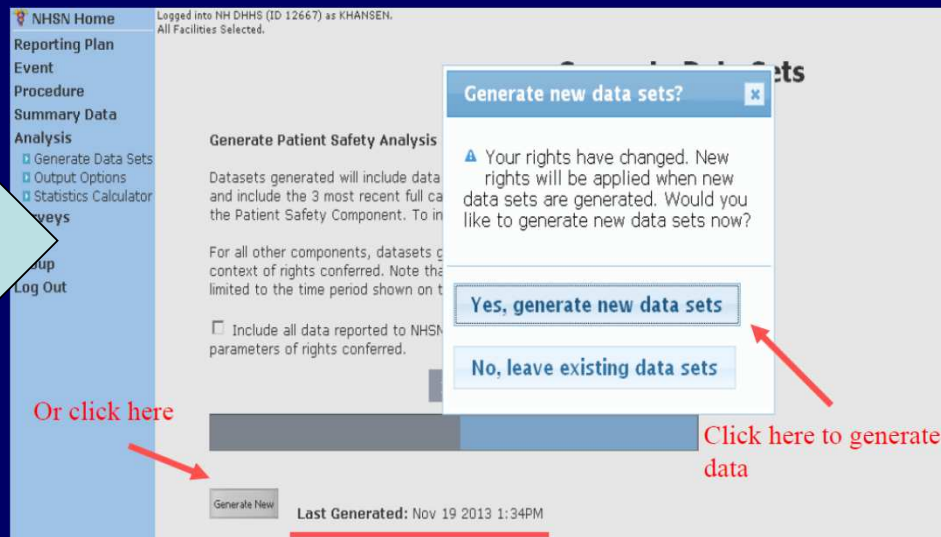
**Procedure-Associated Module**

Procedures	SSI	Post-procedure PNEU
COLO - Colon surgery	IN: <input checked="" type="checkbox"/> OUT: <input type="checkbox"/>	IN - Inpatient <input type="checkbox"/>
HYST - Abdominal hysterectomy	IN: <input checked="" type="checkbox"/> OUT: <input type="checkbox"/>	IN - Inpatient <input type="checkbox"/>

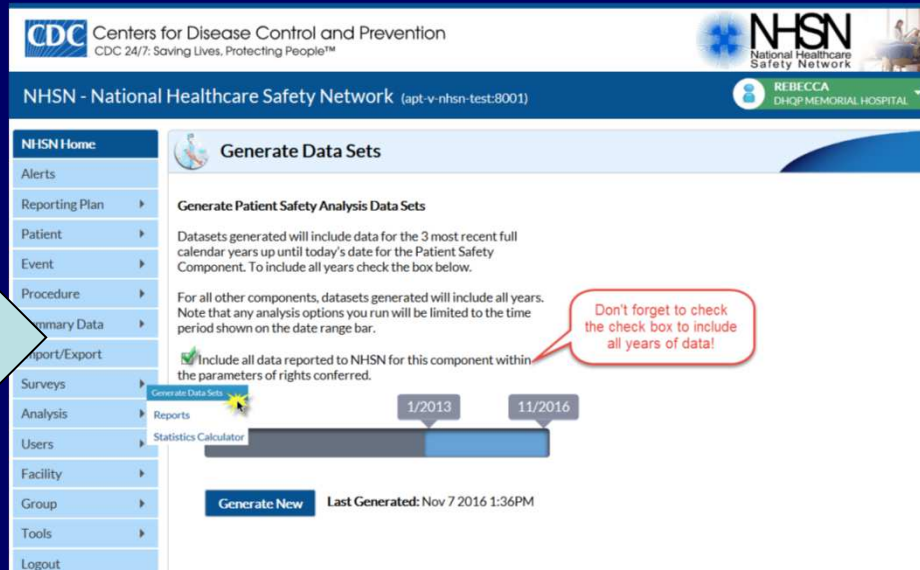
[Add Row](#) [Clear All Rows](#) [Copy from Previous Month](#)

# Generate Datasets

Before



After



# Statistics Calculator

Before

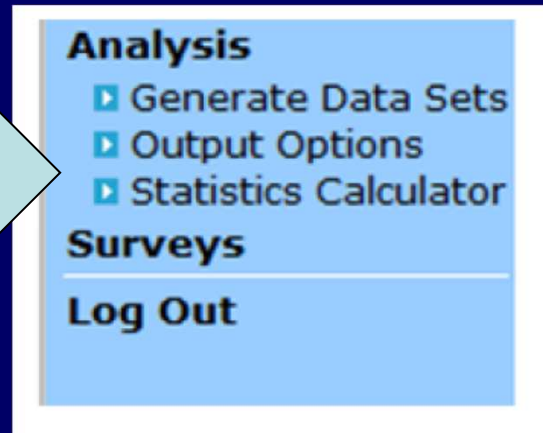
This screenshot shows the old NHSN interface. The header includes the CDC logo and the text 'Department of Health and Human Services Centers for Disease Control and Prevention'. Below this is a navigation bar with 'NHSN Home' and a login status message. A left sidebar contains a menu with items like 'Reporting Plan', 'Patient', 'Event', 'Procedure', 'Summary Data', 'Import/Export', 'Analysis', 'Generate Data Sets', 'Output Options', 'Statistics Calculator', 'Surveys', 'Users', 'Facility', 'Group', and 'Log Out'. The 'Statistics Calculator' link is highlighted. The main content area is titled 'Statistics Calculator' and lists four options: 'Compare Two Proportions', 'Compare Single SIR to 1', 'Compare Two Standardized Infection Ratios', and 'Compare Two Incidence Density Rates'. The third option is highlighted with a red rectangular box.

After

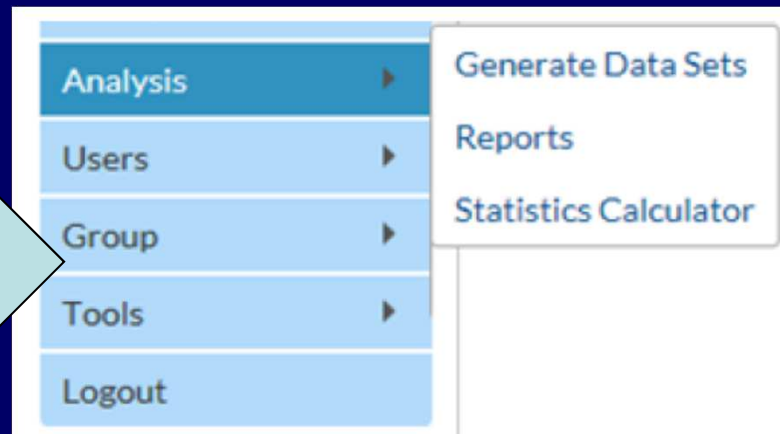
This screenshot shows the updated NHSN interface. The header features the CDC logo, the text 'Centers for Disease Control and Prevention CDC 24/7: Saving Lives. Protecting People™', and the NHSN logo. A navigation bar includes 'NHSN Home', a user profile for 'REBECCA DHQP MEMORIAL HOSPITAL', and a dropdown menu. A left sidebar contains a menu with items like 'Alerts', 'Reporting Plan', 'Patient', 'Event', 'Procedure', 'Summary Data', 'Import/Export', 'Surveys', 'Analysis', 'Users', 'Facility', 'Group', 'Tools', and 'Logout'. The 'Statistics Calculator' link is highlighted. The main content area is titled 'Statistics Calculator' and lists six options: 'Compare Two Proportions', 'Compare Single SIR to 1', 'Compare Two Standardized Infection Ratios', 'Compare Two Incidence Density Rates', 'Compare Single Proportion to a Benchmark', and 'Compare Single SIR to Nominal Value'. The 'Statistics Calculator' link in the sidebar is also highlighted with a yellow star icon.

# Pick an Output Option

Before

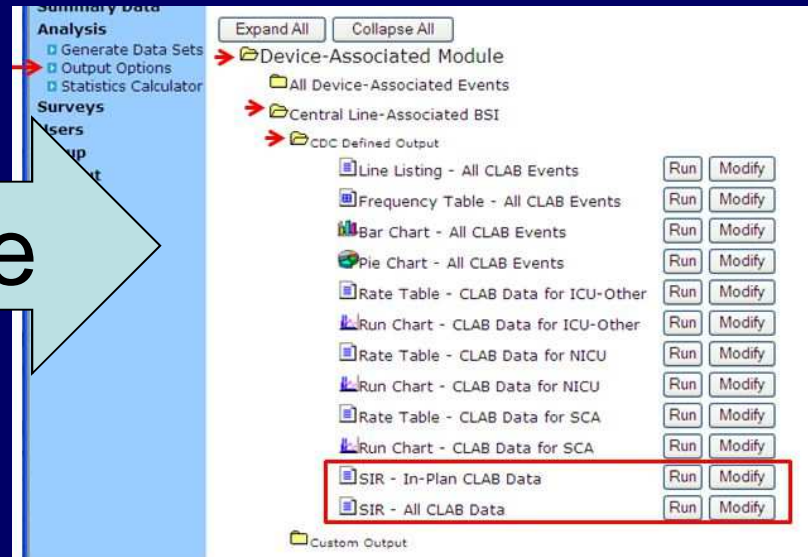


After

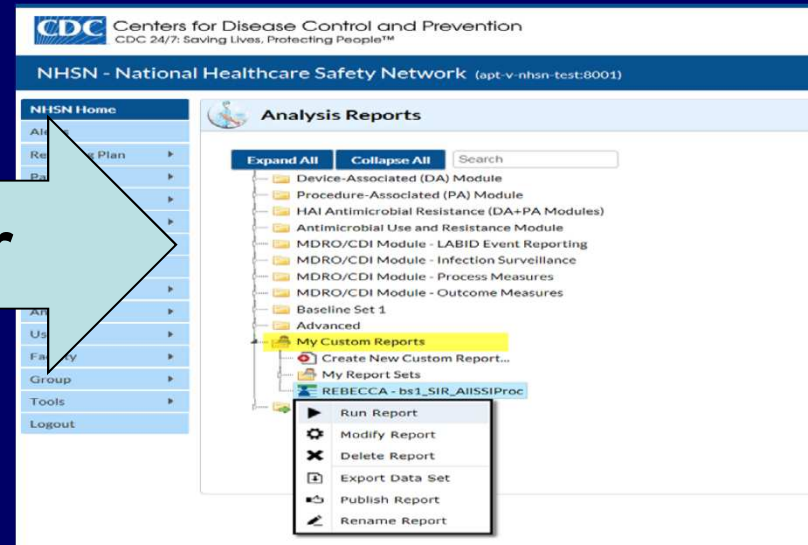


# Find your Custom Reports

Before





After






# Selecting a Baseline


**Centers for Disease Control and Prevention**  
CDC 24/7: Saving Lives, Protecting People™

**NHSN**  
National Healthcare Safety Network

**REBECCA**  
DHQP MEMORIAL HOSPITAL

**NHSN - National Healthcare Safety Network** (apt-v-nhsn-test:8001)

**NHSN Home**  
Alerts  
Reporting Plan ▶  
Patient ▶  
Event ▶  
Procedure ▶  
Summary Data ▶  
Import/Export  
Surveys ▶  
**Analysis** ▶  
Users ▶  
Facility ▶  
Group ▶  
Tools ▶  
Logout

**Analysis Reports**

**Expand All** **Collapse All**

- Device-Associated (DA) Module
- Procedure-Associated (PA) Module
- HAI Antimicrobial Resistance (DA+PA Modules)
- Antimicrobial Use and Resistance Module
- MDRO/CDI Module - LABID Event Reporting
- MDRO/CDI Module - Infection Surveillance
- MDRO/CDI Module - Process Measures
- MDRO/CDI Module - Outcome Measures
- CMS Reports
- TAP Reports
- Baseline Set 1**
- Advanced
- My Custom Reports
- Published Reports

**Locating reports based on 2015 baseline:**

All folders displayed here, with the exception of the folder named Baseline Set 1, contain reports using the new 2015 baseline

**Locating reports based on 'old' baseline:**

Please find reports using the old baseline here in the Baseline Set 1, also called BS1 folder.  
Reports are organized by HAI type



# Run or Modify Output

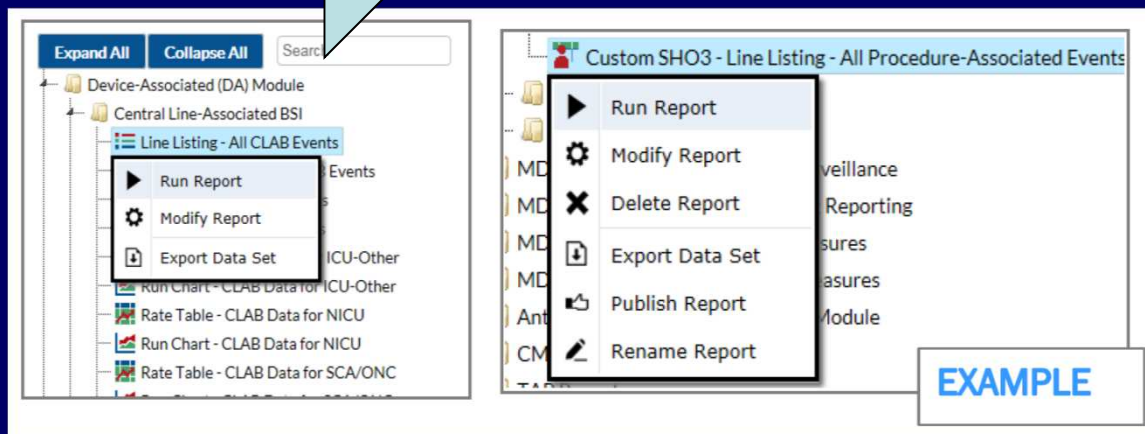
Before

Run and Modify buttons located in tree view



After

Drop-down menus display after clicking



# Modify Output - Overview

Before

All possible modifications displayed on the same screen

The screenshot shows the CDC NHSN Line Listing interface. The left sidebar contains navigation links: Reporting Plan, Patient, Event, Procedure, Summary Data, Import/Export, Analysis, Generate Data Sets, Output Options, Surveys, Users, Facility, Group, and Log Out. The main content area is titled 'Line Listing' and includes sections for 'Analysis Data Set: CLAB\_Events', 'Modify Attributes of the Output' (with fields for Last Modified On, Output Type, Output Name, and Output Title), 'Select output format' (with a dropdown for Output Format and a checkbox for Use Variable Labels), 'Select a time period or Leave Blank for Cumulative Time Period' (with Date Variable, Beginning, Ending, and Clear Time Period buttons), 'Specify Other Selection Criteria' (with Show Criteria, Column, Row, and Clear Criteria buttons), and 'Other Options' (with links to Modify Variables To Display By Clicking and Specify Sort Variables By Clicking, and a Select Page by variables dropdown). At the bottom are buttons for Run, Save As, Reset, Back, and Export Output Data Set.

After

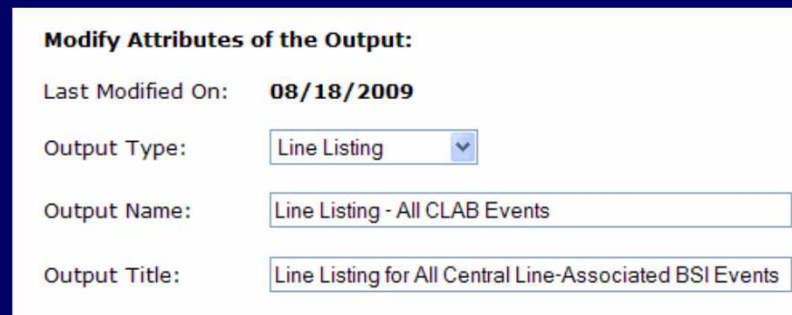
Each modification option has its own tab

The screenshot shows the 'Modify SIR - All CLAB Data' interface. It features a header with the title 'Modify SIR - All CLAB Data' and a sub-header 'Analysis Data Set: CLAB\_RatesICU Type: SIR Data Set Generated On: 09/01/2016 10:04:00'. Below the header is a checkbox for 'Show descriptive variable names' and a button labeled 'EXAMPLE'. At the bottom are four tabs: 'Title/Format', 'Time Period', 'Filters', and 'Display Options'.

# Modify Output – Title/Format

Before

Located in the “Output Title” section of modification screen



**Modify Attributes of the Output:**

Last Modified On: 08/18/2009

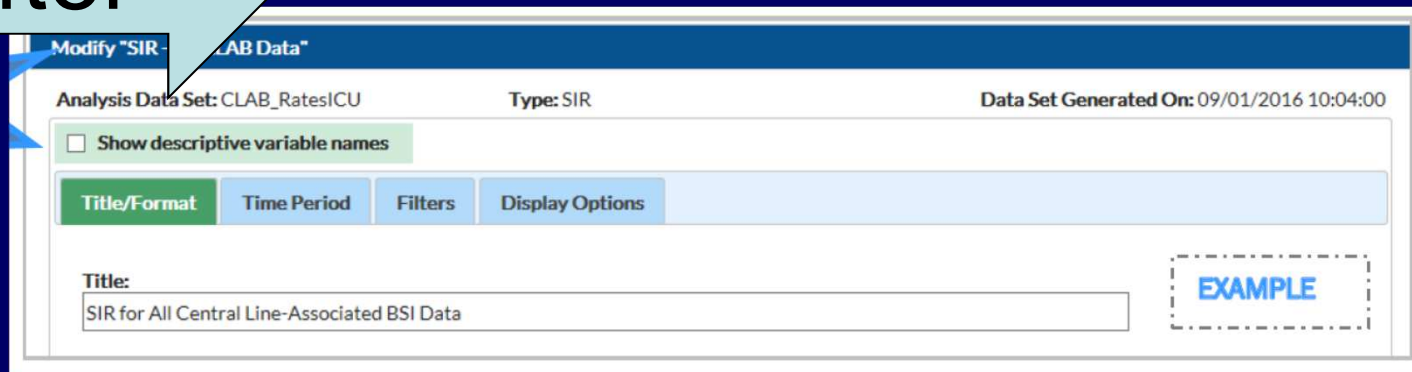
Output Type: Line Listing

Output Name: Line Listing - All CLAB Events

Output Title: Line Listing for All Central Line-Associated BSI Events

After

Located on the “Title/Format” tab



Modify "SIR-CLAB Data"

Analysis Data Set: CLAB\_RatesICU Type: SIR Data Set Generated On: 09/01/2016 10:04:00

☐ Show descriptive variable names

**Title/Format** Time Period Filters Display Options

Title: SIR for All Central Line-Associated BSI Data

EXAMPLE

# Modify Output – Time Period

Before

Located in the “Select a time period or leave blank” section of modification

Select a time period or Leave Blank for Cumulative Time Period:

Date Variable [v]	Beginning [ ]	Ending [ ]	Clear Time Period
----------------------	------------------	---------------	-------------------

☐ Enter Date variable/Time period at the time you click the Run button

After

Located on the “Time Period” tab

Modify "SIR - All CLAB"

Analysis Data Set: CLAB\_RatesICU      Type: SIR      Data Set Generated On: 09/01/2016 10:04:00

☐ Show descriptive variable names

Title/Format   **Time Period**   Filters   Display Options

Time Period:

Date Variable [v]	Beginning [ ]	Ending [ ]	Clear Time Period
----------------------	------------------	---------------	-------------------

☐ Enter Date variable/Time period at the time you click the Run button

EXAMPLE

# Modify Output – Filters

Before

Located in the “Specify Other Selection Criteria” section of

Specify Other Selection Criteria:

[Show Criteria](#) [Column +](#) [Row +](#) [Clear Criteria](#)

▼	▼	▼	▼	▼

After

After: Located on the “Filters” tab

Modify "SIR - All CLAB Data"

Analysis Data Set: CLAB\_Rate ICU    Type: SIR    Data Set Generated On: 09/01/2016 10:04:00

☐ Show descriptive variable names

Title/Format   Time Period   **Filters**   Display Options

Additional Filters:

AND OR    Add group

AND OR    Add rule

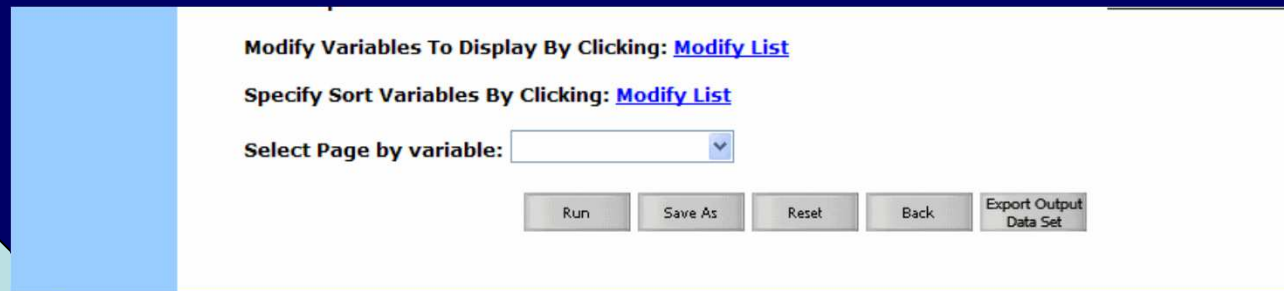
bsiPlan  
CCN  
CLABCount  
CLABRate  
LineDU  
location  
locationType    Delete

EXAMPLE

# Modify Output – Display Variables

Before

Located in the “Modify Variables to Display by Clicking” section of modification screen



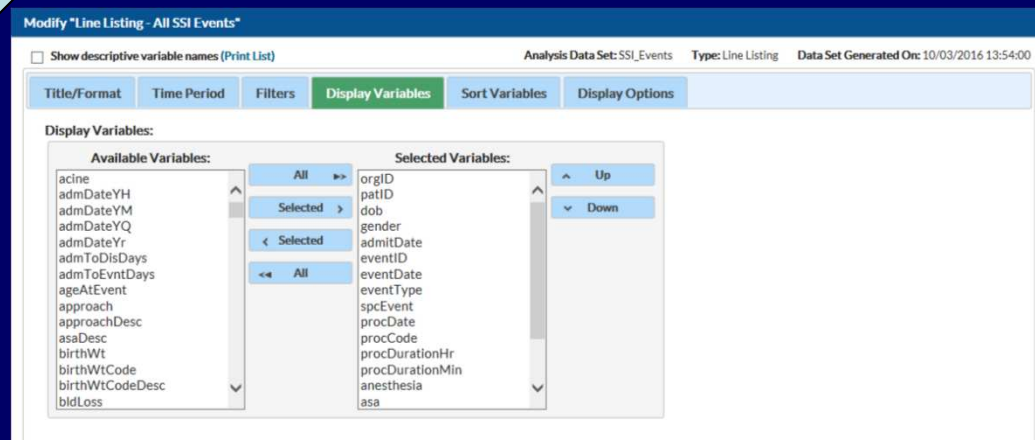
Modify Variables To Display By Clicking: [Modify List](#)

Specify Sort Variables By Clicking: [Modify List](#)

Select Page by variable:

After

Located on the “Display Variables” tab



Modify \*Line Listing - All SSI Events\*

☐ Show descriptive variable names (Print List) Analysis Data Set: SSI\_Events Type: Line Listing Data Set Generated On: 10/03/2016 13:54:00

Display Variables: ☒ ☐ Sort Variables: ☐ Display Options: ☐

Available Variables:

- acine
- admDateYH
- admDateYM
- admDateYQ
- admDateYr
- admToDisDays
- admToEvtDays
- ageAtEvent
- approach
- approachDesc
- asaDesc
- birthWt
- birthWtCode
- birthWtCodeDesc
- bidLoss

Selected Variables:

- orgID
- patID
- dob
- gender
- admitDate
- eventID
- eventDate
- eventType
- spcEvent
- procDate
- procCode
- procDurationHr
- procDurationMin
- anesthesia
- asa

# Modify Output – Display Options

Before

Located in the “Other Options” section of modification screen



Other Options:

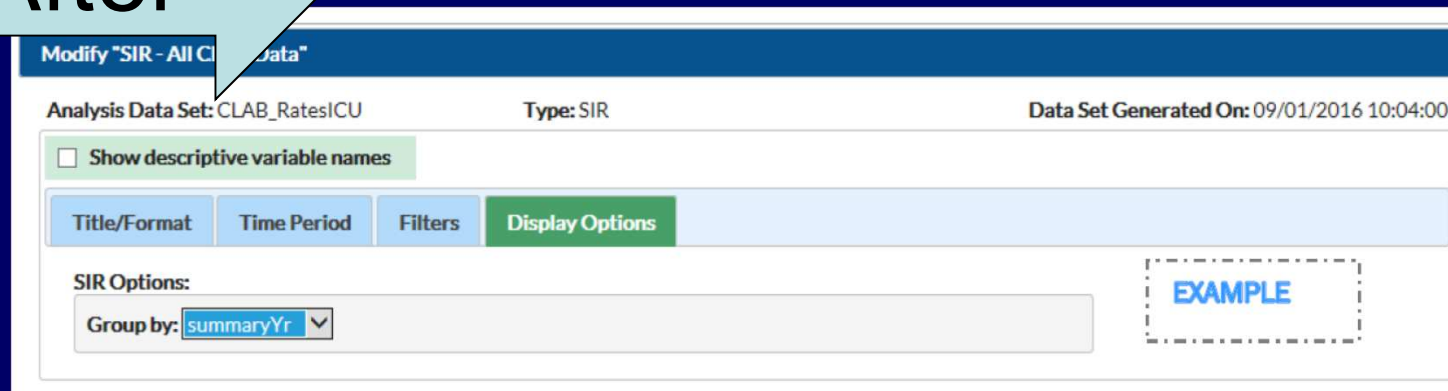
Modify Variables To Display By Clicking: [Modify List](#)

Specify Sort Variables By Clicking: [Modify List](#)

Select Page by variable:

After

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☐ Show descriptive variable names

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Group by:

[EXAMPLE](#)

# Resources for More Information

- NHSN September 2016 Newsletter (Volume 11, Issue 3)
  - <https://www.cdc.gov/nhsn/pdfs/newsletters/nhsn-nl-sept-2016.pdf>
- NHSN's re-baselining website
  - <http://www.cdc.gov/nhsn/2015rebaseline/>
- NHSN webinar – Rebaseline Part II (November 30, 2016)
  - Not yet posted on the re-baselining website
  - Email the HAI Program for assistance

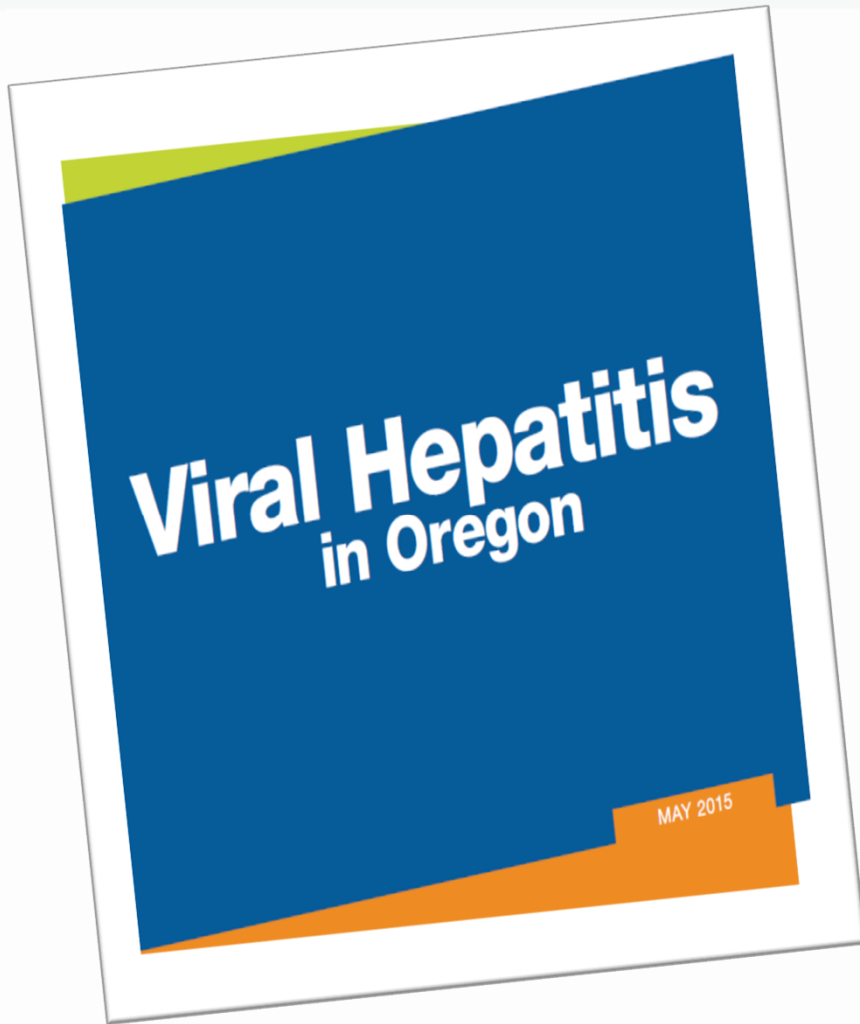


# Questions and discussion

- With questions regarding changes to the NHSN application
  - Email the NHSN Helpdesk at [nhsn@cdc.gov](mailto:nhsn@cdc.gov), with “New application interface” in the subject line
  - Email the HAI Program

Roza Tammer, MPH, CIC  
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Oregon  
Health  
Authority



# Oregon's First Hepatitis Epidemiologic Profile

**Ann Thomas, MD, MPH**  
**Public Health Division**

ACUTE AND COMMUNICABLE DISEASE PREVENTION  
Public Health Division

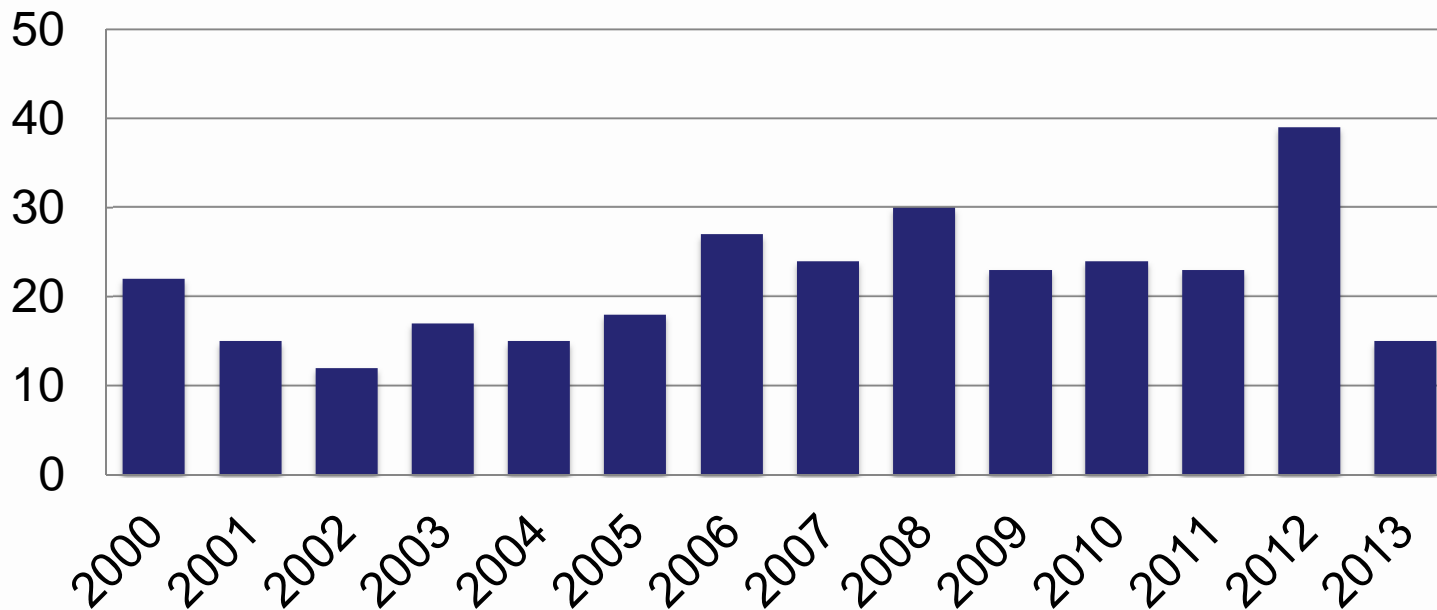
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# Outline

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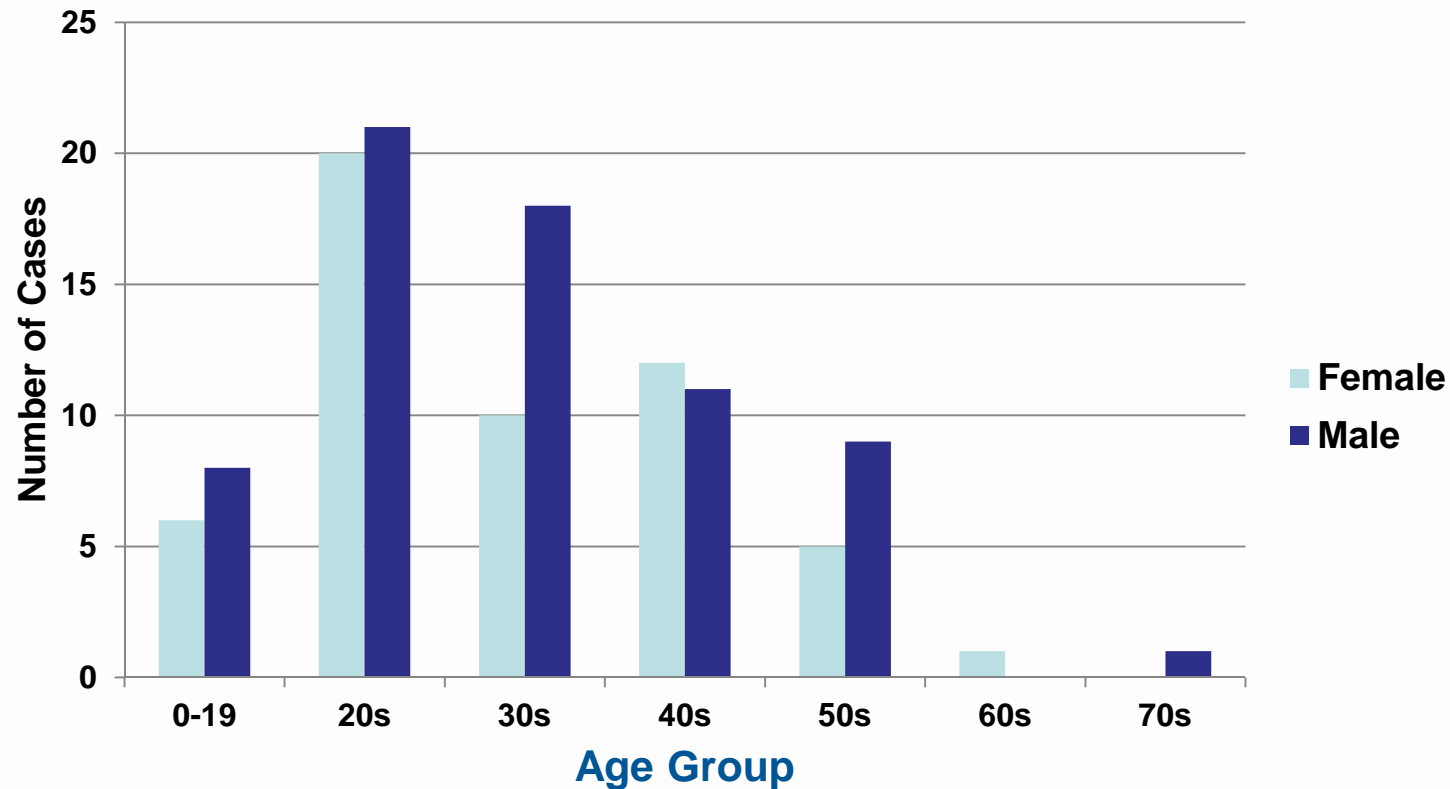
- Burden of disease:
  - Acute and chronic viral hepatitis
  - Liver cancer
  - Hospitalizations
  - Transplants
  - Deaths

# Numbers of Cases of Acute HCV, 2000–2013 (n=304)



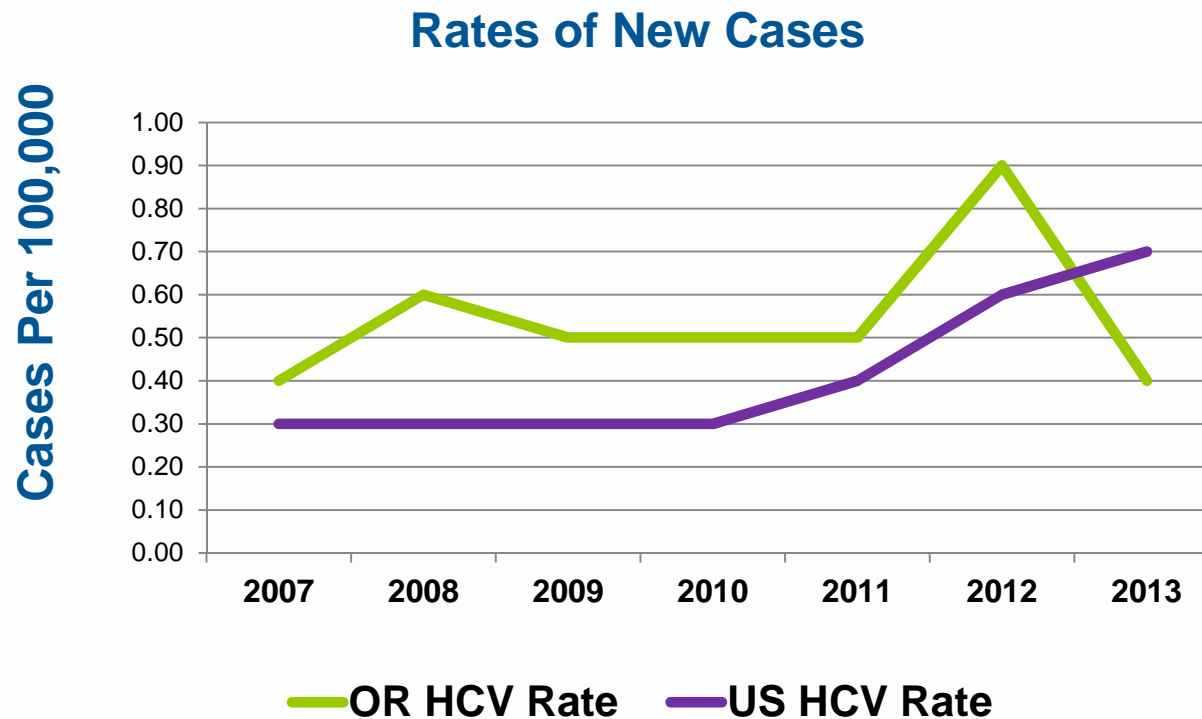
- Average of 25 cases per year for 2009-13
- Each reported acute case corresponds to 13.2 cases according to CDC, for average of 332 new cases each year in Oregon

# Acute HCV Cases by Sex and Age, Oregon, 2009-13 (n=122)



- Nearly half of cases under age 30
- 56% male
- 66% persons who inject

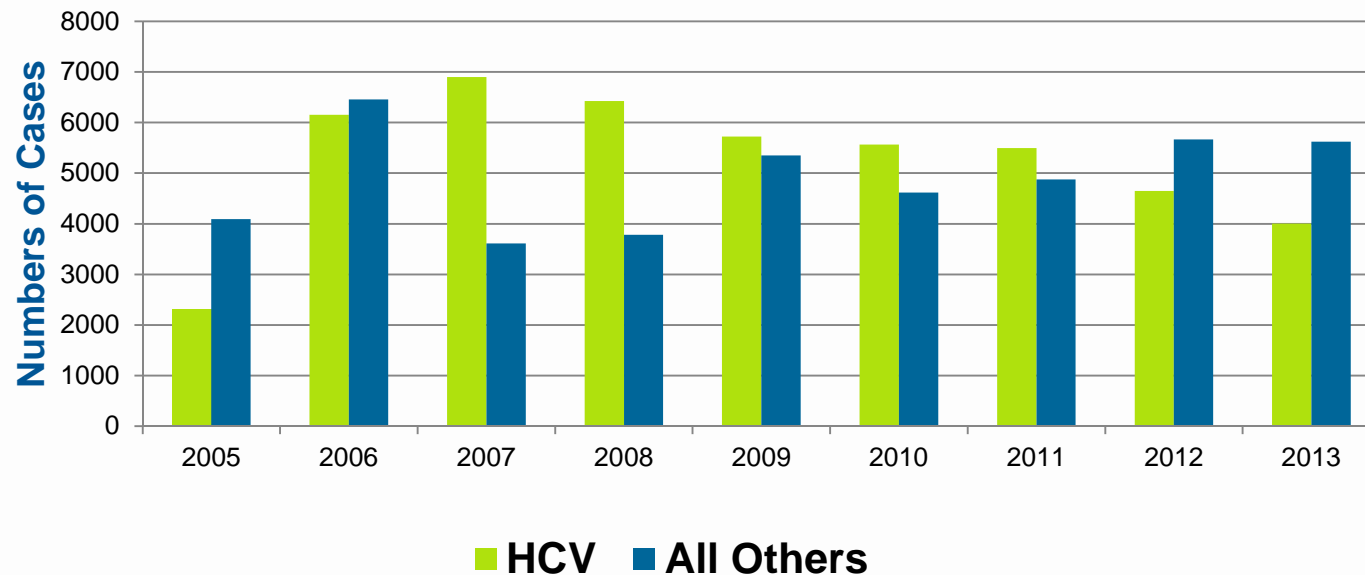
# Acute cases of HCV, Oregon vs US, 2007-2013



Slide courtesy of Dr. Ann  
Oregon Health Authority

# Chronic HCV infection

Cases of chronic HCV and all other communicable diseases combined, Oregon, 2005-2013



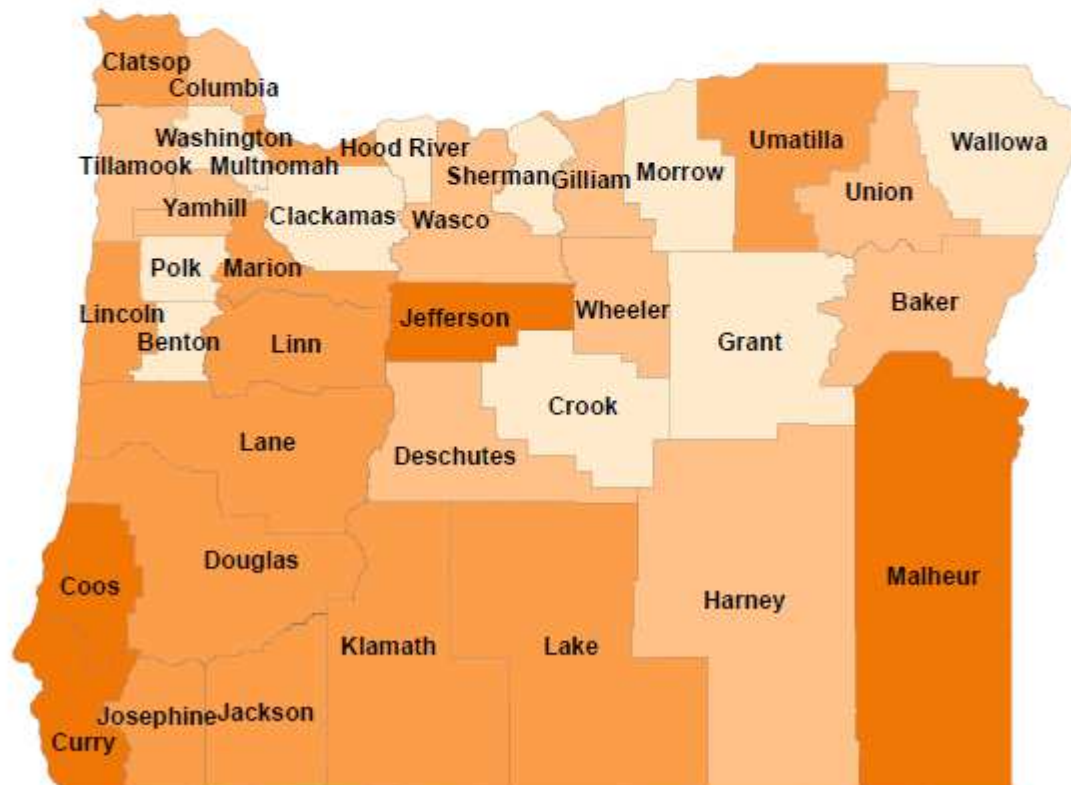
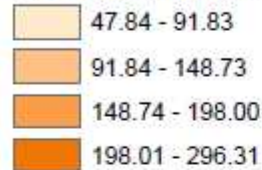
- 2/3 of cases were 45-64 years old

## Oregon Chronic HCV 5-year Incidence Rate, 2008-2012

### Legend

Chronic HCV 5-year New Case Rate per County, 2008-2012

HCV Rate/100,000 5-yr avr



### Top 5 Rates

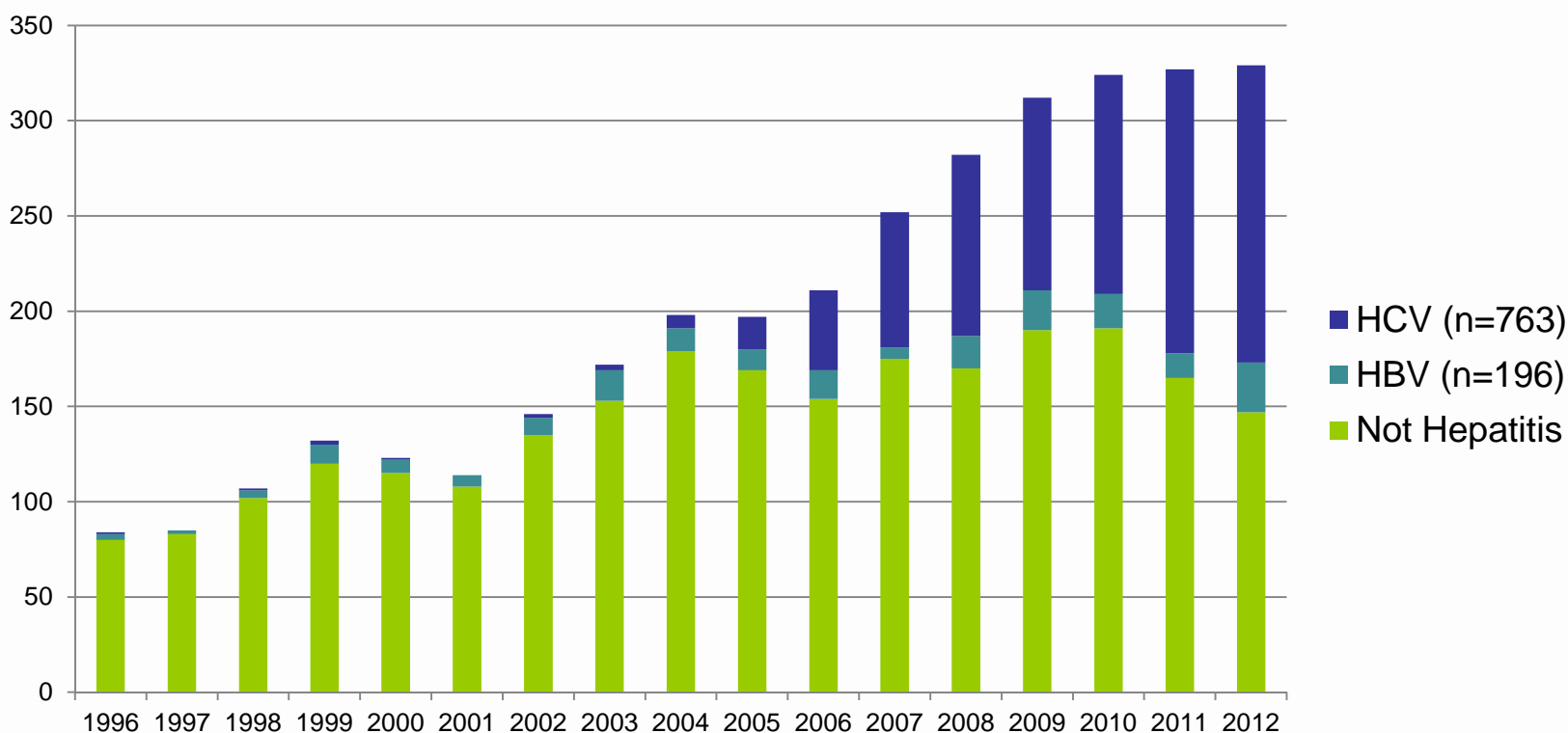
(Ave No. per Year)

1. Malheur (91.4)
2. Jefferson (49.8)
3. Coos (148.0)
4. Curry (50.6)
5. Douglas (209.4)

9. Multnomah (1429.8)



# Chronic viral hepatitis cases by year of liver cancer diagnosis, Oregon, 1996-2012



- In 2012, 47% of liver cancer cases had chronic HCV

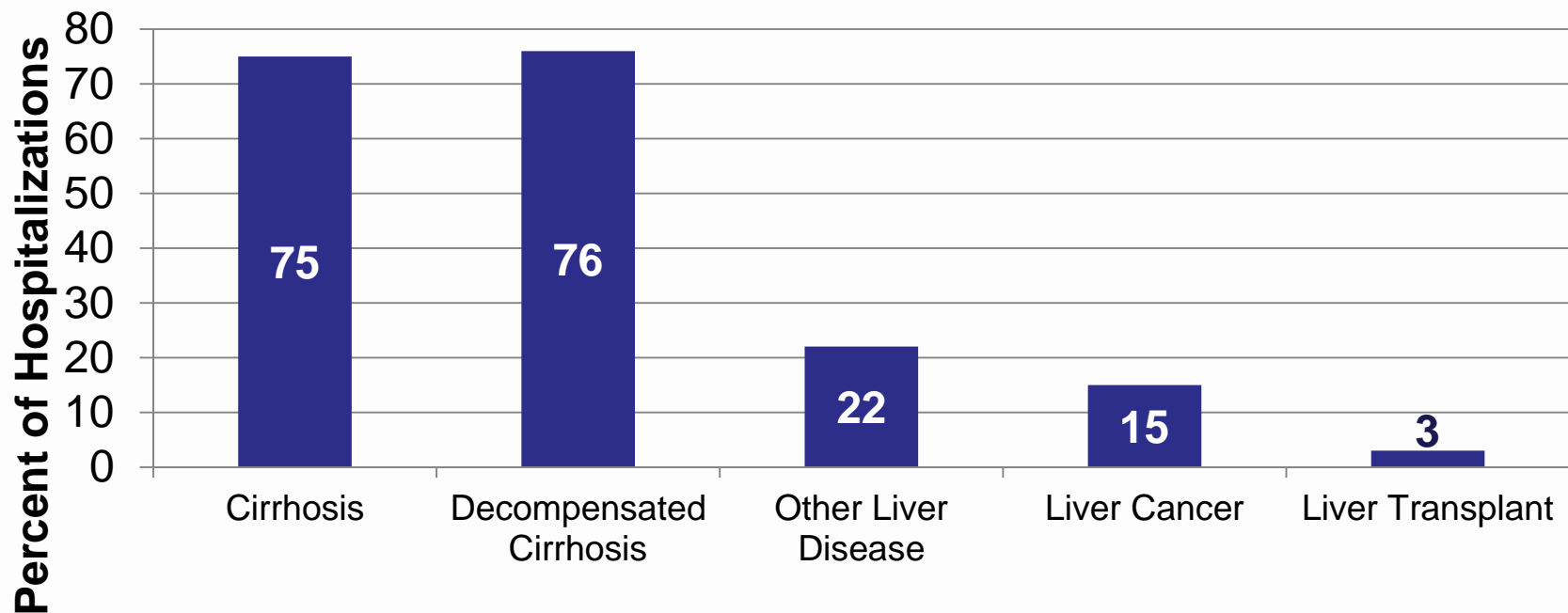
# Age and Sex of Cases of Chronic Viral Hepatitis Cases with Liver, 2008-12

	HBV (n=93)	HCV (n=611)
Age Group	No. (%)	No. (%)
0-29 years	0 (0)	2 (0.4)
30-39 years	7 (8)	0 (0)
40-49 years	19 (20)	42 (7)
50-59 years	25 (27)	321 (53)
60-69 years	29 (31)	201 (33)
70 and older	13 (14)	45 (7)
Sex		
Male	78 (84)	475 (78)
Female	15 (16)	136 (22)

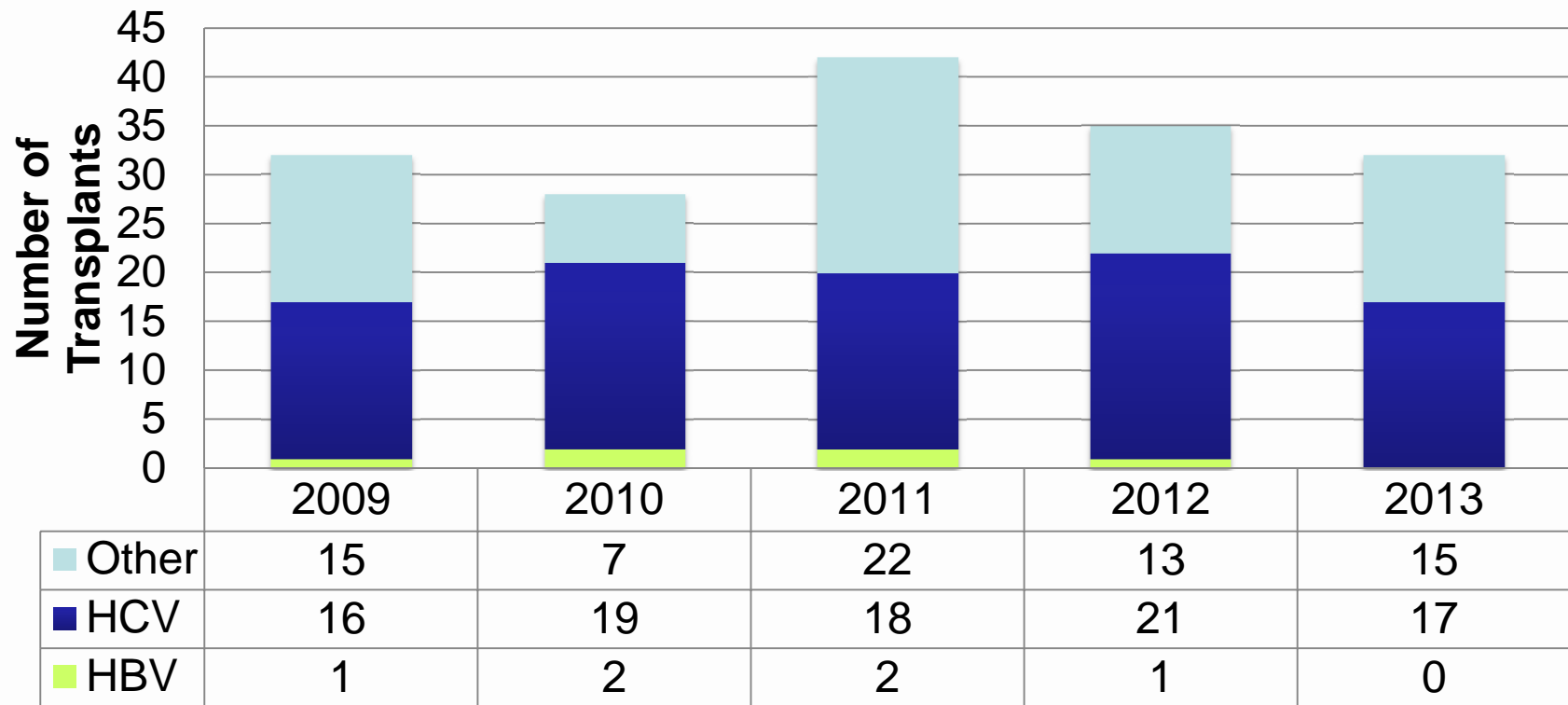
# HCV-associated Hospitalizations Oregon, 2008-12 (n=3,917)

Characteristic	Finding
Age	<ul style="list-style-type: none"><li>• 8% &lt; 45 yrs</li><li>• 70% aged 50-64 years</li></ul>
Sex	<ul style="list-style-type: none"><li>• 2/3 male</li></ul>
Payer	<ul style="list-style-type: none"><li>• 30% Medicare</li><li>• 32% Medicaid</li></ul>

# Categories of Advanced Liver Disease in Patients with HCV-related Hospitalizations, Oregon, 2008-12, (n=3,917)



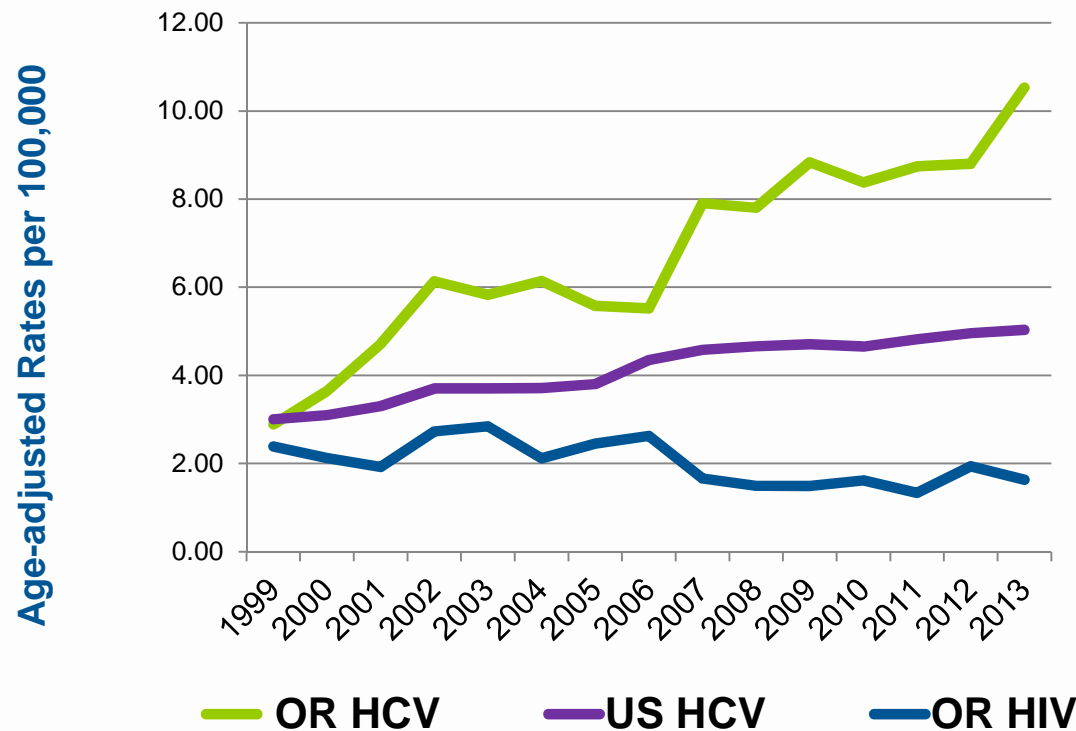
# Annual Number of Liver Transplants Performed at OHSU by Etiology, 2009–2013



- **34 transplants performed on average annually**
- **18 (53%) for HCV**

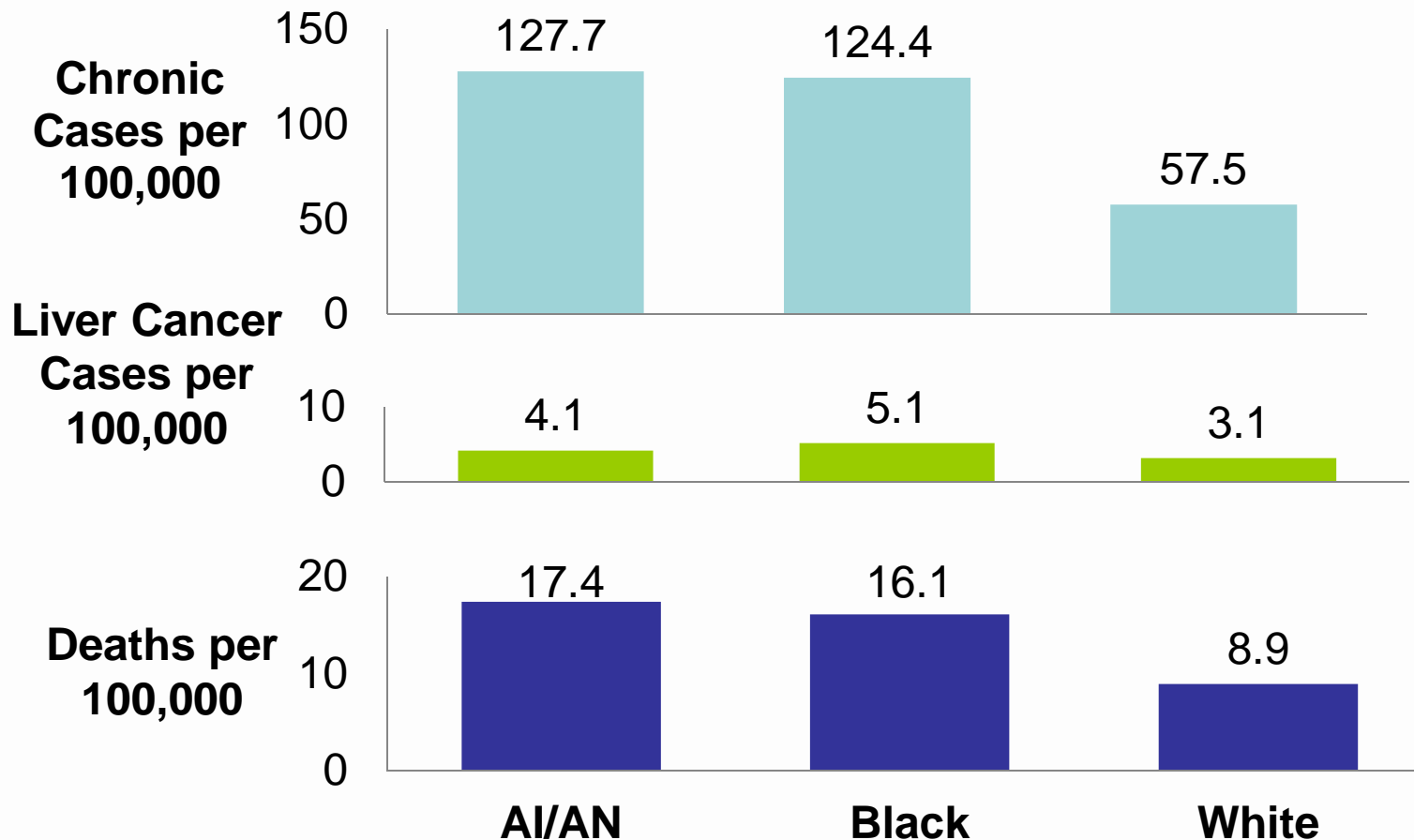
# Age-adjusted mortality from HCV and HIV in Oregon and from HCV nationally, 1999-2013

Age-adjusted mortality rates



- 83% of HCV-related deaths were in persons aged 45-64 years

## Racial Differences in Incidence of Chronic HCV, HCV-related Liver Cancer, and HCV Mortality, Oregon, 2009-13



# Summary of Findings

- Significant burden of disease resulting in high numbers of hospitalizations, liver cancer and deaths from HCV
- Majority of cases of chronic infection, liver cancer, hospitalizations and deaths from HCV occurred in person 45-64
- In contrast, highest number of new cases in persons under 30
- Affects all regions of Oregon
- High risk populations in Oregon: American Indians/Alaska Natives, Blacks, persons who inject, incarcerated persons



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# 2016 Oregon HAI Survey

Safe Injection Practices and Drug Diversion



ACUTE AND COMMUNICABLE DISEASE PREVENTION

Public Health Division

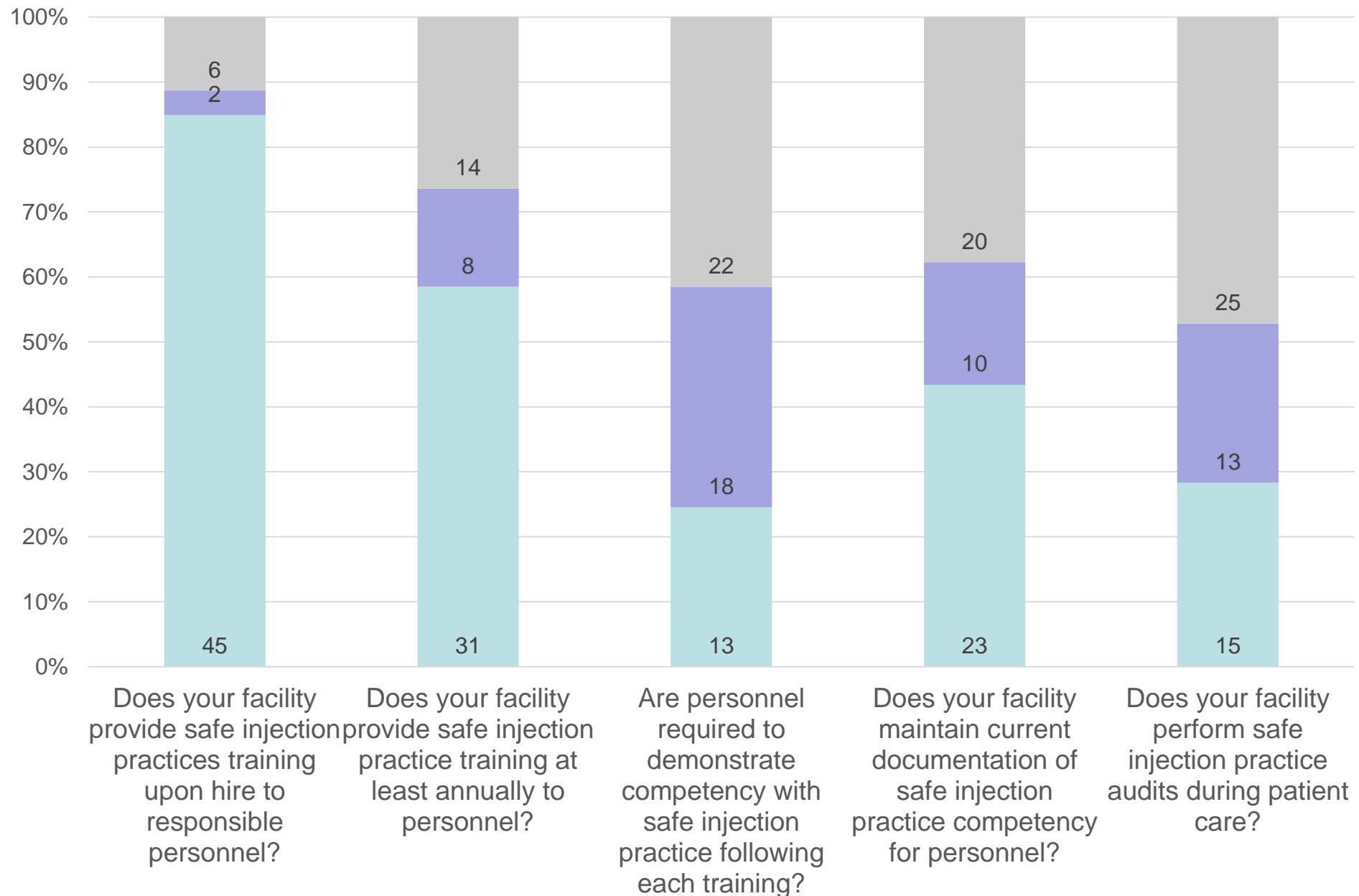
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# Hospitals

(Enter) DEPARTMENT (ALL CAPS)  
(Enter) Division or Office (Mixed Case)

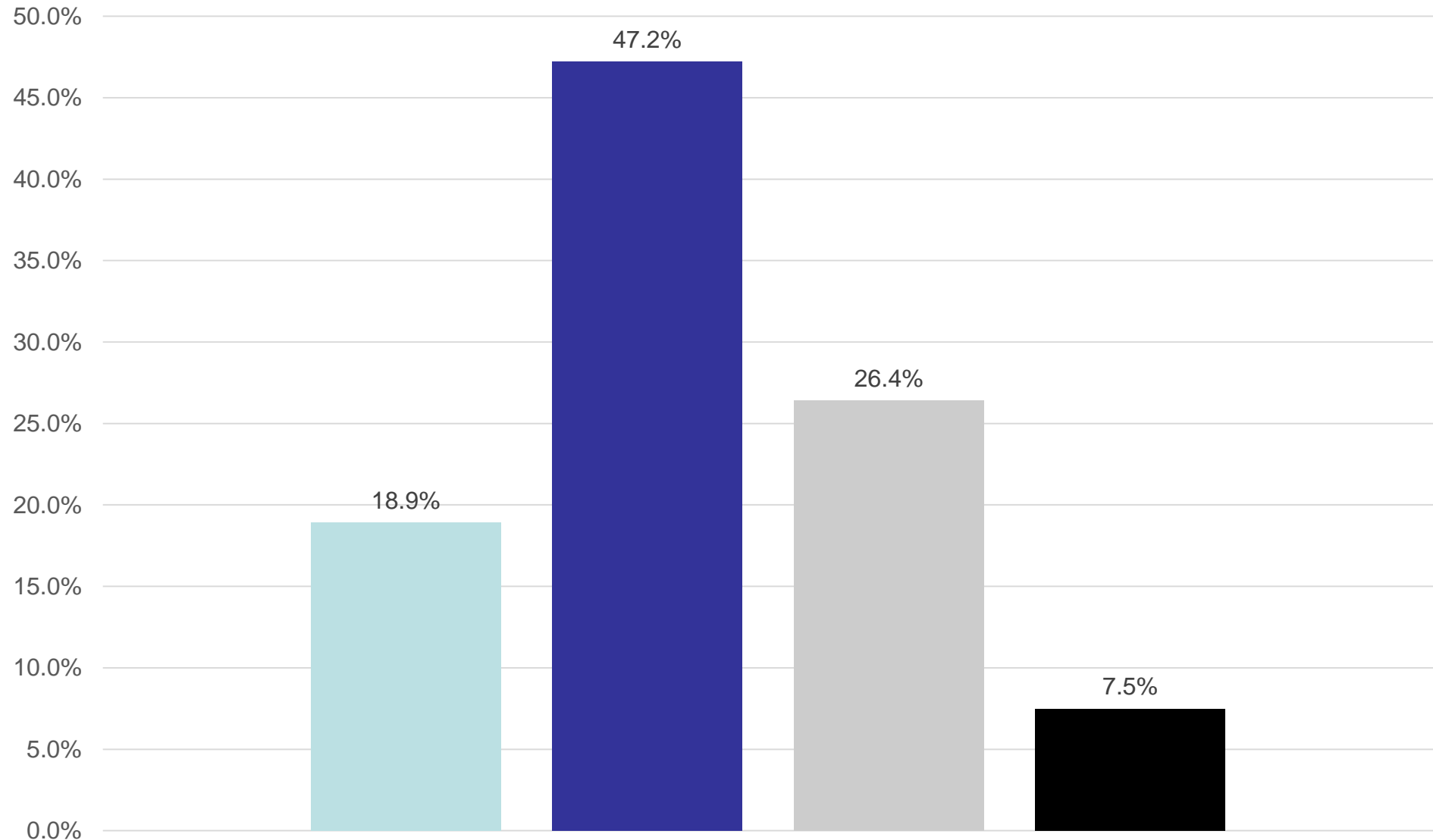
# Hospital – Safe Injection Practices (SIP)

Yes No Unsure



# Does your hospital have a drug diversion prevention program that includes consultation with infection prevention when drug tampering is suspected or identified?

Yes No Unsure Other (please specify)

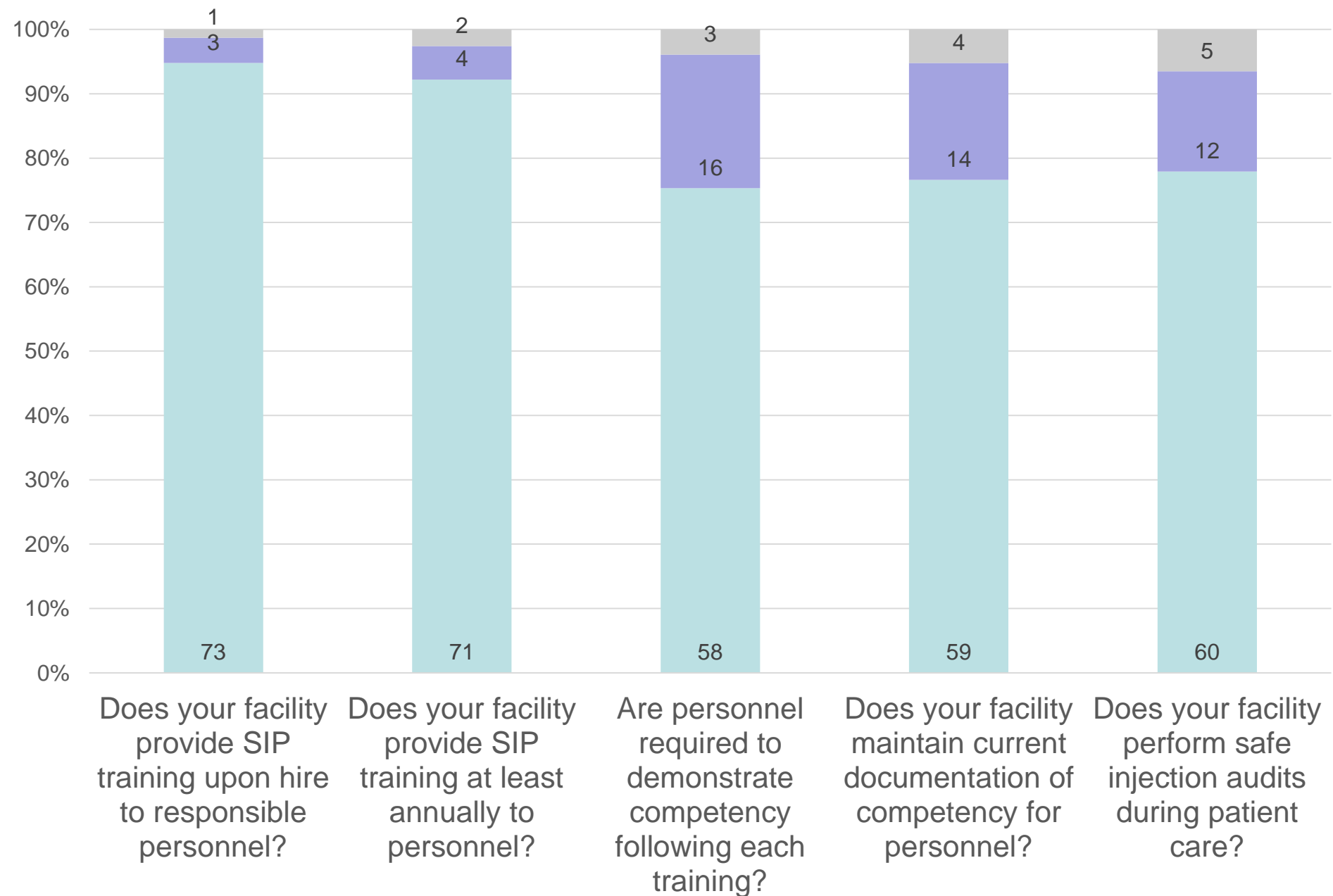


# Ambulatory Surgery Centers

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(Enter) Division or Office (Mixed Case)

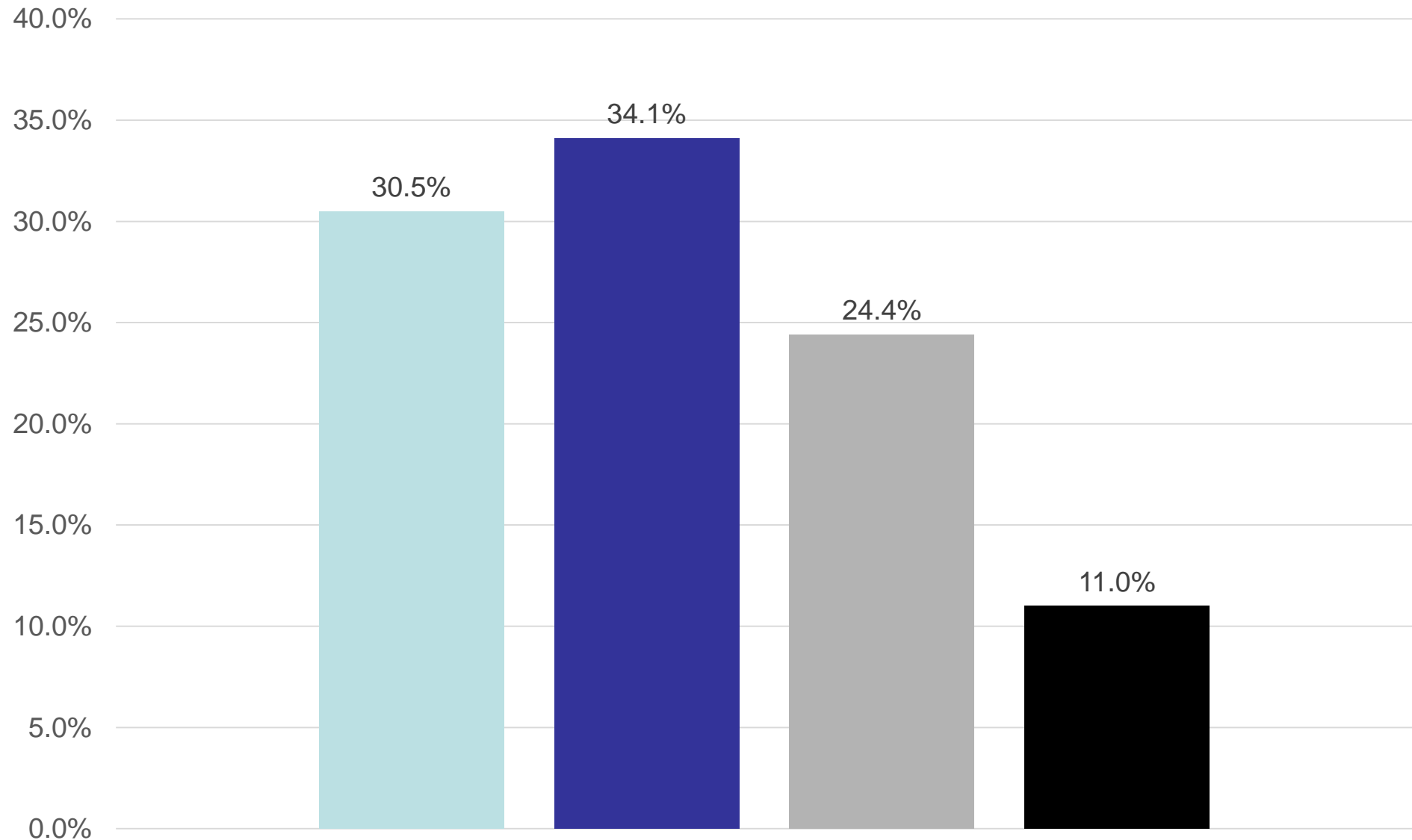
# ASC - Safe Injection Practices (SIP)

Yes No Unsure

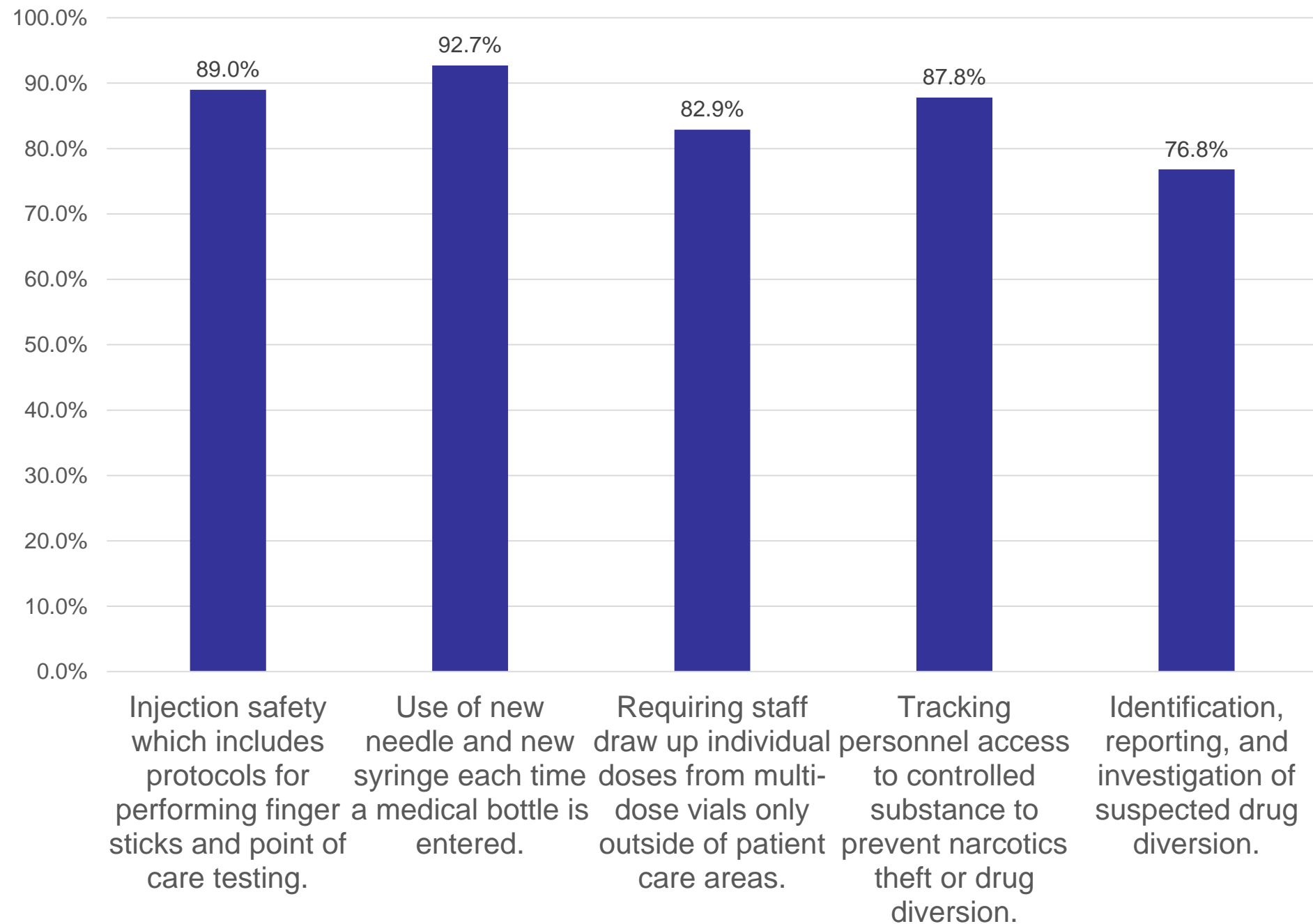


# Does your facility have a drug diversion prevention program that includes consultation with the infection preventionist when drug tampering is suspected or identified?

Yes No Unsure Other (please specify)



# Our facility has a written policy about... Check all that apply.



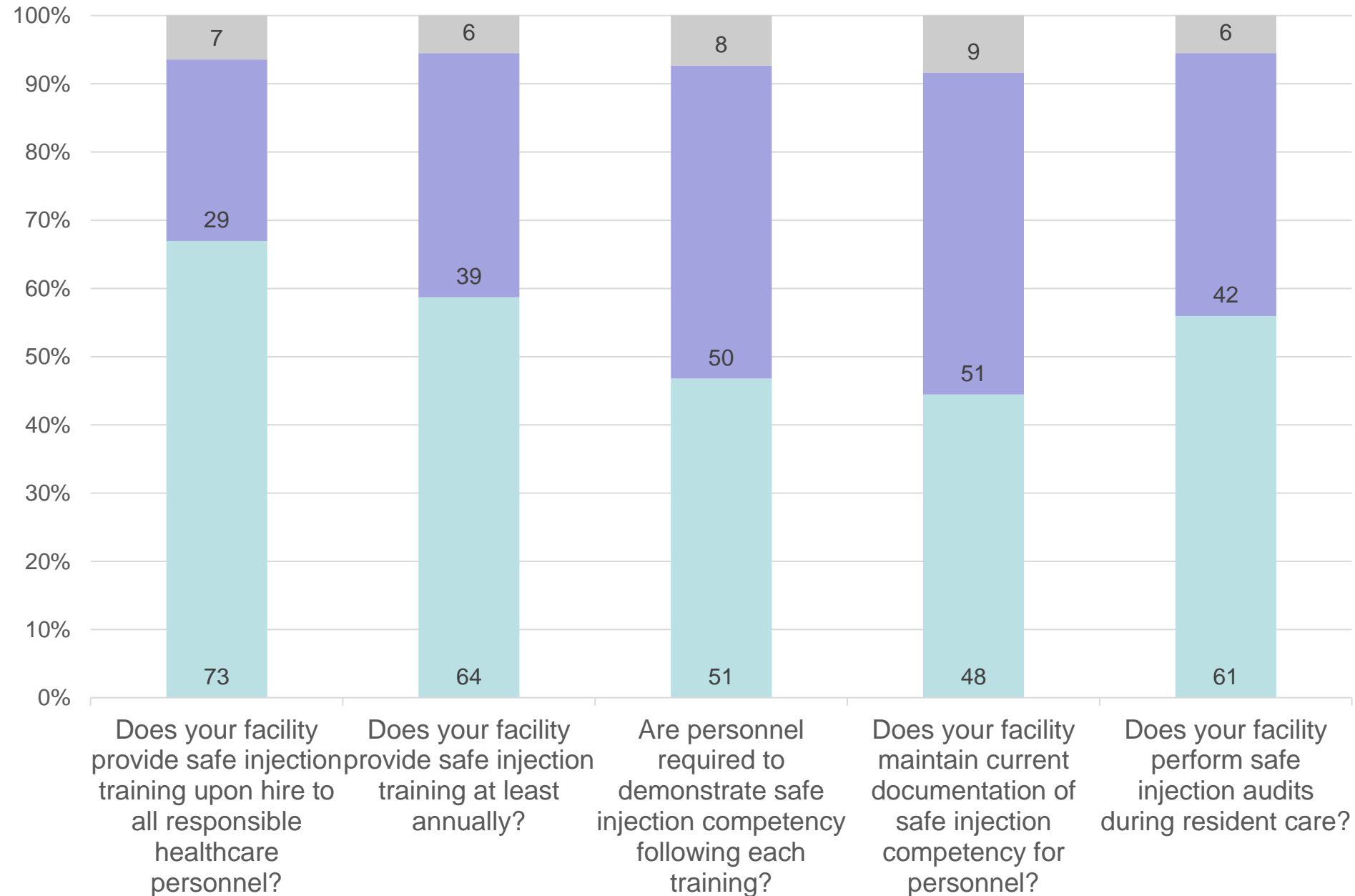


# Skilled Nursing Facilities

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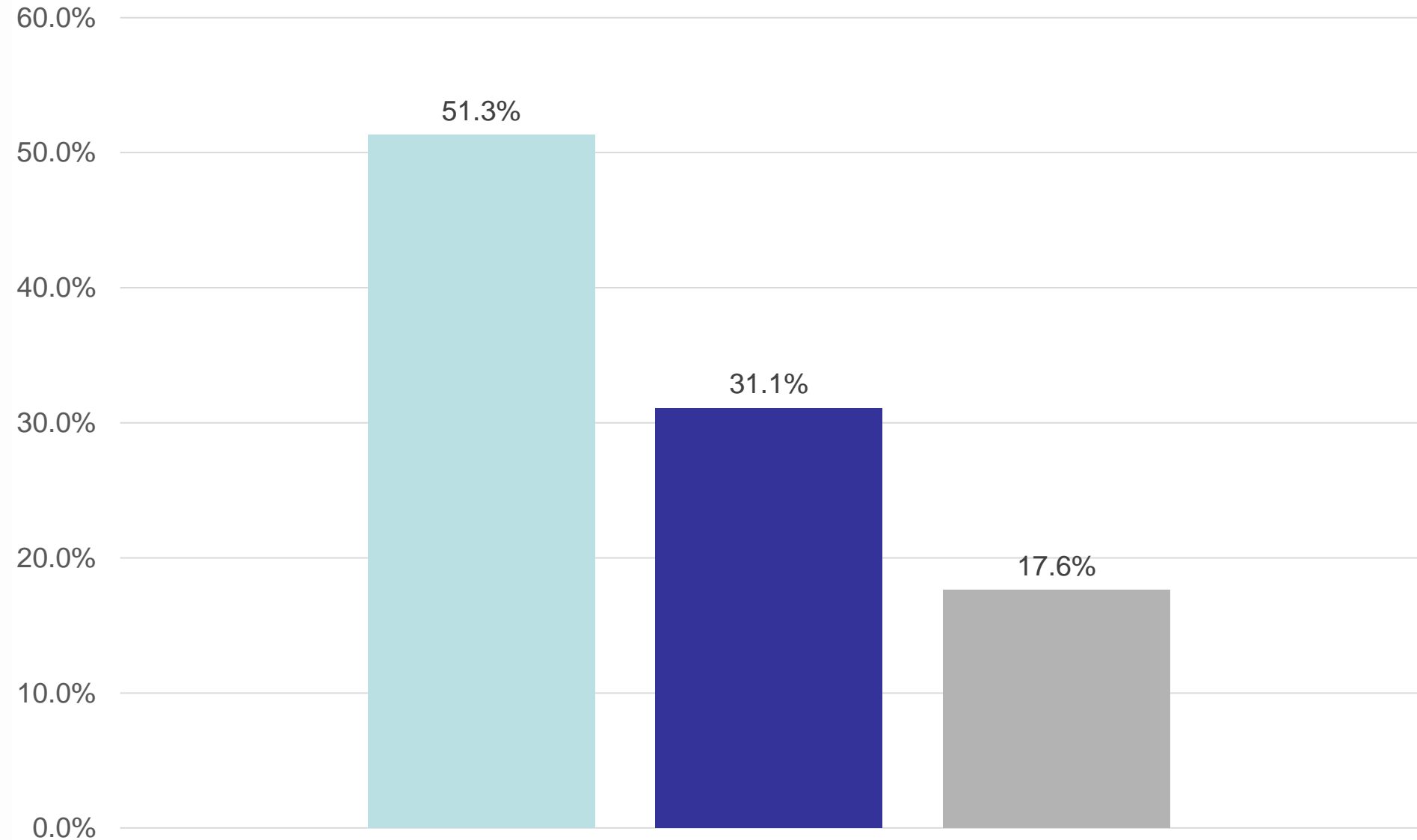
# SNF – Safe Injection Practices

Yes No Unsure



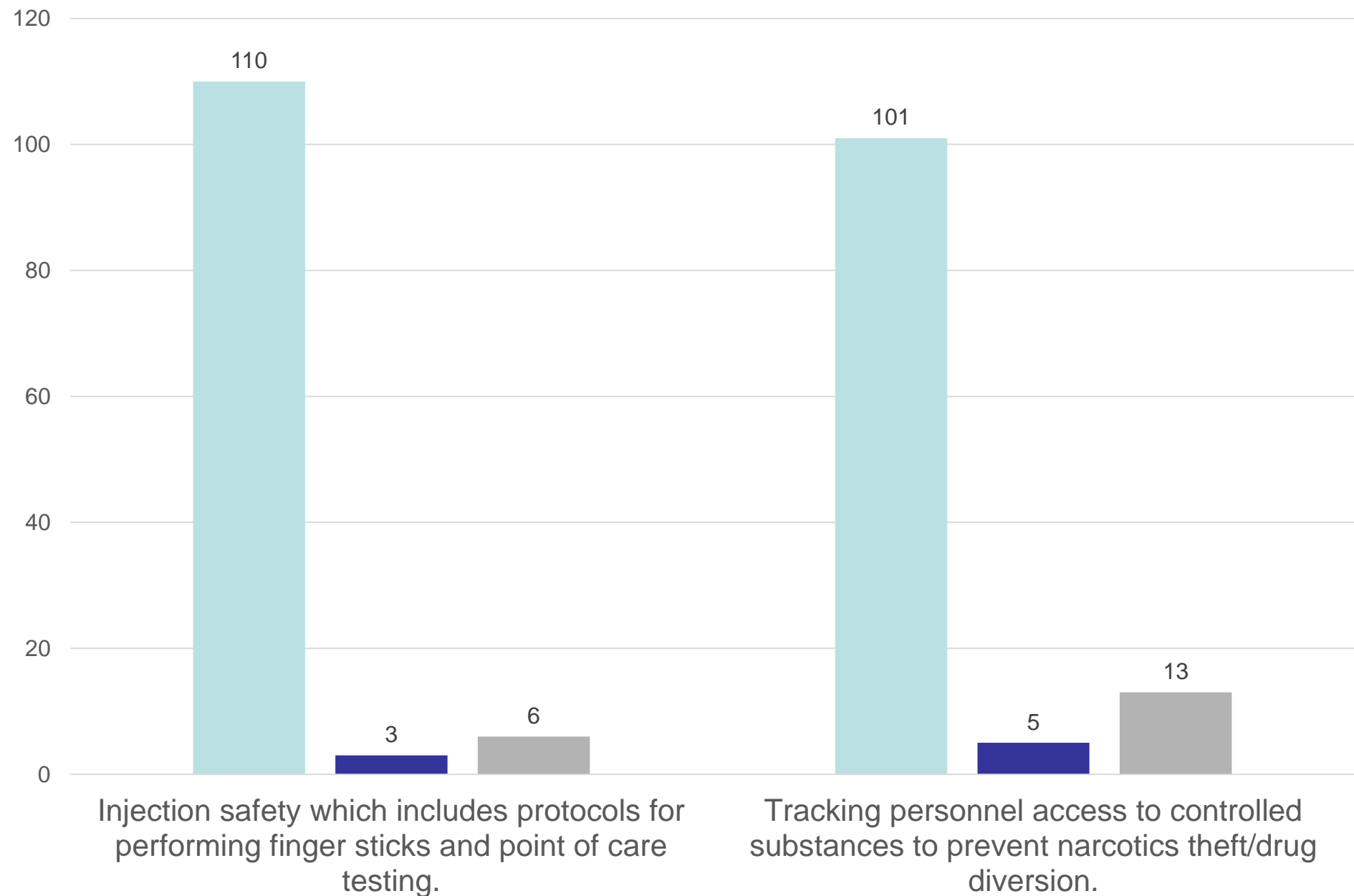
Does your facility have a drug diversion prevention program that includes consultation with the person responsible for infection prevention when drug tampering is suspected or identified?

Yes No Unsure



# Our facility has a written policy about...

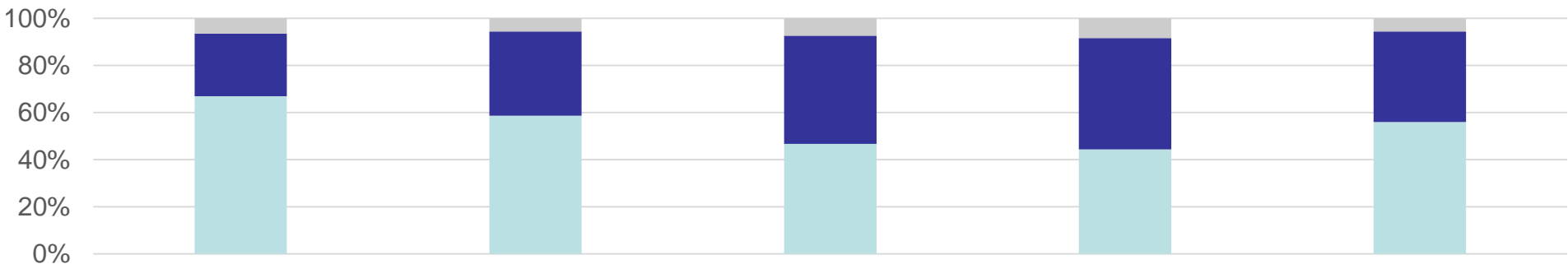
Yes No Unsure



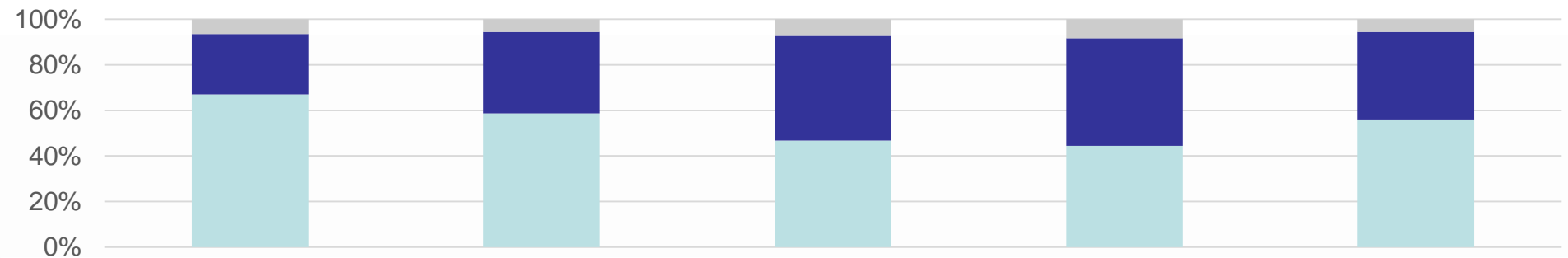
# Compare all 3

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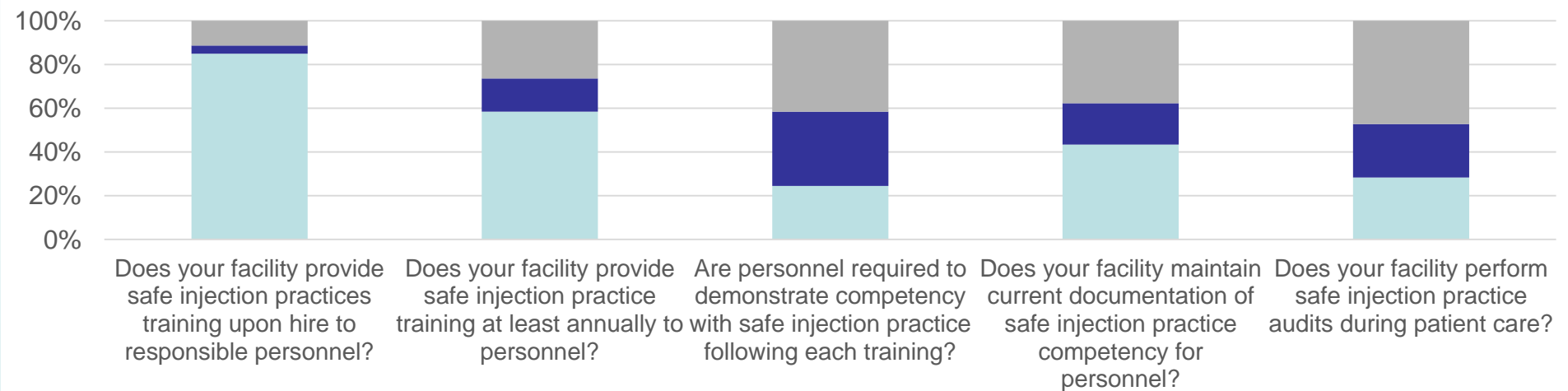
## ASC



## SNF



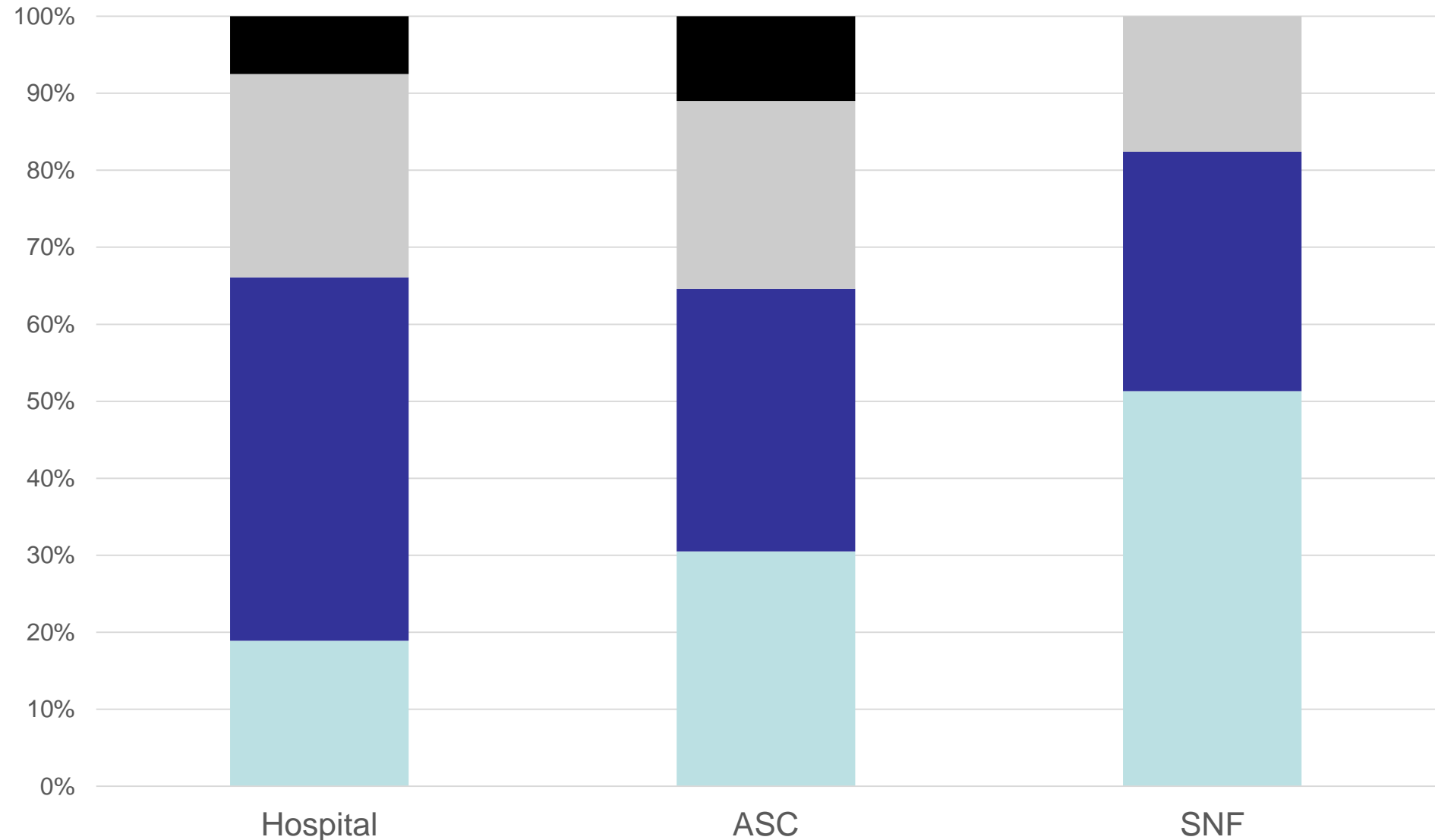
## Hospital



Yes No Unsure

# Does your hospital have a drug diversion prevention program that includes consultation with infection prevention when drug tampering is suspected or identified?

Yes No Unsure Other (please specify)



2015–2016

# >> Oregon Health Care Worker Influenza Vaccination

Annual Report



Oregon  
**Health**  
Authority  
PUBLIC HEALTH DIVISION



# Acknowledgments

**This publication was prepared by the Oregon Health Authority Healthcare Associated Infections (HAI) Program, including:**

Monika E. Samper, RN

Katherine Ellingson, PhD

**Oversight provided by:**

Zintars Beldavs, MS, ACDP Section Manager

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**November 2016**

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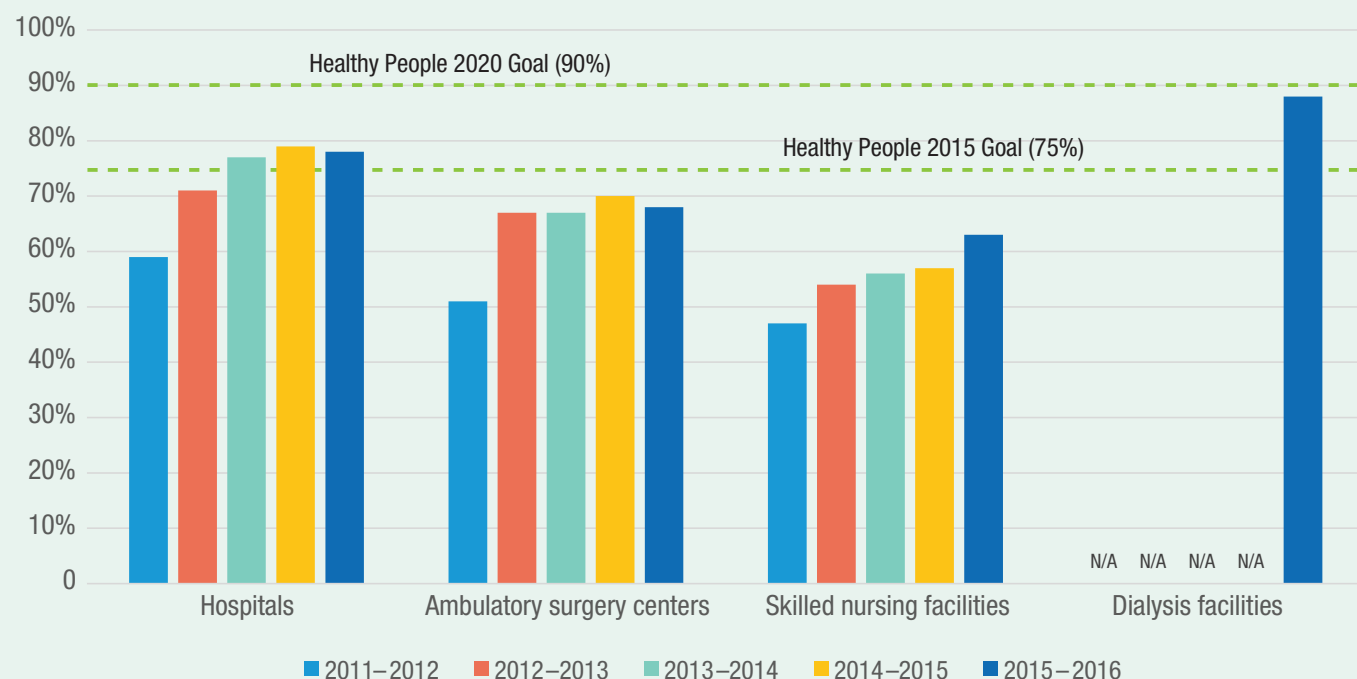
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# Executive summary

Influenza virus infections cause thousands of hospitalizations and deaths every year. The number of flu-associated deaths varies year to year due to the unpredictability and fluctuations in influenza seasons. Flu-associated deaths are estimated to range from approximately 3,000 to 49,000 people annually(1). Immunizing health care workers (HCWs) helps prevent the spread of influenza in health care settings. Some hospitalized patients, including the elderly, very young or those with some chronic illnesses are at high risk for complications from the flu. HCWs infected with influenza can accidentally transmit the virus to their patients and coworkers. Extra care should be taken to prevent the spread of the flu among HCWs and patients. Since 2009, Oregon hospitals have been required by the Oregon Health Authority (OHA) to report their HCW influenza vaccination rates. OHA subsequently added this requirement for long-term care facilities beginning in 2010 and then for ambulatory surgery centers in 2011. This is the first year dialysis facilities have been required to report their HCW influenza vaccination rates. Widespread education campaigns from local facilities and government agencies have helped increase awareness of the importance of HCW immunization.

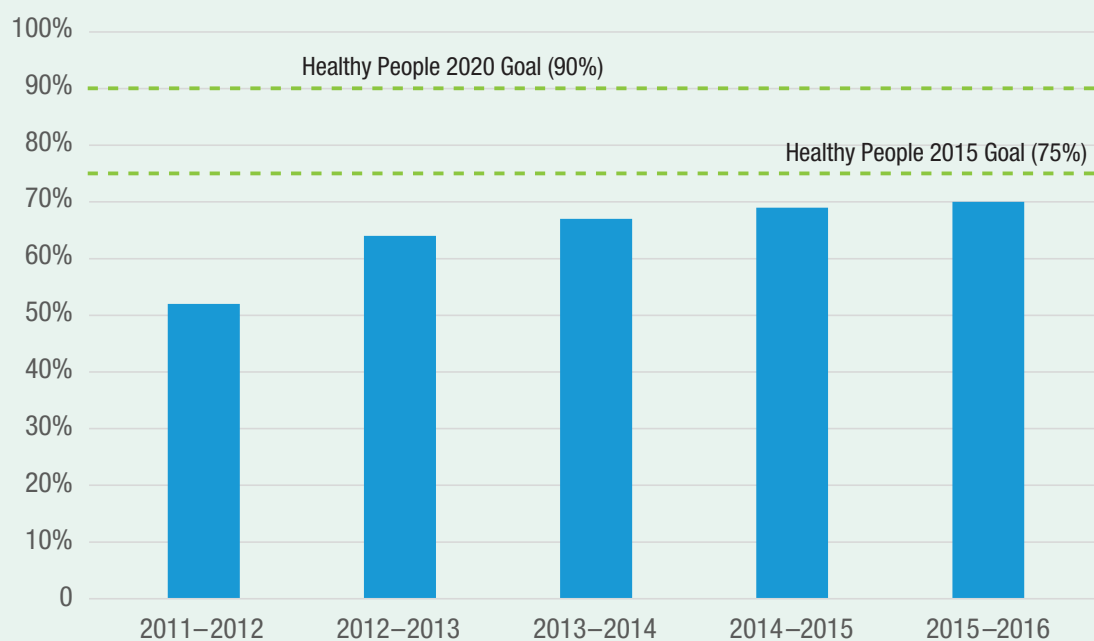
The U.S. Department of Health and Human Services provides 10-year national objectives, called the Healthy People program, for improving the health of all Americans. The Healthy People goals for HCW influenza vaccination were 75% by 2015 and 90% by 2020. Oregon hospitals and dialysis facilities met the 2015 Healthy People target rate of 75% for the 2015–2016 influenza season. Ambulatory surgery centers and skilled nursing facilities did not meet the 2015 Healthy People target (Figure 1).

**Figure 1. Influenza vaccination rates for all HCWs by health care facility type and season**



Overall vaccination rates among Oregon HCWs are increasing every year. Figure 2 shows the mean vaccination rate for all facility types that reported data for the last five influenza seasons. Since dialysis facilities reported for the first time this year, their vaccination rates were not included in the mean rate calculation.

**Figure 2. Mean HCW influenza vaccination rates for all facility types**



## What can facilities do to increase rates of HCW influenza vaccination?

- ✓ **Encourage their employees to get vaccinated at the beginning of every influenza season**
- ✓ **Encourage all coworkers, including those not employed by the facility (e.g., contractors, volunteers, etc.), to get vaccinated**
- ✓ **Participate in and encourage promotional strategies such as:**
  - Mass vaccination fairs
  - Peer vaccination
  - No-cost vaccines
  - Incentive programs
  - Documentation of vaccination status of all HCWs and requiring declination forms

**CDC information and guidance:** <http://www.cdc.gov/flu/healthcareworkers.htm>

# Health care worker vaccination data

Health care worker influenza vaccination data for the 2015–2016 influenza season are presented as a rate for HCWs without medical contraindication to vaccination in Table 1. The aggregate table also includes the declination and unknown status rates among eligible HCWs for each facility type. HCW rates are presented both in aggregate and stratified by HCW classifications, which include all facility licensed independent practitioners, students and volunteers, and other contractors.

During the 2015–2016 influenza season, vaccination rates for health care workers varied by worker type. Health care workers classified as employees had the highest vaccination rates in hospitals, skilled nursing facilities and dialysis facilities. Ambulatory surgery centers had the highest rates among their students and volunteers. HCWs classified as other contractors had the lowest vaccination rates in all facility types. It is important to note that low vaccination rates may be driven by the high proportion of workers with unknown vaccination status. This illuminates the need to improve documentation of vaccination status.

**Table 1. Aggregate HCW influenza vaccination rate data for the 2015–2016 influenza season by facility type and HCW classification**

Facility and HCW classification	HCWs eligible for vaccination*	Rate of influenza vaccination among eligible HCWs	Rate of influenza vaccine declination by eligible HCWs	Rate of unknown vaccination status among eligible HCWs	Change in HCW influenza vaccination rate since 2014
<b>Hospitals</b>					
All HCW	99,157	78%	9%	13%	17%
Employees	73,497	83%	10%	7%	5%
Independent practitioners	9,384	63%	4%	33%	-25%
Students and volunteers	13,880	65%	5%	30%	12%
Other contractors	2,396	69%	11%	19%	77%
<b>Ambulatory surgery centers</b>					
All HCW	5,333	72%	17%	11%	-7%
Employees	3,218	72%	20%	8%	3%
Independent practitioners	1,757	74%	10%	15%	6%
Students and volunteers	109	83%	6%	11%	19%

Facility and HCW classification	HCWs eligible for vaccination*	Rate of influenza vaccination among eligible HCWs	Rate of influenza vaccine declination by eligible HCWs	Rate of unknown vaccination status among eligible HCWs	Change in HCW influenza vaccination rate since 2014
Other contractors	249	58%	23%	19%	-5%
<b>Skilled nursing facilities</b>					
All HCW	15,709	60%	19%	21%	140%
Employees	13,815	62%	21%	17%	8%
Independent practitioners	374	56%	9%	36%	-9%
Students and volunteers	1,110	44%	6%	50%	-19%
Other contractors	410	51%	5%	44%	-10%
<b>Dialysis facilities</b>					
All HCW	3,001	85%	6%	9%	N/A
Employees	1,893	90%	9%	1%	N/A
Independent practitioners	1,071	75%	1%	24%	N/A
Students and volunteers	24	79%	8%	13%	N/A
Other contractors	13	69%	8%	23%	N/A

\*Includes total number of HCWs, including employees, licensed independent practitioners, students and volunteers, and other contractors without documented medical contraindication for influenza vaccination.

## Facility-specific data

Tables 2–5 show facility-specific vaccination, declination and unknown status rates for all HCWs combined for each facility type. There are two additional columns designating whether facilities met or did not meet the HCW influenza vaccination Healthy People 2015 (HP2015) and 2020 (HP2020) goals of 75% and 90%, respectively. The last column of the tables includes the number of additional HCWs needed to vaccinate to reach the HP2020 target of 90%. Figures 2–5 display facility-specific vaccination rates for hospitals, ambulatory surgery centers, skilled nursing facilities, and dialysis facilities from highest to lowest.

Online maps have also been created on <https://data.oregon.gov> to display HCW influenza vaccination rates. For facility-specific maps, see <http://www.healthoregon.org/hai-reports>.

## Facility-specific table elements

**Facility name:** Facilities are listed if they reported HCW influenza vaccination data for the 2015–2016 season.

**#HCW eligible for influenza vaccination:** includes the total number of HCWs including employees, licensed independent practitioners, other contractors, students and volunteers, without documented medical contraindication for influenza vaccination.

**Rate of influenza vaccination for eligible HCW:** calculated as (total number of HCWs vaccinated at the facility + total number of HCWs vaccinated elsewhere) / (total number of HCWs eligible for influenza vaccination).

**Rate of vaccine declination by eligible HCW:** calculated as (total number of HCWs who declined to receive the influenza vaccine) / (total number of HCWs eligible for influenza vaccination).

**Rate of unknown vaccination status by eligible HCW:** calculated as (total number of HCWs with unknown vaccination status) / (total number of HCWs eligible for influenza vaccination).

**Change in vaccination rate since last season:** calculated as (2015–2016 vaccination rate minus 2014–2015 vaccination rate) / (2015–2016 vaccination rate \* 100).

**Benchmarks:** The following symbols indicate a facility's performance in relation to the Healthy People goals:

✓ Vaccination rates met the HP2015 or HP2020 goal

✗ Vaccination rates did not meet the HP2015 or HP2020 goal

**Additional HCWs needed to vaccinate to reach HP2020:** calculated as (total HCWs eligible for vaccination \* 0.9) – (total number of HCWs vaccinated at the facility + total number of HCWs vaccinated elsewhere).



**Table 2. HCW influenza vaccination rates, rates of declination and rates of unknown vaccination status for the 2015—2016 influenza season: hospitals (n=64)**

Vaccination rates are presented for each hospital. Seventy percent (n=45) of hospitals met the HP2015 goal and 11% (n=7) met the HP2020 goal. Compared to last season, 65% of hospitals (n=42) reported an increase in vaccination rates.

Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
Adventist Medical Center	2634	77%	11%	12%	-9%	✓	✗	344
Asante Ashland Community Hospital	486	69%	19%	12%	16%	✗	✗	103
Asante Rogue Regional Medical Center	4367	71%	20%	9%	+3%	✗	✗	832
Asante Three Rivers Medical Center	1501	76%	15%	9%	-3%	✓	✗	209
Bay Area Hospital	1452	76%	23%	2%	-3%	✓	✗	209
Blue Mountain Hospital	256	97%	3%	0%	+45%	✓	✓	
Cedar Hills Hospital	354	60%	12%	28%	+4%	✗	✗	105
Columbia Memorial Hospital	677	83%	17%	0%	+1%	✓	✗	44
Coquille Valley Hospital	249	54%	21%	25%	+5%	✗	✗	90
Cottage Grove Community Hospital	237	84%	2%	14%	+2%	✓	✗	14
Curry General Hospital	334	82%	9%	9%	-1%	✓	✗	26
Good Samaritan Regional Medical Center	2674	81%	7%	12%	+8%	✓	✗	230
Good Shepherd Medical Center	879	85%	3%	11%	-2%	✓	✗	40
Grande Ronde Hospital	878	85%	11%	3%	+11%	✓	✗	40
Harney District Hospital	231	79%	12%	9%	-16%	✓	✗	26
Kaiser Permanente Sunnyside Medical Center	2317	72%	4%	23%	+1%	✗	✗	406
Kaiser Permanente Westside Medical Center	1013	78%	0%	22%	0%	✓	✗	125
Lake District Hospital	284	63%	10%	27%	+32%	✗	✗	77
Legacy Emanuel Medical Center and Randall Childrens Hospital	5475	87%	11%	2%	+4%	✓	✗	177
Legacy Good Samaritan Medical Center	2976	87%	9%	3%	+6%	✓	✗	76

Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
Legacy Meridian Park Medical Center	1878	88%	9%	3%	+4%	✓	✗	40
Legacy Mt. Hood Medical Center	1411	82%	15%	3%	+1%	✓	✗	113
Lower Umpqua Hospital	260	35%	8%	56%	-101%	✗	✗	142
McKenzie-Willamette Medical Center	998	71%	24%	4%	+9%	✗	✗	186
Mercy Medical Center	2010	70%	22%	8%	+1%	✗	✗	392
Mid-Columbia Medical Center	1149	81%	16%	3%	+12%	✓	✗	108
OHSU	14776	78%	5%	17%	-14%	✓	✗	1846
Oregon State Hospital	2060	64%	7%	29%	N/A	✗	✗	538
Oregon State Hospital - Junction City	274	81%	15%	4%	N/A	✓	✗	24
PeaceHealth Peace Harbor Medical Center	374	91%	5%	3%	-2%	✓	✓	
Pioneer Memorial Hospital - Heppner	121	93%	7%	0%	-3%	✓	✓	
Pioneer Memorial Hospital - Prineville	237	75%	4%	21%	-3%	✓	✗	36
Providence Hood River Memorial Hospital	592	79%	6%	15%	+11%	✓	✗	67
Providence Medford Medical Center	1554	68%	10%	21%	+8%	✗	✗	335
Providence Milwaukie Hospital	750	81%	6%	13%	+10%	✓	✗	70
Providence Newberg Medical Center	769	82%	6%	12%	+4%	✓	✗	62
Providence Portland Medical Center	4505	78%	5%	17%	+5%	✓	✗	551
Providence Seaside Hospital	511	89%	2%	9%	+5%	✓	✗	7
Providence St. Vincent Medical Center	5171	78%	4%	18%	+3%	✓	✗	608
Providence Willamette Falls Medical Center	1092	77%	9%	14%	+4%	✓	✗	138
Sacred Heart Medical Center at RiverBend	5105	72%	4%	24%	-11%	✗	✗	917
Sacred Heart Medical Center University District	1281	54%	1%	45%	-24%	✗	✗	462

Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
Salem Hospital	5681	90%	5%	5%	+6%	✓	✗	18
Samaritan Albany General Hospital	1193	87%	6%	7%	+14%	✓	✗	33
Samaritan Lebanon Community Hospital	912	82%	7%	11%	-5%	✓	✗	73
Samaritan North Lincoln Hospital	496	77%	4%	19%	-11%	✓	✗	63
Samaritan Pacific Health Systems	608	88%	7%	5%	0%	✓	✗	14
Santiam Memorial Hospital	365	96%	4%	0%	0%	✓	✓	
Shriners Hospitals for Children - Portland	507	79%	4%	17%	+13%	✓	✗	58
Silverton Hospital	1144	82%	16%	1%	0%	✓	✗	88
Sky Lakes Medical Center	1537	68%	10%	21%	-10%	✗	✗	331
Southern Coos Hospital and Health Center	159	69%	9%	21%	+21%	✗	✗	33
St Alphonsus Medical Center-Baker City	257	71%	25%	4%	-17%	✗	✗	49
St Alphonsus Medical Center-Ontario	592	77%	12%	11%	-4%	✓	✗	76
St Anthony Hospital	546	90%	8%	2%	-7%	✓	✓	
St. Charles Medical Center-Bend	4059	77%	9%	14%	0%	✓	✗	519
St. Charles Medical Center-Madras	221	75%	11%	14%	+1%	✓	✗	33
St. Charles Medical Center-Redmond	552	74%	8%	18%	-6%	✗	✗	91
Tillamook Regional Medical Center	691	65%	21%	14%	+2%	✗	✗	170
Tuality Healthcare	1778	88%	4%	8%	+24%	✓	✗	39
Vibra Specialty Hospital	308	81%	1%	18%	-18%	✓	✗	27
Wallowa Memorial Hospital	184	92%	3%	5%	2%	✓	✓	
West Valley Hospital	274	93%	6%	1%	-1%	✓	✓	
Willamette Valley Medical Center	941	73%	17%	10%	-14%	✗	✗	163

\*Percentage change not calculated (N/A) if vaccination rate was 0% during the 2014–2015 influenza season or if hospital did not report influenza vaccination to OHA in 2014–2015.

**Figure 3. Oregon hospitals sorted by HCW influenza vaccination rates for the 2015–2016 influenza season (n=64)**

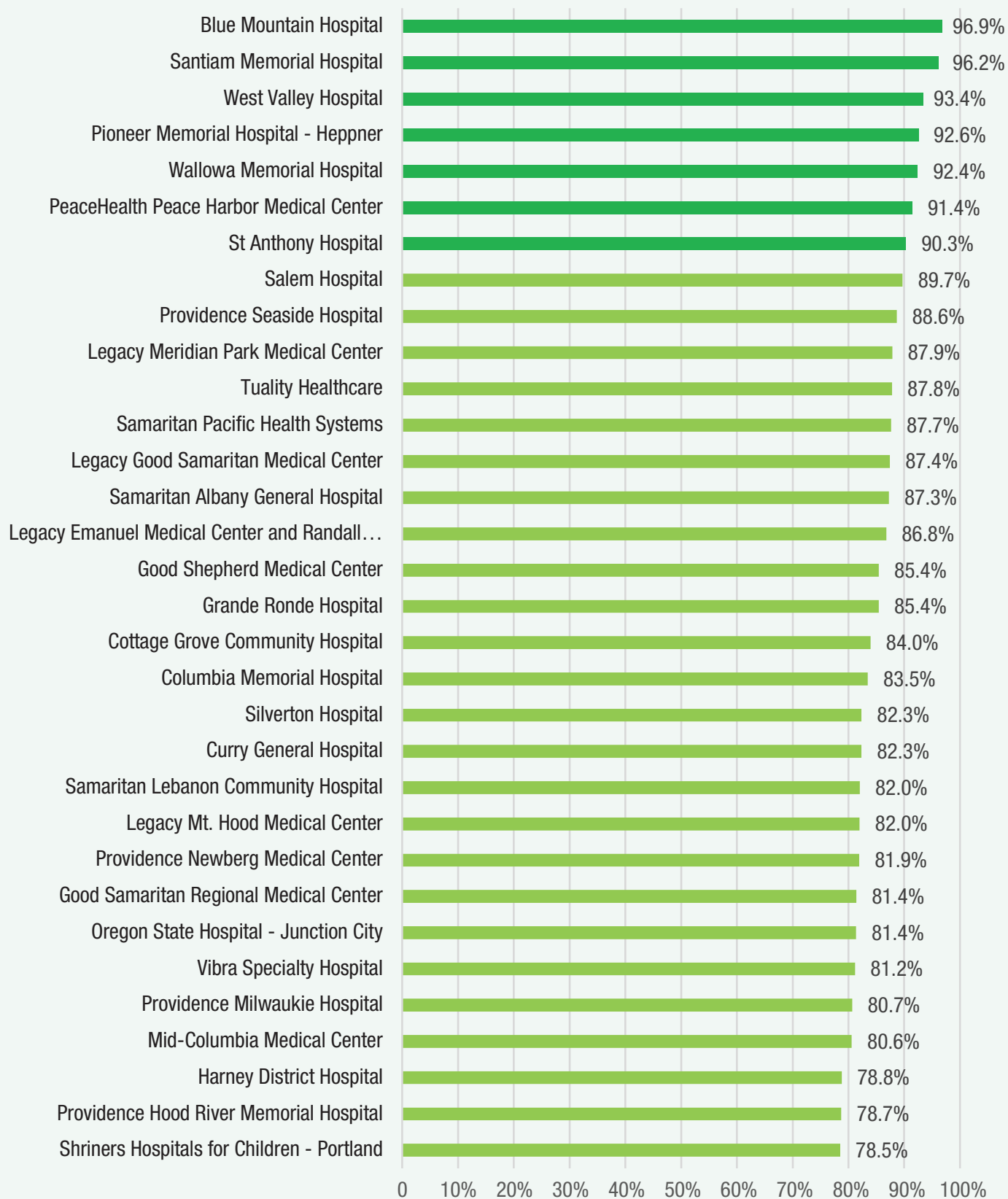
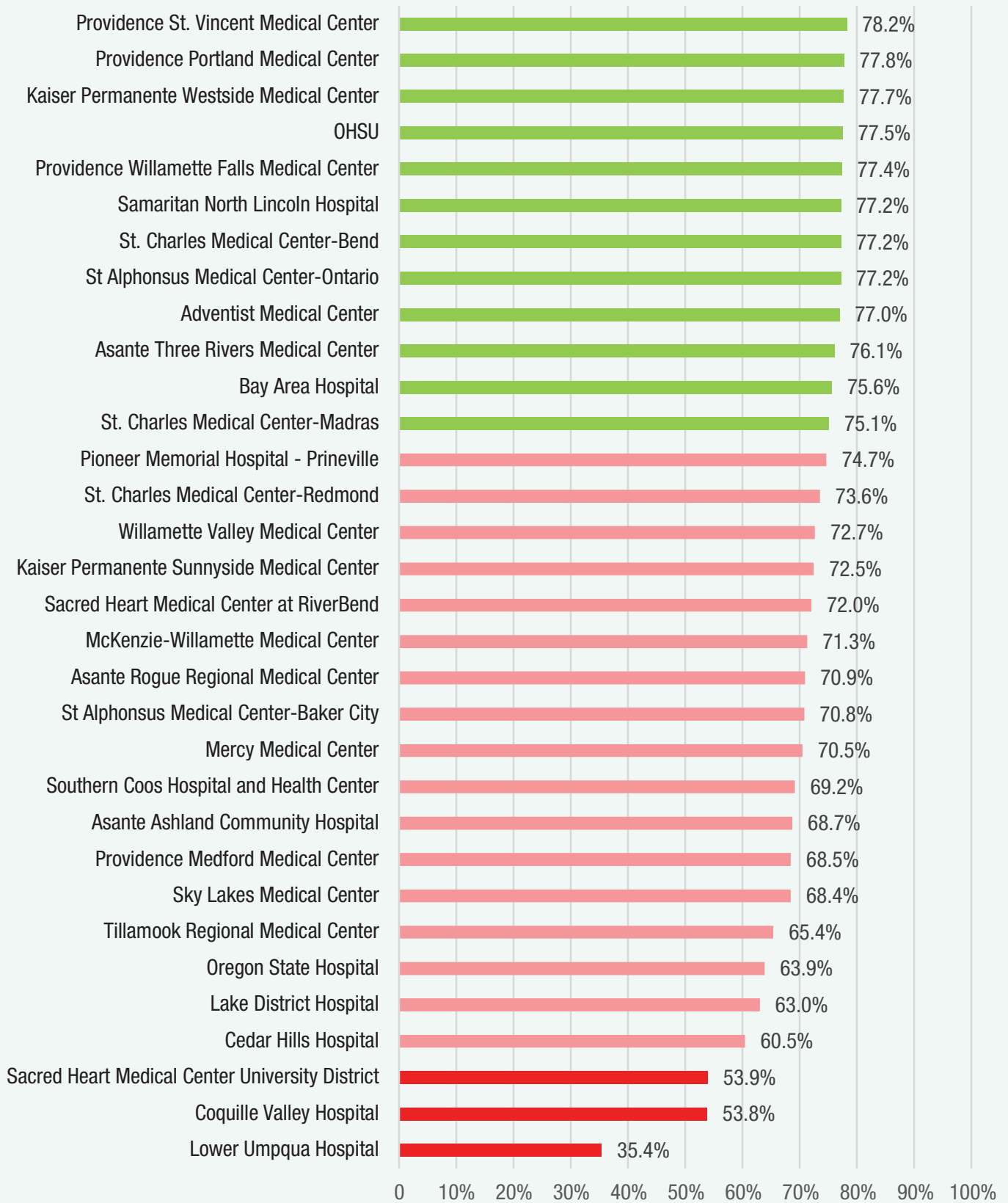


Figure 3. continued



■ Facility with percentage of HCW vaccinated  $\geq 90\%$ 
■ Facility with percentage of HCW vaccinated 60%–74%
 ■ Facility with percentage of HCW vaccinated 75%–90%
 ■ Facility with percentage of HCW vaccinated  $\leq 59\%$

For facility-specific maps, see <http://www.healthoregon.org/hai-reports>.

**Table 3. HCW influenza vaccination rates, rates of declination and rates of unknown vaccination status for the 2015–2016 influenza season: Oregon ambulatory surgery centers (n=85)**

Vaccination rates are presented for each ambulatory surgery center. Forty-two percent (n=36) of ambulatory surgery centers met the HP2015 goal and 12% (n=10) met the HP2020 goal. Compared to last season, 48% of ambulatory surgery centers (n=41) reported an increase in vaccination rates.

Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
Aesthetic Breast and Cosmetic Surgery Center	12	100%	0%	0%	+21%	✓	✓	
Aesthetic Surgery Center of Eugene	22	86%	14%	0%	+22%	✓	✗	1
Alberty Surgery Center	64	72%	28%	0%	+1%	✗	✗	12
Ambulatory Surgery Center at Tanasbourne	141	69%	10%	21%	+22%	✗	✗	30
Ashland Surgery Center	44	39%	9%	52%	-107%	✗	✗	23
Beaver Sports Medicine ASC	26	73%	19%	8%	-12%	✗	✗	4
Bend Surgery Center	294	76%	14%	11%	-18%	✓	✗	43
Capitol Surgery Center	43	63%	23%	14%	-48%	✗	✗	12
Cascade Endoscopy Center	21	86%	14%	0%	-12%	✓	✗	1
Cascade Spine Center	27	48%	52%	0%	0%	✗	✗	11
Cascade Surgery Center LLC	17	76%	24%	0%	+7%	✓	✗	2
Cascade Surgicenter, LLC	110	73%	27%	0%	-7%	✗	✗	19
Cataract and Laser Institute of Southern Oregon	60	68%	32%	0%	+8%	✗	✗	13
Cedar Hills Surgery Center	8	38%	63%	0%	-1%	✗	✗	4
Center for Cosmetic & Plastic Surgery	17	94%	6%	0%	+9%	✓	✓	
Center for Specialty Surgery	116	81%	15%	4%	+20%	✓	✗	10
Columbia Gorge Surgery Center	13	15%	85%	0%	+16%	✗	✗	10
Columbia River Surgery Center	66	76%	12%	12%	-23%	✓	✗	9

Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
Cornell Surgery Center	94	60%	26%	15%	-16%	✗	✗	29
Croisan Ridge Surgery Center	21	57%	29%	14%	+42%	✗	✗	7
Doctors Park Surgery Center	46	74%	15%	11%	-11%	✗	✗	7
East Oregon Surgery Center	22	9%	18%	73%	-538%	✗	✗	18
East Portland Surgery Center	63	79%	21%	0%	+27%	✓	✗	7
Eastern Oregon Regional Surgery Center	2	0%	100%	0%	N/A	✗	✗	2
Eye Surgery Center - Albany	18	78%	22%	0%	-12%	✓	✗	2
Eye Surgery Institute	39	56%	44%	0%	57%	✗	✗	13
EyeHealth Eastside Surgery Center	58	74%	22%	3%	-8%	✗	✗	9
Futures Outpatient Surgical Center	52	88%	10%	2%	N/A	✓	✗	1
Grants Pass Surgery Center, LLC	85	66%	19%	15%	N/A	✗	✗	21
Kaiser Permanente Sunnybrook	454	71%	8%	21%	0%	✗	✗	88
Kaiser Permanente Skyline	303	79%	10%	11%	0%	✓	✗	34
Kaiser Permanente South Interstate	240	70%	11%	19%	0%	✗	✗	48
Klamath Surgery Center	30	53%	3%	43%	+6%	✗	✗	11
Lane Surgery Center	29	90%	10%	0%	+16%	✓	✓	
Laser & Surgical Eye Center, LLC	39	44%	54%	3%	-3%	✗	✗	18
Lovejoy Surgicenter	48	29%	10%	60%	-3%	✗	✗	29
McKenzie Surgery Center	122	38%	20%	42%	-94%	✗	✗	64
Meridian Center for Surgical Excellence	12	92%	8%	0%	-9%	✓	✓	
Middle Fork Surgery Center	13	69%	31%	0%	+6%	✗	✗	3
Mt. Scott Surgery Center	39	72%	28%	0%	+28%	✗	✗	7
North Bend Medical Center	63	70%	14%	16%	-22%	✗	✗	13



Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
Northbank Surgical Center	134	64%	11%	25%	+14%	✗	✗	35
Northwest Ambulatory Surgery Center	89	89%	6%	6%	+17%	✓	✗	1
Northwest Center for Plastic Surgery, LLC	12	100%	0%	0%	+24%	✓	✓	
Northwest Gastroenterology Clinic	33	79%	3%	18%	-9%	✓	✗	4
Northwest Spine and Laser Surgery Center	81	85%	15%	0%	+1%	✓	✗	4
Ontario Surgery Center	12	83%	17%	0%	+20%	✓	✗	1
Oregon Ear, Nose, and Throat Surgery Center, LLC	37	49%	11%	41%	+8%	✗	✗	15
Oregon Endoscopy Center, LLC	41	90%	7%	2%	-3%	✓	✓	
Oregon Eye Surgery Center, Inc.	61	51%	36%	13%	-20%	✗	✗	24
Oregon Outpatient Surgery Center	95	80%	20%	0%	+9%	✓	✗	10
Oregon Specialists Surgery Center, LLC	46	72%	28%	0%	+100%	✗	✗	8
Oregon Surgicenter	56	73%	27%	0%	-17%	✗	✗	9
Pacific Cataract and Laser Institute - Portland	11	64%	36%	0%	-41%	✗	✗	3
Pacific Cataract and Laser Institute - Tualatin	15	67%	33%	0%	-13%	✗	✗	4
Pacific Digestive Endoscopy Center	9	44%	56%	0%	15%	✗	✗	4
Pacific Surgery Center	28	68%	32%	0%	-11%	✗	✗	6
Pearl SurgiCenter	27	85%	15%	0%	+6%	✓	✗	1
Petroff Center	15	60%	33%	7%	+32%	✗	✗	5
Plaza Ambulatory Surgery Center, LLC	138	83%	17%	0%	+100%	✓	✗	9
River Road Surgery Center	47	89%	11%	0%	+17%	✓	✗	1
RiverBend Ambulatory Surgery Center	142	86%	4%	10%	+35%	✓	✗	6
Rogue Valley Surgery Center, LLC	7	29%	71%	0%	-16%	✗	✗	4



Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
Rush Surgery Center	33	70%	12%	18%	+11%	✗	✗	7
Salem Endoscopy Center	42	100%	0%	0%	+5%	✓	✓	
Salem Laser and Surgery Center	33	64%	21%	15%	-45%	✗	✗	9
Samaritan Endoscopy Center	24	83%	17%	0%	+3%	✓	✗	2
Slocum Surgery Center	79	58%	0%	42%	+28%	✗	✗	25
South Coast Surgery	32	69%	31%	0%	+27%	✗	✗	7
South Portland Surgical Center, LLC	65	86%	12%	2%	+40%	✓	✗	3
Spine Surgery Center of Eugene	36	89%	8%	3%	-1%	✓	✗	1
Surgery Center of Southern Oregon	222	73%	25%	2%	+14%	✗	✗	37
The Corvallis Clinic Day Surgery Center	9	67%	33%	0%	-40%	✗	✗	2
The Corvallis Clinic Surgery Center	89	85%	13%	1%	-3%	✓	✗	4
The Oregon Clinic Gastroenterology East	85	75%	19%	6%	+15%	✓	✗	13
The Oregon Clinic Gastroenterology South	68	76%	21%	3%	+12%	✓	✗	9
The Oregon Clinic Gastroenterology West	69	93%	7%	0%	+15%	✓	✓	
The Portland Clinic Surgery Centers	44	66%	34%	0%	+7%	✗	✗	11
Two Rivers Surgical Center	55	82%	18%	0%	+6%	✓	✗	5
Valley Plastic Surgery	8	50%	50%	0%	-28%	✗	✗	3
Vision Surgery and Laser Center	32	53%	47%	0%	-4%	✗	✗	12
Westside Surgery Center	38	58%	26%	16%	-9%	✗	✗	12
Willamette Surgery Center	79	92%	6%	1%	-1%	✓	✓	
Wilshire Surgery Center	51	59%	18%	24%	-41%	✗	✗	16
Yamhill Valley Endoscopy	11	91%	9%	0%	-10%	✓	✓	

\*\*Percentage change not calculated (N/A) if vaccination rate was 0% during the 2014–2015 influenza season or if ambulatory surgery center did not report influenza vaccination to OHA in 2014–2015.

**Figure 4. Oregon ambulatory surgery centers sorted by HCW influenza vaccination rates for the 2015–2016 influenza season (n=85)**

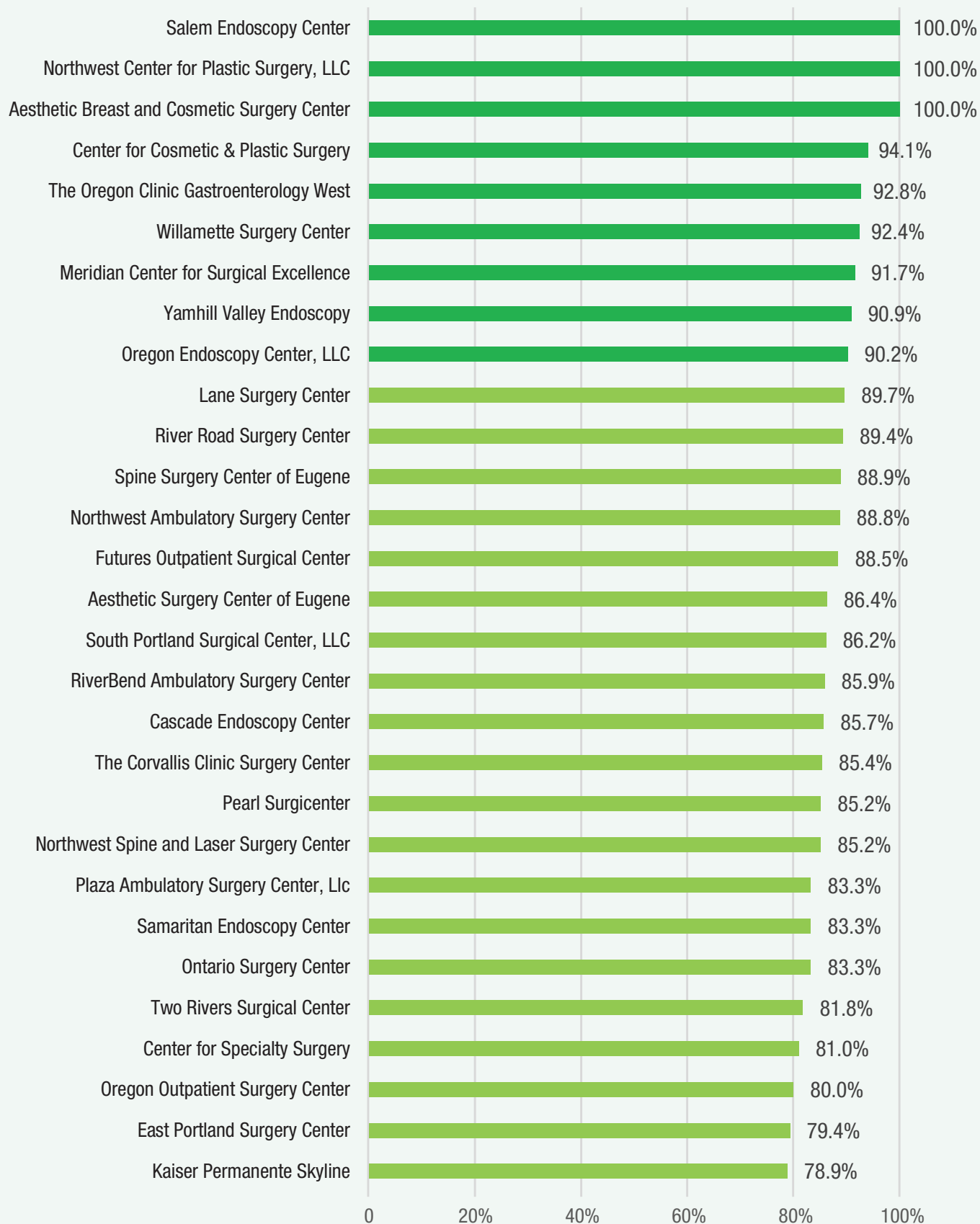


Figure 4. continued

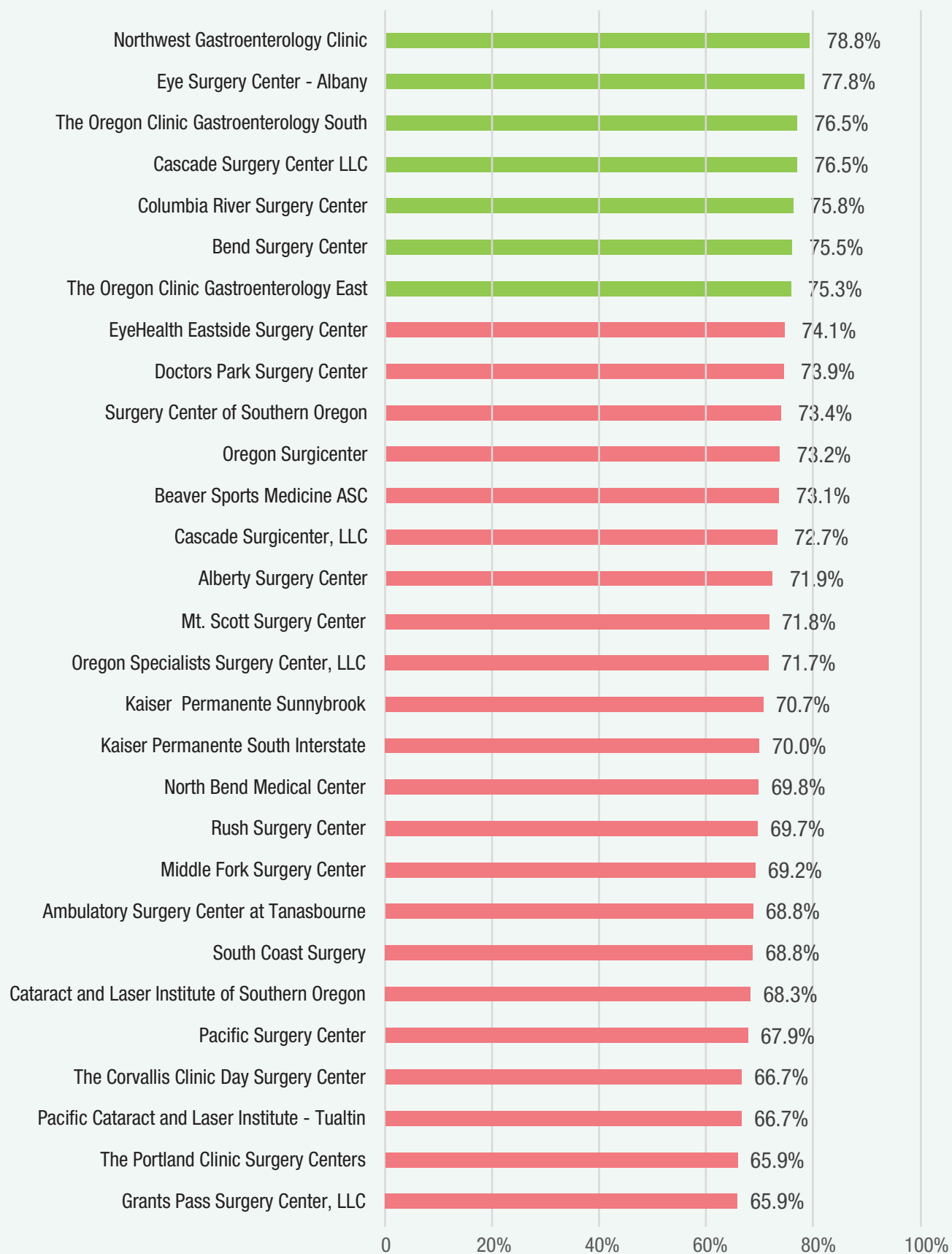
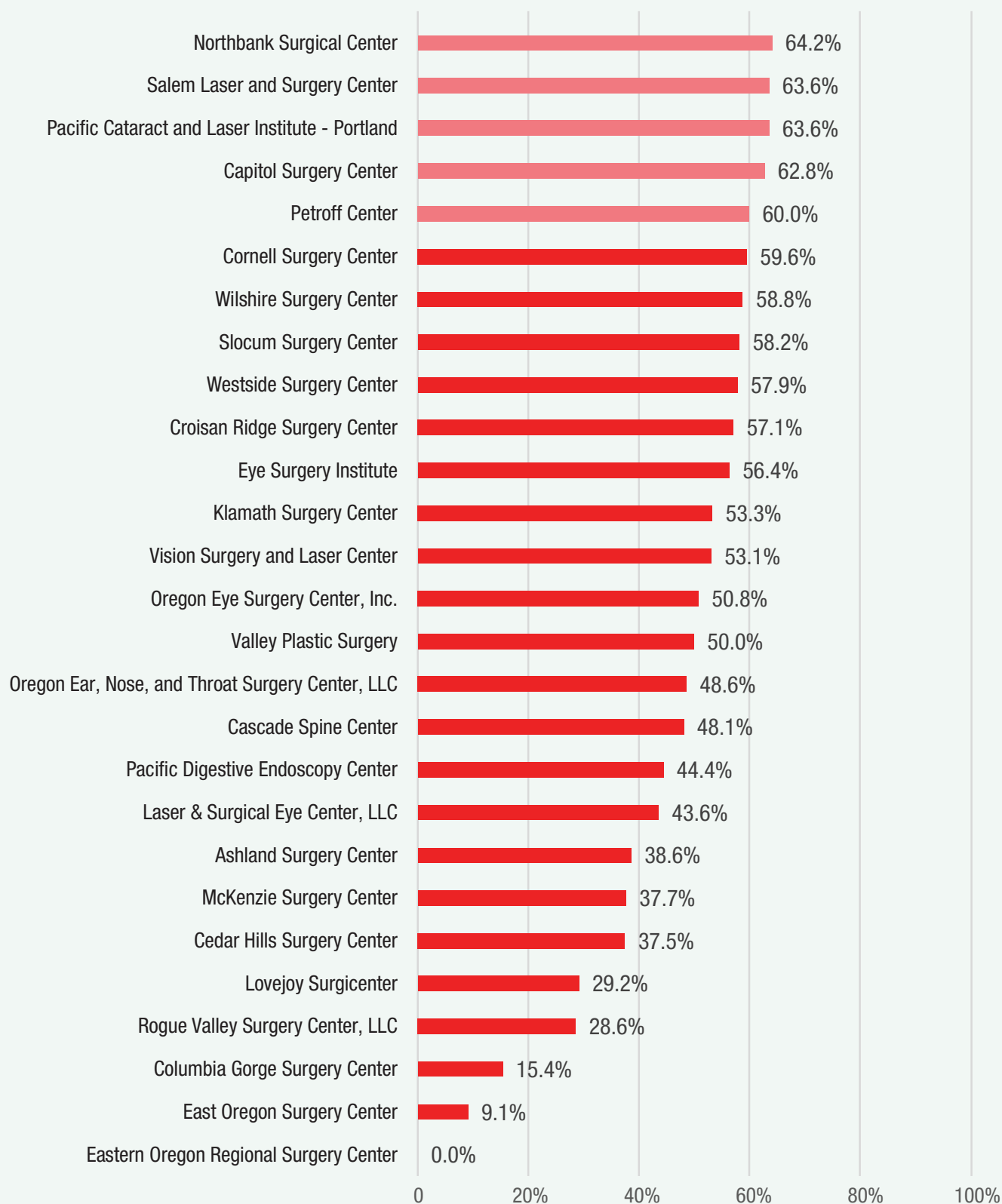


Figure 4. continued



■ Facility with percentage of HCW vaccinated  $\geq 90\%$ 
■ Facility with percentage of HCW vaccinated 60%–74%  
■ Facility with percentage of HCW vaccinated 75%–90%
 ■ Facility with percentage of HCW vaccinated  $\leq 59\%$

For facility-specific maps, see <http://www.healthoregon.org/hai-reports>.

**Table 4. HCW influenza vaccination rates, rates of declination and rates of unknown vaccination status for the 2015–2016 influenza season: Skilled nursing facilities (n=137)**

Vaccination rates are presented for each skilled nursing facility. Forty percent (n=55) of skilled nursing facilities met the HP2015 goal and 13% (n=18) met the HP2020 goal. Compared to last season, 57% of ambulatory surgery centers (n=78) reported an increase in vaccination rates.

Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
Aidan Senior Living at Reedsport	37	84%	11%	5%	+15%	✓	✗	2
Avamere Court at Keizer	86	97%	3%	0%	+37%	✓	✓	
Avamere Crestview of Portland	139	48%	16%	36%	+32%	✗	✗	58
Avamere Health Services of Rogue Valley	89	47%	28%	25%	+3%	✗	✗	38
Avamere Medford at Three Fountains	193	71%	16%	13%	-16%	✗	✗	37
Avamere of Junction City	41	95%	5%	0%	+26%	✓	✓	
Avamere of Newport Rehabilitation and Specialty Care	73	45%	0%	55%	+9%	✗	✗	33
Avamere Rehabilitation of Beaverton	99	79%	21%	0%	+51%	✓	✗	11
Avamere Rehabilitation of Clackamas	71	52%	48%	0%	-42%	✗	✗	27
Avamere Rehabilitation of Coos Bay	85	42%	29%	28%	-84%	✗	✗	41
Avamere Rehabilitation of Eugene	199	26%	74%	0%	+30%	✗	✗	128
Avamere Rehabilitation of Hillsboro	78	21%	64%	15%	-154%	✗	✗	54
Avamere Rehabilitation of King City	95	71%	11%	19%	+48%	✗	✗	19
Avamere Rehabilitation of Lebanon	86	50%	9%	41%	+48%	✗	✗	34
Avamere Rehabilitation of Oregon City	83	49%	2%	48%	+21%	✗	✗	34
Avamere Riverpark Of Eugene	145	54%	30%	16%	+19%	✗	✗	52
Avamere Transitional Care at Sunnyside	141	37%	11%	52%	+11%	✗	✗	75

Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
Avamere Twin Oaks of Sweet Home	45	53%	42%	4%	+55%	✗	✗	17
Baycrest Village	113	97%	3%	0%	+3%	✓	✓	
Bend Transitional Care	95	41%	17%	42%	-49%	✗	✗	47
Blue Mountain Care Center	36	92%	8%	0%	+3%	✓	✓	
Care Center East	76	62%	38%	0%	-18%	✗	✗	21
Cascade Manor	65	42%	0%	58%	-97%	✗	✗	32
Cascade Terrace	128	45%	38%	16%	N/A	✗	✗	57
Chehalem Health and Rehabilitation	36	69%	31%	0%	+5%	✗	✗	7
Clatsop Care Center	129	90%	10%	0%	+12%	✓	✓	
Coast Fork Nursing Center	68	84%	16%	0%	+12%	✓	✗	4
Columbia Basin Care Facility	144	40%	5%	55%	-29%	✗	✗	72
Columbia Care Center	71	30%	56%	14%	-106%	✗	✗	43
Cornerstone Care Option	65	75%	22%	3%	+4%	✓	✗	10
Corvallis Manor Nursing and Rehabilitation Center	111	48%	6%	46%	-30%	✗	✗	47
Creswell Health and Rehabilitation Center	69	80%	20%	0%	+15%	✓	✗	7
Dallas Retirement Village	288	44%	3%	53%	+29%	✗	✗	133
East Cascade Retirement Community	15	100%	0%	0%	+50%	✓	✓	
Empres Hillsboro	79	92%	4%	4%	+84%	✓	✓	
Fernhill Estates	36	58%	36%	6%	-23%	✗	✗	11
Forest Grove Rehabilitation and Care Center	99	40%	29%	30%	-21%	✗	✗	49
French Prairie Nursing and Rehab Center	101	78%	22%	0%	-4%	✓	✗	12
Friendship Health Center (FKA: Holgate Community)	254	43%	11%	46%	+11%	✗	✗	121
Gateway Care & Retirement	100	85%	15%	0%	+9%	✓	✗	5
Glisan Care Center	92	93%	7%	0%	+1%	✓	✓	
Good Samaritan Curry Village	72	67%	33%	0%	-10%	✗	✗	17

Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
Good Samaritan Fairlawn Village	131	66%	12%	22%	+47%	✗	✗	32
Good Samaritan Society Eugene Village	103	83%	14%	3%	+28%	✓	✗	7
Gracelen Terrace	133	99%	1%	0%	-1%	✓	✓	
Green Valley Nursing and Rehabilitation Center	165	93%	7%	0%	+4%	✓	✓	
Healthcare at Foster Creek	198	41%	23%	35%	-117%	✗	✗	96
Hearthstone Nursing & Rehabilitation Center	106	70%	30%	0%	-3%	✗	✗	21
Highland House Nursing and Rehabilitation Center	117	71%	29%	0%	+20%	✗	✗	22
Hillside Heights	78	59%	13%	28%	+61%	✗	✗	24
Holladay Park Plaza	287	26%	11%	62%	-96%	✗	✗	182
Hood River Care Center	80	38%	0%	63%	-28%	✗	✗	42
Independence Health and Rehab	57	93%	5%	2%	+78%	✓	✓	
La Grande Post Acute Rehab	68	84%	1%	15%	+33%	✓	✗	4
Lakeview Gardens	35	89%	11%	0%	+11%	✓	✗	1
Laurel Hill Nursing and Rehab Center	62	87%	13%	0%	+51%	✓	✗	2
Laurelhurst Village	206	51%	10%	39%	+31%	✗	✗	80
Lawrence Convalescent Center	62	82%	18%	0%	+22%	✓	✗	5
Life Care Center of Coos Bay	92	68%	32%	0%	+14%	✗	✗	20
Lifecare Center McMinnville	133	39%	32%	29%	-97%	✗	✗	68
Linda Vista Nursing & Rehabilitation	88	55%	10%	35%	+40%	✗	✗	31
Marian Estates	123	28%	16%	55%	-114%	✗	✗	76
Marquis Autumn Hills	146	62%	14%	25%	-18%	✗	✗	41
Marquis Centennial	169	72%	12%	16%	-32%	✗	✗	30
Marquis Forest Grove	76	68%	25%	7%	-15%	✗	✗	16
Marquis Mt Tabor	251	47%	48%	6%	-18%	✗	✗	109
Marquis Newberg	107	87%	13%	0%	0%	✓	✗	3

Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
Marquis Oregon City Post Acute Rehab	90	49%	19%	32%	-37%	✗	✗	37
Marquis Piedmont	127	62%	38%	0%	-21%	✗	✗	35
Marquis Plum Ridge	142	54%	35%	11%	+11%	✗	✗	51
Marquis Post Acute Rehabilitation at Mill Park	123	85%	11%	4%	+27%	✓	✗	6
Marquis Post Acute Rehabilitation at Hope Village	122	66%	2%	32%	+15%	✗	✗	30
Marquis Silver Gardens	33	97%	3%	0%	-3%	✓	✓	
Marquis Springfield	187	88%	12%	0%	+9%	✓	✗	4
Marquis Tualatin Post Acute Rehab	92	58%	42%	0%	N/A	✗	✗	30
Marquis Vermont Hills	95	76%	12%	13%	-25%	✓	✗	14
Marquis Wilsonville	99	72%	16%	12%	-19%	✗	✗	18
Mary's Woods at Marylhurst	475	37%	11%	52%	-19%	✗	✗	253
Maryville Nursing Home	335	63%	13%	24%	+24%	✗	✗	90
Meadow Park	80	63%	33%	5%	-15%	✗	✗	22
Mennonite Home	169	59%	4%	37%	-6%	✗	✗	52
Milton Freewater Health and Rehabilitation Center	57	96%	4%	0%	+34%	✓	✓	
Mirabella Portland	227	45%	19%	36%	+5%	✗	✗	101
Molalla Manor Care Center	69	86%	6%	9%	-11%	✓	✗	3
Myrtle Point Care Center	54	30%	43%	28%	-89%	✗	✗	33
Nehalem Valley Care Center	69	9%	13%	78%	-958%	✗	✗	56
Oregon City Health Care Center	52	54%	46%	0%	-15%	✗	✗	19
Oregon Veterans' Home, Lebanon	227	54%	13%	33%	-16%	✗	✗	81
Oregon Veterans' Home, The Dalles	270	63%	37%	0%	N/A	✗	✗	72
Pacific Health & Rehabilitation	57	35%	23%	42%	-97%	✗	✗	31
Park Forest Care Center	70	63%	17%	20%	+22%	✗	✗	19
Pilot Butte Rehab	45	64%	36%	0%	+7%	✗	✗	12



Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
Pioneer Nursing Home	80	71%	0%	29%	+100%	✗	✗	15
Porthaven Care Center	118	74%	13%	14%	-26%	✗	✗	19
Portland Health and Rehab	75	99%	1%	0%	+25%	✓	✓	
Presbyterian Community Care Center	96	88%	9%	3%	+46%	✓	✗	2
Prestige Care & Rehab of Menlo Park	82	51%	46%	2%	+8%	✗	✗	32
Prestige Care and Rehab of Reedwood	73	86%	7%	7%	+4%	✓	✗	3
Prestige Post Acute Care & Rehabilitation Center - Gresham	128	17%	70%	13%	-371%	✗	✗	93
Prestige Post-Acute and Rehabilitation Center - McMinnville	57	46%	32%	23%	+6%	✗	✗	25
Prestige Post-Acute and Rehabilitation Center - Milwaukie	98	62%	38%	0%	+55%	✗	✗	27
Providence Benedictine	272	87%	3%	10%	+14%	✓	✗	9
Providence Child Center	331	79%	12%	9%	+2%	✓	✗	38
Regency Albany	77	61%	16%	23%	+36%	✗	✗	22
Regency Care of Central Oregon	48	60%	40%	0%	+55%	✗	✗	14
Regency Care of Rogue Valley	130	48%	39%	13%	-24%	✗	✗	55
Regency Florence	84	77%	23%	0%	+12%	✓	✗	11
Regency Gresham Nursing and Rehabilitation Center	156	62%	38%	0%	+7%	✗	✗	43
Regency Hermiston Nursing and Rehabilitation Center	106	80%	20%	0%	+4%	✓	✗	10
Regency Prineville Rehabilitation and Nursing Center	44	73%	14%	14%	-11%	✗	✗	8
Regency Redmond Rehabilitation and Nursing Center	53	58%	17%	25%	+30%	✗	✗	17
Robison Jewish Health Center	223	40%	3%	57%	-10%	✗	✗	112
Rogue Valley Manor	160	61%	14%	24%	+59%	✗	✗	46

Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
Rose City Nursing Home	36	14%	47%	39%	-490%	✗	✗	27
Rose Haven Nursing Center	95	73%	27%	0%	-12%	✗	✗	17
Rose Linn Care Center	156	31%	10%	59%	17%	✗	✗	91
Rose Villa Senior Living	243	54%	25%	21%	-15%	✗	✗	88
Royale Gardens Health and Rehabilitation Center	182	76%	24%	0%	+18%	✓	✗	26
Salem Transitional Care	139	54%	23%	23%	-65%	✗	✗	50
Sheridan Care Center	79	66%	13%	22%	+23%	✗	✗	19
Sherwood Park Nursing & Rehab Center	118	52%	19%	29%	+36%	✗	✗	45
South Hills Rehabilitation Center	124	95%	5%	0%	-2%	✓	✓	
The Dalles Health and Rehabilitation	40	88%	8%	5%	+28%	✓	✗	1
The Pearl	215	21%	27%	53%	-34%	✗	✗	149
The Village at Hillside	43	12%	0%	88%	+100%	✗	✗	34
Tierra Rose Care Center	159	73%	22%	5%	+5%	✗	✗	27
Timberview Care Center	74	91%	9%	0%	-8%	✓	✓	
Town Center Village Rehab	58	84%	16%	0%	+10%	✓	✗	3
Trinity Mission Health & Rehab of Portland, LLC	56	7%	0%	93%	-544%	✗	✗	46
Umpqua Valley Nursing and Rehabilitation Center	134	66%	34%	0%	+4%	✗	✗	32
Valley West Health Care Center	97	79%	21%	0%	+6%	✓	✗	10
Village Health Care	112	45%	23%	32%	N/A	✗	✗	51
Village Manor	93	6%	94%	0%	-1202%	✗	✗	78
West Hills Health and Rehab	177	84%	7%	10%	+44%	✓	✗	11
Willamette View Health Center	76	47%	9%	43%	+5%	✗	✗	32
Willowbrook Terrace	86	92%	2%	6%	0%	✓	✓	
Windsor Health and Rehabilitation	60	100%	0%	0%	+20%	✓	✓	

\*Percentage change not calculated (N/A) if vaccination rate was 0% during the 2014–2015 influenza season or if skilled nursing facility did not report influenza vaccination to OHA in 2014–2015.

**Figure 5. Oregon skilled nursing facilities sorted by HCW influenza vaccination rates for the 2015–2016 influenza season (n=137)**

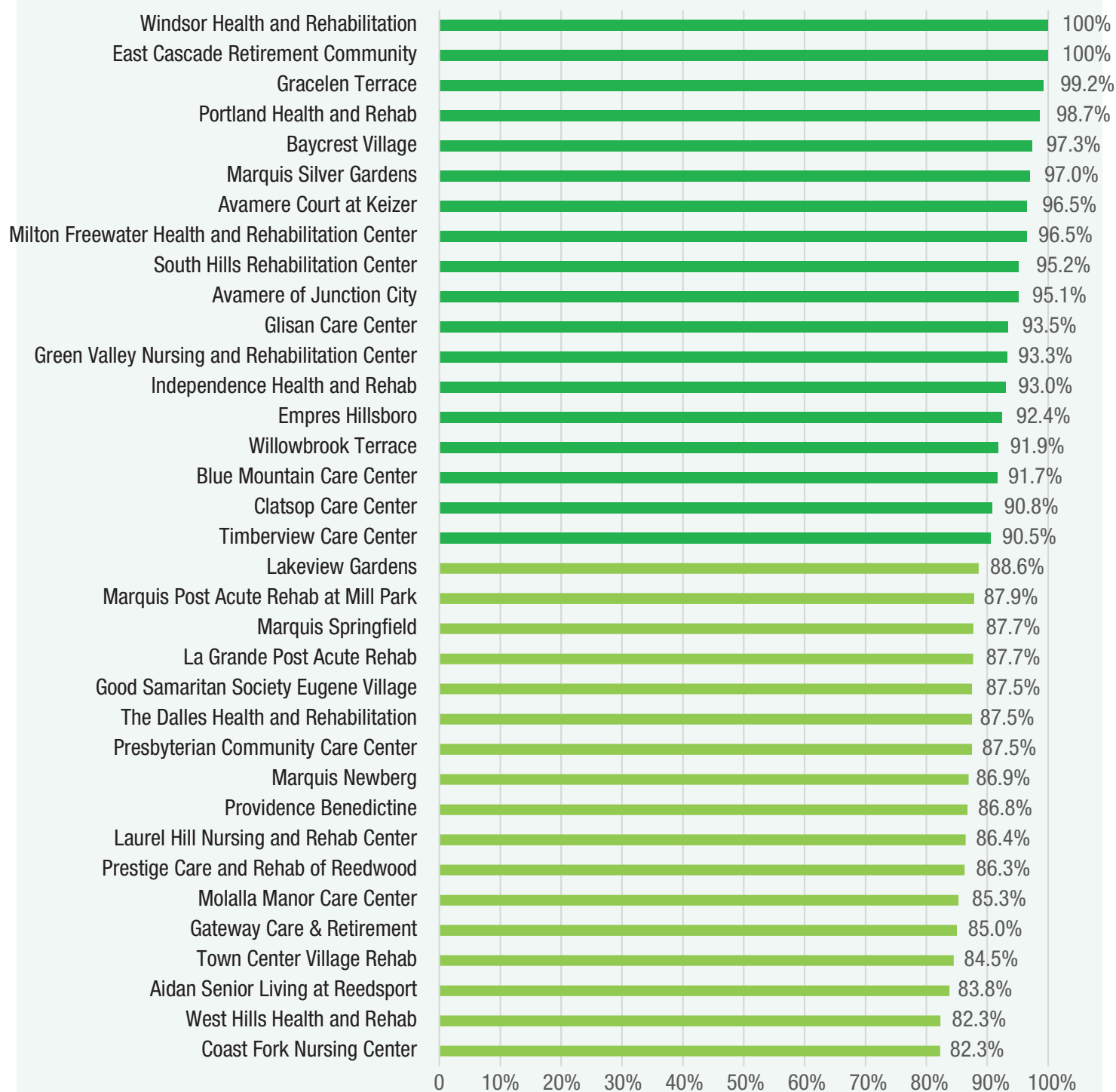


Figure 5. continued

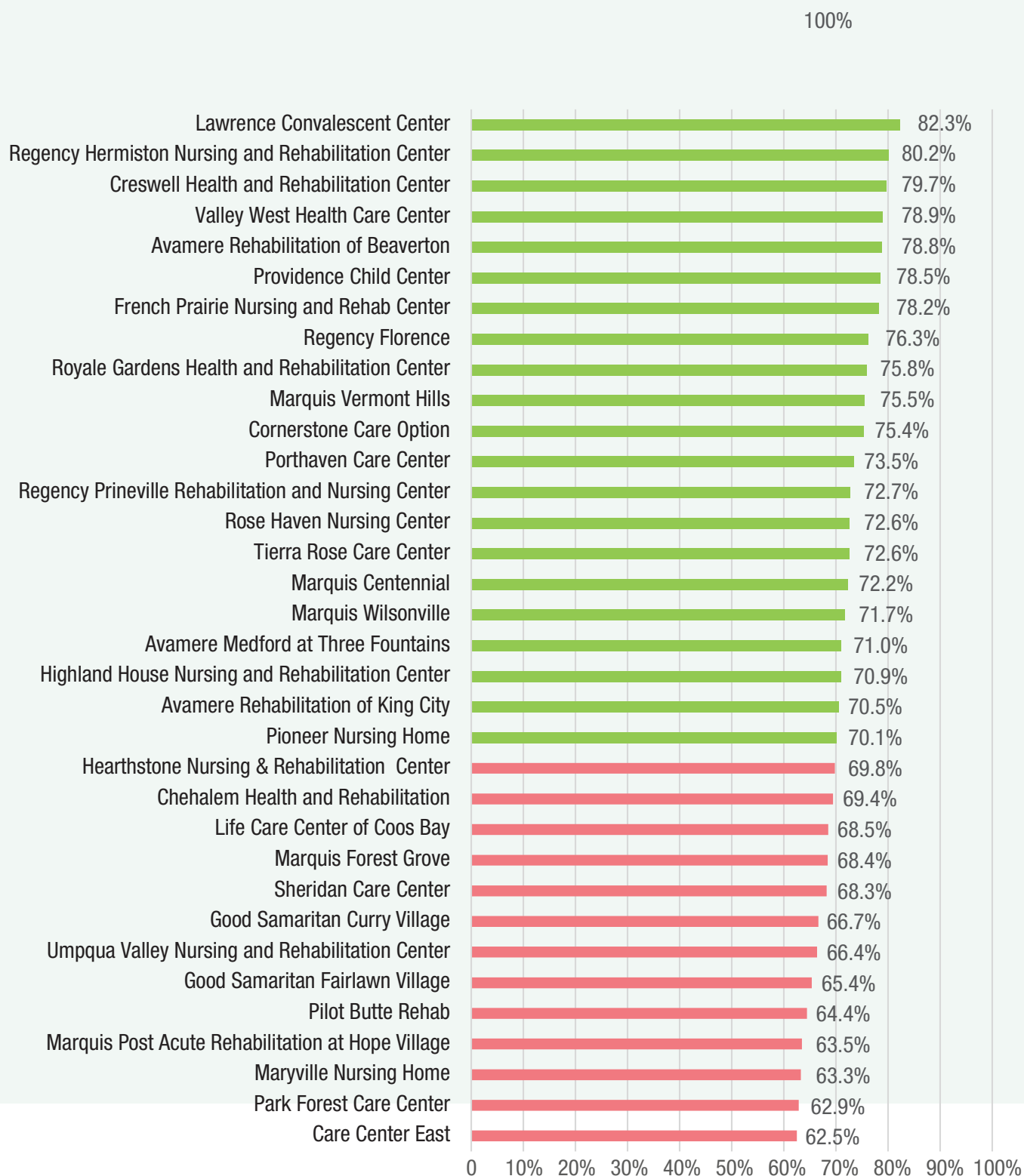


Figure 5. continued

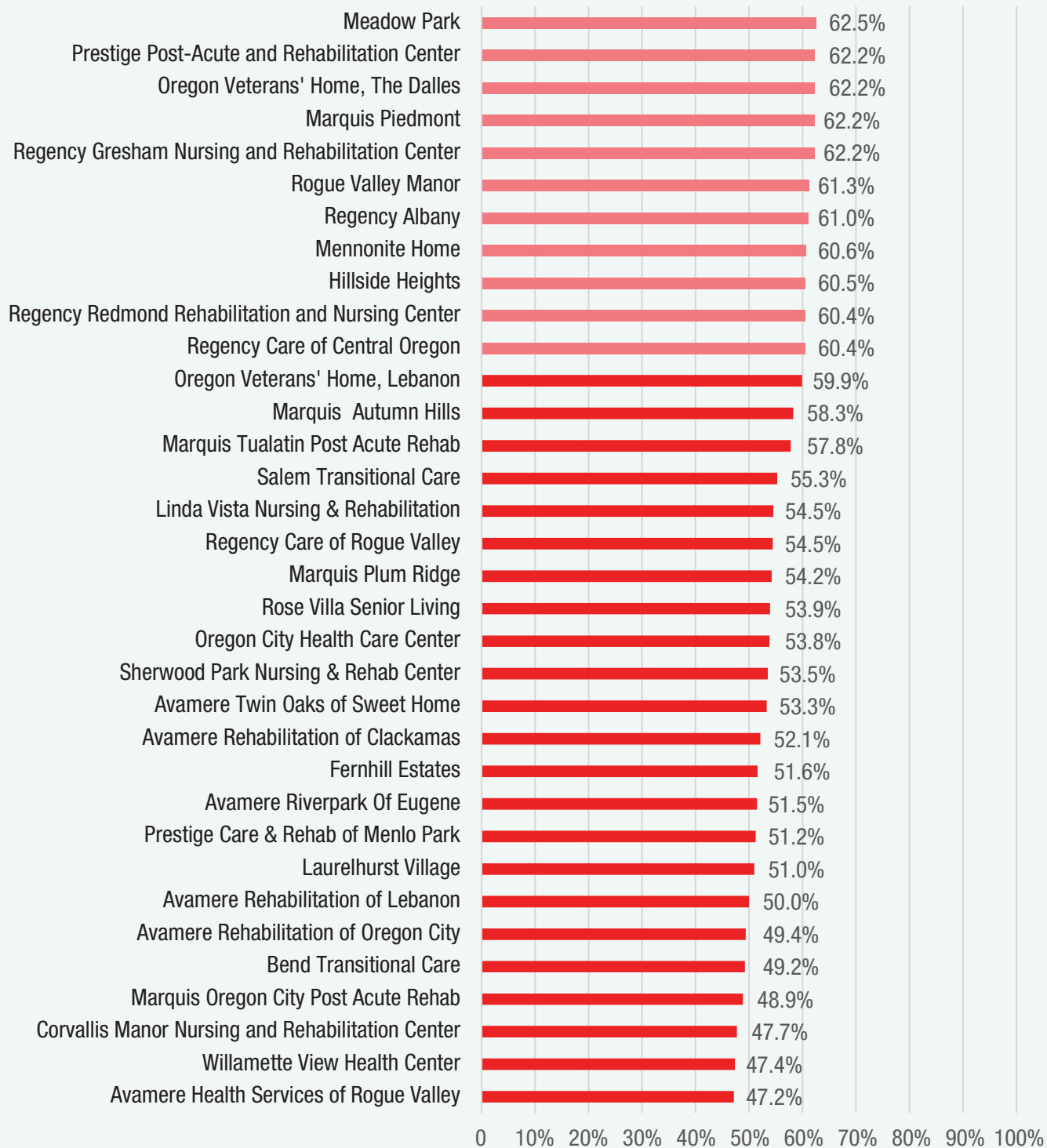
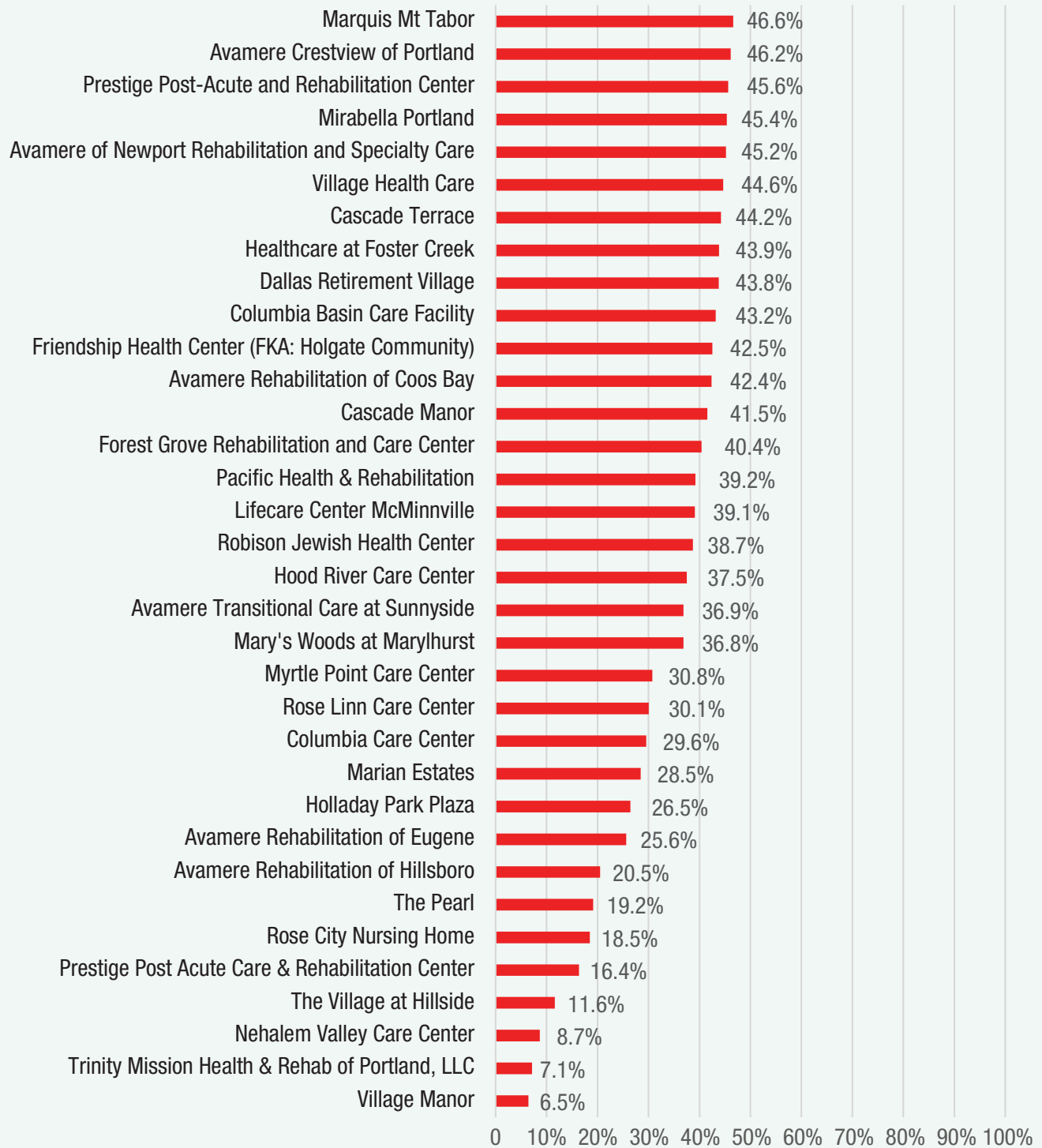


Figure 5. continued



■ Facility with percentage of HCW vaccinated  $\geq 90\%$ 
■ Facility with percentage of HCW vaccinated 60%–74%  
■ Facility with percentage of HCW vaccinated 75%–90%
 ■ Facility with percentage of HCW vaccinated  $\leq 59\%$

For facility-specific maps, see <http://www.healthoregon.org/hai-reports>.

**Table 5. Health care worker (HCW) influenza vaccination rates, rates of declination and rates of unknown vaccination status for the 2015–2016 influenza season: Dialysis facilities (n=67)**

Vaccination rates are presented for each dialysis facility. Eighty-five percent (n=57) of dialysis facilities met the HP2015 goal and 51% (n=34) met the HP2020 goal. This is the first season Oregon dialysis facilities reported their HCW vaccination rates.

Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
Blue Mountain Kidney Center	16	94%	6%	0%	N/A	✓	✓	
Emerald Valley Home	18	94%	6%	0%	N/A	✓	✓	
FMC Bend	38	89%	11%	0%	N/A	✓	✗	1
FMC Clackamas	64	86%	6%	8%	N/A	✓	✗	3
FMC Coos Bay	42	86%	12%	2%	N/A	✓	✗	2
FMC Corvallis	43	88%	7%	5%	N/A	✓	✗	1
FMC Dialysis Services of Mt. Hood	131	73%	7%	21%	N/A	✗	✗	23
FMC Eugene	59	90%	10%	0%	N/A	✓	✓	
FMC Florence	30	87%	13%	0%	N/A	✓	✗	1
FMC Lebanon	33	85%	9%	6%	N/A	✓	✗	2
FMC Madras Dialysis	32	88%	13%	0%	N/A	✓	✗	1
FMC Maywood Park	109	72%	5%	23%	N/A	✗	✗	19
FMC Milton Freewater	23	78%	4%	17%	N/A	✓	✗	3
FMC Newport	22	100%	0%	0%	N/A	✓	✓	
FMC Redmond	33	85%	15%	0%	N/A	✓	✗	2
FMC Sandy Dialysis	77	68%	5%	27%	N/A	✗	✗	17
FMC Scholls Ferry	45	100%	0%	0%	N/A	✓	✓	
FMC West Salem	37	81%	16%	3%	N/A	✓	✗	3
FMS Springfield	43	91%	9%	0%	N/A	✓	✓	
Four Rivers Dialysis Center	24	100%	0%	0%	N/A	✓	✓	
Grants Pass II Dialysis	22	95%	5%	0%	N/A	✓	✓	
Hermiston Community Dialysis	19	100%	0%	0%	N/A	✓	✓	

Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
Hillsboro Dialysis Center	13	100%	0%	0%	N/A	✓	✓	
Hilltop Dialysis	26	92%	8%	0%	N/A	✓	✓	
Klamath Falls Dialysis	21	90%	10%	0%	N/A	✓	✓	
Lake Road Dialysis Center	36	89%	11%	0%	N/A	✓	✗	1
McMinnville Dialysis	32	100%	0%	0%	N/A	✓	✓	
Meridian Park Dialysis Center	41	98%	2%	0%	N/A	✓	✓	
NE Salem Dialysis	18	78%	6%	17%	N/A	✓	✗	2
Noble Woods Dialysis Clinic	46	93%	2%	4%	N/A	✓	✓	
Northeast Portland Renal Center	47	91%	9%	0%	N/A	✓	✓	
Oregon Kidney Center	67	99%	0%	1%	N/A	✓	✓	
Pacific Northwest Home	90	94%	4%	1%	N/A	✓	✓	
PNRS Astoria	36	83%	17%	0%	N/A	✓	✗	2
PNRS Beaverton Dialysis Center	128	76%	3%	21%	N/A	✓	✗	18
PNRS Columbia River The Dalles	61	80%	2%	18%	N/A	✓	✗	6
PNRS Eastern Oregon Dialysis	19	84%	5%	11%	N/A	✓	✗	1
PNRS Emanuel Pediatric Dialysis	18	100%	0%	0%	N/A	✓	✓	
PNRS Evergreen	37	89%	8%	3%	N/A	✓	✗	1
PNRS Hollywood Dialysis Center	127	72%	6%	22%	N/A	✗	✗	23
PNRS Newberg Dialysis Center	93	70%	3%	27%	N/A	✗	✗	19
PNRS Rose Quarter Dialysis Center	54	72%	22%	6%	N/A	✗	✗	10
PNRS Salmon Creek	76	67%	0%	33%	N/A	✗	✗	17
PNRS St Helens Dialysis	105	70%	3%	27%	N/A	✗	✗	21
PNRS Tualatin Kidney Center	121	77%	1%	22%	N/A	✓	✗	16
PNRS Twin Oaks	85	94%	5%	1%	N/A	✓	✓	



Facility Name	#HCWs eligible for influenza vaccine	Rate of influenza vaccination for eligible HCWs	Rate of vaccine declination by eligible HCWs	Rate of unknown vaccination status for eligible HCWs	Change in vaccination rate since last season*	Met HP2015 target (75%)	Met HP2020 target (90%)	Additional HCWs needed to vaccinate to reach HP2020
PNRS/THC Raines Dialysis Center	65	83%	15%	2%	N/A	✓	✗	5
Portland Gateway Dialysis	30	97%	3%	0%	N/A	✓	✓	
Portland MLK Dialysis	28	93%	7%	0%	N/A	✓	✓	
QCI Bend	38	89%	11%	0%	N/A	✓	✗	1
Qualicenters Salem	67	90%	7%	3%	N/A	✓	✓	
Qualicenters Albany	37	86%	8%	5%	N/A	✓	✗	1
Ray Yasui Dialysis Center	22	100%	0%	0%	N/A	✓	✓	
Redwood Dialysis	15	100%	0%	0%	N/A	✓	✓	
Rogue Valley Dialysis	47	100%	0%	0%	N/A	✓	✓	
Roseburg/Mercy Dialysis	26	65%	35%	0%	N/A	✗	✗	6
Salem Dialysis	55	98%	2%	0%	N/A	✓	✓	
Salem North Dialysis	28	96%	4%	0%	N/A	✓	✓	
Sherwood Dialysis Center	16	100%	0%	0%	N/A	✓	✓	
Tillamook Dialysis Center	11	91%	9%	0%	N/A	✓	✓	
USRC Gresham Dialysis Center	15	93%	7%	0%	N/A	✓	✓	
USRC Portland Dialysis Center	20	80%	20%	0%	N/A	✓	✗	2
USRC Portland Home Therapies	6	67%	33%	0%	N/A	✗	✗	1
Walker Road Dialysis	29	100%	0%	0%	N/A	✓	✓	
West Linn Dialysis Center	21	100%	0%	0%	N/A	✓	✓	
Willamette Valley Renal Center	39	97%	3%	0%	N/A	✓	✓	
Woodburn Dialysis	29	86%	7%	7%	N/A	✓	✗	1

\*Percentage change not calculated since this is the first year dialysis facilities have reported.

**Figure 6. Oregon dialysis facilities sorted by HCW influenza vaccination rates for the 2015–2016 influenza season (n=67)**

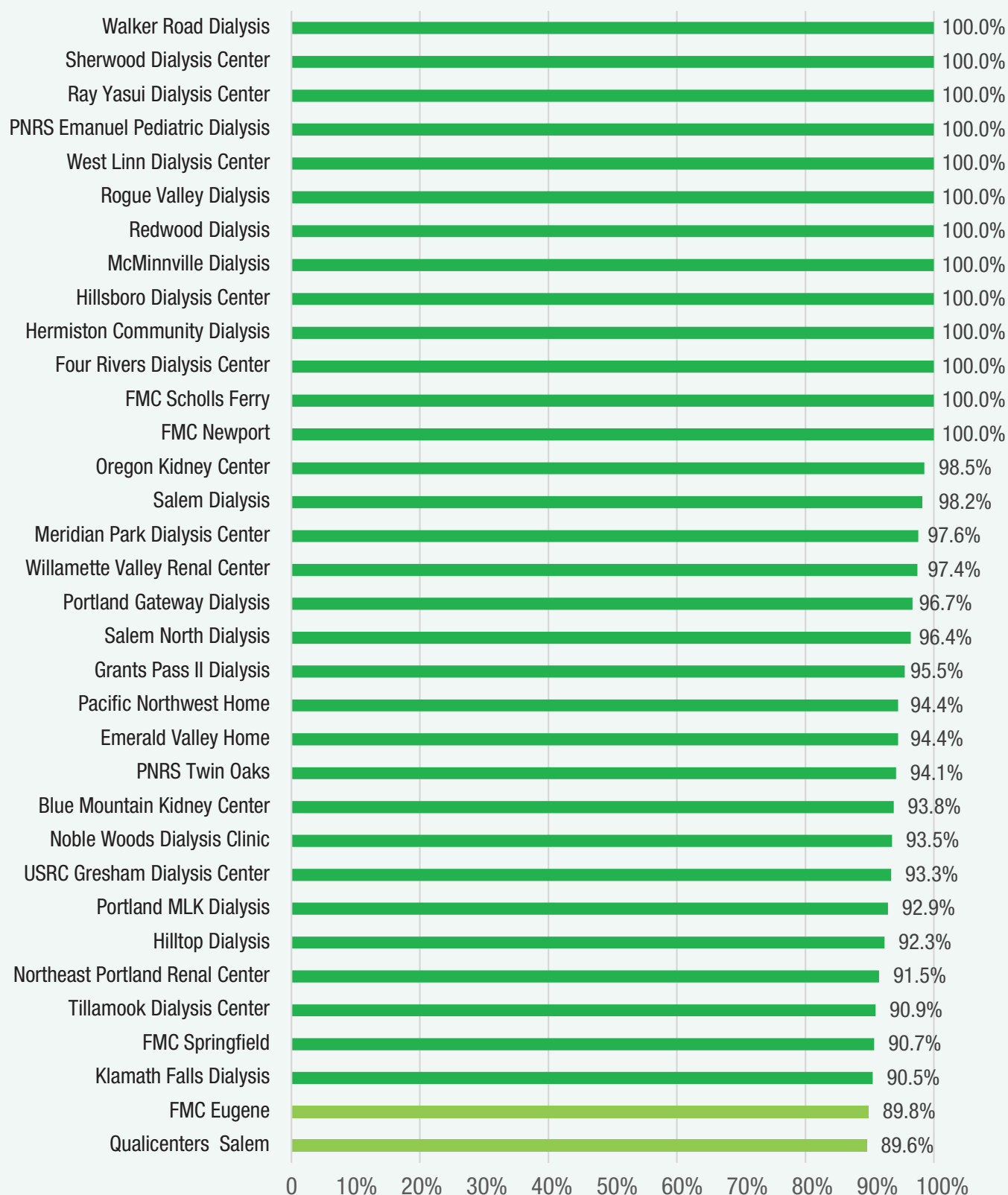
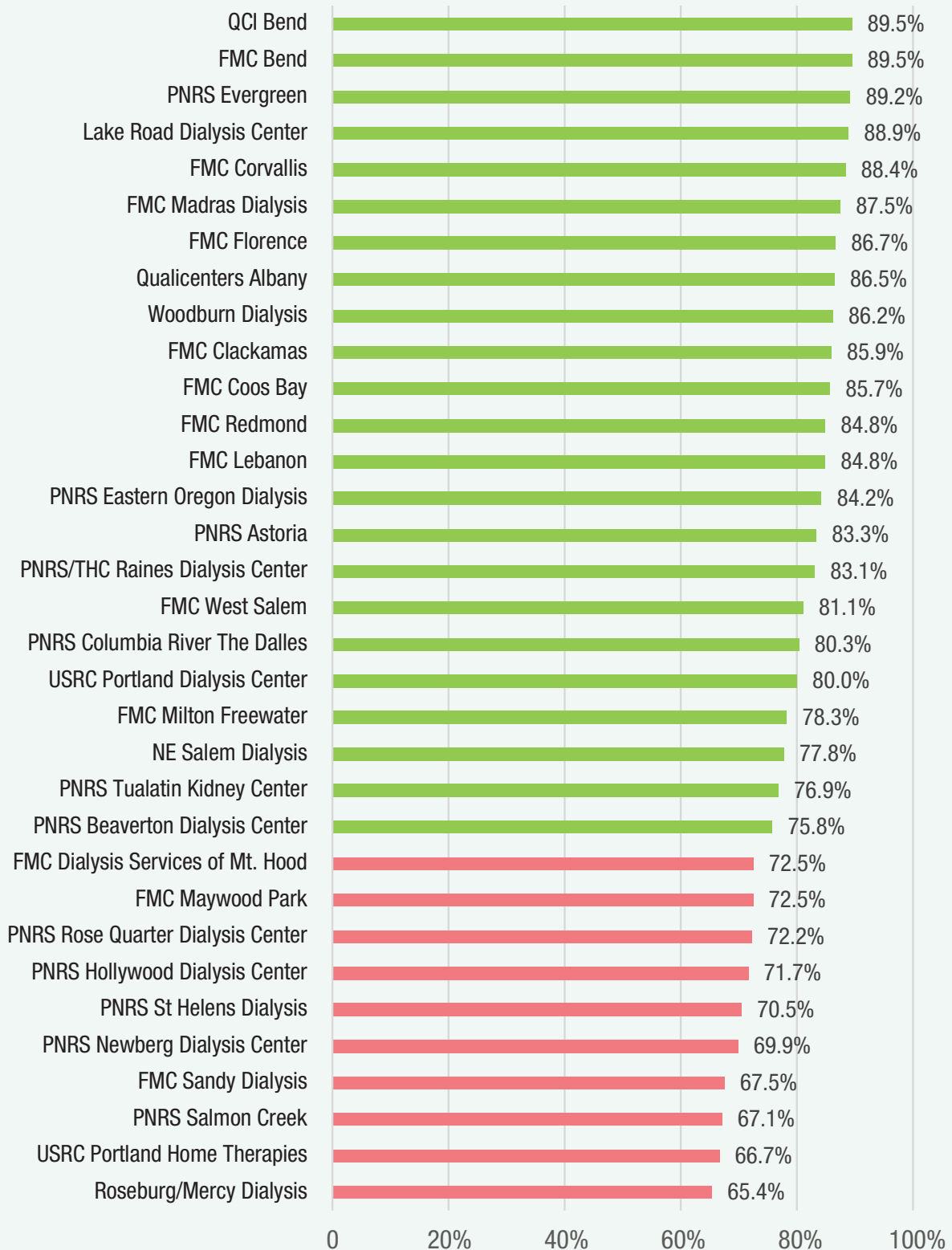


Figure 6. continued



■ Facility with percentage of HCW vaccinated  $\geq 90\%$ 
■ Facility with percentage of HCW vaccinated  $60\% - 74\%$   
■ Facility with percentage of HCW vaccinated  $75\% - 90\%$ 
■ Facility with percentage of HCW vaccinated  $\leq 59\%$

For facility-specific maps, see <http://www.healthoregon.org/hai-reports>.

# References

1. Thompson, MG, Shay, DK, Zhou, H, Bridges, CB, Cheng, PY, Burns, E, Bresee, JS, Cox N. Estimates of deaths associated with seasonal influenza — United States, 1976-2007. MMWR Morbidity and Mortality Weekly Report. 2010;59(33):1057–62.



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