

BRING YOUR VOICE TO THE TABLE

Join the Healthcare-Associated Infections Advisory Committee (HAIAC)

What is the HAIAC?

Oregon's lawmakers passed House Bill 2524 in 2007, creating the Oregon Health Authority's (OHA) Healthcare-Associated Infections (HAI) Program. The HAI Program works to understand and reduce patient infections that occur as a result of the healthcare they receive.

The HAI Advisory Committee (HAIAC) is a multidisciplinary group of stakeholders and partners including healthcare providers, consumers, insurers, and other experts. It provides oversight and advises the HAI Program regarding HAI surveillance and prevention.

How can I get involved?

- *Come to our next meeting.* Anyone is welcome to attend and participate. Tell us your thoughts about how we can best address HAIs in Oregon.
- *Help set our agenda.* Let us know what topics you would like to see covered in the future. Even better: present your work to the HAIAC during an upcoming meeting!
- *Become a member.* HAIAC membership is an opportunity to provide input and expertise, help guide our work, and stay informed about our program's activities. Members commit to a two-year term and attend as many meetings as possible. There are no additional time commitments. Current vacancies are:
 - Physician who practices in an ambulatory surgical center (ASC) with interest and involvement in infection control
 - Representative of the Department of Human Services

What else do I need to know?

- Meetings last two hours, and occur quarterly in March, June, September, and December.
- You can either join meetings in person at the Portland State Office Building (800 NE Oregon Street, Portland, Oregon) or remotely via webinar. No travel is required.
- To register for an upcoming meeting or to view materials from past meetings, visit the HAIAC webpage. <https://go.usa.gov/xpRgr>

To apply to become a member, sign up for future meeting invitations, or to find out more, please contact:

Roza Tammer, MPH, CIC
Infection Control Epidemiologist
971-346-0632 | roza.p.tammer@state.or.us



Overview

When you join a Zoom meeting hosted by another user, you are considered a participant, unless the original host [adds you as a co-host](#) or transfers host controls to you. The user who scheduled the meeting or was selected to be the [alternative host](#) (if the host is unable to join) will have [host controls](#). Learn more about [roles in a meeting](#).

Prerequisites

The participant controls appear at the bottom of your screen if you're not currently screen sharing.



Participants have access to these features:

Join Audio or **Unmute** / **Mute** : Mute and unmute your microphone.

Audio Controls (click the ^ arrow next to **Mute** / **Unmute**): Allows you to change the microphone and speaker that Zoom is currently using on your computer, leave computer audio, and access the full [audio settings](#).

Tip: Use the following [keyboard shortcuts](#) to mute or unmute yourself. You can also use [push to talk](#) if you want to unmute yourself by holding the spacebar.

- Windows: **Alt + A**
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Start Video / **Stop Video** : Turns your camera on or off.

Video Controls (click the ^ arrow next to **Start Video** / **Stop Video**): Change cameras if you have multiple cameras, select a [virtual background](#) (if enabled), or access your full [video settings](#).

Participants : See who's currently in the meeting and [invite others](#). You can also access these options by hovering over your display name and clicking **More**:



- **Rename:** Change your screen name displayed to other participants.
- **Share My Pronouns/Unshare My Pronouns:** If you have [entered your pronouns in your profile](#), you can choose to [share or unshare your pronouns](#) in the current meeting. This feature requires Zoom version 5.7.0 or higher.


Chat : Access the chat window to [chat with other participants](#).

Share Screen : Start a [screen share](#) (if the host allows). You will be able to select the desktop or application you want to share.

Record : Start or stop a [local recording](#). Participants do not have access to start a cloud recording.

Note: The host will need to [allow local recordings in their account settings, then give you permission to record](#). If you don't have permission to record, use the in-meeting chat or audio to ask the host for permission.

Closed Caption  or **Live Transcript** : When enabled by the host, click to start viewing either [closed captions](#) or [the live transcript](#).

Reactions : [Meeting reactions, nonverbal feedback, and Raise Hand](#) allow you to communicate issues or feedback to the host or presenter without disrupting the meeting. These reactions are shown on your video panel and next to your name on the participants panel.

Leave: Leave the meeting while it continues for the other participants. Only the host can [end the meeting](#).

Reference: <https://support.zoom.us/hc/en-us/articles/200941109-What-Are-the-Attendee-Controls->

HAIAC Members

<p>Genevieve Buser, MD Pediatric Infectious Disease Physician Providence St. Vincent Medical Center 7327 SW Barnes Road, Suite 117 Portland, OR 97225 Office: (503) 216-6050 Fax: (971) 282-0102 E-mail: genevieve.buser@providence.org</p>	<p>Joshua Bardfield Supply Chain Services Manager The Oregon Clinic, P.C. 1111 NE 99th Ave., Suite 100 Portland, OR 97220 Office: (503) 963-2955 E-mail: jbardfield@orclinic.com</p>	<p>Trista Berry MS, CIC Quality and Patient Safety Manager, Infection Prevention Saint Alphonsus Baker City 3325 Pochontas Rd, Baker City OR 97814 Office: 541-524-7733 E-mail: Trista.Berry@saintalphonsus.org</p>
<p>Paul Cieslak, MD Medical Director Acute & Communicable Disease Prevention Oregon Public Health Division 800 NE Oregon Street, Suite 772 Portland, OR 97232 Office: (971) 673-1111 Fax: (971) 673-1100 E-mail: paul.r.cieslak@state.or.us</p>	<p>Pamela S. Cortez, MBA, BSN, RN, CNE, BC Director of Patient Safety and Clinical Support Salem Health 2990 Tara Way SE Salem, OR 97317 Office: (503) 814-2790 E-mail: pamela.cortez@salemhealth.org</p>	<p>Dennis Drapiza, MPH, BSN, RN, CIC Regional Director – Northwest Infection Prevention and Control Kaiser Permanente Northwest 10180 SE Sunnyside Rd Clackamas, OR 97015 Office: (503) 571-3825 Fax: (503) 571-3830 E-mail: dennis.l.drapiza@kp.org</p>
<p>Wendy Edwards, RN, BSN Patient Safety Surveyor Health Facility Licensing & Certification Oregon Public Health Division 800 NE Oregon St Portland, OR 97232 Office: (971) 673-0189 E-mail: wendy.l.edwards@state.or.us</p>	<p>Jon P. Furuno, PhD Associate Professor Dept. of Pharmacy Practice, OSU/ College of Pharmacy, OHSU 2730 SW Moody Avenue, CL5CP Portland, OR 97201 Office: (503) 418-9361 Fax: (503) 494-8797 E-mail: furuno@ohsu.edu</p>	<p>Jesse Mensik Kennedy, BSN, RN Nurse Practice Consultant Oregon Nurses Association 18765 SW Boones Ferry Rd., Suite 200 Tualatin, OR 97062 Office: (503) 293-0011 E-mail: j.kennedy@oregonrn.org</p>
<p>Kirsten M. Schutte, MD Infectious Disease & Medical Director of Infection Prevention and Control Asante 691 Murphy Road, Suite 107 Medford, OR 97504 Office: (541) 789-4505 Fax: (541) 789-4502 E-mail: kirsten.schutte@asante.org</p>	<p>Vicki Nordby, RN, BSN Nurse Consultant Marquis Companies, Inc 4560 SE International Way, Suite 100 Milwaukie, OR 97222 Office: (503) 880-7198 E-mail: vnordby@marquiscompanies.com</p>	<p>Pat Preston, MS Executive Director Center for Geriatric Infection Control 2498 NW Zinfandel Loop McMinnville, OR 97128 Office: (503) 990-0275 E-mail: prestoninfection@aol.com</p>

<p>Antoinette Awuakye, JD Senior Public and Regulatory Affairs Specialist (Oregon) Cambia Health Solutions 200 SW Market Street, M/S E12B Portland, OR 97201 Office: (503) 553-1521 Fax: (503) 225-5431 E-mail: Antoinette.awuakye@cambiahealth.com</p>	<p>Sydney Edlund, MS Director of Analytics and Research Oregon Patient Safety Commission PO Box 285 Portland, OR 97207 Office: (503) 224-5047 E-mail: Sydney.edlund@oregonpatientsafety.org</p>	<p>Pamela McCollister Patient Advocate Peggy Lillis Foundation</p>
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OPHD Staff

<p>Zintars Beldavs, MS ACDP Section Manager Oregon Public Health Division 800 NE Oregon St, Suite 772 Portland, OR 97232 Office: (971) 673-0166 Fax: (971) 673-1100 E-mail: zintars.g.beldavs@state.or.us</p>	<p>Laura LaLonde, MPH HAI Office Specialist Oregon Public Health Division 800 NE Oregon St, Suite 772 Portland, OR 97232 Office: 971-673-1120 Fax: (971) 673-1100 E-mail: laura.lalonde2@state.or.us</p>	<p>Rebecca Pierce, PhD, MS, BSN HAI & EIP Program Manager Oregon Public Health Division 800 NE Oregon St, Suite 772 Portland, OR 97232 Office: (971) 673-3498 Fax: (971) 673-1100 E-mail: rebecca.a.pierce@state.or.us</p>
<p>Roza Tammer, MPH, CIC Infection Control Epidemiologist Oregon Public Health Division 800 NE Oregon St, Suite 772 Portland, OR 97232 Office: (971) 673-1074 Fax: (971) 673-1100 E-mail: roza.p.tammer@state.or.us</p>		

Healthcare-Associated Infections Advisory Committee

December 14, 2022

1:00 – 3:00 pm

Webinar only:

<https://www.zoomgov.com/meeting/register/vJltdu-vpjspGBD6UG3VeiQYB1J03HJC9Vg>


Category	Item	Presenter	Time
Committee Business	1. Call to order & roll call	Dennis Drapiza, Kaiser Permanente, Chair	1:00 – 1:05
	2. Logistics update	Roza Tammer, Oregon Health Authority (OHA)	1:05 – 1:10
	3. Approve September 2022 minutes	All members	1:10 – 1:15
	4. Discussion: Topics for future meetings & reports	All members and attendees	1:15 – 1:20
	5. Changing epidemiology of <i>Candida auris</i>	Evelyn Donahoe, OHA	1:20 – 2:00
Break			2:00 – 2:05
	6. HAI Program update: Staff and structure	Becca Pierce, OHA	2:05 – 2:15
	7. Project Firstline update	Judy Guzman-Cottrill, contractor, OHA	2:15 – 2:30
	8. Influenza and COVID-19 update	Becca Pierce, OHA	2:30 – 2:45
Wrap Up	9. Public comment	All members and attendees	2:45 – 2:55
	10. Final roll call & adjourn	Dennis Drapiza, Kaiser Permanente	2:55 – 3:00

Objectives for 12/14/2022 HAIAC meeting:

- Approve September 2022 meeting minutes
- Introduce new HAI Program staff and organizational structure
- Review topics related to the 2022/23 respiratory virus season, including COVID-19 epidemiology update and public health priorities for the upcoming season
- Provide information on new infection prevention educational resources available through Project Firstline
- Engage the committee in strengthening *C. auris* prevention and response
- Brainstorm topics to address at future meetings and for future reports

Changing Epidemiology of *Candida auris*

Heather Hertzal, MPH
Evelyn Donahoe, MPH




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Healthcare-Associated Infections (HAI) Program

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Version History

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Date	Changes Made – Who made them	File Name
11/8/22	PPT Created - Evelyn	HAIAC_C_Auris_11.08.22_v01
12/1/22	Updated slides - Evelyn	HAIAC_C_Auris_11.08.22_v01
	<ul style="list-style-type: none"> - Removed prevention activities other than admission screen - Added slides for admissions screening - Formatted discussion slide 	
12/2/22	Updated slides - Evelyn	HAIAC_C_Auris_11.02.22_v02
	<ul style="list-style-type: none"> - Added recommendation slides - Added OB slides shared by H 	
12/8/22	Updated slides - Evelyn	HAIAC_C_Auris_12.08.22_v03
	<ul style="list-style-type: none"> - Removed slide 20 - Removed stars and tree from slide 23 - Edited epi curve slide to highlight diff units vs holiday timing - Removed lab speciation recommendation - Updated and formatted recommendation slides - Removed several intro slides – this group doesn't need a lot of background - Improvements to formatting 	
12/8/22	Updated slides - Dat	HAIAC_C_Auris_12.08.22_Final
	<ul style="list-style-type: none"> - Slide 5: corrected placement of hyphenation to "multidrug-resistant" - Slide 18: typo in title (corrected to "begins") - Slide 25: added "-" to "long term care" - Slide 27: modified phrasing to "implementing" from "implementation of" - Slide 37: realigned the numbered bullets 	



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Outline (total 40 mins presentation time available)
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- Overview of *Candida auris* (5-8 min) – slides 4-15
 - Overview of what it is
 - Global epi
 - National epi (increasing)
 - CDC report
 - CDC maps year by year
 - Transition into outbreak in 2021
- 2021 outbreak (10 min) – slides 16-30
 - Outbreak information
 - Response
 - Transition back to prevention activities – show CDC annual maps side by side, how can we prevent OR from having more cases?
- Review guidance for hospital admissions screening (5 min) slides 31-35
- Discussion (15+ min) slides 36-38
 - 1) Are these guidelines for ACH reasonable? What are the barriers to implementation?
 - 2) Is anyone here interested in meeting as a smaller group to continue to workshop them?
 - 3) Are any facilities interested in piloting an admissions screening program & scheduling some subsequent meetings to discuss logistics/support




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Candida auris

An overview

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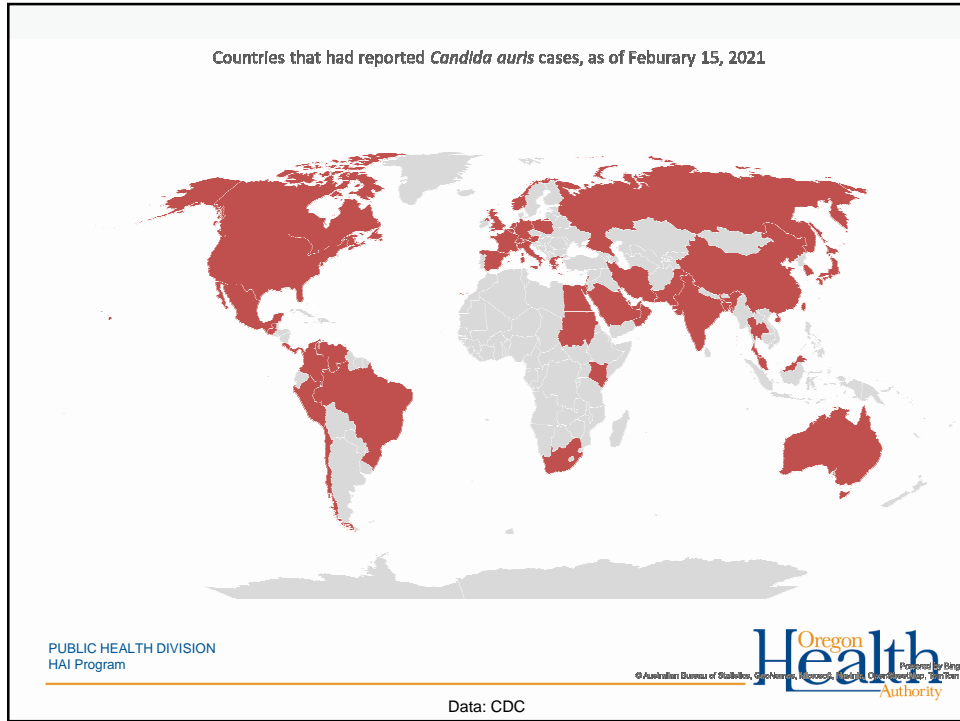
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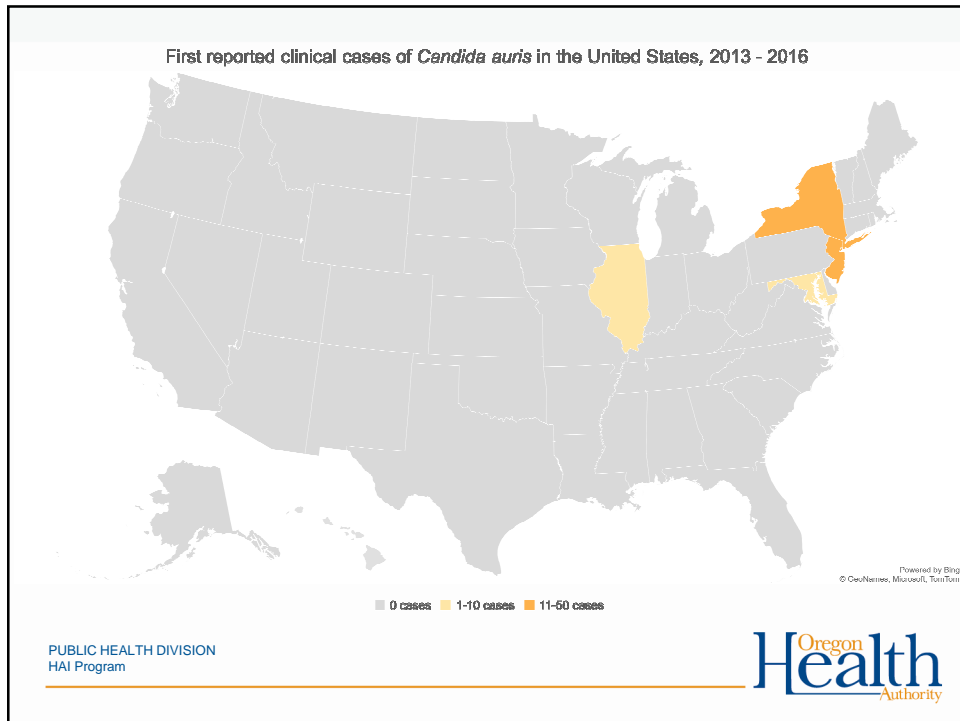
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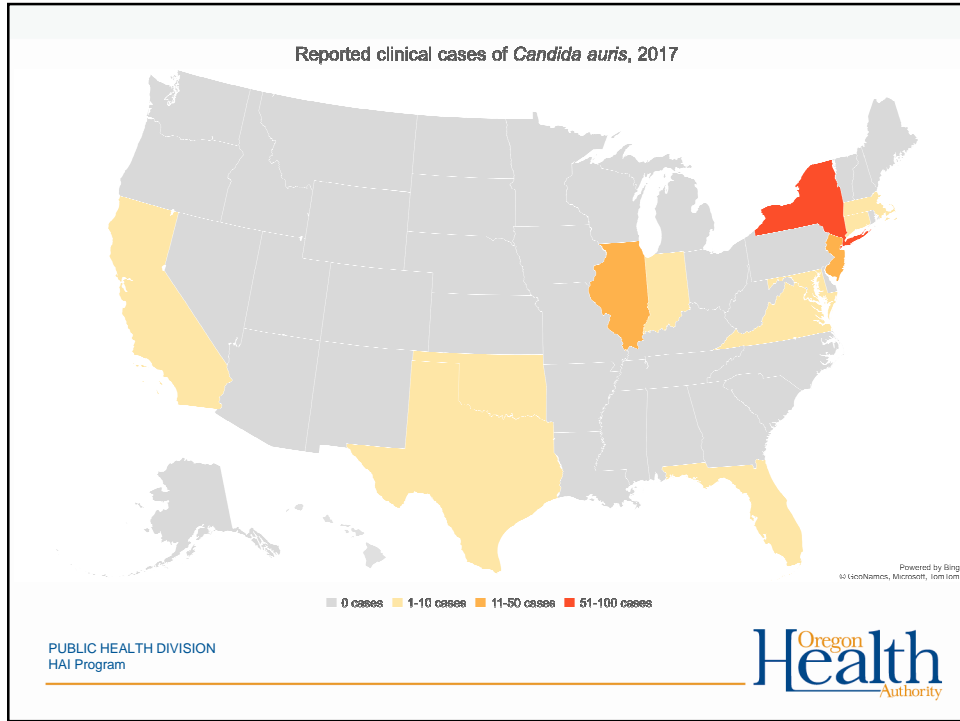
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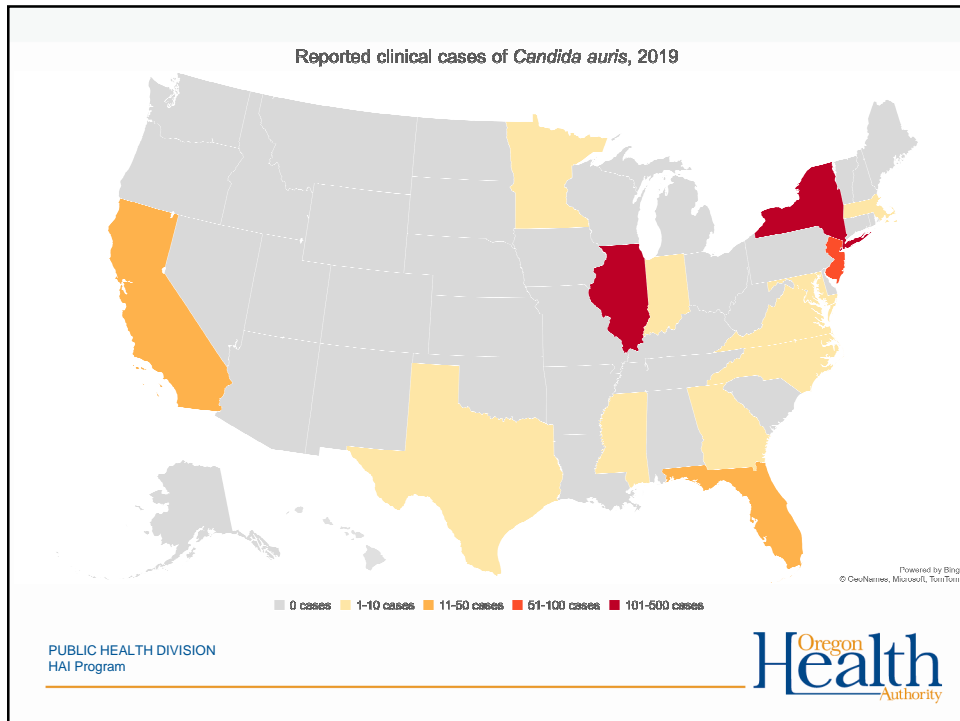
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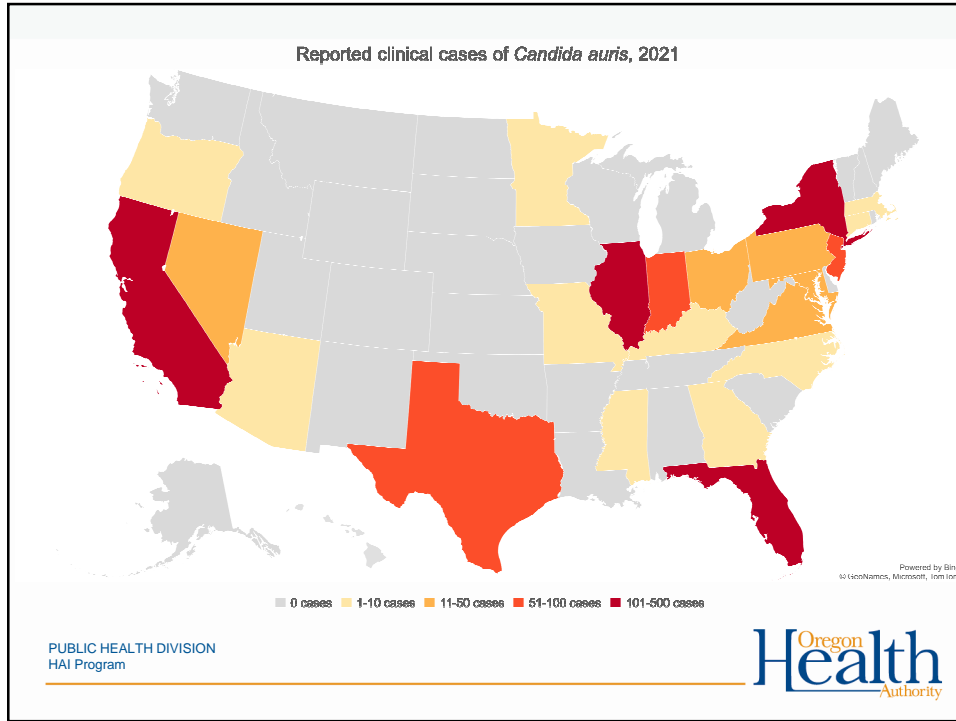
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Pandemic has led to increase in antimicrobial resistance

2022 SPECIAL REPORT
COVID-19
U.S. IMPACT ON ANTIMICROBIAL RESISTANCE

<https://www.cdc.gov/drugresistance/pdf/covid19-impact-report-508.pdf>

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Available data show an alarming increase in resistant infections starting during hospitalization, growing at least 15% from 2019 to 2020.

- Carbapenem-resistant *Acinetobacter* (+78%)
- Antifungal-resistant *Candida auris* (+60%)*
- Carbapenem-resistant Enterobacterales (+35%)
- Antifungal-resistant *Candida* (+26%)
- ESBL-producing Enterobacterales (+32%)
- Vancomycin-resistant Enterococcus (+14%)
- Multidrug-resistant *P. aeruginosa* (+32%)
- Methicillin-resistant *Staphylococcus aureus* (+13%)

Resistant Pathogen	2017 Threat Estimate	2018 Threat Estimate	2019 Threat Estimate	2017-2019 Change	2020 Threat Estimate and 2019-2020 Change
Carbapenem-resistant <i>Acinetobacter</i>	8,500 cases 700 deaths	6,300 cases 500 deaths	6,000 cases 500 deaths	Stable*	7500 cases 700 deaths Overall: 35% increase* Hospital-onset: 78% increase*
Antifungal-resistant <i>Candida auris</i>	171 clinical cases*	329 clinical cases	466 clinical cases	Increase	754 cases Overall: 60% increase
<i>Clostridioides difficile</i>	223,900 infections 12,800 deaths	221,200 infections 12,600 deaths	202,600 infections 11,500 deaths	Decrease	Data delayed due to COVID-19 pandemic
Carbapenem-resistant Enterobacterales	13100 cases 1100 deaths	10,300 cases 900 deaths	11,900 cases 1,000 deaths	Decrease*	12,700 cases 1300 deaths Overall: Stable* Hospital-onset: 35% increase*

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<https://www.cdc.gov/drugresistance/pdf/covid19-impact-report-508.pdf>

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First cases of *C. auris* in Oregon made local and national news in 2021

USA Today
Oregon hospital reports outbreak of rare superbug Candida ...
 The risk of infection to otherwise healthy people is "extremely low." Since 2013, about 1,150 clinical cases of *Candida auris* have been...

KTVZ
Oregon reports first 3 cases of drug-resistant 'superbug' ...
 Oregon reports first 3 cases of drug-resistant 'superbug' fungus *Candida auris* ... PORTLAND, Ore. (KTVZ) — The Oregon Health Authority said late...

Gizmodo
Deadly Superbug Yeast Sickens Patients at Oregon Hospital
 Dec 29, 2021 — Three people at the hospital have contracted the hardy fungus known as *Candida auris*, which is often resistant to multiple drugs.

FOX 5 New York
Oregon hospital reports rare, fungal outbreak
 Health officials said the first-ever *Candida auris* case found in Oregon was detected at the hospital Dec. 11 and confirmed Dec. ...

Oregon Live
Oregon records 1st cases of rare, serious fungal infection *Candida auris* in 3 Salem patients
 Since 2013, more than 1,150 clinical cases of *Candida auris* have been identified in the United States. No cases of the fungus identified in...


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2021 Outbreak and Response

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Oregon's first *C. auris*
isolate from culture
collected 12/11/21 in a
hospitalized patient



Candida auris
source: CDC

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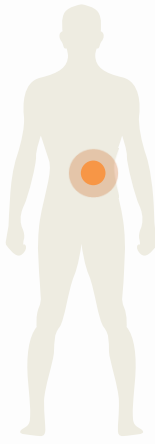
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12/13/21: Public Health notified and begins investigation

- C. auris* isolated from wound
- Admitted to hospital for one month
- Contact precautions except for six days
- Stayed in ICU and two inpatient units
- History of international healthcare



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Response

- Screening**
 - Every two weeks Dec 21 – Feb 1
 - On all three affected units
- Surveillance**
 - Speciation of *Candida* from sterile and non-sterile sources by MALDI-TOF
- Infection Control Review**
 - Hand hygiene, adherence to transmission-based precautions, environmental disinfection

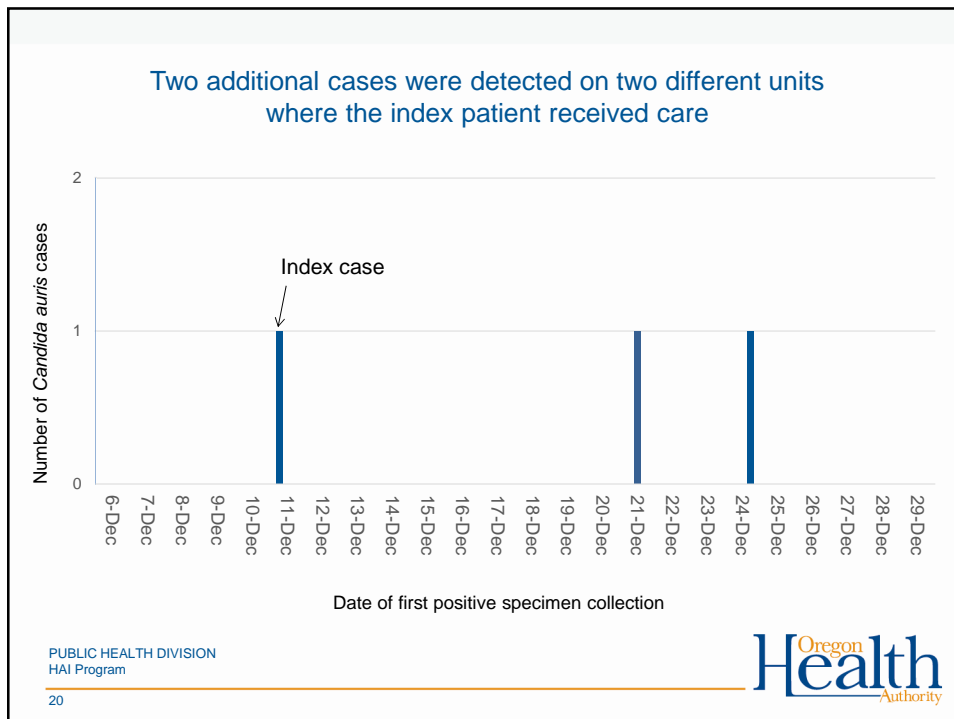


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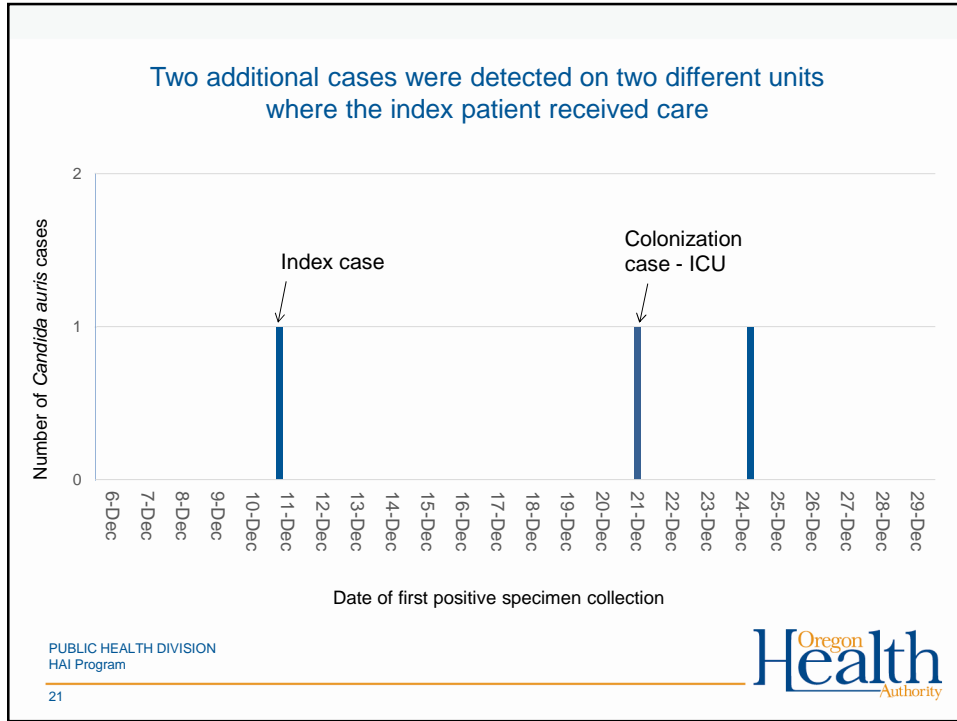
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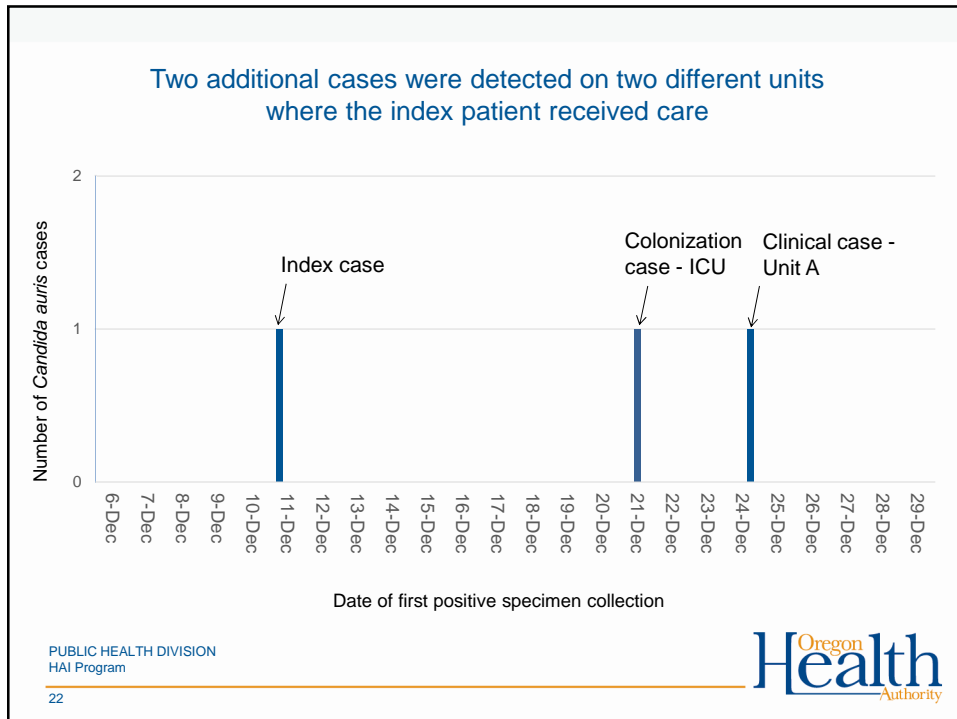
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No obvious mechanism of spread was detected

- Neither of the two additional cases required wound care
- No common procedures
- Environmental cleaning products were appropriate

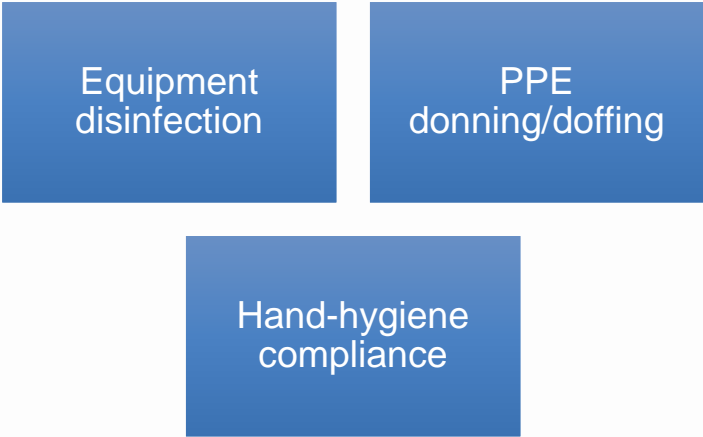
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Potential routes of transmission



Equipment disinfection


PPE donning/doffing

Hand-hygiene compliance

Likely exacerbated by COVID-19 pandemic


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Screening was also offered to patients at 30 other facilities



1 hospital



22 long-term care facilities




7 congregate care settings

46 discharged patients identified who had been on same units as index case

Screening offered to these patients and their roommates

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Despite relatively small size of the outbreak, there was a significant impact on the affected hospital

- Multiple rounds of screening
- Disruption to discharge process
- Sensationalist local and national press coverage

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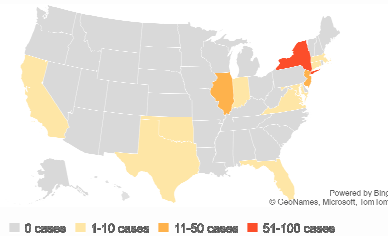
Prompt response and coordination with public health helped keep this outbreak small

- Other low-prevalence states have seen large outbreaks
- Hospital acted quickly to limit spread and worked collaboratively with public health
- Hospital is now working towards implementing a *Candida auris* admission screening program

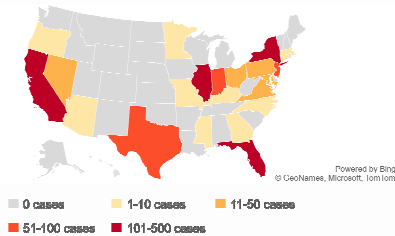
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With first OR cases last year, can spread of *Candida auris* be prevented in our state?

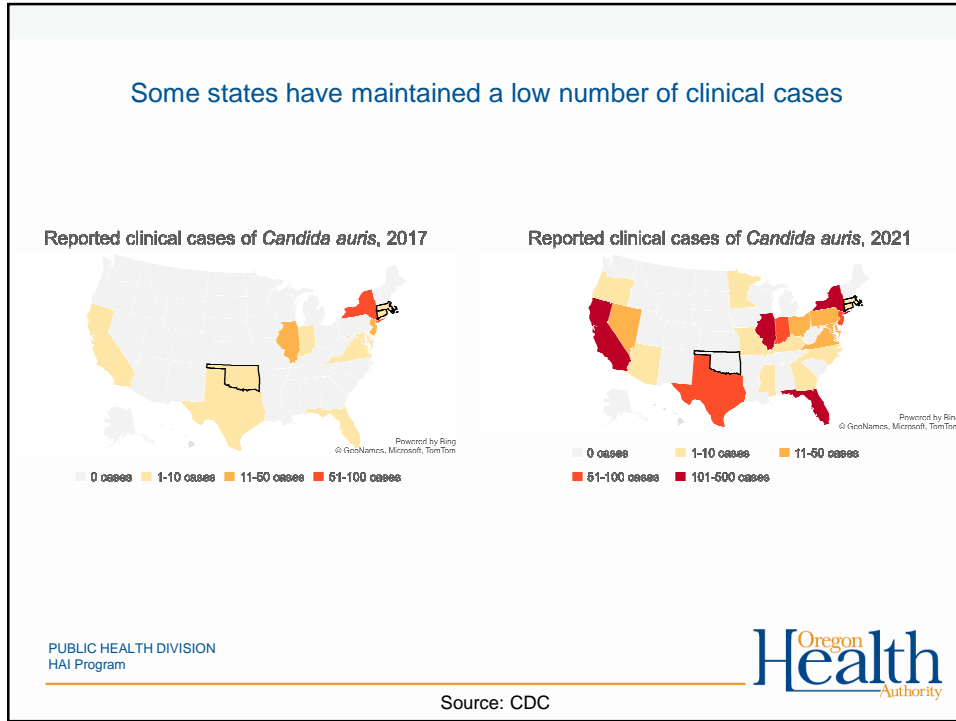
Reported clinical cases of *Candida auris*, 2017



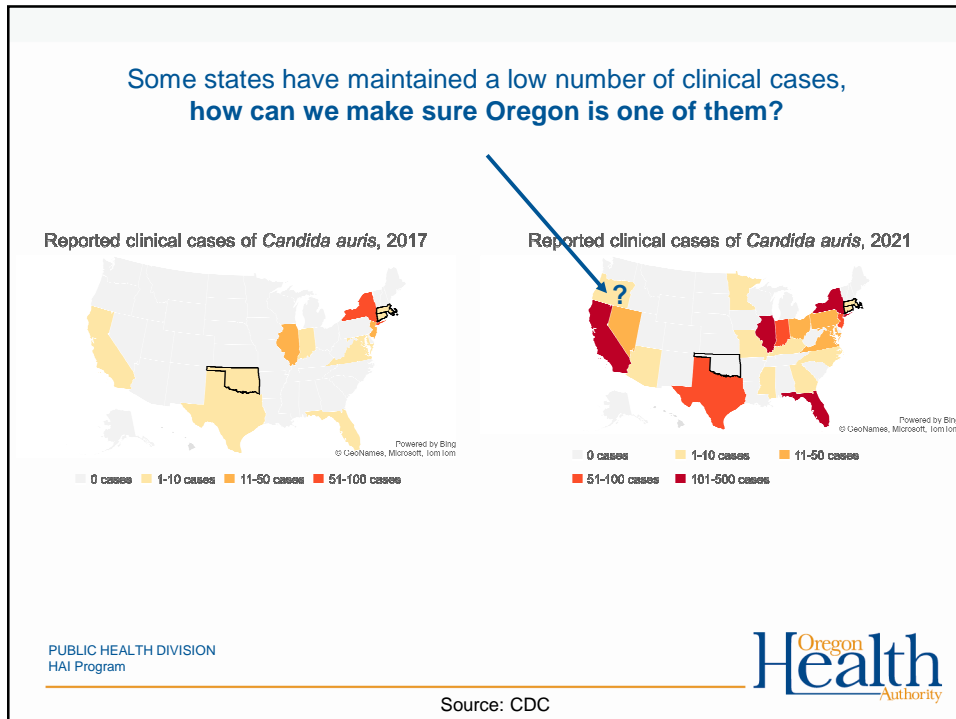
Reported clinical cases of *Candida auris*, 2021



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Recommendations

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CDC screening recommendation:

Hospitals should screen all patients for *C. auris* who have had an overnight stay in a healthcare facility outside the United States in the previous one year

Rationale: *C. auris* is commonly identified in many countries outside the United States.

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OHA proposed minimum screening recommendation:

Hospitals should screen all patients for *C. auris* who have had an overnight stay in a healthcare facility outside of Oregon in the previous one year

Rationale:

- *C. auris* is becoming increasingly common in the U.S.
- Some states (CA, IL, FL, NY) see 100+ cases annually
- Some of these states have demonstrated transmission within their long-term care facilities or hospitals

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Admission screening identifies cases so they can be put on precautions

- **Swabs and shipping supplies provided**
 - No cost and kept on hand until needed
- **Specimens can be batched**
 - Weekly, or sent individually as needed
- **Identifies cases on admission**
 - Allows for appropriate transmission-based precautions to prevent spread



Source: CDC

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Swab collection is generally low-burden

- One swab for axilla/groin composite specimen
- Collection < 1 minute



Source: CDC

Discussion

Recommendation	Discussion
<p>Hospitals should screen all patients for <i>C. auris</i> who have had an overnight stay in a healthcare facility <u>outside of Oregon</u> in the previous one year.</p>	<ol style="list-style-type: none"> 1) Is recommending admission screening for high-risk patients at acute care hospitals reasonable? 2) What are the barriers to implementation? 3) Is anyone here interested in meeting as a smaller group to continue to workshop them? 4) Any facilities interested in piloting an admissions screening program?

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Questions? Reach out to us!

Evelyn Donahoe, MPH, CIC
MDRO Epidemiologist
evelyn.donahoe2@dhsoha.state.or.us
971-378-5807

Heather Hertzelt, MPH
MDRO Epidemiologist
heather.hertzelt2@dhsoha.state.or.us
971-346-0724

Lex Zhang, MPH, CIC
HAI Epi and Data Systems Manager
alexia.y.zhang@dhsoha.state.or.us
971-271-0071

Dat Tran, MD, MS
Medical Director, HAI Program
dat.j.tran@dhsoha.state.or.us
971-409-8616

Rebecca Pierce, PhD, MS, BSN
HAI Programs Manager
rebecca.a.pierce@dhsoha.state.or.us
971-673-3498

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Healthcare-Associated Infections Program Advisory Committee Meeting: HAI Updates

Rebecca Pierce, PhD, MS, BSN

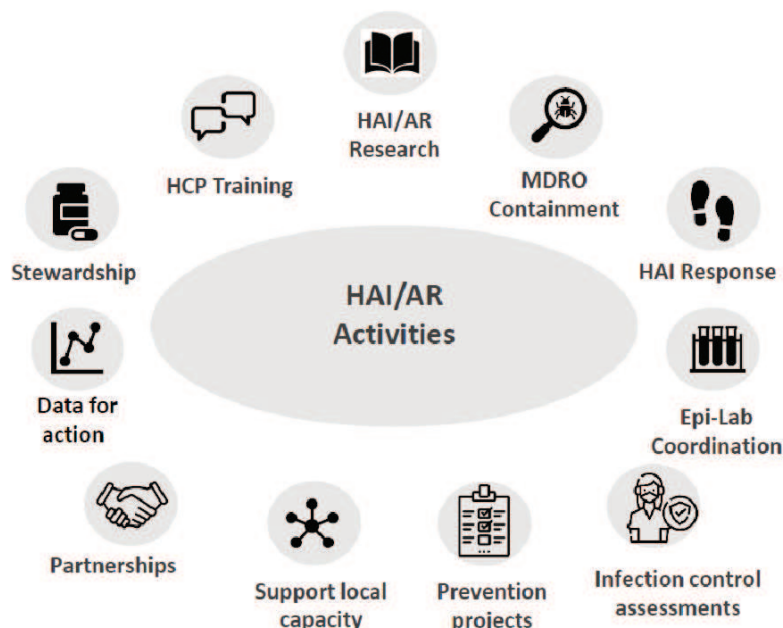
Healthcare-Associated Infections Programs Manager
Public Health Division



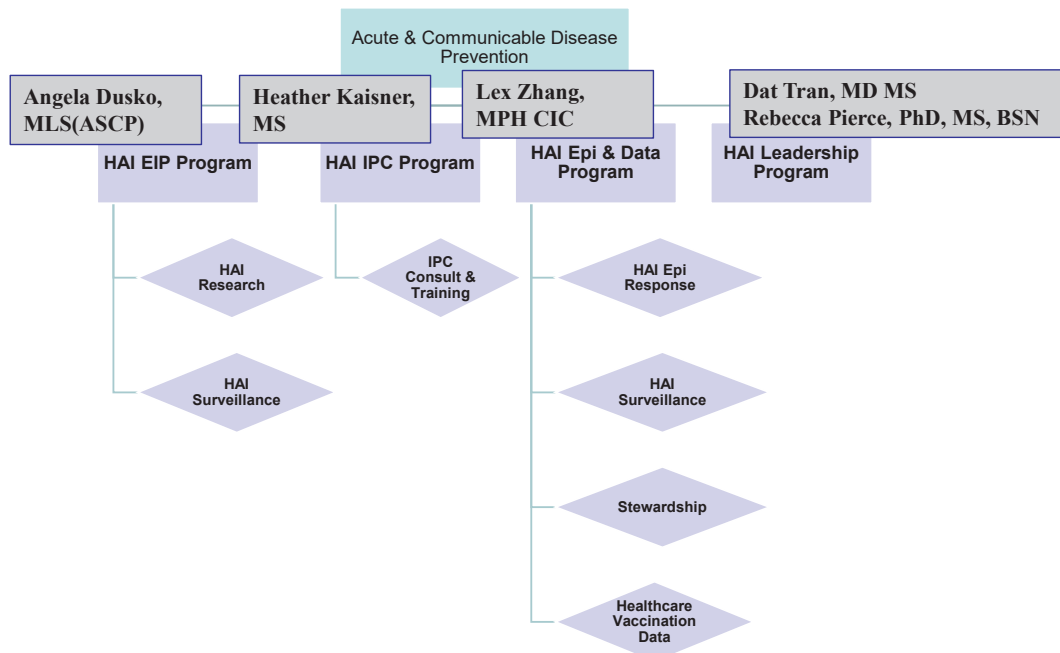
Topics

- Restructure of Healthcare-Associated Infections Programs
- Healthcare-Associated Infections and Antimicrobial Use Prevalence Survey
- Proposed rule changes (2023)
- Release of Healthcare Facility Flu Vax Dashboard
- Resources and helpful links

Restructure of Healthcare-Associated Infections Programs (1)



Restructure of Healthcare-Associated Infections Programs (2)



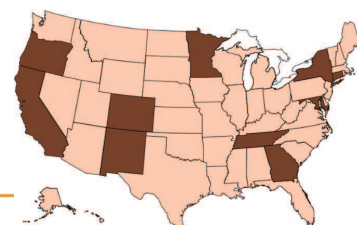
Healthcare-Associated Infections and Antimicrobial Use Prevalence Survey

- Survey conducted every ~5 years to assess burden and types of HAIs affecting hospital patients and the use and quality of antimicrobial prescribing.
- Designed to complement data reported to NHSN, includes HAIs not routinely captured in NHSN or other surveillance systems.
- Efforts will begin in early 2023.
 - Hospitals that participated in the 2011 or 2015 survey will be invited to participate.
 - Participation voluntary.
- One-day survey. Data collected by our project team.

THE NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Changes in Prevalence of Health Care–Associated Infections in U.S. Hospitals



5

Proposed rule changes (2023)

- Proposed HAI rule changes
 - For laboratories conducting carbapenemase testing: Make carbapenemase-producing organisms reportable
 - Make carbapenem-resistant *Acinetobacter* spp. reportable
 - Change Enterobacteriaceae to Enterobacterales
 - Formally adding *Candida auris* to the list of reportables
 - Addition of language that facility-reported data may need to be released in response to public records request in timeline consistent with Public Records Law
- Rules Advisory Committee Meeting Expected **Q1 2023**



Oregon
Health
Authority

6

- A new dashboard showing state, regional, and facility-level healthcare provider influenza vaccination data is expected in the next two weeks.
- Includes ambulatory surgery centers, dialysis facilities, hospitals (including inpatient psychiatric facilities), and nursing facilities.
- 2017-2018 through 2021-2022 flu season

Resources & Helpful Links

- APIC Reference for New IPs
 - Where do I Find that? IPC Resources for New IPs
 - Accelerated Internship Program Guide
 - Info on guide: <https://apic.org/academic-pathways-internship/>
 - PDF of 10-week program: https://apic.org/wp-content/uploads/2022/04/Accelerated-Internship-Program-Guide_FINAL.pdf
- LTCF IPC Lead eligible for free one-year APIC membership and LTCF Infection Prevention Text via HAI Advancing Infection Control Capacity & Education (ACE) Program
 - Link to request membership/text: <https://www.surveymonkey.com/r/DBQZNM2>
- AHRQ Safety Program for MRSA Prevention
 - Free 18-month program that seeks to reduce SSI with a focus on MRSA in high-risk surgeries
 - Deadline to enroll: Jan 15, 2023
 - CME/CEU Available
 - More information: <https://safetyprogram4mrsaprevention.org/>

WHERE DO I FIND THAT?

IPC Resources for New IPs.



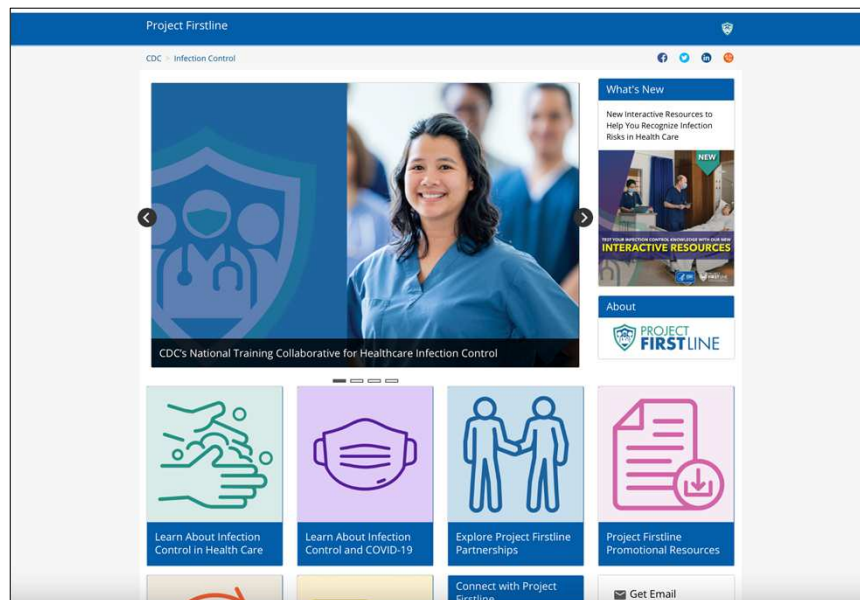
Questions?

- Rebecca.a.pierce@dhsoha.state.or.us

Project Firstline: December 2022 HAIAC Update

**Judy Guzman-Cottrill, DO
Pediatric Infectious Diseases
Contractor to OHA's HAI Program**

1



<https://www.cdc.gov/infectioncontrol/projectfirstline>



2

What is Project Firstline?

- Project Firstline is a national collaborative of healthcare & public health partners that aims to provide engaging, innovative, and effective infection control training for millions of frontline U.S. healthcare personnel (HCP).
- The content is designed so that—regardless of a HCP’s previous training or educational background— they can understand and confidently apply the infection control principles and protocols necessary to **protect themselves**, their **facility**, their **family**, and their **community** from infectious disease threats.

3

Project Firstline – Updates

1. Welcome to Nicholas Ida, MPH: New Project Firstline Epidemiologist
 - Complete full provider-level analysis of our needs assessment survey responses
 - What topics do our healthcare personnel need to learn, based on their roles? Their facility type?
 - What are the preferred formats of learning?

4

Project Firstline – Updates

2. Create Project Firstline website

5

The screenshot shows the Oregon Project Firstline website. The header includes the Oregon Health Division logo and navigation links. The breadcrumb trail reads: Public Health Division > Diseases and Conditions > Acute and Communicable Disease > Healthcare-Associated Infections > HAI Prevention > Oregon Project Firstline. A warning banner at the top states: "Respiratory illnesses are circulating at high levels this season. Learn how to protect yourself from COVID-19, the flu and RSV." The main content area is titled "Oregon Project Firstline" and features a sidebar with links to various resources. The main content includes a "What is Oregon Project Firstline?" section with a logo and a "Why is Infection Control Important?" section with a video player.

<https://www.oregon.gov/oha/PH/DISEASESCONDITIONS/COMMUNICABLEDISEASE/HAI/PREVENTION/Pages/ProjectFirstline.aspx>

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The screenshot shows the Project Firstline website interface. At the top, there are navigation tabs: "Health System Reform", "Licenses and Certificates", and "Public Health". Below this, there are three main content columns:

- Left Column:** "Searching for training that is just right for you?" with a sub-section "Recorded Lectures" and text: "Oregon Project Firstline trainings are free and cover a wide range of topics and learning formats. No matter your staff preference or facility type, we have a training for you. Check back frequently, as new resources are added." and a "Check in again soon." button.
- Middle Column:** "Are you an infection prevention educator?" with the "PROJECT FIRSTLINE" logo and a sub-section "Educator Materials" listing: "Below are free materials you can use to help educate your staff.", "Print materials and job aids", "Videos and social media content", "Interactive resources", "Training Toolkits", and "Patient Triage Training Video".
- Right Column:** "Interested in joining an upcoming event?" with a sub-section "Upcoming Events" and text: "Here are some upcoming educational programs that will include Project Firstline content." and a "Check in again soon." button.


Below these columns is a section titled "Test your knowledge! Try a couple interactive knowledge assessments" with two input fields: "Take the infection control challenge" and "How can you stop germs from spreading?". At the bottom, there is a footer: "CDC is the leading partner in Project Firstline. To learn more, go to their [Project Firstline website](#) or follow the CDC Project Firstline. [Facebook](#) [Twitter](#)".

7

Project Firstline – Updates

- Engage allied health educators: Focus on 17 Oregon community colleges
 - Create student education modules using Project Firstline material and content
 - Create a Project Firstline Faculty Roster and educator portal

8



List of Administrative Requirements:
For additional information, documentation requirements, and exceptions please see [Oregon Administrative Rules 409-030-0100 to 409-030-0250](#).

Important updates for colleges, educational training programs, and other entities that train students in clinical health professions

If your educational program oversees health profession students (e.g., those training to become nurses, physicians, medical assistants, etc.) who participate in clinical training opportunities or externships at off-site clinical facilities (e.g., hospitals, long-term care facilities, etc.), please review the following for information on the new standardized administrative requirements established under [Oregon Administrative Rules 409-030-0100](#).

Beginning July 1, 2014, health profession students will need to meet a standardized, universal set of administrative requirements prior to doing clinical training in Oregon. For most students, satisfying the requirements once will be sufficient for all subsequent clinical training experiences. The requirements include immunizations, screenings, trainings, and proof of coverage under insurance policies (see the attached Quick Reference Guide) and will replace any similar requirements that each facility had previously established. The consensus requirements were developed with input from a wide range of training programs, clinical sites, and regulatory agencies.

The hope is that with these standardized requirements, your educational program will be able to reduce the administrative burden that comes with assisting students in obtaining clinical training clearance at an off-site facility. You and your students will know the expectations prior to any training experiences and all clinical sites will now accept a standard preparation of the requirements listed in these rules. Less time will be needed for you to review documents, manage requirements across multiple facilities, or negotiate with each clinical facility.

Record keeping responsibility:
Your educational program (e.g., college or training program) will be responsible for verifying and maintaining the evidence and documentation of the administrative requirements for each student. Clinical facilities will request them from you as needed, for those students conducting training at their facilities.

Completion of the administrative requirements only ensures administrative clearance for students. The clinical facility will still make all final clearance and placement decisions.

Affected students
These new requirements apply to students training in the selected professions who are participating in clinical training experiences at an off-site facility that is listed in these rules (see attached Quick Reference Guide for details on both). Out-of-state students are also subject to these rules, and efforts are being made to notify programs nationwide of the requirements for students doing clinicals in Oregon.

Exceptions for on-site clinical training
If your health profession program offers clinical training opportunities on-site at your facility, students do not need to complete these requirements in advance of the on-site training. For example, students at OHSU do not need to complete these requirements prior to any clinical training at OHSU.

Changes and variations to the requirements
Clinical facilities cannot set additional requirements within the categories covered under the new standard requirements. For example, they cannot require proof of an immunization that is not listed in the requirements or require that students utilize a 12-panel drug screen instead of a 10-panel drug screen. However, each facility can continue to conduct in-house preparations for students or unique onboarding procedures, trainings or orientation sessions.

Immunizations:
Evidence requires documented receipt of vaccine or documented immunity via titer or valid history of disease, or a record from the Oregon ALERT Immunization Information System. Per CDC guidelines.

- ✓ **Required Hepatitis B (Hep B)**
- ✓ **Required Measles, mumps and rubella (MMR)**
- ✓ **Required Tetanus, diphtheria, pertussis (Tdap)**
- ✓ **Required Varicella**
- ✓ **Recommended Polio**
- ✓ **Recommended Influenza (seasonal flu)**

Screenings:

- ✓ **Tuberculosis (TB)**
 - o Facility choice of skin test or IGRA Blood test in accordance with CDC guidelines
- ✓ **Substance Abuse**
 - o 10-panel drug screen, which must include screens for the following eight substances: Amphetamines, including methamphetamines; Barbiturates, Benzodiazepines, Cocaine; Marijuana; Methadone; Opiates; Phencyclidine.
- ✓ **Criminal Background Check:**
 - o Must include Social Security Number trace, state/national criminal background history, sex offender registry check, and OIG LEEI check.

Trainings:

- ✓ **CPR/Basic Life Support (BLS)** for healthcare providers. It is recommended that trainings comply with the American Heart Association standard
- ✓ **Bloodborne Pathogen training (OSHA)**
- ✓ **OSHA-recommended safety guidelines, including the following. Schools must verify student familiarity or exposure to topics:**
 - o Fall and electrical safety;
 - o Personal protective equipment;
 - o Hazard communication; and
 - o Infection prevention practices;
- ✓ **Site-specific privacy and confidentiality practices** – will occur at EACH facility.
- ✓ **Site-specific orientation and on-boarding** (e.g., facility-specific protocols for safety, security, standards of behavior, etc.) – will occur at EACH facility.

Insurance and Liability Coverage:
Students or health profession programs must demonstrate that students have:

- ✓ Professional liability insurance coverage and general liability insurance coverage, or
- ✓ A combined policy that includes professional and general liability coverage

The coverage must remain in place for the entire duration of each placement. The health profession program may offer coverage for students through a self-insurance program or the student may obtain coverage individually. It is also recommended but not required that the student obtain some form of health insurance coverage.

January 2014


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Project Firstline – Updates

4. Engage local public health partners to create IPC Champions

10

Oregon Project Firstline: Join Our Team!



Calling All Local Public Health Partners!
Are you interested in having a deeper understanding of how to prevent healthcare-associated infections? Become an *Infection Prevention Champion!*

The COVID-19 pandemic has taught us that healthcare infection prevention can affect *everyone* in public health. As a part of Oregon Project Firstline -- a new educational program focused on frontline healthcare workers -- OHA's Healthcare Associated Infection (HAI) Program would like to establish Infection Prevention (IP) Champions across Oregon! No prior experience is needed!

What's in it for you?

- IP Champions will receive free training about the basics of infection prevention in healthcare.
- Feel comfortable guiding targeted as-need education to a particular type of setting or population (e.g., outpatient dialysis, behavioral health), or education that addresses identified gaps in infection control practice (e.g., performing hand hygiene correctly).
- Gain the skills needed to engage with healthcare colleagues who are managing outbreaks, clusters, and exposures in healthcare settings.
- Help your LPHA and OHA colleagues to identify events at which Project Firstline materials can be distributed to frontline healthcare workers outside of outbreak settings (e.g., community health fairs, conferences, colleges, schools).
- Be able to lead structured infection prevention training opportunities for healthcare workers in your jurisdictions.
- Option to become Certified in Infection Control (CIC), with all fees covered by OHA's HAI Program.

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Summary

- The new Project Firstline initiative will increase IPC educational resources across our healthcare settings
- This new educational program will help to improve healthcare workers' understanding of ICP in their line of work
- Project Firstline will also allow OHA to strengthen partnerships with new groups across the state
 - Allied health educators
 - Local public health partners
- Keep an eye on the OHA Project Firstline website for future progress!

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Thank you!
Questions or suggestions?

Judy.GuzmanCottrill@dhsosha.state.or.us

Respiratory Pathogens Briefing

Melissa Sutton, MD, MPH
Medical Director Respiratory Viral Pathogens
December 12, 2022



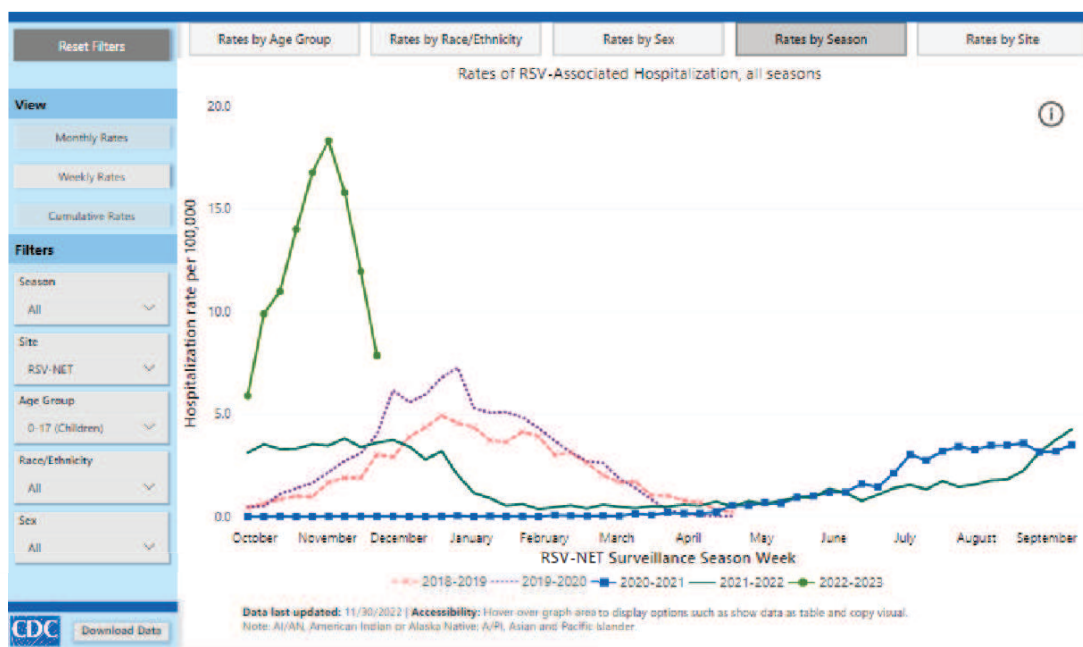
Situational overview

- RSV pediatric hospitalization rate remains very high
 - Peaked but increase observed following Thanksgiving
 - Hospitalizations remain high
 - Anticipate rapid decrease in hospitalizations in coming weeks
 - Disproportionate impact infants
 - Unusual acuity reported
- Influenza hospitalization rate rising quickly
 - Anticipate plateau 1-2 weeks
 - Disproportionate impact young children, elderly, pregnant, communities of color and tribal communities
 - Unusual pediatric severity observed nationally
- COVID-19 hospitalizations stabilizing
 - Peak forecasted today

RSV activity

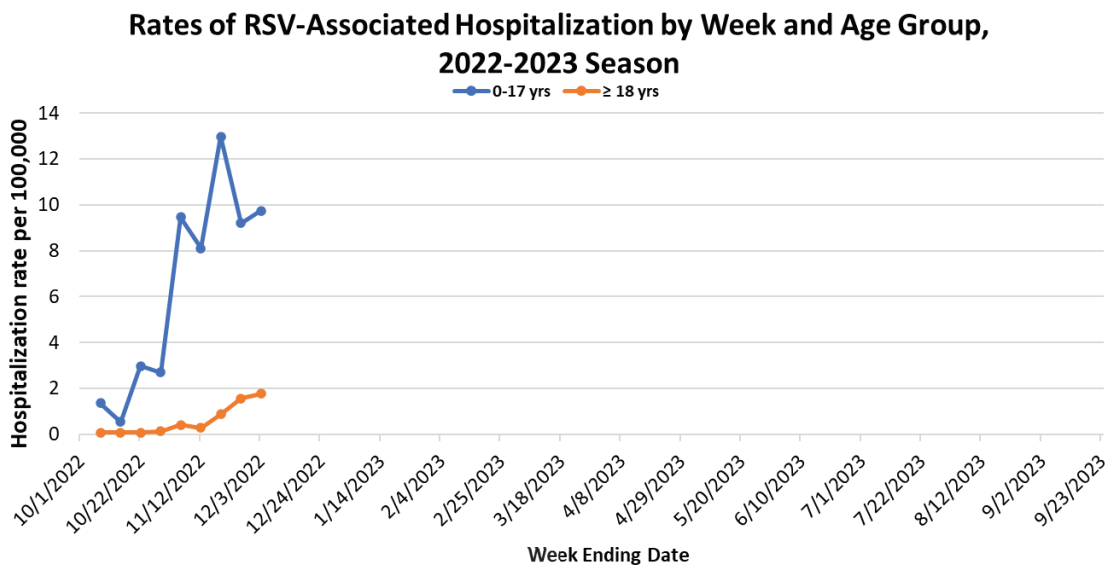
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RSV pediatric hospitalizations, nationwide



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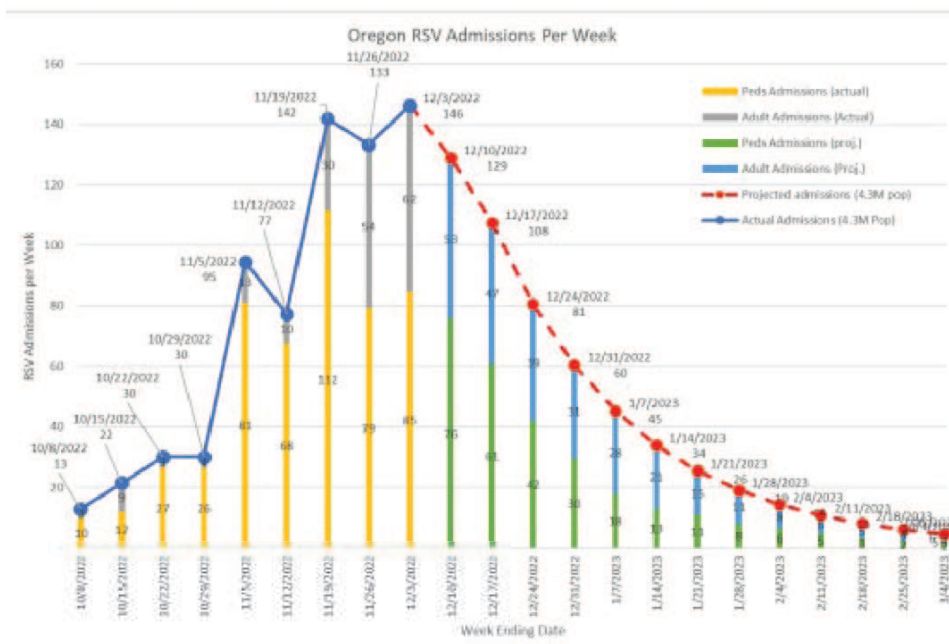
RSV pediatric hospitalizations, Oregon



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RSV hospitalizations, projected



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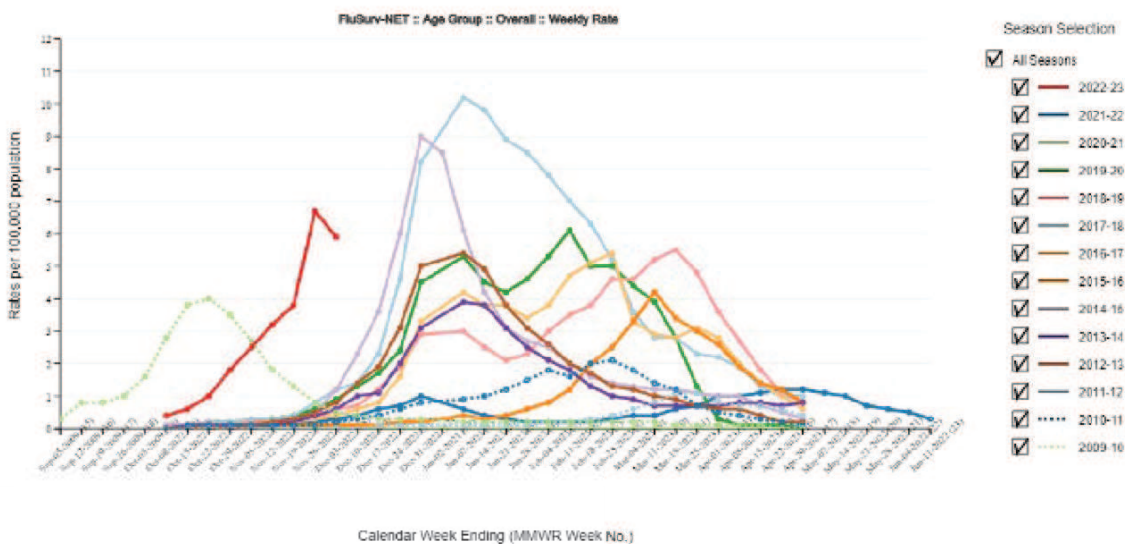
Influenza activity

7

Influenza hospitalizations, nationwide

Laboratory-Confirmed Influenza Associations, FluSurv-NET, Age Group, Overall

Weekly rates as of Dec 03, 2022

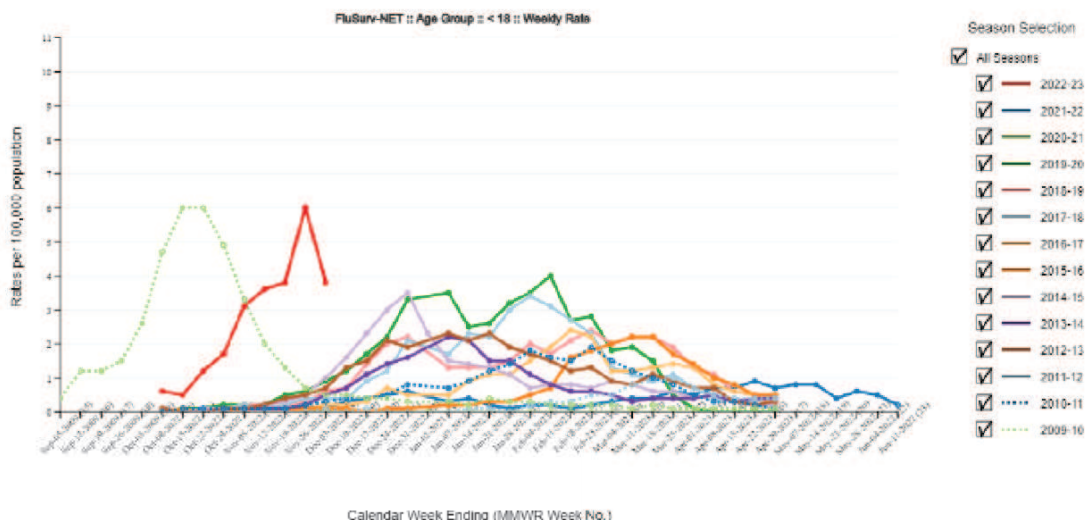


8

Influenza pediatric hospitalizations, nationwide

Laboratory-Confirmed Influenza Associations, FluSurv-NET, Age Group, < 18

Weekly rates as of Dec 03, 2022



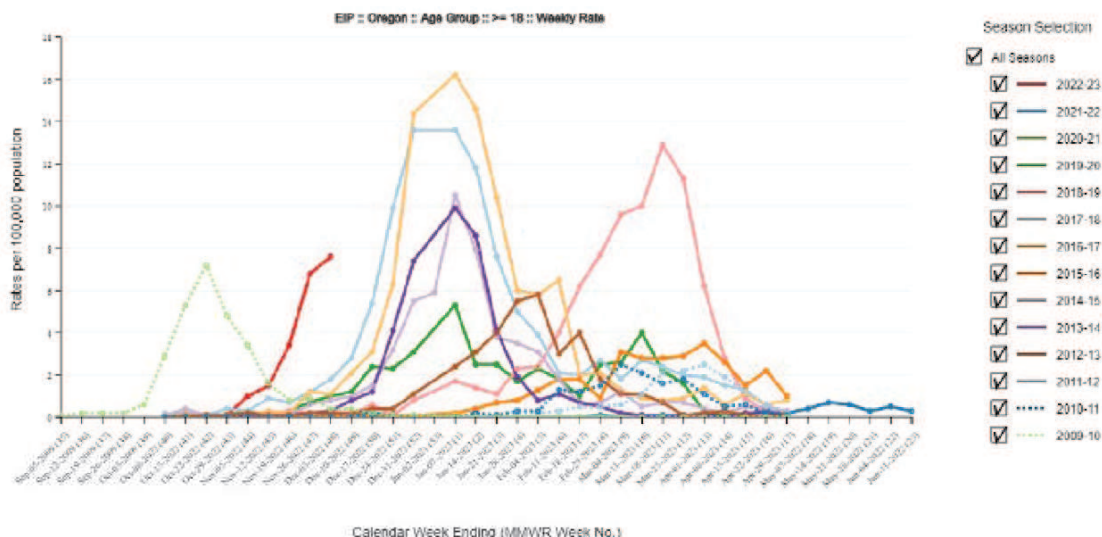
9



Influenza adult hospitalizations, Oregon

Laboratory-Confirmed Influenza Associations, EIP, Oregon, Age Group, >= 18

Weekly rates as of Dec 03, 2022

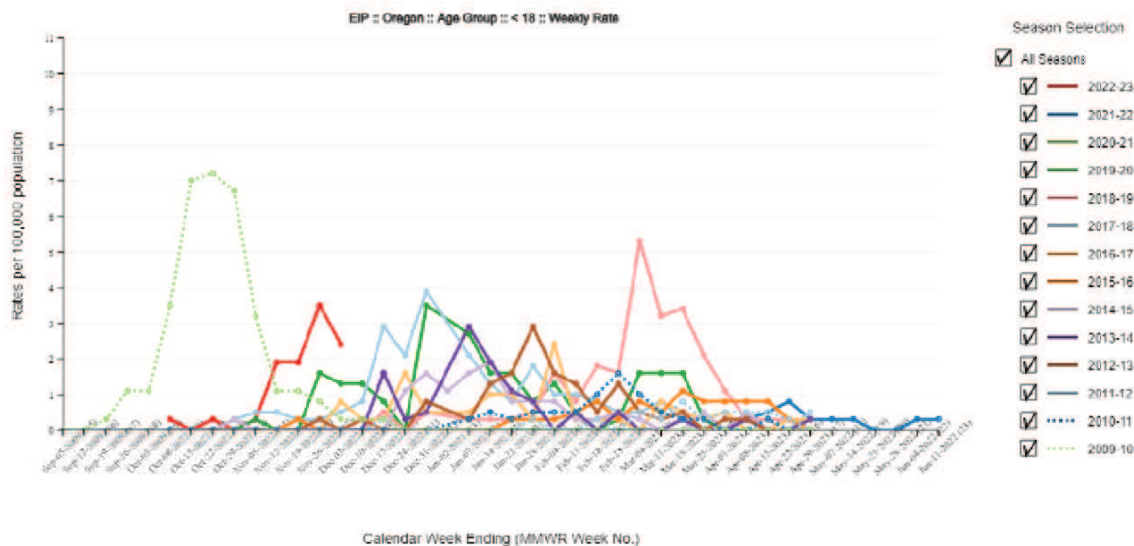


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Influenza pediatric hospitalizations, Oregon

Laboratory-Confirmed Influenza Associations, EIP, Oregon, Age Group, < 18
Weekly rates as of Dec 03, 2022

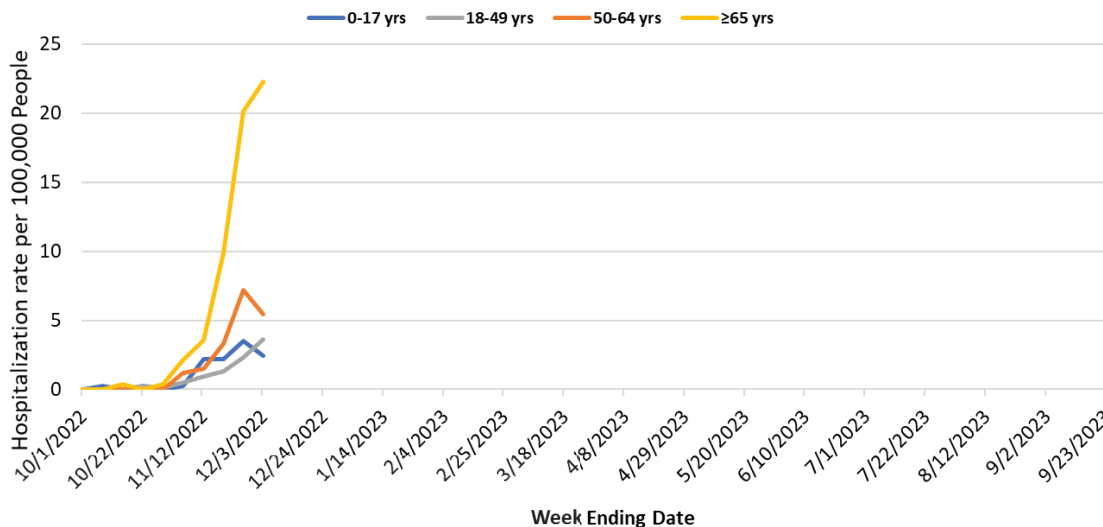


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Influenza hospitalization rates, Oregon, by age

Oregon Hospitalization Rates by Week and Age Group
2022-2023 Season

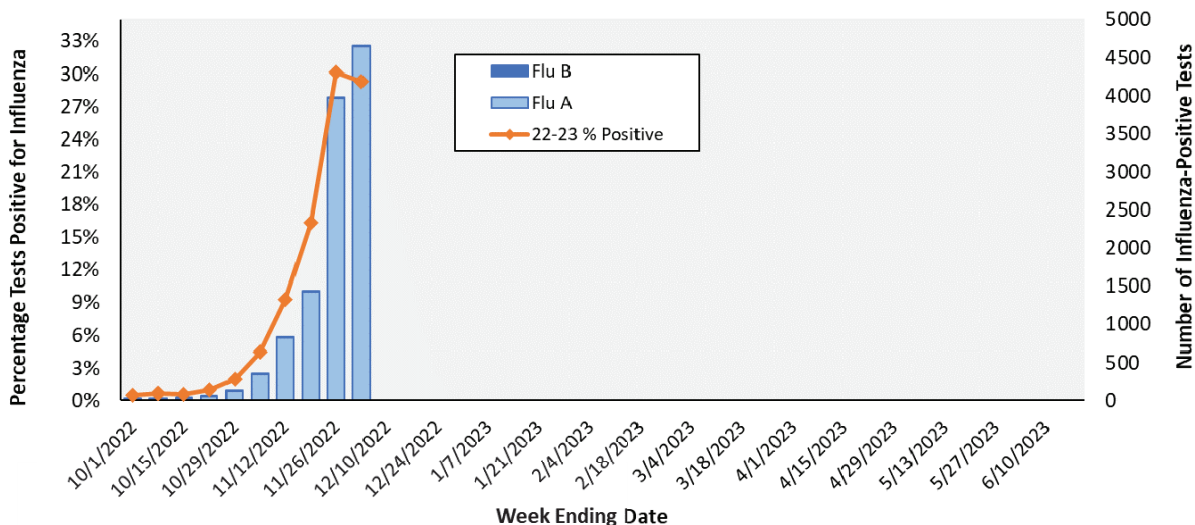


13



Influenza percent positivity

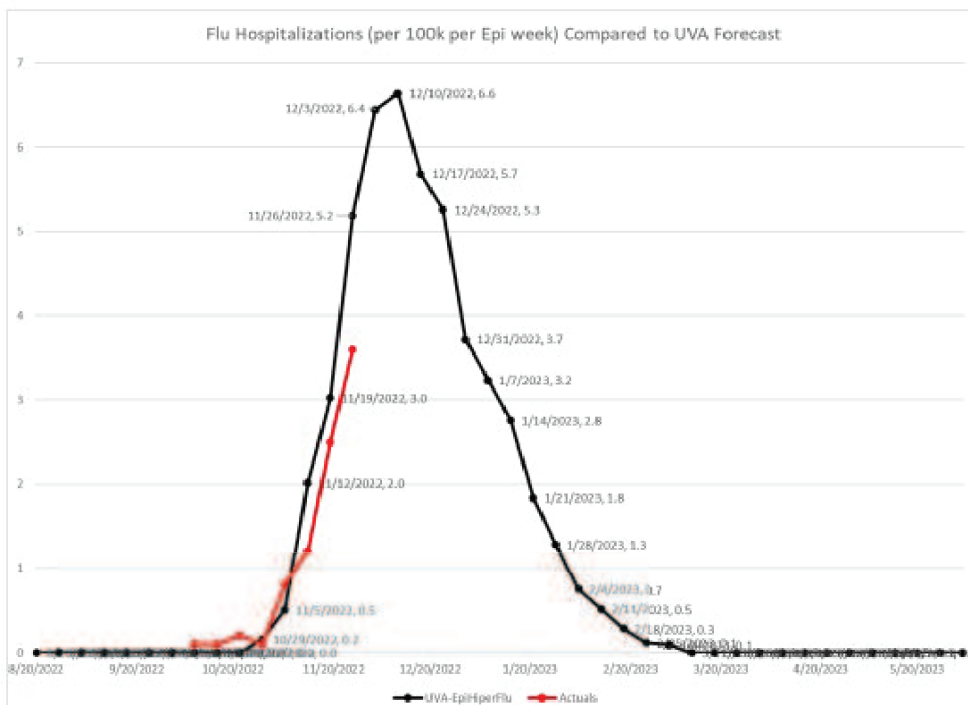
Oregon Influenza Laboratory Surveillance
Percent Positive Influenza Tests by Week, NREVSS, 2022-2023 Season



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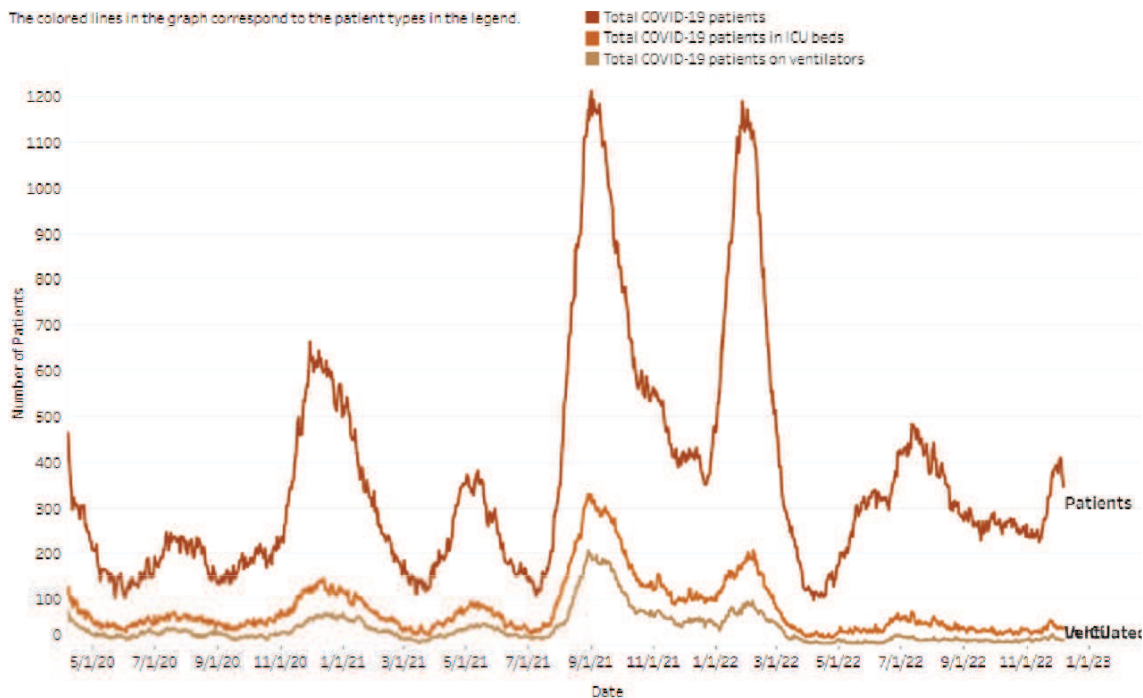


Influenza hospitalizations, projected

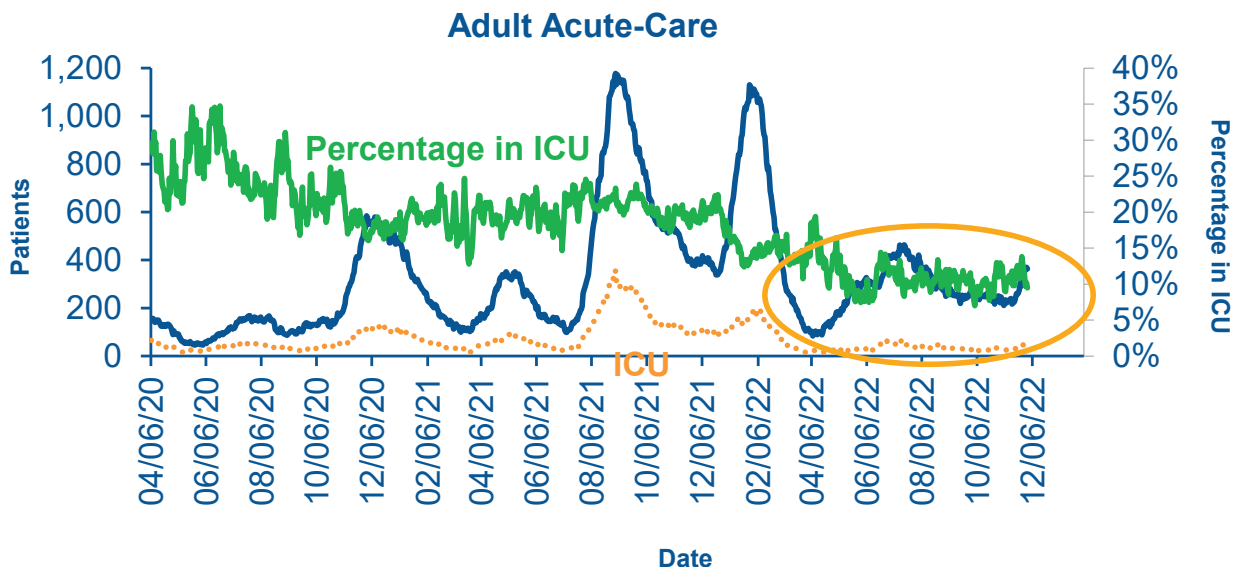


COVID-19 activity

COVID-19 hospitalizations, by severity



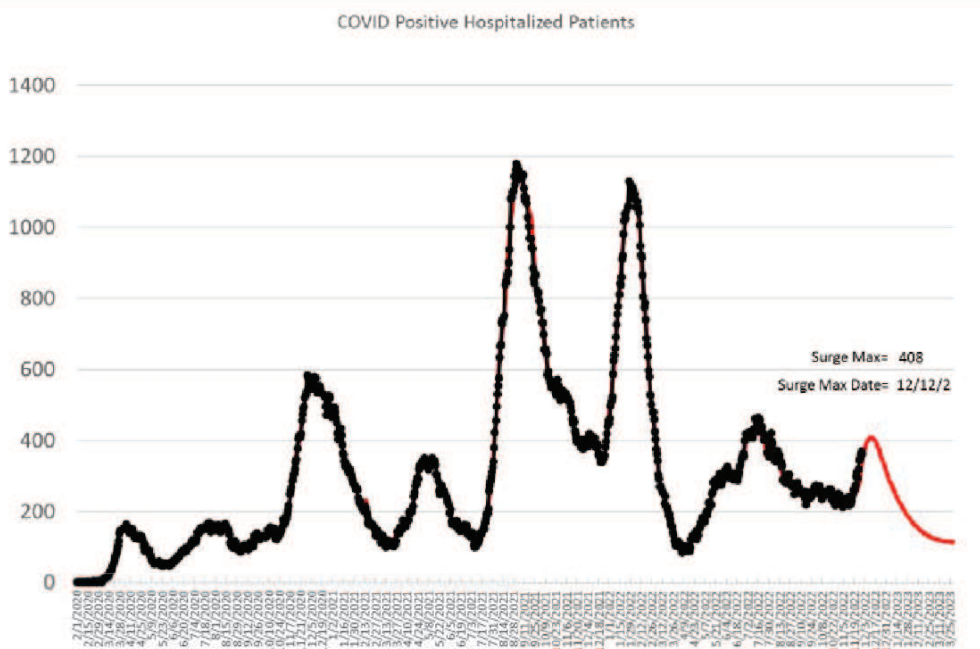
COVID-19 ICU admissions



*"COVID-positive patients." Source: HosCap; data as of 30 Nov 2022.



COVID-19 hospitalizations, projected





WHERE DO I FIND THAT?

IPC Resources for New IPs.

This all-in-one document contains infection prevention resources from several key infection prevention subject areas. To navigate to a specific subject area, simply click the corresponding hyperlink below.

Have suggestions for additional resources?

Email membership@apic.org with your recommendations.

Developed by the 2021 Member Services Committee

Rachel Watson, MPH, CIC, LSSGB (subgroup chair)

Sherry Acosta, RN, MPH, CIC

Andrew Donovan, BSN, RN, CIC

Cherie Frame, RN, MSN, CIC

Debi Hopfner, RN, BSN, CIC, MSN

Sara Podczervinski, RN, MPH, CIC, FAPIC

All information is current as of June 2021.
This reference is fluid and will be updated as needed.

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APIC Resources for New Members

Resource Name	Description	Link
5 Second Rule Podcast	Our podcast: 5 Second Rule. We're talking to infection preventionists and other experts to learn the truth about some common myths related to the risk of infection and to get tips to keep yourself and the people around you safe from infection.	https://5secondruleshow.org
American Journal of Infection Control (AJIC)	APIC's official scientific journal provides the latest peer-reviewed research on infection prevention, epidemiology, infectious diseases, quality management, occupational health, and disease prevention. AJIC also publishes infection prevention guidelines from APIC and the Centers for Disease Control and Prevention.	https://apic.org/member-services/publications/ajic
APIC.org	Landing page for all your APIC resources.	https://apic.org
APIC Text	Provides guidance and recommendations for infection prevention for all settings and diseases.	https://apic.org/resources/apic-text
Developmental Path of the Infection Preventionist	A guide for improving professional practice for Infection Preventionists.	https://apic.org/professional-practice/roadmap
EPI Intensive Education	The best education for a foundation for Infection Prevention.	https://apic.org/course/epi-intensive-4-day-course
Implementation Guides	APIC Implementation Guides provide practical, evidence-based strategies for surveillance and the elimination of infection. Each guide includes online tools and resources. Such as SSI, MRSA and Hand Hygiene	https://apic.org/professional-practice/implementation-guides
Infection Prevention and You	Multiyear awareness campaign features resources for both consumers and healthcare professionals designed to convey important infection prevention information.	https://infectionpreventionandyou.org
Infection Prevention Practice Resources	Resources to common questions such as nail enhancements or animals in the hospital.	https://apic.org/professional-practice/practice-resources

APIC Resources for New Members continued

Resource Name	Description	Link
Infection Prevention Scientific Guidelines	This site provides links to the most current HICPAC guidelines.	https://apic.org/professional-practice/scientific-guidelines
Infection Prevention Training and Education	Available online and in person education.	https://apic.org/education-and-events/online-learning
Infection Preventionist Competency Model	There are four career stages (Novice, Becoming Proficient, Proficient, and Expert) and six future-oriented competency domains (each with subdomains) to guide IPs in progressing through the career.	https://apic.org/professional-practice/infection-preventionist-ip-competency-model
Microlearning Hub	The site features a variety of microlessons for and by IPs on practical IPC topics across the continuum of care. Additionally, APIC's Strategic Partners' microlessons are featured in the APIC Microlearning Hub.	https://apic.org/education-and-events/online-learning/microlearning-hub
Online Learning	Online education that can be used to support knowledge deficits for Infection Preventionists.	https://apic.org/education-and-events/online-learning
Proficient Practitioner Bridge	An online self-assessment for the developmental path of the Infection Preventionist.	https://apic.org/Professional-Practice/roadmap/PPB
Roadmap for the Novice Infection Preventionist	APIC's Novice Roadmap for the Infection Preventionist serves not only as an orientation guide to your first few years in infection prevention.	https://apic.org/professional-practice/roadmap/novice-roadmap-for-the-infection-preventionist
Topic Specific Resources	This resource provides quick links for topics that many IPs get every day – CAUTI, CLABSI, Environment of Care, etc.	https://apic.org/resources/topic-specific-infection-prevention
Webinars	Stay current with the latest clinical information, regulation, and evidence-based practices. Webinars are archived and available 24/7 – plus they're free to APIC members.	https://secure.apic.org/web/apic/EStore/webinars.aspx

Antimicrobial Resistance

Resource Name	Description	Link
Antimicrobial Stewardship Programs (APIC Text) Subscription Required	Overview of current regulations, reviews stewardship strategies for infection preventionists, and identifies opportunities to expand the breadth of the ASP team to leverage different perspectives in the fight against antimicrobial resistance.	https://text.apic.org/toc/basic-principles-of-infection-prevention-practice/antimicrobial-stewardship-programs
Antimicrobial Stewardship Toolkit (American Hospital Association)	Toolkit on antimicrobial stewardship in partnership with APIC and five other national organizations.	http://www.ahaphysicianforum.org/resources/appropriate-use/antimicrobial/index.shtml
Core Elements of Antibiotic Stewardship for Nursing Homes (CDC)	Adapts the CDC Core Elements of Hospital Antibiotic Stewardship into practical ways to initiate or expand antibiotic stewardship activities in nursing homes.	https://www.cdc.gov/longtermcare/pdfs/core-elements-antibiotic-stewardship.pdf
Core Elements of Hospital Antibiotic Stewardship Programs (CDC)	Updates the 2014 Core Elements for Hospital Antibiotic Stewardship Programs and incorporates new evidence and lessons learned from experience with the Core Elements.	https://www.cdc.gov/antibiotic-use/core-elements/hospital.html
Core Elements of Outpatient Antibiotic Stewardship (CDC)	Core Elements of Outpatient Antibiotic Stewardship provides a framework for antibiotic stewardship for outpatient clinicians and facilities that routinely provide antibiotic treatment.	https://www.cdc.gov/antibiotic-use/core-elements/outpatient.html
CRE Control and Prevention Toolkit (Agency for Healthcare Research and Quality – AHRQ)	Offers a step-by-step programmatic approach to the assessment and management of CRE. Each section can be used in its entirety or by pulling our specific sections that meet organizational needs.	https://www.ahrq.gov/hai/patient-safety-resources/cre-toolkit/index.html
Get Smart: Know when antibiotics work	Be Antibiotics Aware is a national effort to help fight antibiotic resistance and improve antibiotic prescribing and use.	https://www.cdc.gov/antibiotic-use/index.html
Inter-facility Infection Control Transfer Form (CDC)	This example inter-facility infection control patient transfer form can assist in fostering communication during transitions of care. This tool can be modified and adapted by facilities and other quality improvement groups engaged in patient safety activities.	https://www.cdc.gov/hai/pdfs/toolkits/Interfacility-IC-Transfer-Form-508.pdf

Antimicrobial Resistance continued

Resource Name	Description	Link
Interim Guidance for a Public Health Response to Contain Novel or Targeted MDROs (CDC)	This document is intended for use by state and local health departments and healthcare facilities and serves as general guidance for the initial response for the containment of novel or targeted multidrug-resistant organisms (MDROs) or resistance mechanisms.	https://www.cdc.gov/hai/pdfs/containment/Health-Response-Contain-MDRO-H.pdf

Certification in Infection Control (CIC) Prep

Resource Name	Description	Link
CBIC resource page	Certification Board in Infection Control (CBIC) provides a number of certification prep resources including links to practice exams and study groups.	https://www.cbic.org/CBIC/Exam-Prep-Resources.htm
Certification Study Guide (APIC)	Reviews the eight exam content areas identified by the Certification Board of Infection Control (CBIC®) practice analysis. Includes three full-length practice tests.	https://secure.apic.org/web/ItemDetail?iProductCode=SLS2005&Category=BOOKS
CIC Online Study Group (APIC)	Member-only online community for those pursuing the CIC.	https://community.apic.org/communities/community-home?CommunityKey=eabdd19c-9565-41ca-85ff-82afee4d5f45
CIC Overview (APIC)	APIC's landing page for CIC Certification resources. Includes links to CIC prep courses and benefits of certification.	https://apic.org/education-and-events/certification
Infection Prevention Certification Review Course (APIC)	Comprehensive CIC course with modules that correspond to exam, interactive ways to test knowledge, and a practice exam.	https://apic.org/course/infection-prevention-certification-review-course
Study Groups (APIC Chapters)	Several APIC Chapters offer virtual study groups, including Florida and Puget Sound APIC.	https://www.cbic.org/CBIC/Exam-Prep-Resources.htm

Certification in Infection Control (CIC) Prep continued

Resource Name	Description	Link
What's app group	Meets every day from 1-2pm EST via WhatsApp, utilizing APIC Study Guide and other resources to help prepare for certification.	https://chat.whatsapp.com/2hxlmEY-hgp02VKiPSaKsEX

Construction & Facilities

Resource Name	Description	Link
Construction and Renovation subscription required	The infection control risk assessment (ICRA) and mitigation processes during construction and renovation projects to provide input addressing infection risks to patients, healthcare personnel, and visitors. This chapter addresses the role of infection prevention in the healthcare facility environment during construction and renovation.	https://text.apic.org/toc/infection-prevention-for-support-services-and-the-care-environment/construction-and-renovation
Environmental Infection Control In Healthcare Facilities (2003)	An environmental infection-control guideline that reviews and reaffirms strategies for the prevention of environmentally-mediated infections, particularly among health-care workers and immunocompromised patients.	https://www.cdc.gov/infectioncontrol/guidelines/environmental/index.html
EPI® Education Series: Basics of Construction and Renovation (APIC)	The EPI course addresses the expectations and responsibilities of the representatives from infection prevention, facilities, plant operations, contractors, and affected program areas during construction and renovation projects in healthcare facilities.	https://apic.org/course/basics-of-construction-and-renovation
Facility Guidelines Institute (FGI) subscription required	Basic information on planning, design, construction, and commissioning as well as minimum design requirements for facility types.	https://fgiguide.org/guidelines/2018-fgi-guidelines
Heating, Ventilation and Air Conditioning (APIC Text) subscription required	This chapter addresses the role of infection prevention and control in the environment with a specific focus on heating, ventilation, and air conditioning systems in healthcare facilities.	https://text.apic.org/toc/infection-prevention-for-support-services-and-the-care-environment/heating-ventilation-and-air-conditioning

Construction & Facilities continued

Resource Name	Description	Link
Infection Prevention Manual for Construction & Renovation (APIC)	This book provides critical resources for the infection preventionist developing a comprehensive infection prevention and control program during construction or renovation of their facility.	https://rise.apic.org/web/ItemDetail?iProductCode=SLS9808P&Category=DIGITAL&WebsiteKey=ce8eff97-87c1-44cf-8448-d811eb61dd63
United Brotherhood of Carpenters	The Carpenters Union workshop training promotes and outlines protection methods and safe work practices for various trades and IP teams on how ICRA forms are used.	www.ubc-icra.org
Water Systems Issues and Prevention of Waterborne Infectious Diseases in Healthcare Facilities (APIC Text)	This chapter addresses waterborne pathogen risks in healthcare settings and strategies for infection prevention and control. Waterborne pathogen risks can be significant in healthcare settings, from unexpected incidents of intrusion of water into occupied areas to mitigation of microbial contamination.	https://text.apic.org/toc/infection-prevention-for-support-services-and-the-care-environment/water-systems-issues-and-prevention-of-waterborne-infectious-diseases-in-healthcare-facilities

Device-Associated Infections

Resource Name	Description	Link
Catheter Associated Urinary Tract Infections (CAUTI) Guidelines	CDC guidelines for developing, implementing, and evaluating infection prevention and control program initiatives to prevent CAUTIs.	https://www.cdc.gov/infectioncontrol/guidelines/cauti/index.html
Central Line Associated Bloodstream Infections (CLABSI) Infection Prevention	CDC guidelines for developing, implementing, and evaluating infection prevention and control program initiatives to prevent CLABSIs.	https://www.cdc.gov/hai/bsi/bsi.html
Implementation Guides (APIC)	APIC offers guides to prevent catheter associated UTIs, central line associated bloodstream infections in addition to the prevention of other infection types.	https://apic.org/professional-practice/implementation-guides
Intravascular Catheter Related Infection (BSI) Guidelines	CDC guidelines for developing, implementing, and evaluating infection prevention and control program initiatives to prevent BSIs.	https://www.cdc.gov/infectioncontrol/guidelines/bsi/index.html

Device-Associated Infections continued

Resource Name	Description	Link
Preventing Device-Associated Infections (AHRQ)	This comprehensive list of resources outlines the Agency for Healthcare Research and Quality (AHRQ) research and best practice development in an effort to help clinicians and staff better understand how to apply proven methods of making care safer.	https://www.ahrq.gov/hai/cauti-tools/phys-championsgd/section4.html

Disease-Specific Guidelines

Resource Name	Description	Link
Infectious Diseases and Pathogens (APIC)	Understand common diseases and pathogens found in healthcare settings and the necessary precautions to put in place to prevent spread within your facility.	https://apic.org/course/infectious-diseases-and-pathogens
Ready Reference for Microbes (APIC)	The fourth edition of this quick reference provides straightforward information on medically common and clinically significant microorganisms: bacteria, common commensals, viruses, fungi, parasites, and organisms used as bioterrorism agents.	https://rise.apic.org/web/ItemDetail?iProductCode=SLS6005&Category=BOOKS&WebsiteKey=ce8eff97-87c1-44cf-8448-d811eb61dd63
The Infection Preventionist's Guide to the Lab (APIC)	This quick reference covers the need-to-know diagnostic tests and microbiology disciplines for infection preventionists. This book supports IPs in making informed decisions about surveillance and patient placement.	https://secure.apic.org/web/ItemDetail?iProductCode=SLS3101&Category=BOOKS

Candida auris (C. auris)

Candida auris (CDC)	Clinical and surveillance information on this emerging, multidrug resistant fungal infection	https://www.cdc.gov/fungal/candida-auris/index.html
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Disease-Specific Guidelines continued

Resource Name	Description	Link
Carbapenem-resistant Enterobacterales (CRE)		
CRE Information (CDC)	Main page for accessing up-to-date info on CRE for patients, clinicians, health departments, and healthcare facilities	https://www.cdc.gov/hai/organisms/cre/index.html
CRE Toolkit (CDC)	Facility guidance for the control of CRE for healthcare facilities	https://www.cdc.gov/hai/pdfs/cre/CRE-guidance-508.pdf
Clostridioides difficile (C. diff)		
C. diff Guidelines and Prevention Resources (CDC)	Links to key guidelines, the C. Diff prevention guide, antibiotic use resources, and information for long-term care on early case identification and tracking in NHSN	https://www.cdc.gov/cdiff/clinicians/resources.html
Information on C. diff (CDC)	Provides information on C. diff prevention, risk factors, information for clinicians, and more.	https://www.cdc.gov/cdiff
COVID-19		
COVID resources (APIC)	Variety of resources on COVID-19 vaccine, PPE, and links to educational webinars.	https://apic.org/covid19
COVID tracker (CDC)	Maps and charts tracking US cases, deaths, and trends.	https://covid.cdc.gov/covid-data-tracker/#datatracker-home
Disinfectants for Coronavirus (COVID-19) (EPA)	Includes searchable list for products that meet criteria for use against SARS-CoV-2.	https://cfpub.epa.gov/giwiz/disinfectants/index.cfm
Guidance Documents (CDC)	Search field for CDC COVID-19 guidance documents that can be filtered by audience, topic, and release date.	https://www.cdc.gov/coronavirus/2019-ncov/communication/guidance-list.html?Sort=-Date%3A%3Adesc

Disease-Specific Guidelines continued

Resource Name	Description	Link
Infection Control Guidance for Healthcare Professionals about COVID-19 (CDC)	Resources on infection control, PPE, transmission-based precautions, and by care setting.	https://www.cdc.gov/coronavirus/2019-ncov/hcp/infection-control.html
Ebola Virus Disease (EVD)		
Infection Prevention and Control Recommendations for Hospitalized Patients Under Investigation (CDC)	Includes guidance to help healthcare personnel follow standard, contact, and droplet precautions	https://www.cdc.gov/vhf/ebola/clinicians/evd/infection-control.html
National Emerging Special Pathogens Training and Education Center (NETEC)	Resources on infection control, PPE, healthcare readiness, lab testing, etc.	https://netec.org
Healthcare-Associated Pneumonia		
Pneumonia Management and Prevention Guidelines (CDC)	Includes guidelines for community and healthcare-associated pneumonia.	https://www.cdc.gov/pneumonia/management-prevention-guidelines.html
Ventilator-associated Pneumonia (VAP) - (CDC)	VAP resources for patients and healthcare providers and prevention guidelines.	https://www.cdc.gov/hai/vap/vap.html
Hepatitis A, B, C		
Hepatitis A (CDC)	Testing, screening, medical management, statistics.	https://www.cdc.gov/hepatitis/hav/index.htm
Hepatitis B (CDC)		https://www.cdc.gov/hepatitis/hbv/index.htm
Hepatitis C (CDC)		https://www.cdc.gov/hepatitis/hcv/index.htm

Disease-Specific Guidelines continued

Resource Name	Description	Link
Influenza (Flu)		
Healthcare Personnel (HCP) Fight Flu Toolkit (CDC)	Tools for HCP to help make strong influenza recommendation, improve vaccine rates, facility conversations with patients.	https://www.cdc.gov/flu/professionals/vaccination/prepare-practice-tools.htm
Infection Control in Health Care Facilities (CDC)	Summary documents on flu prevention, educational resources, and guidelines.	https://www.cdc.gov/flu/professionals/infectioncontrol/index.htm
Prevention and Control of Seasonal Influenza with Vaccines (CDC)	Background on flu, vaccine composition, efficacy, and safety. Updated annually,	https://www.cdc.gov/flu/professionals/acip/index.htm
Weekly U.S. Influenza Surveillance Report (CDC)	Surveillance reports and maps with case, hospitalization, and influenza-like illness data.	https://www.cdc.gov/flu/weekly/index.htm
Legionella and Waterborne Pathogens		
Defining Healthcare Facilities and Healthcare-Associated Legionnaire's Disease (CDC)	Definitions of presumptive and possible healthcare-associated legionnaires' Disease and exposures.	https://www.cdc.gov/legionella/health-depts/healthcare-resources/healthcare-facilities.html
Reduce Risk from Water (CDC)	HAI prevention guidance from plumbing to patients; links to helpful infographics and a water infection control risk assessment.	https://www.cdc.gov/hai/prevent/environment/water.html
Water Management in Healthcare Facilities (CDC)	Guidance on developing a comprehensive water management program.	https://www.cdc.gov/legionella/wmp/healthcare-facilities/water-mgmt-facilities.html

Disease-Specific Guidelines continued

Resource Name	Description	Link
Measles		
Interim Infection Prevention and Control Recommendations for Measles in Healthcare Settings (CDC)	Infection prevention recommendations for measles in healthcare settings	https://www.cdc.gov/infectioncontrol/guidelines/measles/index.html
Managing Measles Exposures in Health Care Workers (Minnesota Dept of Health)	Information for employee health and infection prevention staff on evaluating health care workers' measles immune status and responding to exposures in health care settings.	https://www.health.state.mn.us/diseases/measles/hcp/control.html
Norovirus		
Norovirus Guidelines for Healthcare Settings (CDC)	Recommendations for hand hygiene, diagnostics, patient cohorting and isolation, and more.	https://www.cdc.gov/infectioncontrol/guidelines/norovirus/index.html
Responding to Norovirus Outbreaks (CDC)	Typical responsibilities during an outbreak, outbreak definition, using clinical and epidemiological criteria for outbreaks	https://www.cdc.gov/norovirus/trends-outbreaks/responding.html
Sepsis		
Sepsis Clinical Resources (CDC)	Includes surveillance and epidemiology, prevention, treatment, and clinical guidelines	https://www.cdc.gov/sepsis/clinical-tools/index.html
Sepsis Information (Minnesota Hospital Association)	Includes a sepsis road map, toolkit, and webinars.	https://www.mnhospitals.org/quality-patient-safety/quality-patient-safety-improvement-topics/sepsis#/videos/list

Disease-Specific Guidelines continued

Resource Name	Description	Link
Tuberculosis		
Information on TB in Healthcare Settings (CDC)	Includes links to infection control, TB screening, and resources for healthcare settings	https://www.cdc.gov/tb/topic/infectioncontrol/default.htm
TB 101 for Healthcare Workers (CDC)	Web-based course designed to educate HCW about basic concepts related to TB prevention and control in the U.S.	https://www.cdc.gov/tb/webcourses/tb101/default.htm

Environmental Services

Resource Name	Description	Link
Environmental Checklist (Washington State Hospital Association)	Checklist for daily and terminal cleaning.	https://docs.google.com/viewer?url=http%3A%2F%2Fwww.wsha.org%2Fwp-content%2Fuploads%2F07_08_16-Environmental-Checklist.xlsx
Environmental Cleaning in Healthcare Training Video Series (Nebraska Dept of Health and Human Services)	Includes a video series on environmental cleaning in multiple languages. Topics covered include setting up the cleaning cart, cleaning patient rooms, and hand hygiene.	https://icap.nebraskamed.com/practice-tools/educational-and-training-videos/draft-environmental-cleaning-in-healthcare
Environmental Infection Control Guidelines (CDC)	Includes recommendations on air-handling systems, construction, ventilation, engineering controls, and more.	https://www.cdc.gov/infectioncontrol/guidelines/environmental/index.html
Environmental Protection Agency (EPA)	Information on certain EPA-registered disinfectants, including links to lists of products registered against common pathogens like hepatitis, norovirus, <i>Candida auris</i> .	https://www.epa.gov/pesticide-registration/selected-epa-registered-disinfectants
Environmental Services (APIC)	Training modules, infographics, flashcards, webinars for healthcare professionals and resources for consumers.	https://apic.org/resources/topic-specific-infection-prevention/environmental-services

Environmental Services continued

Resource Name	Description	Link
Training Videos (Oregon Patient Safety Commission)	Includes a variety of videos in different languages on environmental cleaning, healthcare laundry basics, and more.	https://www.youtube.com/c/Oregon-patientsafetyOrg/videos

Equipment Reprocessing

Resource Name	Description	Link
Cleaning, Disinfection, and Sterilization (APIC Text) Subscription required	Addresses cleaning and levels of disinfection and sterilization dependent on the intended use of the object, as well as the importance of environmental cleaning and disinfection for maintaining a safe patient environment.	https://apic.org/resources/topic-specific-infection-prevention/disinfection-and-sterilization
Disinfection and Sterilization Checklist for Ambulatory Care	Checklist should be used to ensure that the facility has appropriate infection prevention policies and procedures in place and supplies to allow healthcare personnel to provide safe care.	https://apic.org/Resource_/TinyMceFileManager/Academy/ASC_101_resources/Assessment_Checklist/Ambulatory_Outpatient_Checklist_CDC_2011.pdf
Guideline for Disinfection and Sterilization in Healthcare Facilities (2008)	Evidence-based recommendations Guideline for disinfection and sterilization in healthcare facilities.	https://www.cdc.gov/infectioncontrol/guidelines/disinfection/index.html
Reprocessing of Reusable Medical Devices (FDA)	Learn more about reprocessing of reusable medical devices, the challenges of reprocessing and ways the FDA is helping address problems with today's reprocessed devices.	https://www.fda.gov/medical-devices/products-and-medical-procedures/reprocessing-reusable-medical-devices
Reprocessing Single-Use Devices (APIC Text) Subscription required	Addresses regulation and requirements for reprocessing single use devices.	https://text.apic.org/toc/basic-principles-of-infection-prevention-practice/reprocessing-single-use-devices

General Information for Infection Prevention and Control

Resource Name	Description	Link
Agency for Healthcare Research and Quality (AHRQ) Healthcare-associated Infections Program	Publicly available tools and resources are based on AHRQ's research.	https://www.ahrq.gov/hai/index.html
Association for Professionals in Infection Control and Epidemiology (APIC)	The APIC homepage is a great first stop for all things infection prevention and control.	https://www.apic.org
Centers for Disease Control and Prevention (CDC) Healthcare-associated Infections (HAI)	A robust CDC resource that outlines many areas of consideration for the management of HAIs to include guidelines and recommendations, prevention strategies, and innovative research.	https://www.cdc.gov/hai/index.html
Centers for Medicare and Medicaid Services (CMS) Hospital Infection Control Worksheet	This resource offers a list of items that must be assessed during the on-site survey, in order to determine compliance with the Infection Control Condition of Participation. IPs can use this worksheet as a gap-analysis tool to assess their organization's state of readiness for accreditation survey.	https://www.cms.gov/medicare/provider-enrollment-and-certification/surveycertificationgeninfo/downloads/survey-and-cert-letter-15-12-attachment-1.pdf
Forms & Checklists for Infection Prevention, Vol 2 (APIC)	Comprehensive collection of infection prevention sample policies for a range of departments and patient care settings, plus additional tools, forms, checklists, and resources in other major areas. The book is organized into five sections: patient care policies, department policies, occupational health, construction and renovation, and long-term care.	https://rise.apic.org/web/ItemDetail?iProductCode=SLS1000&Category=BOOKS&WebsiteKey=ce8eff97-87c1-44cf-8448-d811eb61dd63
Fundamental Statistics & Epidemiology in Infection Prevention (APIC)	Tools and resources for making informed and surveillance-based calculations in your facility; instructions on how to design research projects, including qualitative and clinical research studies; covers topics including surveillance, outbreak investigations, patient safety, quality concepts, and process control charts.	https://rise.apic.org/web/ItemDetail?iProductCode=SLS0501P&Category=DIGITAL&WebsiteKey=ce8eff97-87c1-44cf-8448-d811eb61dd63

General Information for Infection Prevention and Control continued

Resource Name	Description	Link
Joint Commission Infection Control Portal	As a well-established accrediting body, The Joint Commission provides links to materials developed by The Joint Commission, Joint Commission Resources® (JCR®), and the Center for Transforming Healthcare that relate to infection prevention and control (IPC).	https://www.jointcommission.org/hai.aspx
National Action Plan to Prevent Health Care-Associated Infections: Road Map to Elimination	The Department of Health and Human Services (HHS) nationwide action plan to prevent the development and spread of healthcare associated infections.	https://health.gov/our-work/health-care-quality/health-care-associated-infections/national-hai-action-plan
State-Based HAI Prevention	Provides an interactive map to view HAI and antimicrobial resistance prevention work and health department contact information for every state.	https://www.cdc.gov/hai/state-based/index.html
The Society for Healthcare Epidemiology of America (SHEA): Compendium of Strategies to Prevent Health-care-Associated Infections in Acute Care Hospitals	Evidence-based, practical recommendations for acute care hospitals for the prevention of common HAIs.	https://shea-online.org/index.php/practice-resources/priority-topics/compendium-of-strategies-to-prevent-hais

Hand Hygiene

Resource Name	Description	Link
CDC/Strive Infection Control Training	Curriculum was developed by national infection prevention experts led by the Health Research & Educational Trust (HRET) for CDC. Courses address both the technical and foundational elements of healthcare-associated infection (HAI) prevention.	https://www.cdc.gov/infectioncontrol/training/strive.html
Clean Hands Count Video	CDC clean hands, Hand Hygiene video.	https://www.youtube.com/watch?v=MzkNSzqmUSY

Hand Hygiene continued

Resource Name	Description	Link
Guidelines on Hand Hygiene in Healthcare (CDC)	CDC 2019 provides Guidelines on Hand Hygiene & Coronavirus.	https://www.cdc.gov/coronavirus/2019-ncov/hcp/hand-hygiene.html
Hand Hygiene Campaign — Wash Your Hands	APIC resources on hand hygiene for healthcare professionals.	https://apic.org/news/engage-in-the-who-save-lives-clean-your-hands-campaign-5-may-2014
Hand Hygiene Guide and Tool (APIC)	CDC guidelines for hand hygiene & their Clean Hands Saves Lives Campaign.	https://apic.org/Resources/Topic-specific-infection-prevention/hand-hygiene
Hand Hygiene Implementation guide (APIC) Subscription required	The Guide to Hand Hygiene Programs for Infection Prevention covers the key components of hand hygiene programs and more.	https://apic.org/professional-practice/implementation-guides/
Hand Hygiene in Healthcare Settings (CDC)	CDC guidelines for hand hygiene in the healthcare facility. Practicing hand hygiene is a simple yet effective way to prevent infections. On average, healthcare providers clean their hands less than half of the times they should.	https://www.cdc.gov/handhygiene
World Health Organization (WHO) Guidelines on Hand Hygiene in Healthcare	The WHO Guidelines on Hand Hygiene in Health Care provide healthcare workers (HCWs), hospital administrators and health authorities with a thorough review of evidence on hand hygiene in health care and specific recommendations to improve practices and reduce transmission of pathogenic microorganisms to patients and HCWs.	https://apps.who.int/iris/bitstream/handle/10665/44102/9789241597906_eng.pdf?sequence=1&isAllowed=y&ua=1

Immunization

Resource Name	Description	Link
American College of Obstetricians and Gynecologists (ACOG)	Practice Advisory clinical guidance for pregnancy and vaccination.	https://www.acog.org/clinical/clinical-guidance/practice-advisory
Guide for Immunization (APIC)	APIC Healthcare Worker Immunization Toolkit. The purpose of this toolkit is to provide infection preventionists and their employee/occupational health colleagues with a full spectrum of information, tools and resources that will assist them with the planning, development, implementation, evaluation and improvement of their healthcare personnel immunization program relevant in all healthcare settings.	https://apic.org/Resource_/TinyMceFileManager/Practice_Guidance/HCW_Immunization_Toolkit_122012.pdf
Recommended Child and Adolescent Immunization Schedule by Medical Indication, United States, 2021. Immunization schedules for 2021.	Red book — pediatric specific resource	https://redbook.solutions.aap.org/selfserve/sspage.aspx?selfservecontentid=immunization_schedules
The 13th Edition Epidemiology and Prevention of Vaccine-Preventable Diseases	Pink book	https://www.cdc.gov/vaccines/pubs/pinkbook/index.html

Injection Safety and Drug Diversion

Resource Name	Description	Link
Bloodborne pathogens (CDC)	Provides links to occupations where the employees may have occupational exposure to bloodborne pathogens.	https://www.cdc.gov/niosh/topics/bbp/occupations.html
Drug Diversion (CDC)	Healthcare providers who steal prescription medicines or controlled substances such as opioids for their own use put patients at risk. CDCs provided link for information for Clinicians on Preventative Resources, Reported Outbreaks and Publication website on Drug Diversion.	https://www.cdc.gov/injectionsafety/drugdiversion/index.html

Injection Safety and Drug Diversion continued

Resource Name	Description	Link
Drug Diversion Risk Rounds Checklist from Diversion Specialists	The link provided is a released article explaining and developing Diversion Risk Rounds. Diversion Risk Rounds is a proactive means to ensure compliance and patient safety.	http://www.diversionspecialists.com/wp-content/uploads/Diversion
Hepatitis (APIC Text) Subscription required	The purpose of this chapter is to review the epidemiology, description, pathogenesis, clinical features, diagnosis, treatment, and prevention of viral Hepatitis A-E.	https://text.apic.org/toc/health-care-associated-pathogens-and-diseases/viral-hepatitis
Infection Prevention during Blood Glucose Monitoring and Insulin Administration	CDC link POC Testing/Prevention from Needle Sticks.	https://www.cdc.gov/injectionsafety/blood-glucose-monitoring.html
Injection Safety	APIC Position Paper on Injection Safety Practices.	https://apic.org/Resource_/TinyMceFileManager/Position_Statements/2016APICSIPPositionPaper.pdf
Injection Safety Checklist (CDC)	CDC Safe-Injection Safety Checklist.	https://www.cdc.gov/injectionsafety/PDF/Safe-Injection-Checklist-P.pdf
Injection Safety Competency Assessment (SPICE)	Injection Safety Competency Injection Safety Competency Point of Care Checklist.	https://spice.unc.edu/wp-content/uploads/2017/03/Injection-Safety
OSHA Bloodborne pathogens	Needlesticks and other sharps-related injuries may expose workers to bloodborne pathogens. The link provided is OSHA's Guidance and Recommendations on prevention and controlling the exposure to Bloodborne Pathogens.	https://www.osha.gov/blood-borne-pathogens
Safe injection Practices (CDC)	CDC's guide and recommendations for Safe injection practices. The Guide for Safe Injection Practices are part of Standard Precautions and are aimed at maintaining basic levels of patient safety and provider protections.	https://www.cdc.gov/injectionsafety
Sentinel Event Alert Issue 52: Preventing infection from misuse of vials (Joint Commission)	Joint Commission Event Alert on Adverse Events on Single use vials.	https://www.jointcommission.org/sea_issue_52

Injection Safety and Drug Diversion continued

Resource Name	Description	Link
The One and Only Campaign	Public health effort to eliminate unsafe medical injections.	https://www.cdc.gov/injectionsafety/one-and-only.html

Leadership and Professional Development for the IP

Resource Name	Description	Link
Advancing Your Practice Online Series (APIC)	Take advantage of this great package offering, mapped to APIC's new Competency Model, that includes new and updated online courses on leadership, financial acumen, health IT, education, and research.	https://apic.org/course/advancing-your-practice
Basic Statistics for Infection Preventionists	Learn how to use the appropriate statistical methods to analyze and interpret the data you gather. This four-module course covers descriptive statistics; inferential statistics; and ratios, rates, and proportions in two parts.	https://apic.org/course/basic-statistics-for-infection-preventionists
EPI® Education Series: Effectively Using Data	Learn how to make use of the data you gather, whether integrating NHSN into a comprehensive data management approach, using data to assess and monitor the implementation of evidence-based practices, analyzing and evaluating outcomes of care or communicating information to various stakeholders.	https://apic.org/course/effectively-using-data
Leadership and Management in Infection Prevention (APIC)	Leadership, one of the six future-oriented competency domains in APIC's Competency Model for the IP, is an essential, strategic skillset that requires training, reinforcement, and development. Develop the knowledge, skills, awareness, and mindset to be an effective and impactful leader throughout your facility and network.	https://apic.org/course/leadership-and-management-in-infection-prevention

Leadership and Professional Development for the IP continued

Resource Name	Description	Link
Leadership Matters Powered by APIC and SmartBrief	Weekly newsletter gives IPs and healthcare professionals the information they need to make strategic decisions and build meaningful relationships. Each issue includes a selection of curated articles on leadership strategies, communications and teamwork, management tips, and more.	http://apic.org/leadership-matters
Making the Business Case: Financial Acumen for the Infection Preventionist	Learn how to navigate your way through a variety of business, financial, and communication challenges to make the case for investments in reducing infections. This four-module video-based course will increase your acumen in this key business competency.	https://apic.org/course/financial-acumen-for-the-infection-preventionist
Research Education Series	This 6-part lecture series will show you the steps you need to take to boost your research skills and competencies.	https://apic.org/course/research-webinar-series

Occupational Health/Healthcare Personnel Safety

Resource Name	Description	Link
Bloodborne Pathogens (Occupational Safety and Health Administration – OSHA)	Information and important guidance on bloodborne pathogens and needlestick prevention.	https://www.osha.gov/SLTC/blood-bornepathogens/otherre
Fit testing (OSHA)	Respirator fit testing videos in English and Spanish.	https://www.osha.gov/video/respiratory-protection/fit-testing
Guideline for Infection Control in Healthcare Personnel (2019) (CDC)	Recommendations aimed at the leaders and staff of Occupational Health Services (OHS) and the administrators and leaders of healthcare organizations (HCO) and intended to facilitate the provision of occupational IPC services to HCP.	https://www.cdc.gov/infectioncontrol/guidelines/healthcare-personnel/index.html

Occupational Health/Healthcare Personnel Safety continued

Resource Name	Description	Link
Occupational Health (APIC Text) Subscription required	Outlines the infection prevention considerations when designing and implementing an occupational health program for a healthcare facility.	https://text.apic.org/toc/infection-prevention-for-occupational-health/occupational-health
Recommended Vaccines for Healthcare Workers (HCWs) (CDC)	Includes state immunization laws and resources for those vaccinating HCWs.	https://www.cdc.gov/vaccines/adults/rec-vac/hcw.html
Respiratory Protection Standard (OSHA)	Standards aimed to control occupational diseases caused by breathing contaminated air primarily through engineering control measures and appropriate respirator use.	https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_id=12716&p_table=standards

Outbreak Investigation Resources

Resource Name	Description	Link
Best Practices in Conducting Patient Notification (CDC)	General tips and best practices to consider for the release of patient notification letters and in working with partners to spread your message.	https://www.cdc.gov/injectionsafety/pntoolkit/section4.html
Council for Outbreak Response (CORHA)	Comprehensive reference containing information specific to outbreak detection, reporting, investigation, and control covering key areas that are applicable to settings across the public health and healthcare continuum.	https://www.corha.org/resources/high-level-guidance-for-outbreaks-of-healthcare-associated-infections-and-antimicrobial-resistant-pathogens
FDA MedWatch	FDA's medical product safety reporting program for health professionals, patients, and consumers.	https://www.fda.gov/safety/med-watch-fda-safety-information-and-adverse-event-reporting-program

Outbreak Investigation Resources continued

Resource Name	Description	Link
Fundamental Statistics & Epidemiology in Infection Prevention	Tools and resources for making informed and surveillance-based calculations in your facility; instructions on how to design research projects, including qualitative and clinical research studies; covers topics including surveillance, outbreak investigations, patient safety, quality concepts, and process control charts.	https://rise.apic.org/web/ItemDetail?iProductCode=SLS0501P&Category=DIGITAL&WebsiteKey=ce8eff97-87c1-44cf-8448-d811eb61dd63
Outbreak Investigations (APIC Text) Subscription required	Comprehensive reference for infection prevention and control reflecting the latest guidelines, regulations, and standards of practice	https://text.apic.org/toc/epidemiology-surveillance-performance-and-patient-safety-measures/outbreak-investigations
Outbreaks and Patient Notifications (CDC)	Resources for state health departments investigating healthcare-associated infection outbreaks and patient notifications.	https://www.cdc.gov/hai/outbreaks/outbreak-resources.html
Steps for Evaluating an Infection Control Breach (CDC)	Approach to an infection control breach with potential risk of bloodborne pathogen transmission.	https://www.cdc.gov/hai/outbreaks/steps_for_eval_ic_breach

Personal Protective Equipment (PPE)

Resource Name	Description	Link
Minnesota Department of Health PPE Training Video	PPE donning and doffing training video.	https://www.youtube.com/watch?v=6OVMetPKo90
PPE Competency Assessment from North Carolina's Statewide Program for Infection Control and Epidemiology (SPICE)	PPE Competency Validation: Donning and Doffing, and Standard Precautions and Transmission Based Precautions.	https://spice.unc.edu/resources/ppe-competency-spice/
PPE Do's and Don'ts (APIC)	Education flyers outlining key points on how to properly wear PPE in non—surgical settings.	https://infectionpreventionandyou.org/infographic/ppe-dos-and-donts

Personal Protective Equipment (PPE) continued

Resource Name	Description	Link
PPE Donning and Doffing Posters (CDC)	CDC recommended sequence for donning (putting on) and doffing (removing) PPE.	https://www.cdc.gov/hai/pdfs/ppe/PPE-Sequence.pdf
Protecting Healthcare Personnel (CDC)	Resources intended to promote patient safety and increase the safety of the healthcare work environment through improved use of PPE by healthcare personnel.	https://www.cdc.gov/hai/prevent/ppe.html
Quick Observation Tools (QUOTS) (APIC)	Comprehensive infection prevention and control observational audit tool library.	https://ipobservationtools.org/observation-tools-library

Procedure-Associated Infections

Resource Name	Description	Link
Endoscopy (APIC Text) Subscription required	Addresses the importance of healthcare personnel ensuring equipment is designed and maintained properly and that guidelines for reprocessing are strictly followed to prevent infection.	https://text.apic.org/toc/infection-prevention-for-practice-settings-and-service-specific-patient-care-areas/endoscopy
Enhanced Recovery After Surgery (ERAS) Society Guidelines	Perioperative care guidelines to improve recovery through research, education, audit, and implementation of evidence-based practices.	https://erassociety.org/guidelines/list-of-guidelines
Infections in Indwelling Medical Devices (APIC Text) Subscription required	Addresses current issues in the prevention and management of infections in various implanted medical devices seen in current clinical practice, with a focus on select permanent devices seen in the inpatient arena.	https://text.apic.org/toc/prevention-measures-for-healthcare-associated-infections/infections-in-indwelling-medical-devices
Information on Surgical Site Infections (SSI): Guideline for Prevention of Surgical Site Infection (2017) (CDC)	Recommendations developed based on a targeted systematic review of evidence on SSI prevention.	https://www.cdc.gov/infectioncontrol/guidelines/ssi/index.html

Procedure-Associated Infections continued

Resource Name	Description	Link
Strong for Surgery Checklists (American College of Surgeons)	Checklists for screening patients for potential risk factors that can lead to surgical complications, and to provide appropriate interventions to ensure better surgical outcomes.	https://www.facs.org/quality-programs/strong-for-surgery/clinicians
Surgical Site Infection Prevention Checklist (Joint Commission)	A surgical site infection prevention bundle checklist.	https://www.jcrinc.com/assets/1/7/PSIO.pdf

Public Policy/Government Affairs

Resource Name	Description	Link
APIC Advocacy	The APIC Public Policy Committee monitor, analyze, and provide input into legislation in the U.S. Congress and in state legislatures, and closely follow and provide input into the work of regulatory agencies.	https://cqrcengage.com/apic/home
Federal Legislation	Federal legislation that is followed by APIC.	https://cqrcengage.com/apic/federal
State Legislation	A map to track legislation by state.	https://cqrcengage.com/apic/state
State Policy Resources (CDC)	State-based HAI prevention activities and policy resources.	https://www.cdc.gov/hai/state-based/policy.html

Regulatory and Accreditation

Resource Name	Description	Link
APIC/JCR Infection Prevention & Control Workbook	This resource, co-published by Joint Commission Resources and APIC, addresses infection prevention and control in all types of healthcare settings. It discusses and clarifies The Joint Commission requirements and offers a wealth of tools for organizations to assess and improve their IPC activities.	https://secure.apic.org/web/ItemDetail?iProductCode=SLS1009&Category=BOOKS

Respiratory Etiquette/Hygiene

Resource Name	Description	Link
Cover Your Cough posters from Minnesota Department of Health	Posters for informing staff and patients on precautions for respiratory hygiene.	https://www.health.state.mn.us/people/cyc/index.html
Epidemiology and Prevention of Vaccine-Preventable Diseases – The Pink Book	Comprehensive information on routinely used vaccines and the diseases they prevent.	https://www.cdc.gov/vaccines/pubs/pinkbook/flu.html
Respiratory Hygiene/Cough Etiquette in Healthcare Settings (CDC)	CDC link to Best Practices to prevent the transmission of respiratory infections in healthcare settings.	https://www.cdc.gov/flu/professionals/infectioncontrol/resphygiene.htm

Setting-Specific Guidelines

Resource Name	Description	Link
CDC Centers for Medicare & Medicaid Services (CMS) training for Long-Term Care	Information about a free on-line training course in IPC for nursing home and long-term care staff.	https://www.cms.gov/newsroom/fact-sheets/cms-cdc-offer-specialized-online-infection-prevention-and-control-training-nursing-home-staff-long
Infection Prevention in Nursing Homes and Assisted Living (CDC)	Strategies to address infections in LTC facilities.	https://www.cdc.gov/longtermcare/index.html

Ambulatory Care

IPC Essentials for Ambulatory Care Workbook (APIC)	This collection of worksheets, factsheets, observation tools, articles, and references	https://rise.apic.org/web/ItemDetail?iProductCode=SLS7001P-WB&-Category=DIGITAL&WebsiteKey=ce8eff97-87c1-44cf-8448-d811eb61dd63
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Setting-Specific Guidelines continued

Resource Name	Description	Link
Dental		
Infection Prevention in Dental Settings (CDC)	Guidelines and recommendations, frequently asked questions, and resources to support the evaluation of and adherence to guidelines.	https://www.cdc.gov/oralhealth/infectioncontrol/index.html
Organization for Safety and Asepsis – Dental Infection Control Resources	Dental infection prevention policies and practices.	https://www.osap.org
Dialysis		
CDC Dialysis Safety (CDC)	Info on making dialysis safer for patients	https://www.cdc.gov/dialysis/index.html
Dialysis BSI Toolkit (CDC/Health Services Advisory Group)	BSI prevention resources	https://www.hsag.com/contentassets/2d5ad9fdf2cf4c228e8fbbe-358ca1083/a-nw-7_bsi-toolkit_intro-and-instructions_508.pdf
Long Term Care		
EPI® in Long-Term Care Certificate Series (APIC)	The “Certificate of Training in Infection Prevention in the Long-Term Care Setting” provides those working in long-term care with a baseline of infection prevention and control (IPC) knowledge, as well as information on handling the infection prevention challenges that are unique to the long-term care (LTC) practice setting.	https://apic.org/education-and-events/ltc-certificate
Infection Prevention Guide to Long-Term Care (APIC)	Helps LTC infection preventionists and other leaders navigate the regulatory environment and implement evidence-based infection prevention and control (IPC) programs.	https://secure.apic.org/web/ItemDetail?iProductCode=SLS6008&Category=BOOKS

Setting-Specific Guidelines continued

Resource Name	Description	Link
Outpatient/Ambulatory Surgery Centers		
ASC Infection Control Worksheet (CMS)	A list of items that are assessed during a CMS on-site survey.	https://www.cms.gov/Regulations-and-Guidance/Guidance/manuals/downloads/som107_exhibit_351.pdf
Basic Infection Control and Prevention Plan for Outpatient Oncology Settings	Outpatient oncology infection control and prevention plan.	https://www.cdc.gov/hai/settings/outpatient/basic-infection-control-prevention-plan-2011/index.html
Guide to Infection Prevention for Outpatient Podiatry Settings (CDC)	Model for a basic infection prevention and control (IPC) plan for providers in outpatient podiatry offices or those who travel to provide podiatry services at other locations (such as nursing homes, assisted living facilities, and home care).	https://www.cdc.gov/infectioncontrol/pdf/Podiatry-Guide_508.pdf
Guide to Infection Prevention in Outpatient Settings (CDC)	Summary guide of infection prevention recommendations for outpatient (ambulatory care) settings.	https://www.cdc.gov/hai/settings/outpatient/outpatient-care-guidelines.html

Stakeholder Websites

Resource Name	Description	Link
Association for Professionals in Infection Control and Epidemiology National and APIC Local Chapters	Leading professional association for infection preventionists.	https://apic.org
Association of Healthcare Research and Quality (AHRQ)	Mission is to produce evidence to make health care safer, higher quality, more accessible, equitable, and affordable.	https://www.ahrq.gov

Stakeholder Websites continued

Resource Name	Description	Link
Certification Board in Infection Control (CBIC)	Multidisciplinary board that provides direction for and administers the certification process for professionals in infection control and applied epidemiology.	https://www.cbic.org/CBIC.htm
Institute for Healthcare Improvement (IHI)	Uses improvement science to advance and sustain better outcomes in health and health care across the world.	http://www.ihl.org/?gclid=EAlaIQob-ChMIzpeL2K385AIVWyCtBh3NkAD-DEAAYASAAEgly6PD_BwE
Leading Age for Long-Term Care	A network of nonprofit leaders empowering people to live fully as they age.	https://www.leadingage.org
National Care Planning Council	Links to long term care organizations and associations.	https://www.longtermcarelink.net/frames/lm_associations.htm
Society for Healthcare Epidemiology of America (SHEA)	Promotes the prevention of healthcare-associated infections and antibiotic resistance.	https://www.shea-online.org
State Dental Association	Links to state dental associations.	https://ebusiness.ada.org/mystate.aspx

Standard and Transmission-Based Precautions

Resource Name	Description	Link
Enhanced Barrier Precautions for Long-Term Care Facilities (2019)	Long Term Care guidance for isolation practices.	https://www.cdc.gov/hai/containment/PPE-Nursing-Homes.html
Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings (2007) (CDC)	CDC guidance for isolation and precautions.	https://www.cdc.gov/infectioncontrol/guidelines/isolation/index.html

Standard and Transmission-Based Precautions continued

Resource Name	Description	Link
Guide to the Elimination of Multidrug-resistant <i>Acinetobacter baumannii</i> Transmission in Healthcare Settings (2010)	A step-by-step implementation guide to decrease <i>Acinetobacter baumannii</i> in healthcare settings.	https://apic.org/guide-to-the-elimination-of-multidrug-resistant-acinetobacter-baumannii-transmission-in-healthcare-settings-2010
Guide to the Elimination of Infections of Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) Transmission in Hospital Settings, 2nd Edition (2010) (APIC)	A step-by-step implementation guide to decrease MRSA in hospital settings.	https://apic.org/guide-to-the-elimination-of-methicillin-resistant-staphylococcus-aureus-mrsa-transmission-in-hospital-settings-2nd-edition-2010
Isolation (Transmission-Based Precautions) (APIC Text) Subscription required	This chapter provides isolation guidelines published in 2007 by the Healthcare Infection Control Practices Advisory Committee, the Centers for Disease Control and Prevention for emergence of new or evolving pathogens and MDROs.	https://text.apic.org/toc/basic-principles-of-infection-prevention-practice/isolation-precautions-transmission-based-precautions
Isolation Signage	From the CDC, signs that can be used for isolation in any facility.	https://www.cdc.gov/infectioncontrol/basics/transmission-based-precautions.html#anchor_1564058318
Managing Isolation & Screening for MRSA & VRE- On Demand Webinar (APIC)	On demand webinars available for purchase or free with membership.	https://secure.apic.org/web/apic/EStore/webinars.aspx
Standard Precautions (APIC Text) Subscription required	This chapter addresses standard precautions - the minimum set of interventions that are required for preventing the transmission of microorganisms.	https://text.apic.org/toc/basic-principles-of-infection-prevention-practice/standard-precautions
Types and Durations of Precautions Recommended for Selected Infections and Conditions — Appendix A (2007)	Appendix A gives isolation guidance for different types of diseases.	https://www.cdc.gov/infectioncontrol/guidelines/isolation/appendix/type-duration-precautions.html

Surveillance

Resource Name	Description	Link
HICPAC Surveillance Definitions for Home Health Care and Home Hospice Infections (2008) (APIC)	Homecare infection definitions	https://apic.org/Resource_/TinyMce-FileManager/Practice_Guidance/HH-Surv-Def.pdf
National Healthcare Safety Network (NHSN)	This is the nation's most widely used healthcare-associated infection tracking system. NHSN provides facilities, states, regions, and the nation with data needed to identify problem areas, measure progress of prevention efforts, and ultimately eliminate healthcare-associated infections.	https://www.cdc.gov/nhsn/index.html
NHSN Online Training	Training and support for surveillance definition use and data management. Free CE available for all NHSN education course work.	https://www.cdc.gov/nhsn/training/index.html
Reportable Conditions in "Your State"	Search for your state health department and reportable conditions.	https://www.doh.wa.gov/ForPublicHealthandHealthcareProviders
Surveillance (APIC Text) Subscription required	Surveillance is an essential component of an effective infection prevention and control program. This chapter discusses the history, evolution, and use of surveillance programs in health-care settings.	https://text.apic.org/toc/epidemiology-surveillance-performance-and-patient-safety-measures/surveillance

Healthcare-Associated Infections Advisory Committee (HAIAC) Meeting

September 14, 2022

Webinar, PSOB

1:00 – 3:00 pm

800 NE Oregon St.
Portland, OR 97232

Agenda, materials, minutes, recordings, and transcriptions for meetings are available at:

<http://www.oregon.gov/oha/PH/DiseasesConditions/CommunicableDisease/HAI/Prevention/Pages/Meetings.aspx>.

MEMBERS

PRESENT:

- Joshua Bardfield, Supply Chain Services Manager, The Oregon Clinic, P.C. (phone)
- Trista Berry, Infection Prevention/Quality and Risk Manager, St. Alphonsus Medical Center - Baker City (phone)
- Genevieve Buser, MD, Pediatric Infectious Disease Physician, Providence St. Vincent Medical Center (phone)
- Paul Cieslak, MD, Acute and Communicable Disease Prevention (ACDP) and Immunizations Medical Director, Oregon Public Health Division (PHD), Oregon Health Authority (OHA) (phone)
- Pamela Cortez, MBA, BSN, RN, CNE, BC, Director of Patient Safety and Clinical Support, Salem Health (phone)
- Dennis Drapiza, MPH, BSN, RN, CIC, Regional Director, Infection Prevention and Control, Kaiser Permanente Northwest (phone)
- Sydney Edlund, MS, Director of Research and Analytics, Oregon Patient Safety Commission, Oregon Patient Safety Commission (phone)
- Jesse Mensik Kennedy, RN, Nurse Practice Consultant, Oregon Nurses Association
- Vicki Nordby, RN, BSN, Nurse Consultant, Marquis Companies, Inc. (phone)
- Pat Preston, MS, Executive Director, Center for Geriatric Infection Control (phone)
- Kirsten Schutte, MD, Infectious Disease and Medical Director of Infection Prevention and Control, Asante (phone)

MEMBERS

EXCUSED:

- Wendy L. Edwards, RN, BSN, Patient Safety Surveyor, Health Facility Licensing and Certification, Oregon PHD, OHA

Healthcare-Associated Infections Advisory Committee (HAIAC) Meeting

OTHER PARTICIPANTS PRESENT:

- Jon Furuno, PhD, Associate Professor, Department of Pharmacy Practice, Oregon State University/College of Pharmacy, Oregon Health and Science University (OHSU)
- Sandra Assasnik, Director, Safety & Quality, Washington State Hospital Association (phone)
- Lisa Barton, Associate Improvement Advisor, Comagine Health (phone)
- Michelle Bell, MSN, RN, CIC, Regional Director of Infection Prevention, Providence Oregon Region (phone)
- Karen Brooks, RBN, BSN, CIC, Infection Control Practitioner, Legacy Silverton Medical Center (phone)
- Stacy Bullock, Corporate Infection Preventionist, Sapphire Health Services (phone)
- Steven Brash, Infection Prevention Nurse, Adventist Hospital Portland (phone)
- Mesa Greenfield, BSN, RN, CWOCN, Infection Preventionist, Lake Health District (phone)
- Amy Miles, RN, BSN, Infection Preventionist, Grande Ronde Hospital (phone)
- Carey Osborne, RN, Surgery Center of Southern Oregon (phone)
- Mary Post, RN, MS, CNS, CIC, Infection Control/Environmental Health, Shriners Hospital for Children-Portland (phone)
- Amber Stevenson, BSN, RN, OCN, System Clinical Educator/Clinical Orientation Specialist, Asante (phone)
- Holly Villamagna, MD, IPC Medical Director, Hillsboro Medical Center (phone)

OHA STAFF PRESENT:

- Lauren Adrian, ACDP Research Analyst (phone)
- Zintars Beldavs, MS, ACDP Section Manager (phone)
- Judith Guzman-Cottrill, DO, Contractor, OHA (phone)
- Heather Hertzler, MPH, ACDP MDRO Epidemiologist (phone)
- Heather Kaisner, ACDP Healthcare Associated Infections (HAI) Infection Prevention Control Manager (phone)
- Lisa Iguchi, MPH, ACDP HAI Epidemiologist (phone)
- Elizabeth Johnson, RN, BSN, ACDP Infection Preventionist (phone)
- Laura LaLonde, MPH, CPH, CHES, ACDP HAI Office Specialist (phone)

Healthcare-Associated Infections Advisory Committee (HAIAC) Meeting

- Mary Martin, MScPH, BSN, RN, ACDP Infection Preventionist (phone)
- Meghan Millet, BSN, RN, ACDP Infection Preventionist (phone)
- Rebecca Pierce, PhD, MS, BSN, ACDP HAI Program Manager (phone)
- Melissa Sutton, MD, MPH, Medical Director, Respiratory Viral Pathogens (phone)
- Roza Tammer, MPH, CIC, ACDP Infection Control Epidemiologist (phone)
- Dat Tran, MD, HAI Program Medical Director (phone)

ISSUES HEARD:

- Call to order and roll call
- Logistics update
- Approve June 2022 minutes
- Discussion: Topics for future meetings & reports
- Project Firstline update
- HAI Program contact database
- Centers for Disease Control and Prevention (CDC) report: COVID-19 and antimicrobial resistance
- Respiratory virus season update
- Public comment
- Final roll call and adjourn

Item	Discussion	Action Items
Call to order and roll call Roza Tammer, OHA	Forty attendees, 10 members	No action items
Logistics update Roza Tammer, OHA	HAIAC membership updates: Three vacancies: <ul style="list-style-type: none"> • Health insurer representative. • Representative of Department of Human Services. • Physician who practices in an ambulatory surgical center (ASC) with interest and involvement in infection control. 	Please share “Bring your voice to the table” one-pager with your networks and email Roza if interested.

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<p>Approve June 2022 minutes</p>	<p>June 2022 minutes were approved.</p>	<p>Approved June 2022 minutes.</p>
<p>Discussion: Topics for future meetings and reports All members and attendees</p>	<p>Topics for future meetings:</p> <ul style="list-style-type: none"> • Nurse staffing law requires that staffing committees look at patient outcomes when reviewing staffing plans, including patient outcomes such as HAIs and other sentinel events. • How can staff access this information and make their own comparisons. 	
<p>Project Firstline update Judy Guzman-Cottrill, contractor, OHA</p>	<p>See meeting materials pages 7 – 13.</p> <ul style="list-style-type: none"> • Project Firstline update <p>Project Firstline is a national collaborative of healthcare and public health partners that aims to provide engaging, innovative, and effective infection control training for millions of frontline U.S. healthcare personnel (HCP).</p> <ul style="list-style-type: none"> • Needs assessment survey performed in late 2021 • A total of 4,674 HCP completed the survey, with a very wide variety of roles. • The majority (46.3%, n=2,166) of respondents were nurses. • Respondents were from 35/36 counties, 52% of respondents were from Portland area. • 9% of the respondents work statewide. • Critical access hospitals comprised 3% of our total respondents (n=143) • Of those who work in long-term care facilities (LTCF) (n=442), the majority work in nursing homes or other skilled nursing facilities (69.5%). • The other types of LTCF represented include assisted living facilities (21.2%), residential care facilities 	

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	<p>(7.7%), and independent living facilities (1.6%).</p> <ul style="list-style-type: none">• There were 195 respondents who work in at least one facility that provides memory care services.• 53% said they preferred emails containing infection control education,• 45% preferred printed pocket cards or pamphlets with infection control information.• 84% said yes when asked “Have you ever received infection control job training?”• 85% said they rely on CDC for getting infection control information.• We will be able to do more of analysis once the open Project Firstline Epidemiologist position is filled.• Project Firstline in March and April 2022 released a lot of new infection control educational material which is open access.• They have six new training toolkits that are available for review.• We're going to be working with a creative strategic team to determine the best methods for disseminating this new material.• Working to contact Oregon’s 17 community colleges and meet with health education leaders to explore how to help educate future healthcare workers of Oregon using Project Firstline material,• In summary, the new Project Firstline initiative will increase educational resources across healthcare settings.	
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<p>HAI Program contact database Becca Pierce, OHA</p>	<p>Discuss process for maintaining an accurate contact list for our healthcare facilities.</p> <ul style="list-style-type: none"> • HAI Program manages a contacts database for healthcare facilities in Oregon. It allows us to reach our healthcare facility partners to coordinate response efforts, for HAI reporting compliance purposes, and data validation for reportable HAI metrics. • Pandemic challenged process of maintaining accurate contact information as it has brought unprecedented staff turnover and capacity constraints in healthcare. • New collaboration with healthcare facilities across the spectrum of care adds challenge of maintaining contact information for different facility types with different organizational structures and roles. • Options include constantly importing primary point of contacts from things like National Healthcare Safety Network (NHSN) or other reporting systems. Few solutions don't involve some outreach to facilities to ask for primary contact. Second goal is to expand contact types for each type of healthcare facility we work with. <p>Michelle Bell: Providence frontline infection preventionists has challenges determining who their primary contact should be at the county level.</p> <p>Roza Tammer: Vicki [Nordby] says this list should include contacts from the long-term care perspective, administrator, director of nursing, infection preventionist.</p>	
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	<p>Trista Berry: I work at a critical access hospital and our safety officer oversees a lot of the facility, safety work, and employee safety. My role is quality and infection prevention, including any sort of environmental issues or facilities issue, water contamination issues.</p> <p>Becca Pierce: If we were as a program to be conducting regular outreach to ask facilities to update their contact information, what is an appropriate interval we should think about? We've kind of found that quarterly seems to be kind of a magic timeline. How can we minimize burden associated with this ask?</p> <p>Sydney Edlund: We've come to is this conclusion that if we could get facilities to integrate updating contacts when they have a changeover in job role as like a key check box and part of your orientation. If it is part of the orientation process that would save everybody a lot of trouble.</p>	
<p>CDC report: COVID-19 and antimicrobial resistance Roza Tammer, OHA</p>	<p>See meeting materials pages 14 – 18. CDC's 2022 COVID-19 Impact Report (available at https://www.cdc.gov/drugresistance/pdf/covid19-impact-report-508.pdf)</p> <p>Impact on five core actions to combat antimicrobial resistance (AR)</p> <ul style="list-style-type: none"> • Threat estimates: 18 AR bacteria and fungi • Building public health capacity for AR • Technical appendix <p>Impact: Tracking and data Detection/reporting of AR data slowed due to changes in patient care, lab supply challenges, testing, treatment,</p>	

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	<p>and capacity of facilities and public health.</p> <ul style="list-style-type: none"> • Bacterial whole genome sequence (WGS) submissions to AR Lab Network (ARLN) via PulseNet in 2020 21% less than average yearly submission. • Fewer data limit capacity to predict, identify, respond to AR threats. <p>Impact: Preventing infections</p> <ul style="list-style-type: none"> • Many infection prevention and control practices hindered, e.g., hand hygiene, disinfecting equipment, separating patients, using personal protective equipment (PPE). • Challenges compounded by issues related to staff, supply shortages, and changes to protocols. • Consistent and correct infection prevention practice is an important tool for combating AR and saving lives. • AR hospital-onset infections and deaths increased 15% during year one of the pandemic. • Frequent and lengthy use of devices such as catheters and ventilators increased risk. • More <i>Candida auris</i> cases identified. <p>Impact: Antibiotic use</p> <ul style="list-style-type: none"> • Antibiotics varied across settings, but commonly prescribed for COVID-19 even when no bacterial infection was present. • Unnecessary antibiotic use contributes to AR as well as poses patient risk including allergic reactions, toxicity, and <i>Clostridiodes difficile</i>. <p>Impact: Environment and sanitation</p> <ul style="list-style-type: none"> • AR impacts the health of humans, animals, plants, and the environment. 	
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	<ul style="list-style-type: none"> • An existing project funded by CDC’s AR Solutions Initiative leveraged in 2020 to use wastewater to better understand the community burden of COVID-19. • The National Wastewater Surveillance System (NWSS) receives data from 37 states, four cities, and two territories and looks for markers that indicate presence of SARS-CoV-2 in the community. <p>Impact: Vaccines, diagnostics, and therapeutics</p> <ul style="list-style-type: none"> • Beyond treating existing infections, COVID-19 highlighted need for preventive measures including but beyond new drugs,: • New vaccine development, including three new vaccines for pneumococcal disease, can protect against even resistant bugs. • Decolonizing agents can reduce impact of AR. • Support for innovations in development and deployment for new diagnostics and treatment strategies. 	
<p>Respiratory virus season update Melissa Sutton, OHA</p>	<p>2022-23 respiratory season considerations</p> <p>COVID-19 update - vaccination coverage</p> <p>People of all ages living in Oregon:</p> <ul style="list-style-type: none"> • 76.4% initiated COVID-19 vaccination and received at least one dose of any COVID-19 vaccine. • 69.4% completed primary series, or received one dose of Johnson & Johnson, two doses of Moderna, or two doses of Pfizer vaccines. • 40.8% received a booster of any COVID-19 vaccine in addition to completing their primary series. 	

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	<ul style="list-style-type: none">• We have counties with vaccination rates 40% - 90%.• Coverage increases with age in general. Adults 65 years and older, 60 to 64 and even younger adults are hovering about 80 percent.• Quite poor coverage in our lowest risk population, our pediatric population, 41% of 5 to 11-year-olds received a dose of vaccine and only 11% of 0 to 4-year-olds.• Boosters target ancestral or wild type COVID-19 as well as BA-4 and BA-5. These are recommended for all individuals aged 12 and older who have received a primary series or any other booster at least two months previously. Only bivalent boosters are available. However, monovalent boosters remain available for children five to 11-years-old.• Over the last six weeks, we have seen a pretty significant decrease in the number of cases reported to public health. As we move forward acknowledging that our epi curve is no longer as informative as it was, two metrics that I rely on are percent positivity and wastewater surveillance. We have robust statewide surveillance. <p>Influenza update</p> <ul style="list-style-type: none">• Influenza activity has been lower than pre-pandemic; activity has increased over time.• Stay home orders, masking, physical distancing, and limited social gatherings halted influenza transmission early in the pandemic and we've seen very low activity over time.• We have had the lowest rates of hospitalizations since 2011, 2012.	
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	<p>Melissa Sutton: Heading into the flu season as well as possible increase in COVID cases once again, do we know how we are with supplies this season? What I've heard more commonly is that the worker shortage is the real issue – both in laboratories and in clinics.</p> <p>Vicki Nordby: Are there any discussions with CDC as far as changes to COVID guidance in healthcare settings? The CDC and Centers for Medicaid and Medicare Services (CMS) has said that they're reviewing those so I was curious to see if there is early release information.</p> <p>Becca Pierce: We have also heard that there is a review going on both at the CMS and CDC level but no details to share to date. When we know more we will certainly try and get the word out to you.</p>	
Public comment	None.	
Final roll call and adjourn Dennis Drapiza, Kaiser Permanente	None.	

Next meeting will be December 14, 2022, 1:00pm-3:00 pm via webinar only.

Submitted by Laura LaLonde
Reviewed by Roza Tammer