

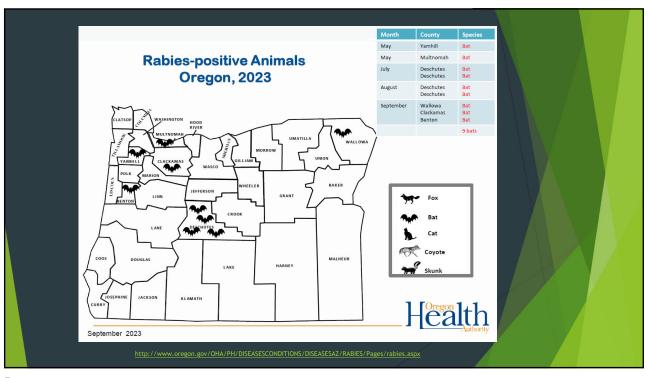
### **Rabies Overview**

- ▶ Virus
- ▶ Infected animals act oddly wild animals are unafraid of humans, bats fly in daylight or crawl and hiss, profuse salivation, CNS symptoms
- > Spread by saliva entering broken tissue
- ▶ In OR, WA, ID bats are the only reservoir cats and foxes can be infected predators.
- ▶ No terrestrial rabies in Oregon!



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# Common carriers of rabies in the US bat skunk fox & skunk mongoose https://www.cdc.gov/rabies/exposure/animals/wildlife\_reservoirs.html



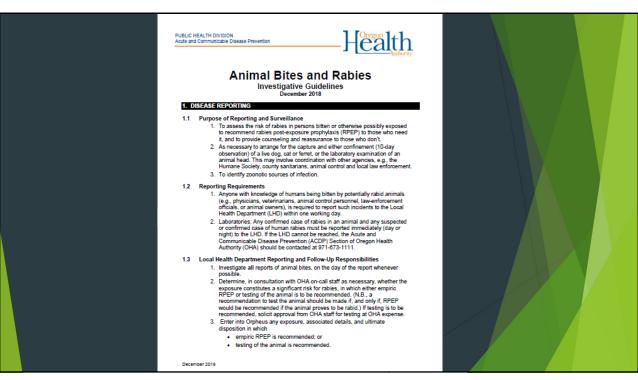
### **Rabies Overview**

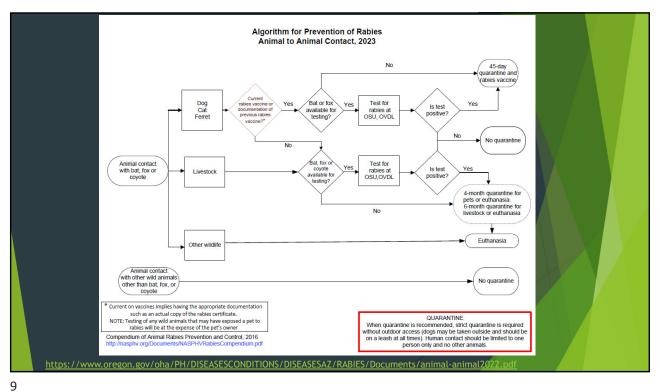
- ▶ If someone is bit by a rabid animal:
  - ▶ Wash the wound immediately with soap, water and flushing
  - ▶ If medical care is needed, provider may prescribe antibiotics and give a Tetanus booster
- ▶ Post exposure prophylaxis (PEP) should be initiated as soon as possible. This consists of:
  - ▶ Rabies immune globulin RIG
  - ▶ 4 vaccines given on days 0, 3, 7, 14
- Know where someone can get rabies PEP in your county

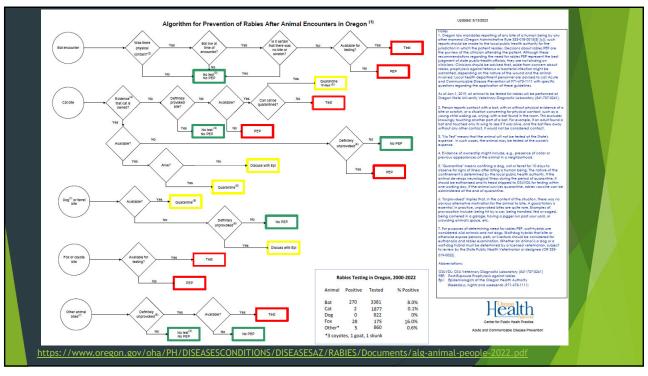
## To PEP or not to PEP? To Test or not to Test?

- Recommendation for PEP or testing of an animal head varies by....
  - ▶ Type of animal involved
    - ▶ Vaccination status of the animal
  - ▶ The circumstances of the bite
    - ▶ Provoked?
    - ► An actual bite or just contact?
    - ▶ Behavior of the animal—was it acting weird or was it just scared

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### General Rules of Thumb

- ▶ If it's a bat, fox or coyote assume it has rabies
- ▶ Cats are sometimes rabid because they hunt bats
- ▶ If a wakeful child is involved it's a provoked bite
- ▶ Rabies virus is in an infected animal's saliva in the days before they die, which is why we quarantine to see if they die
- ▶ Your state epi is here to help!

- 1. A man calls to say that he was jogging close to his house when a dog ran out of its yard and bit him on the ankle. He wants to know what to do. What do you tell him?
- a. Advise him to seek medical attention for wound care.
- b. His health care provider may wish to consider antibiotics and a tetanus booster.
- c. Because he knows where the dog lives, advise him to report the bite to animal control so they can place the dog under a 10-day post-bite quarantine.
- d. The dog is probably vaccinated if it lives in his neighborhood. This is a low risk exposure so treat the wound, tell the jogger to be more careful next time.

- 2. A family is having a BBQ. The parents look over just in time to see their two-year-old girl pick up a dead, desiccated bat on the deck and put it in her mouth. (Yes, this actually happened!) What do you tell them?
- A. Provide RIG and vaccines for the girl, as soon as possible.
- B. Bats rarely carry rabies in Oregon, no PEP.
- c. Rabies virus does not survive in saliva after an animal dies. No PEP recommended.
- D. Children will put anything in their mouths. Don't leave dead bats lying around.

### **Emerging Pathogen Threats in Oregon**

Carbapenem-Resistant Organisms and Candida auris

Slides from OHA Healthcare-Associated Infections Program





### **Multidrug-resistant organisms (MDRO)**

Bacteria or yeast that have developed resistance to multiple antibiotics

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### **Multidrug-resistant organisms (MDRO)**

• Bacteria or yeast that have developed resistance to multiple antibiotics







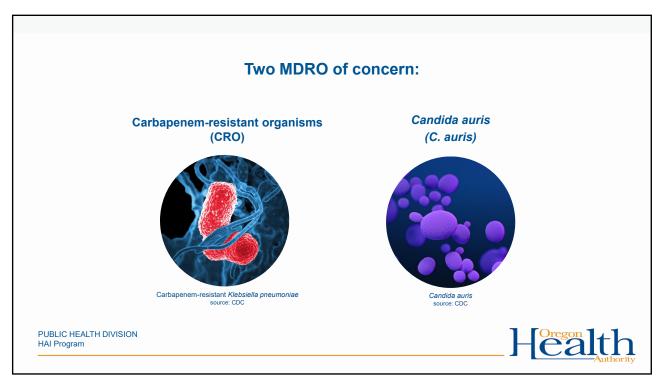


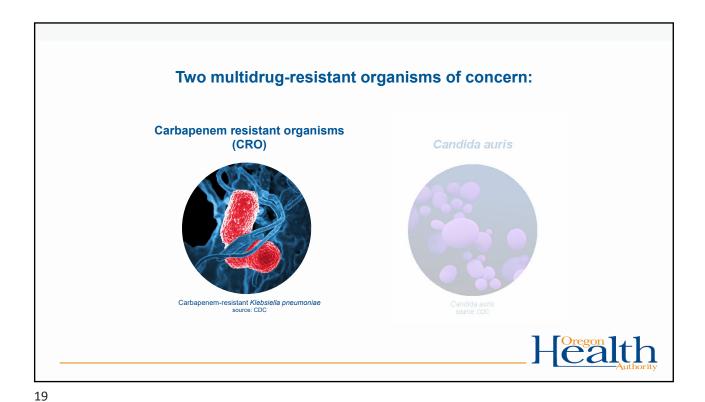
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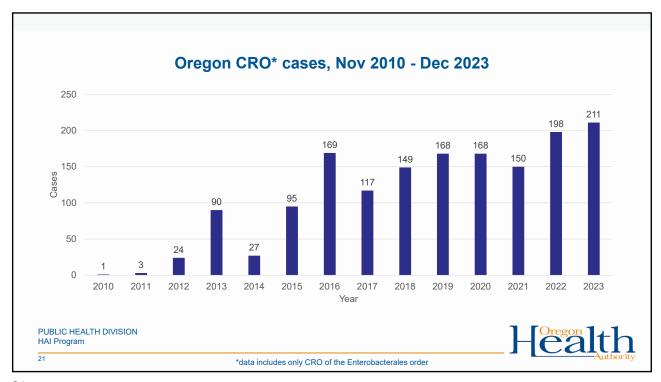


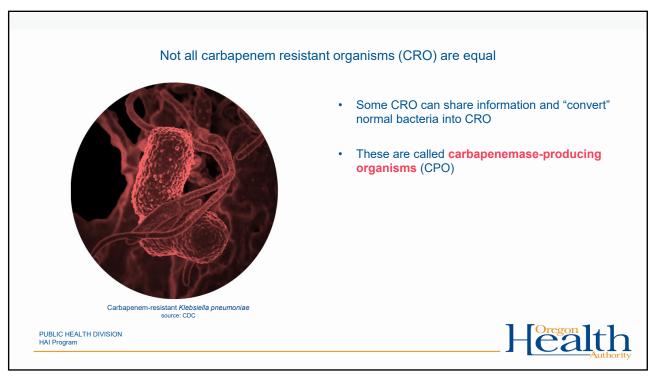


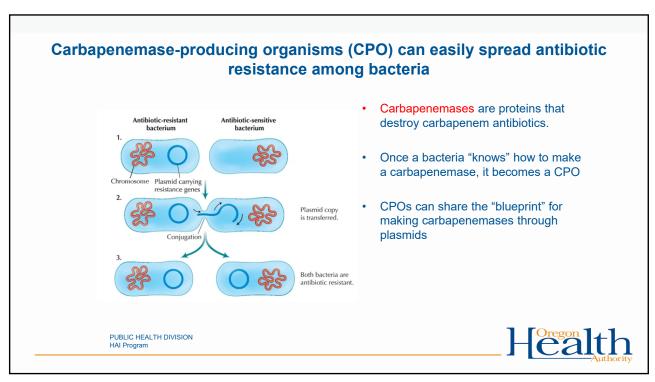
Carbapenem resistant organisms (CRO)

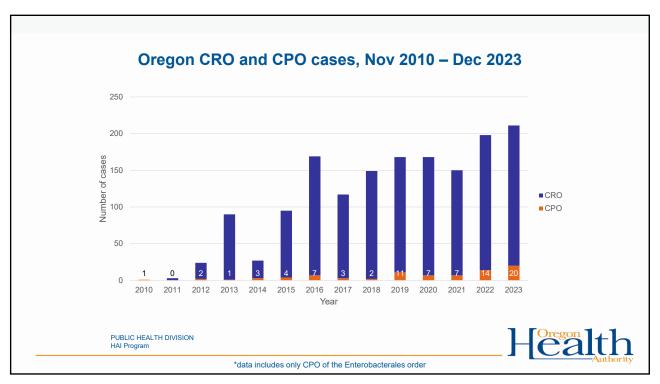
• Carbapenems
• Class of broad spectrum β-lactam antibiotics
• Meropenem, imipenem, ertapenem
• "antibiotics of last resort"

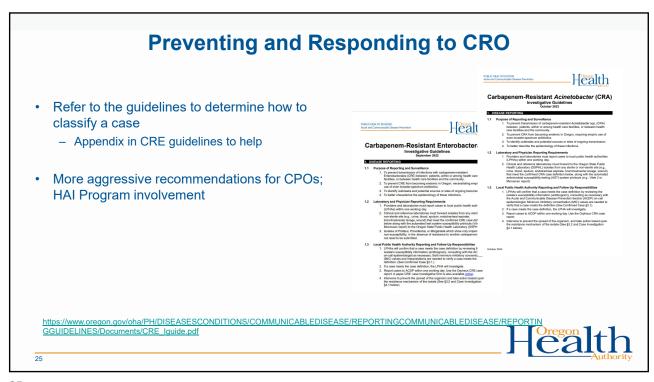
• CRO = bacteria that have developed resistance to carbapenem antibiotics

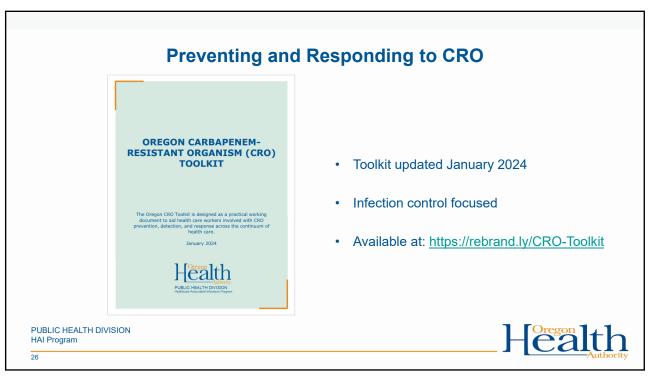




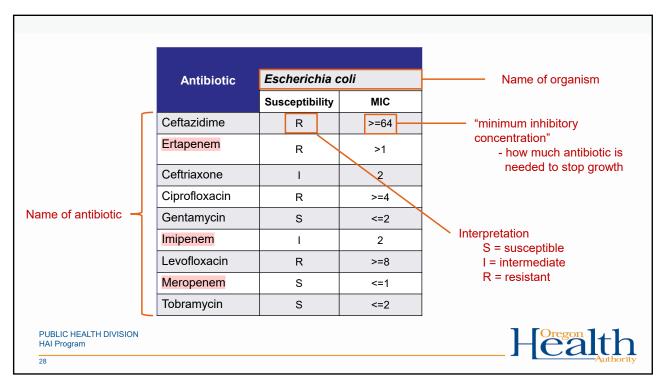






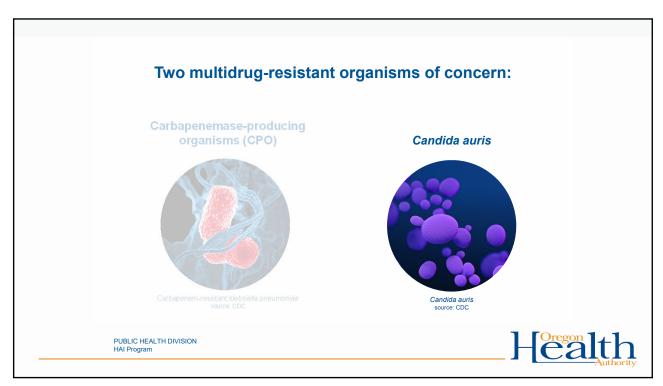


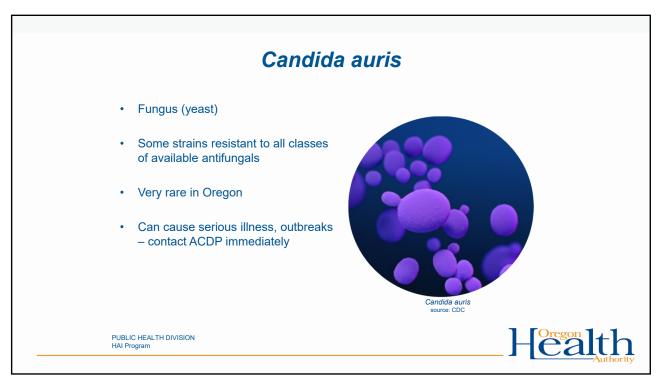


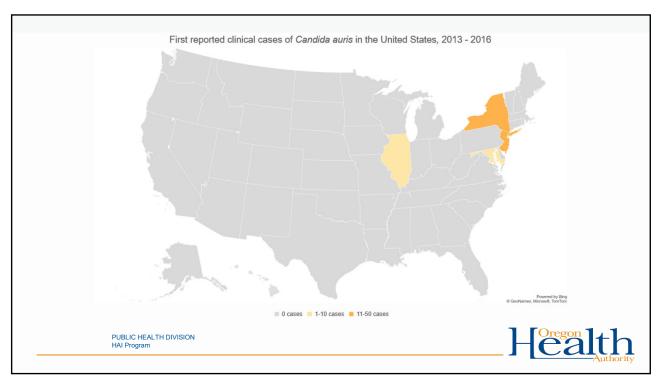


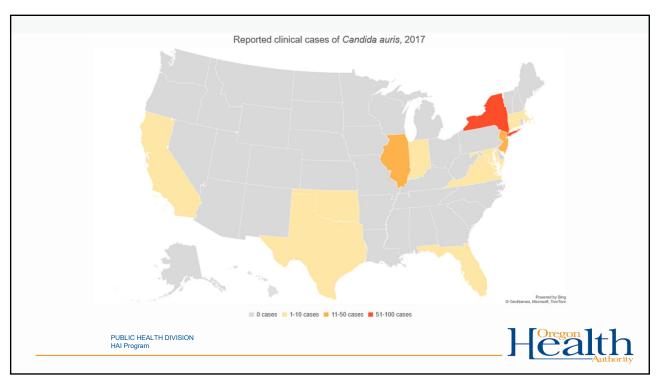
Antibiotic Amp/Sul	Organism #1	Enter	obacte	rales				
	Klebsiella pneumoniae		order resistant to					
	Susceptibility	MIC >=32	Appendix 1 – List of genera in the Enterobacterales order <sup>1</sup>					
	Resistant (R)		Acerihabitans Arsenophonus	Enterobacillus Enterobacter	Kosakonia Leclercia Lelliottia	Phytobacter Plesiomonas Pluralibacter	Scandinavium Serratia	
Ceftazidime	R	>=64	Biostraticola Brenneria Buchnera	Erwinia Escherichia Ewingella	Leminorella Limnobaculum	Pragia Proteus*	Shigella Shimwellia Siccibacter	
Ertapenem	R	>1	Budvicia Buttiauxella Cedecea	Franconibacter Gibbsiella Hafnia	Lonsdalea Mangrovibacter Mixta	Providencia*  Pseudescherichia  Pseudocitrobacter	Sodalis Tatumella Trabulsiella	
Ceftriaxone	R	>=64	Chania Chimaeribacter Citrobacter	Insectihabitans Intestinirhabdus Izhakiella	Moellerella  Morganella*  Obesumbacterium	Rahnella Raoultella Rosenbergiella	Wigglesworthi Xenorhabdus Yersinia	
Ciprofloxacin	R	>=4	Cosenzaea Cronobacter Dickeya	Jinshanibacter Kalamiella Klebsiella	Pantoea Pectobacterium Phaseolibacter	Rouxiella Saccharobacter Salmonella	Yokenella	
Gentamycin	R	>=16	Edwardsiello Kluyvera Photorhobdus Somsonia  * Elevated MICs to imipenem in Morganella spp., Proteus spp., and Providencia spp. are frequent due to mechanisms other than carbapenemases. Please do NOT send isolates of these genera to					
Imipenem	-	-		OSPHL unless there is also resistance to other carbapenems.  The most common CRE genera are highlighted				
Levofloxacin	R	>=8						
Meropenem	R	4					gon	

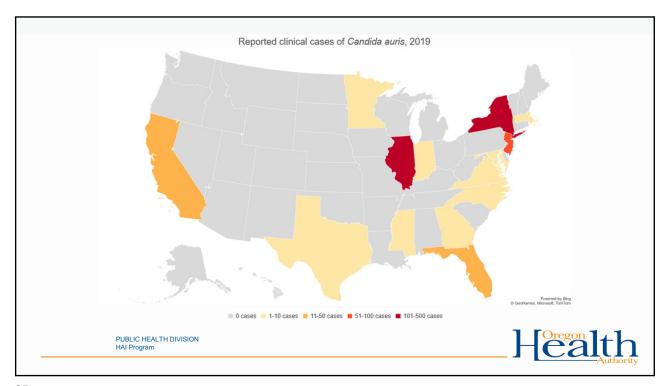
### How would you classify this case? Acinetobacter Organism #2 enocioe rocietant Antibiotic Acinetobacter baumannii Appendix 1 – List of genera in the Enterobacterales order Susceptibility MIC Acerihabitans Enterobacillus Phytobacter Kosakonia Scandinavium Amp/Sul Susceptible (S) <8/4 Plesiomonas Pluralibacter Arsenophonus Enterobacter Leclercia Serratia Biostraticola Erwinia Lelliottia Shigella Brenneria Buchnera Budvicia Ceftazidime Escherichia Ewingella Leminorella Limnobaculum Pragia Proteus\* Shimwellia Siccibacter R >16 Franconibacter Lonsdalea Providencia\* Sodalis Ceftriaxone Buttiauxella Cedecea Chania Mangrovibacter Mixta Moellerella Tatumella Trabulsiella R >32 Gibbsiella Hafnia Insectihabitans Rahnella Wigglesworthia Ciprofloxacin R >2 Chimaeribacter Morganella\* Izhakiella Jinshanibacter Yersinia Yokenella Citrobacter Gentamycin Cosenzaea S <4 Cronobacter Kalamiella Pectobacterium Saccharobacter Connoucter Audimineud Peccioocterium Socciarioocter Dickeya Klebsiella Phaseelibocter Solmonella Edwardsiella Kluyvera Photorhabdus Samsonia \* Elevated MICS to impenem in Morganella spp., Proteus spp., and Providencia spp. are frequently due to mechanisms other than carbapenemases. Please do NOT send isolates of these genera to OSPHL unless there is also resistance to other carbapenems. Imipenem 4 Levofloxacin R >4 <sup>1</sup>The most common CRE genera are highlighted Meropenem R 8 Tobramycin S <4 Health 30

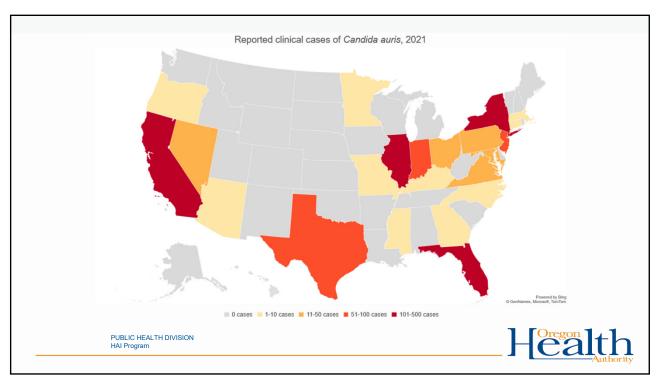


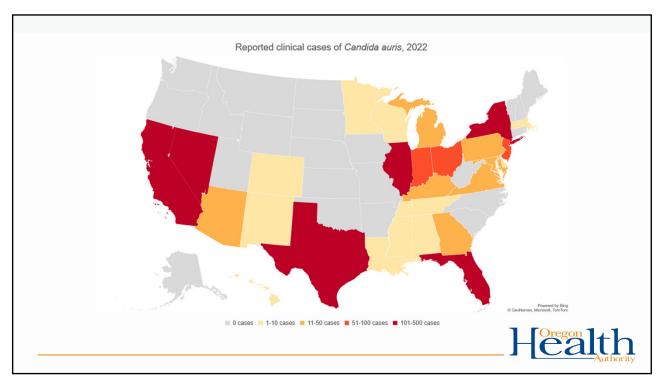












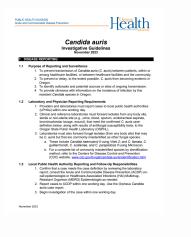




## Southern Nevada deemed a hotspot for 'superbug' fungus SUPERBUG FUNGUS WARNING CALLED CANDIDA AURIS • Large ongoing outbreak in Nevada - As of Jan 22, 2024: - 1,021 clinical cases - 1,683 colonization/screening cases

### Preventing and Responding to C. auris

- Newly created guidelines for Candida auris
- Case investigation will include HAI Program involvement



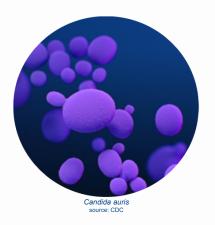
https://www.oregon.gov/oha/PH/DISEASESCONDITIONS/COMMUNICABLEDISEASE/REPORTINGCOMMUNICABLEDISEASE/REPORTINGGUIDELINES/Documents/Candida-auris.pdf

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### Candida auris

- · Rare in Oregon
- Contact ACDP right away
- May spread rapidly
  - Require coordinated approach across public health and healthcare



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### Oregon Public Health Division Resources

- Resources for Local Public Health Authorities
  - $\underline{https://www.oregon.gov/oha/PH/DiseasesConditions/CommunicableDisease/Pages/For-lhd.aspx}$
- ▶ Communicable Disease Trainings and Toolkits
  - https://www.oregon.gov/oha/PH/DISEASESCONDITIONS/COMMUNICABLEDISEASE/Pages/CD-Trainings-Toolkits.aspx
- ► Communicable Disease Surveillance Data and Reports
  https://www.oregon.gov/oha/PH/DISEASESCONDITIONS/COMMUNICABLEDISEASE/DISEASESURVEILLANCEDATA/Pages/index.asp
- ▶ Subscribe to get the Weekly Flu Bites report: www.healthoregon.org/fludata
- ▶ Subscribe to get the CD Summary Reports: <u>www.healthoregon.org/cdsummary</u>
- ▶ Crisis and Emergency Risk Communication (CERC) Toolkits: <u>www.healthoregon.org/cerc</u>
- ▶ Oregon Public Health Division Youtube Channel: https://www.youtube.com/user/healthoregon

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## Please fill out your Post-Test and Please complete the Course Evaluation

