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# Additional Surveillance for MDROs in Oregon

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Microbiology Grand Rounds, October 2017

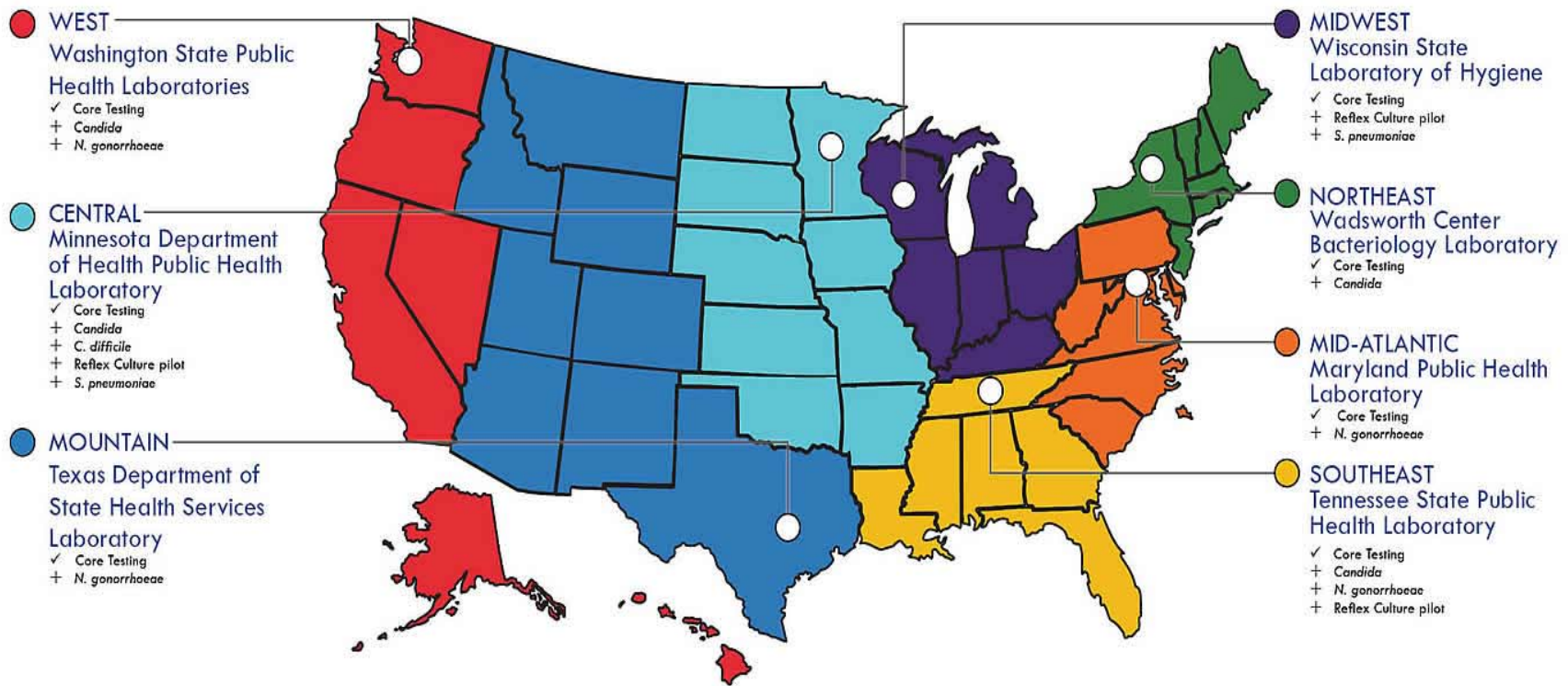
Oregon  
Health  
Authority

# Current Oregon Surveillance for MDROs

- CRE is reportable by law
  - carbapenemase testing of CRE isolates - OSPHL
  - soon to test carbapenem-resistant *Pseudomonas aeruginosa* (CRPA)
- Multi-site Gram-Negative Surveillance Initiative (MuGSI), Portland tri-county
  - CRE, CRPA, Carbapenem-resistant *Acinetobacter baumannii*
- Candidemia surveillance – Emerging Infections Program

# New Surveillance for MDROs

CDC Antibiotic Resistance Laboratory Network: 7 Regional Labs



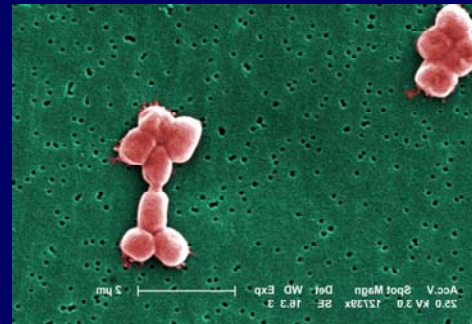
# Antimicrobial Resistance Laboratory Network (ARLN)

## Support State Public Health Labs

### CRE and CRPA

- Confirm questionable/discordant carbapenemase testing – CRE, CRPA
- Perform colonization screening cultures for CRE and CR PA

# Antimicrobial Resistance Laboratory Network (ARLN) Support



OR



## CRAB

- Confirm identification
- Confirm susceptibility testing
- Perform carbapenemase testing

# Antimicrobial Resistance Laboratory Network (ARLN) Support



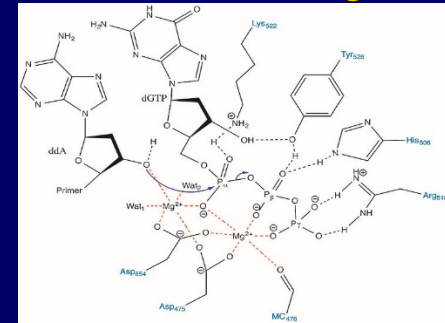
## Candida surveillance

- Requesting all isolates – **C. auris**, *C. haemulonii*, and *C. duobushaemulonii*
- Confirm identification and perform susceptibility testing
- Testing limited number of *C. glabrata*

# Antimicrobial Resistance Laboratory Network (ARLN) Support

## MCR-1, MCR-2

- Test for resistance genes on any colistin resistant *Enterobacteriaceae*
- Test *E.coli* and *Klebsiella spp.* resistant to 3<sup>rd</sup> generation cephalosporins




# Oregon Plan for Isolate Collection

- Request isolates from all clinical labs statewide
  - *C. auris*, any pan-resistant gram negatives, colistin resistant *Enterobacteriaceae*
- Expand sentinel surveillance beyond Portland tri-county
  - CR PA
  - CRAB






# Letter of Request



**PUBLIC HEALTH DIVISION**  
Center for Public Health Practice, Acute and Communicable Disease  
Kate Sloan, Governor



800 NE Oregon Street, Ste. 772  
Portland OR 97232  
971-673-1111  
971-673-1100

October 17, 2017

Re: Oregon Public Health Request for Select Resistant Isolates

Dear Oregon Laboratory Colleagues,

As part of a national effort lead by the Centers for Disease Control and Prevention (CDC), the Oregon Public Health Division requests your assistance with our efforts to increase surveillance of multi-drug resistant organisms in our state.

We are requesting voluntary submission of specific isolates not currently required by Oregon Administrative Rule (OAR). These are in addition to carbapenem-resistant Enterobacteriaceae (CRE) isolates. Some initial testing will be conducted on these isolates by the Oregon State Public Health Laboratory (OSPHL). Additional testing will be performed by the regional Antimicrobial Resistance Laboratory Network (ARLN) Lab in Shoreline, Washington. We have provided an attachment with additional information about the ARLN to this message.

**What additional isolates are being requested and from which labs?**

From all labs we request:

- Any pan-resistant Gram-negative bacilli found to be Intermediate or Resistant to the entire susceptibility panel used.
- Any suspected *Candida auris*, *C. haemulonii*, and *C. duobushaemulonii*.

Research shows that *C. auris* may be misidentified by some testing instruments. Please see the table for when to suspect *Candida auris*. For more details by method, refer to CDC's algorithm at [www.cdc.gov/fungal/diseases/candidiasis/pdf/Testing-algorithm-by-Method-temp.pdf](http://www.cdc.gov/fungal/diseases/candidiasis/pdf/Testing-algorithm-by-Method-temp.pdf)

CDC also has recommendations for when to identify *Candida* to the species level. Please review the information provided at <https://www.cdc.gov/fungal/diseases/candidiasis/recommendations.html>

Identification Method	<i>C. auris</i> can be misidentified as:
Vitek 2 YST	<i>C. haemulonii</i> or <i>C. duobushaemulonii</i>
API 20C	<i>C. sake</i> <i>Rhodotorula glutinis</i> (with no red color)
BD Phoenix YST ID	<i>C. haemulonii</i> <i>C. catenulata</i>
MicroScan	<i>C. lusitana</i> <i>Candida guilliermondii</i> (no hyphae or pseudohyphae on cornmeal agar) <i>Candida lusitana</i> (no hyphae or pseudohyphae on cornmeal agar) <i>Candida parapsilosis</i> (no hyphae or pseudohyphae on cornmeal agar)