

FACILITY NAME

Sentinel Lab Report 2018

The Antibiotic Resistance Lab Network (AR Lab Network), funded by the US Centers for Disease Control and Prevention, performs surveillance for antibiotic resistant organisms through mandated reporting and sentinel laboratories. Thank you for your participation in 2018 as one of {STATE} # sentinel laboratories. This report summarizes your laboratory's submission activity, compares your activity to other labs, and shows positive carbapenemases identified through your submissions.

In addition to submitting CRE as required by all labs, your lab agreed to submit the following isolate types under our sentinel surveillance program:

CRPA CRAB

The table below shows submissions from all Washington laboratories in 2018; your data is highlighted in yellow. Sentinel sites are shown in bold. Please reference the key to the right of the data table. Data are based on the **number of isolates with a 2018 collection date submitted by each laboratory**, individual patients may be counted more than once.

Table 1. Isolates submitted by Washington State Laboratories,

CRE	%	CRPA	%	CRAB	%	ESBL	%	Candida	%
15	5%	29	8%	0	0%	9	7%	0	0%
67	22%	150	43%	5	16%	31	24%	4	1%
2	1%	1	0%	0	0%	0	0%	0	0%
3	1%	12	3%	0	0%	0	0%	0	0%
2	1%	0	0%	2	6%	0	0%	0	0%
10	3%	0	0%	0	0%	4	3%	0	0%
1	0%	0	0%	0	0%	1	1%	0	0%
1	0%	0	0%	0	0%	1	1%	0	0%
2	1%	0	0%	0	0%	0	0%	0	0%
4	1%	0	0%	0	0%	2	2%	0	0%
2	1%	0	0%	0	0%	2	2%	0	0%
2	1%	0	0%	0	0%	1	1%	0	0%
1	0%	0	0%	2	6%	1	1%	0	0%
0	0%	17	5%	5	16%	0	0%	1	0%
1	0%	2	1%	0	0%	0	0%	0	0%
2	1%	0	0%	0	0%	0	0%	0	0%
1	0%	0	0%	0	0%	0	0%	0	0%
5	2%	2	1%	0	0%	0	0%	0	0%
34	11%	35	10%	6	19%	29	22%	1	0%
7	2%	0	0%	0	0%	1	1%	0	0%
9	3%	0	0%	0	0%	2	2%	0	0%
2	1%	0	0%	0	0%	1	1%	0	0%
1	0%	0	0%	0	0%	0	0%	0	0%
2	1%	0	0%	1	3%	0	0%	0	0%
9	3%	0	0%	0	0%	7	5%	0	0%
6	2%	1	0%	0	0%	2	2%	0	0%
12	4%	0	0%	0	0%	4	3%	5	2%
19	6%	0	0%	0	0%	5	4%	0	0%
1	0%	3	1%	0	0%	1	1%	1	0%
17	6%	49	14%	8	25%	3	2%	0	0%
1	0%	11	3%	0	0%	1	1%	171	61%
1	0%	1	0%	0	0%	1	1%	0	0%
4	1%	1	0%	2	6%	4	3%	0	0%
1	0%	0	0%	0	0%	0	0%	0	0%
5	2%	2	1%	0	0%	0	0%	0	0%
6	2%	13	4%	0	0%	0	0%	7	3%
19	6%	0	0%	1	3%	10	8%	0	0%
1	0%	12	3%	0	0%	0	0%	0	0%
7	2%	9	3%	0	0%	4	3%	24	9%
13	4%	0	0%	0	0%	4	3%	0	0%
2	1%	0	0%	0	0%	0	0%	66	24%
0	0%	2	1%	0	0%	0	0%	0	0%
300		352		32		131		280	

Key

CRE= Carbapenem-resistant Enterobacteriaceae (*Enterobacter*, *E.coli*, *Klebsiella*, *Providencia*, *Proteus*, *Citrobacter*, *Morganella* and *Serratia*)

CRPA= Carbapenem-resistant *Pseudomonas aeruginosa*

CRAB= Carbapenem-resistant *Acinetobacter baumannii*

ESBL= Extended-spectrum beta-lactamase*

Candida= non-albicans Candida species

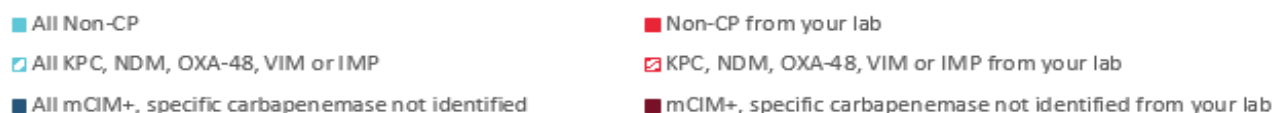
%= Percentage of total submissions from your laboratory

*Please note that all *E.coli* and *Klebsiella* are tested for ESBL production. (This testing began in February 2018, and explains why the sum of *E.coli* and *Klebsiella* your lab submitted may not match the total for ESBL). Some sentinel labs have specifically agreed to submit ESBL isolates

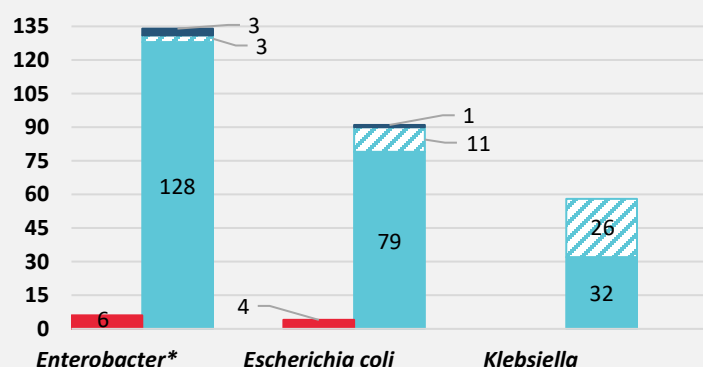
This section of the report provides a breakdown of submissions by organism and test results (i.e., carbapenemase positive isolates). All graphs show a comparison of isolates submitted by your laboratory compared to statewide submissions.

Data are split into five graphs. Graph 1 contains data on the "big three" Enterobacteriaceae species: Enterobacter, E. coli and Klebsiella; these isolates are required to be submitted in Washington. Graph 2 contains data on the less commonly tested CRE species. Please let us know if your lab would like to become a sentinel site for the less common CRE species (*Citrobacter*, *Providencia*, *Proteus*, *Morganella*, and *Serratia*). See submission criteria as some of these isolates are intrinsically resistant to imipenem. Graph 3 and 4 depict voluntary surveillance for carbapenem-resistant *Pseudomonas* and carbapenem-resistant *Acinetobacter*, respectively. Graph 5 shows carbapenemase positive isolates.

Please reference the key below while viewing Graphs 1 through 4.

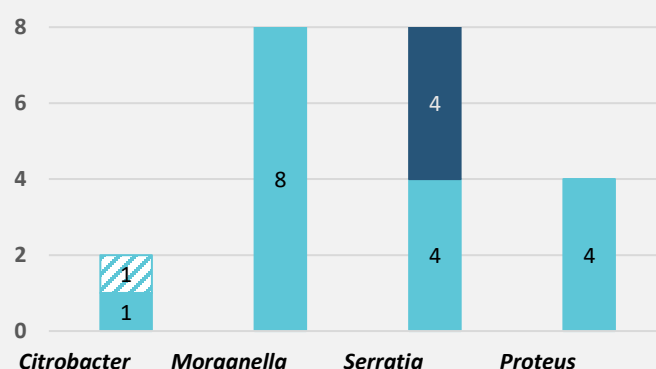


Graph 1: Carbapenem-resistant *Enterobacter*, *Escherichia coli* and *Klebsiella* isolates, 2018



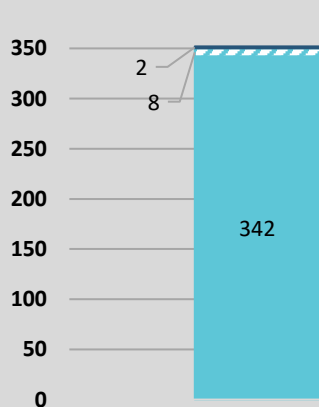
* *Enterobacter* isolates that are mCIM+, but susceptible to cefepime are not carbapenemase producers.

Graph 2: *Citrobacter*, *Morganella*, *Serratia*, *Proteus* isolates, 2018

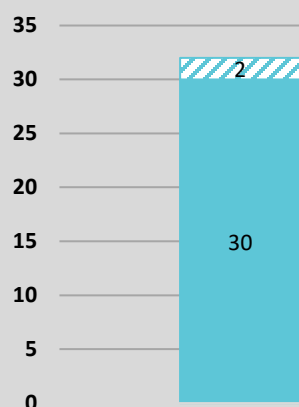


**Providencia* is not represented on this graph, none were submitted in 2018.

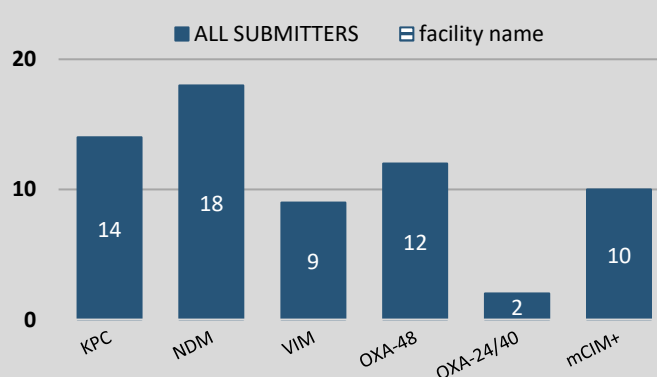
Graph 3: Carbapenem-resistant *Pseudomonas aeruginosa* isolates, 2018



Graph 4: *Acinetobacter baumannii* isolates, 2018



Graph 5: Mechanisms Detected, 2018



*IMP is not represented on this graph, none were detected

Thank you again for your dedication of time and effort to improving antibiotic resistance surveillance in {State}. Your participation is greatly appreciated.

Please contact the AR Lab Network if you would like to make changes to your submission plan, need supplies, or have any questions.

Thank you!