## Carbapenem-resistant Enterobacteriaceae Surveillance Report



January - March, 2020

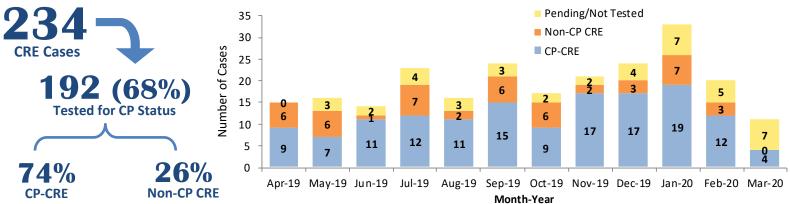
Carbapenem-resistant Enterobacteriaceae (CRE) are a family of bacteria with high levels of resistance to antibiotics. Data from reported, confirmed CRE cases, to the Philadelphia Department of Public Health, occurring in January-March 2020 (n=64) are displayed. 35 of the cases were lab-confirmed to be carbapenemase-producing CRE (CP-CRE), 10 were non-CP CRE and 19 were not tested. Available CP mechanisms are shown in the table below. Not all isolates were sent for mechanism testing. This is the first report that excludes the species in the Morganellaceae family such as Morganella morganii, Providencia spp. and Proteus Spp., which were previously classified as Enterobacteriaceae but are now considered a separate family and therefore will no longer be included in the CRE report.

Carbapenemase-Producing (CP) Status of Confirmed Cases								
CP-CRE	35 (55%)							
Non-CP CRE	10 (16%)							
CP Status Pending/ Not Tested	19 (30%)							
Total Confirmed CRE Cases	64							

	CRE Counts <sup>1</sup> , by Genus Species and Mechanism (n=64)										
Though January	Genus Species	Total CRE n (%)		Total CP-CRE	КРС	NDM	OXA-48	IMP	VIM		
had the highest	Klebsiella pneumoniae	31 (48.4)		21	19	2		•			
number of CRE	Escherichia coli	10 (15.6)		6	2	4					
cases by month for	Enterobacter cloacae	6 (9.4)		4	4						
the past year, the	Other Klebsiella Spp	4 (6.3)		1	1						
cases reported to	Other Enterobacteriaceae	4 (6.3)		0							
PDPH sharply	Enterobacter aerogenes	3 (4.7)		1	1						
declined starting	Citrobacter koseri	1 (1.6)		0							
in February due to	Klebsiella oxytoca	1 (1.6)		1	1	1					
the surge of	Raoultella Spp.	1 (1.6)		1	1						
COVID-19 in	Serratia marcescens	1 (1.6)		0					•		
Philadelphia	Other Citrobacter Spp	1 (1.6)		0							
	Unknown species	1 (1.6)		0							
•	Total	64		35	29	7	0	0	0		

<sup>1</sup>not all isolates sent for mechanism testing, some isolates have more than one mechanism

CRE Cases, by Carbapenemase-Producing (CP) Status: April 2019 – March 2020



Report CRE cases using the CRE report form available at hip.phila.gov