

CP-CRE 2017-2021

CP-CRE is Carbapenemase-Producing Carbapenem-Resistant Enterobacterales, which are CRE capable of breaking down carbapenems. CRE is a family of bacteria that is difficult to treat because of the high levels of resistance to antibiotics.

Confirmed CP-CRE cases have been increasing in Clark County since 2017 (Figure 1). From 2019 to 2021 there was a 225.0% increase of CP-CRE cases.

Of all of the CP-CRE cases in Clark County from 2017-2021, 64.5% of the cases resided in a long term care facility (LTCF) when they contracted CP-CRE (Figure 2). These cases involved 12 facilities.

The zip code that involved that most (29.0%) CP-CRE cases was 45503 (Table 1). The second highest (16.1%) CP-CRE cases by zip code involved both 45502 and 45504.

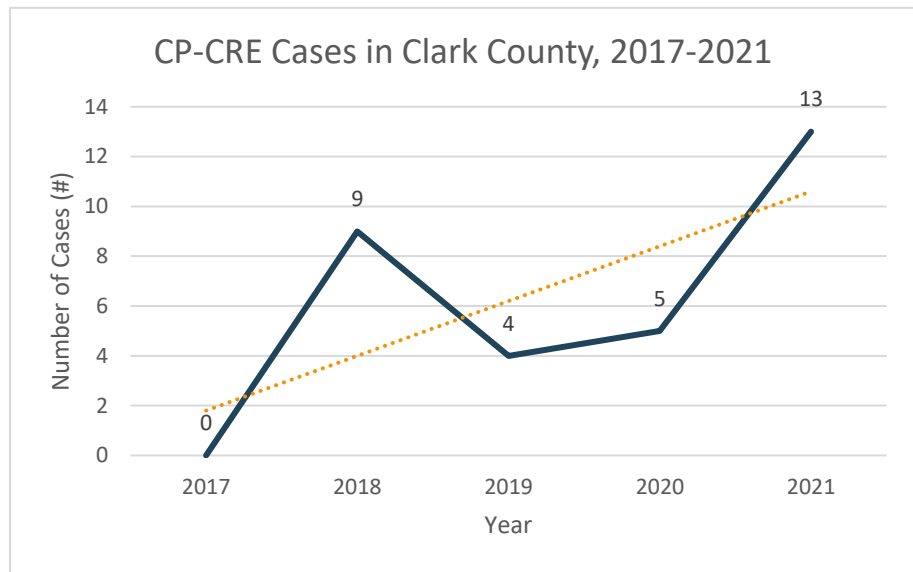


Figure 1 CP-CRE Cases in Clark County, 2017-2021.

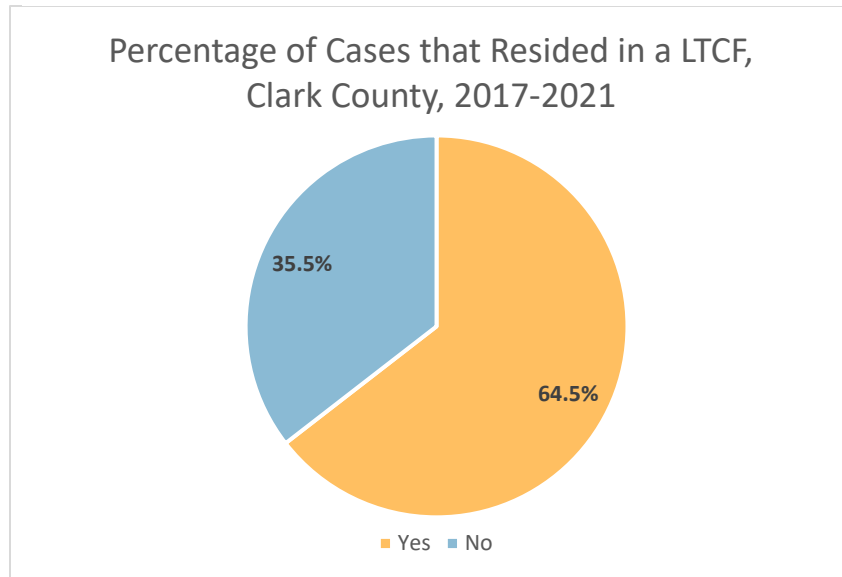
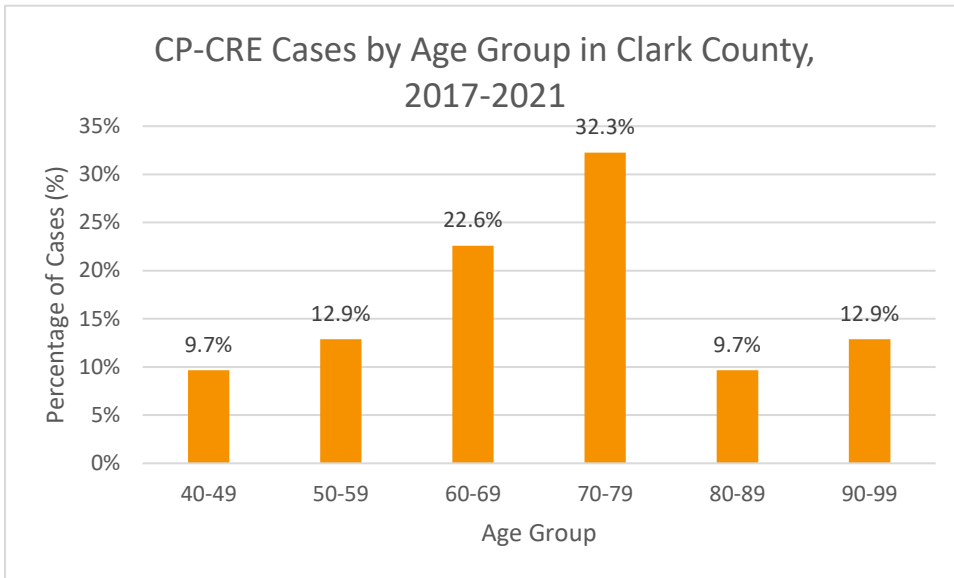


Figure 2 Percentage of Cases that Resided in a LTCF, Clark County, 2017-2021.

Table 1 Percentage of Cases in the Zip-Code that they Resided, Clark County, 2017-2021.

Zip Code	% of Cases
45323	6.5%
45324	3.2%
45341	3.2%
45344	6.5%
45502	16.1%
45503	29.0%
45504	16.1%
45505	6.5%
45506	12.9%



The age group that involved the most (32.3%) CP-CRE cases from 2017-2021 was 70-79 year old's (Figure 3).

60-69 year old's involved the second highest amount (22.6%) of CP-CRE cases in Clark County.

Figure 3 CP-CRE Cases by Age Group in Clark County, 2017-2021.

Sex

Females made up the majority (58.1%) of CP-CRE cases in Clark County from 2017-2021 (Table 2).

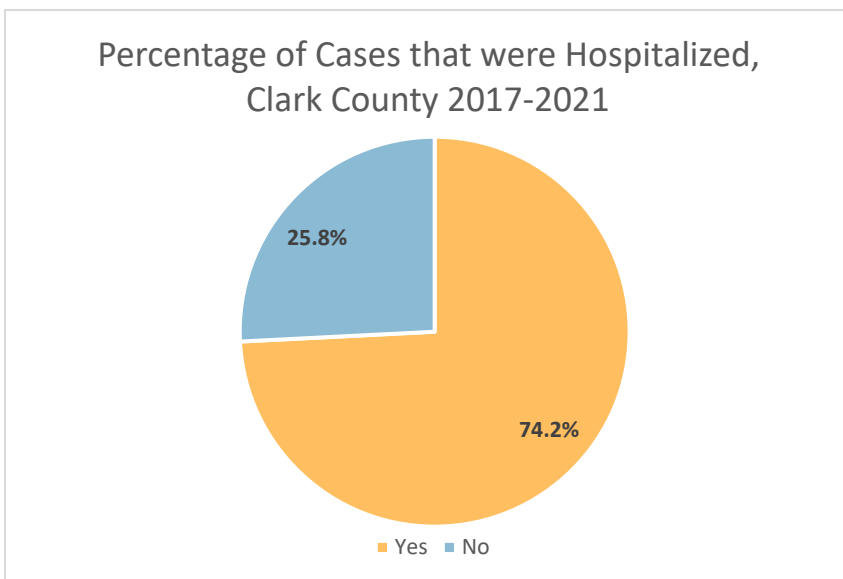
White Non-Hispanic cases consisted of 87.1% of the CP-CRE cases from 2017-2021 (Table 3).

Table 2 Percentage of CP-CRE Cases by Sex, Clark County, 2017-2021.

Sex	% of Cases
Female	58.1%
Male	41.9%

Table 3 Percentage of CP-CRE Cases by Race/Ethnicity, Clark County, 2017-2021.

Race & Ethnicity	% of Cases
Black NH	12.9%
White NH	87.1%



Of all of the CP-CRE cases in Clark County from 2017-2021, 74.2% of the cases were hospitalized after they contracted CP-CRE (Figure 4).

The average amount of time these cases were hospitalized was 17 days. The days hospitalized ranged from 2 days to 48 days.

Figure 4 Percentage of Cases that were Hospitalized, Clark County, 2017-2021.

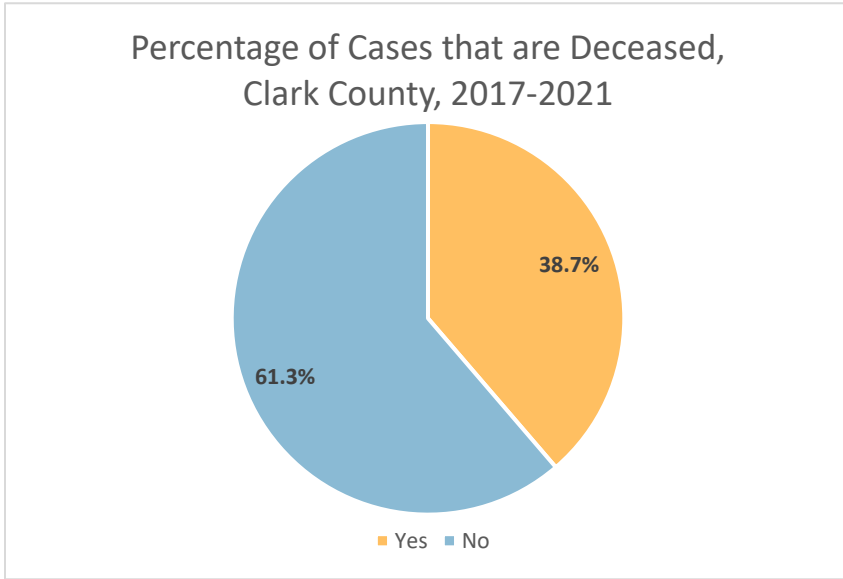


Figure 5 Percentage of Cases that are Deceased, Clark County, 2017-2021.

Of all of the CP-CRE cases in Clark County from 2017-2021, 38.7% of the cases are now deceased (Figure 5).

Of the 38.7% (12 deaths) of deceased cases, CP-CRE contributed to 75.0% (9 deaths) of the deceased cases.

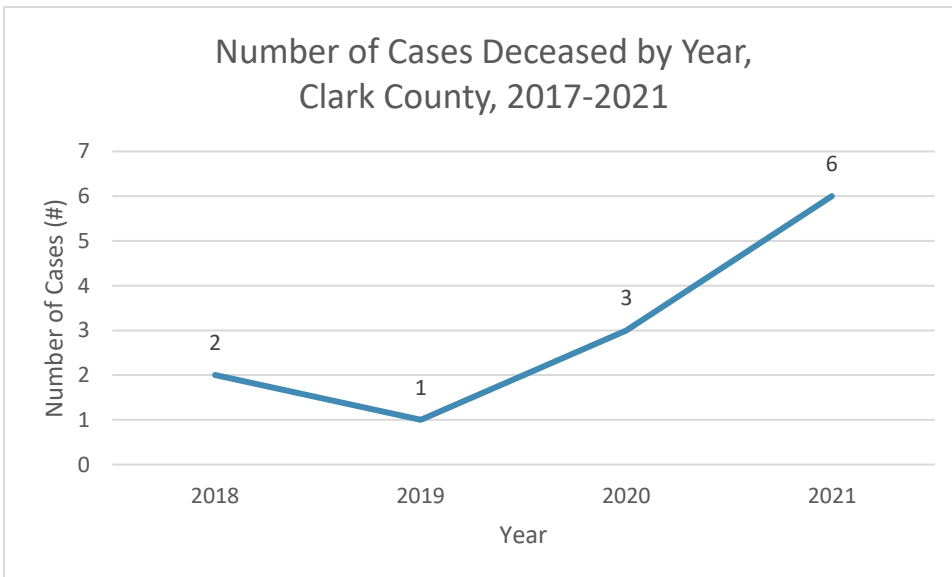


Figure 6 Number of CP-CRE Cases that are Deceased by Year, Clark County, 2017-2021.

Deaths of CP-CRE cases have been increasing in Clark County since 2018 (Figure 6). Just from 2019 to 2021 there was a 500.0% increase of CP-CRE case deaths.