



# Kentucky Department for Public Health

## KY17-089 - Acute Hepatitis A Outbreak Weekly Report

### Morbidity and Mortality Weekly Report (MMWR) Week 13

#### March 25, 2018 – March 31, 2018

**Brief Description of Outbreak:** In November 2017, the Kentucky Department for Public Health (DPH) identified an outbreak of acute hepatitis A. The increase in cases observed in Kentucky was well over the 10-year average of reported hepatitis A cases, and several cases have been infected with hepatitis A virus (HAV) strains genetically linked to outbreaks in both California and Utah. Similar to hepatitis A outbreaks in other states, the primary risk factors have been homelessness and illicit drug use. A contaminated food source has not been identified, and HAV transmission is believed to have occurred through person-to-person contact. Below is a weekly and cumulative update on the outbreak.

In accordance with 902 KAR 2:020, cases of acute hepatitis A should be reported within 24 hours.

The case definition used for outbreak-associated acute hepatitis A cases is available upon request.

**Table 1: Summary of Outbreak-Associated Acute Hepatitis A Cases**

Update for Week 13:		Update Total for Weeks 35-13:	
Number of new cases:	Confirmed - 0 Probable - 27 Suspect - 16	Total number of cases (n=272):	Confirmed - 86 Probable - 122 Suspected - 64
Number of counties with new cases:	9	Total number of counties with cases:	21
Number of cases with specimens submitted for genotyping where results are available:	7	Number of cases with specimens submitted for genotyping where results are available:	93
Number of cases with genotype IB among those with genotype testing:	5	Total number of cases with genotype IB among those with genotype testing:	80
Number of Hospitalizations:	31	Total Number of Hospitalizations:	190
Number of deaths Reported:	0	Total number of deaths reported:	1

**Table 2: Cumulative Distribution of Cases by County**

<b>KY17-089 Distribution Of Outbreak-Associated Acute Hepatitis A Cases, by County, August 1, 2017 – March 31, 2018*^#</b>				
<b>County</b>	<b>Total number of cases reported</b>	<b>Number of confirmed cases</b>	<b>Number of probable cases</b>	<b>Number of suspected cases</b>
Anderson	1	0	0	1
Boyd	23	8	8	7
Bullitt	13	6	5	2
Carter	5	0	2	3
Fayette	2	0	0	2
Greenup	10	1	2	7
Hardin	6	0	3	3
Hopkins	1	0	0	1
Jefferson	194	69	95	30
Kenton	1	0	1	0
Leslie	1	0	0	1
Marion	1	1	0	0
McCracken	2	0	0	2
Meade	2	0	0	2
Montgomery	1	0	1	0
Nelson^	1	0	1	0
Oldham^	1	0	0	1
Russell	1	0	0	1
Spencer	2	1	1	0
Taylor	1	0	0	1
Warren	3	0	3	0
<b>Total Number of Cases:</b>	<b>272</b>	<b>86</b>	<b>122</b>	<b>64</b>

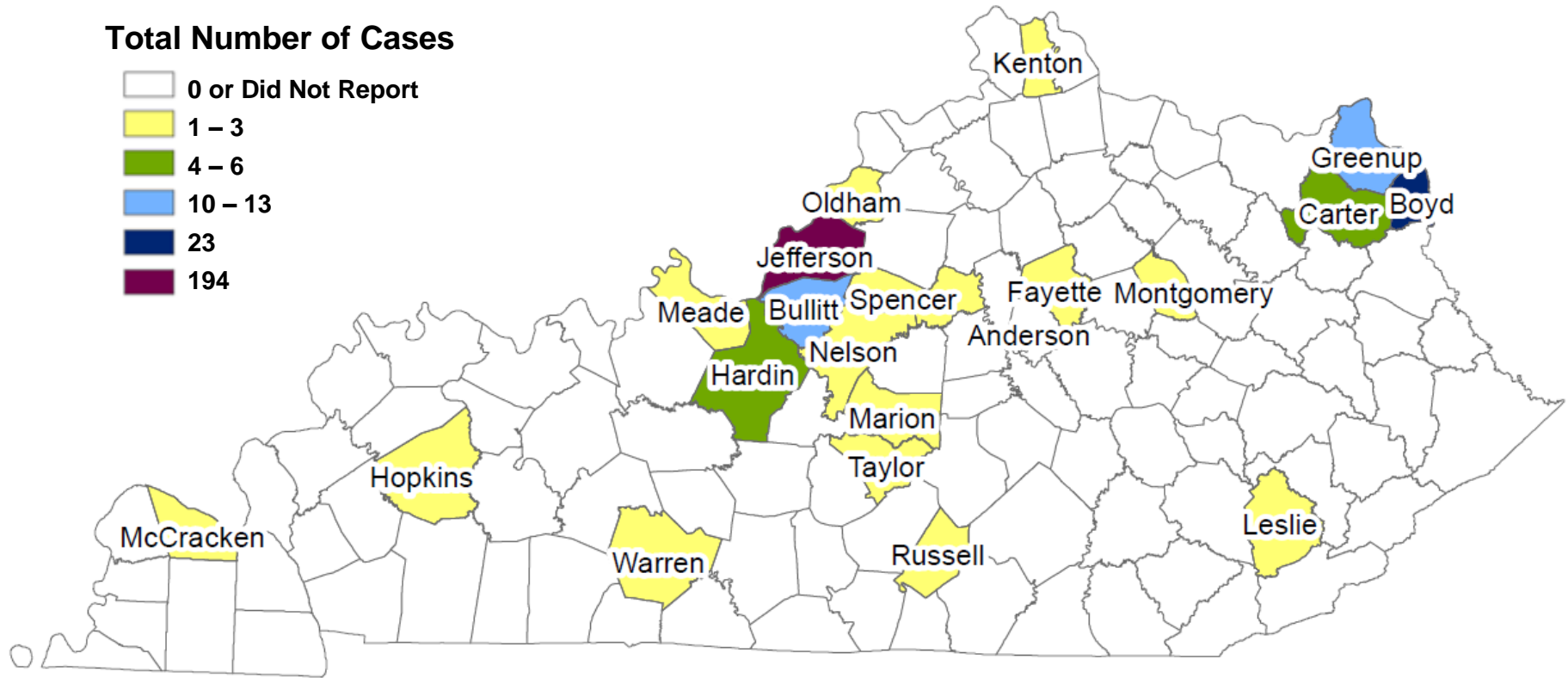
\* Cases are reported based on date of specimen collection.

^ Denotes a county where cases have not been previously identified.

# As genotyping results become available, cases may be excluded if they do not meet the outbreak case definition. Cases in the following counties have been excluded from the outbreak case count this week: Marshall.

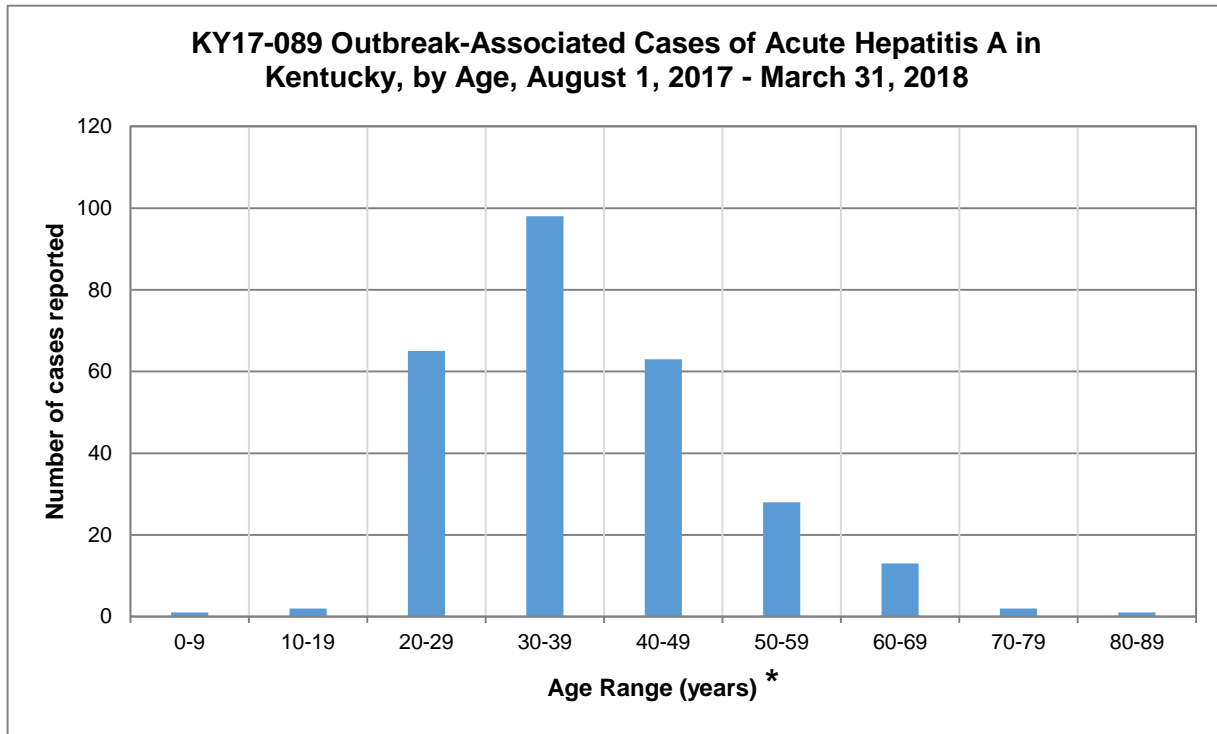
Figure 1: Geographic Distribution of Outbreak-Associated Cases by County

### KY17-089 Distribution of Outbreak-Associated Acute Hepatitis A Cases by County, August 1, 2017 - March 31, 2018



n = 21 counties with outbreak-associated cases

**Figure 2: Outbreak-Associated Cases by Age**

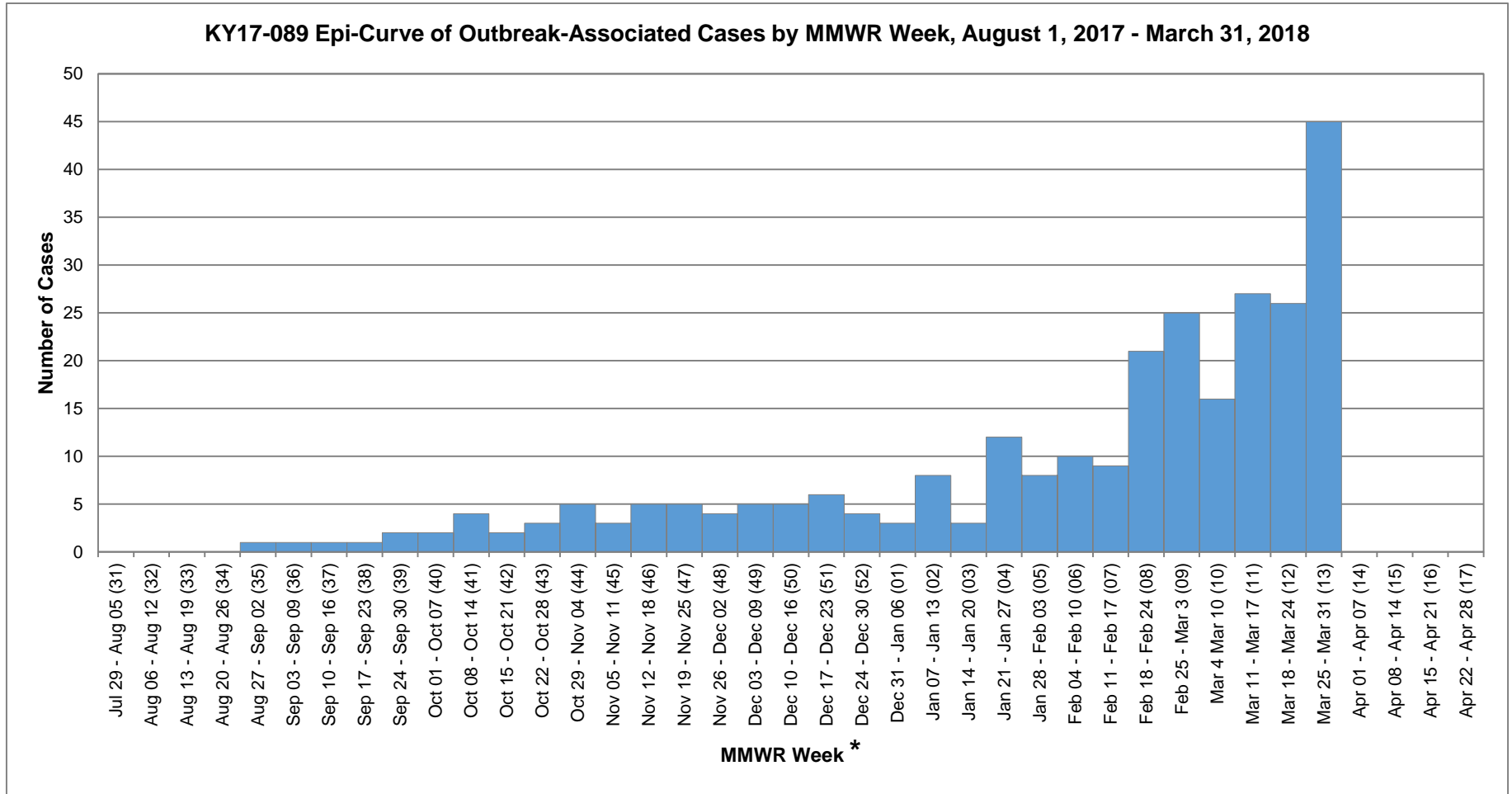


\* The mean age of cases is 38.2 years, and the median age is 36.0 years.

**Table 3: Frequent Risk Factors of Outbreak-associated Cases**

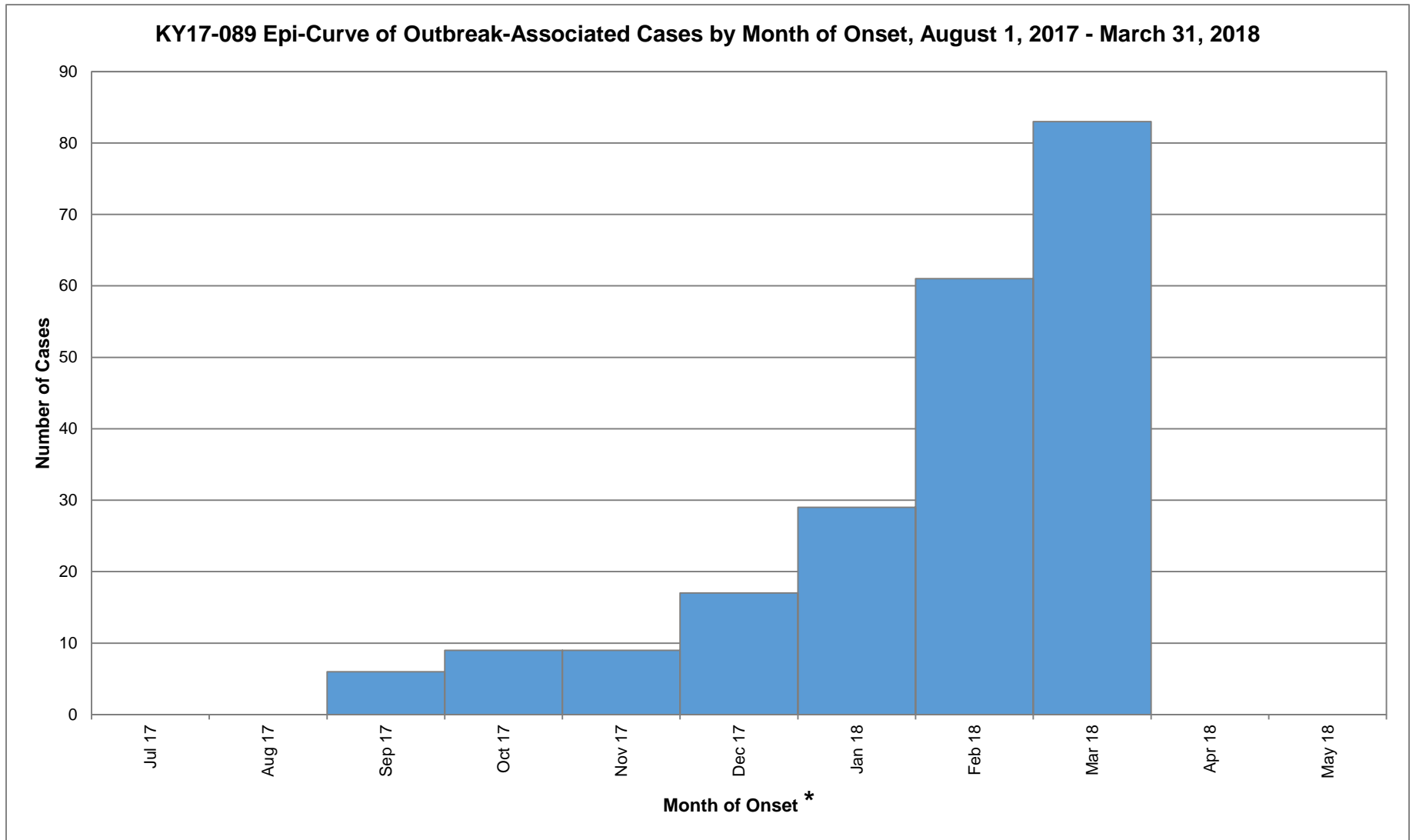
<b>KY17-089 Risk Factors of Outbreak-Associated Acute Hepatitis A Cases, August 1, 2017 – March 31, 2018</b>	
<b>Risk Factor</b>	<b>Number of Cases Reporting Risk Factor</b>
Homelessness only	7
Illicit drug use only	103
Homelessness + illicit drug use	44
MSM only	2
No Risk Factors	36

**Figure 3: Epidemic-curve (Epi-Curve) of Outbreak-Associated Cases**



\* MMWR weeks are based on date of specimen collection.

Figure 4: Epidemic-curve (Epi-Curve) of Outbreak-Associated Cases by Month of Onset



\* Date of onset has been reported for 78.7% (or 214/272) of cases.