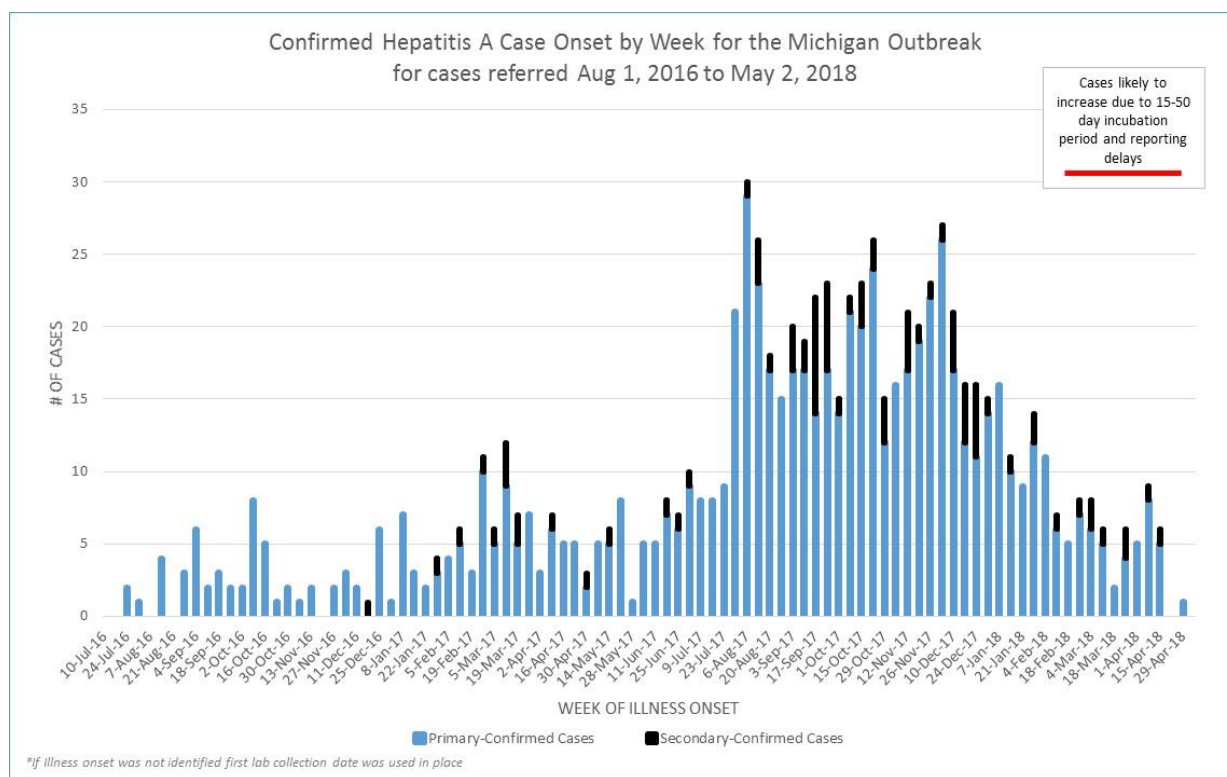


Michigan Hepatitis A 2016-2018 Outbreak Summary

Epi Summary for Hepatitis A Cases in Michigan (City of Detroit, Calhoun, Eaton, Genesee, Gratiot, Ingham, Macomb, Monroe, Oakland, St. Clair, Shiawassee, Washtenaw & Wayne)*† for Confirmed Cases Referred August 1, 2016 – May 2, 2018‡								
	2 nd Half CY2016	1 st Half CY2017	2 nd Half CY2017	Jan-18	Feb-18	Mar-18	Apr-18	Total
Total # of Cases (by Onset)	58	138	494	58	34	25	21	828
# Primary Confirmed Cases w/ Outbreak Strains	21	73	314	38	23	14	5	488
# Primary Confirmed Cases w/out sequencing	36	51	124	18	8	6	14	257
# Secondary Confirmed Cases	1	14	56	2	3	5	2	83
Female, n (%)	20 (34.5)	49 (35.5)	171 (34.6)	21 (36.2)	13 (38.2)	8 (32.0)	9 (42.9)	291 (35.1)
Hospitalized, n (%)	49 (84.5)	117 (84.8)	391 (79.1)	48 (82.8)	21 (61.8)	22 (88.0)	17 (81.0)	665 (80.3)
Min Age (years)	24	21	<1	19	19	2	15	<1
Max Age (years)	83	86	90	87	79	74	85	90
Median Age (years)	44.5	42.5	40	39	38	33	37	40
Deaths, n (%)	4 (6.9)	9 (6.5)	11 (2.2)	2 (3.4)	0 (0.0)	0 (0.0)	0 (0.0)	26 (3.1)
Data below excludes secondary cases								
No Substance Abuse + No Homeless/Transient Living, n (%)	32 (56.1)	38 (30.6)	184 (42.0)	19 (33.9)	10 (32.3)	7 (35.0)	8 (42.1)	298 (40.0)
Documented Substance Abuse, n (%)	19 (33.3)	77 (62.1)	210 (47.9)	33 (58.9)	17 (54.8)	11 (55.0)	7 (36.8)	374 (50.2)
Homeless/Transient Living, n (%)	10 (17.5)	25 (20.2)	47 (10.7)	5 (8.9)	5 (16.1)	5 (25.0)	3 (15.8)	100 (13.4)
History of Hepatitis B, n (%)	3 (5.3)	4 (3.2)	9 (2.1)	1 (1.8)	2 (6.5)	1 (5.0)	0 (0.0)	20 (2.7)
History of Hepatitis C, n (%)	10 (17.5)	39 (31.5)	125 (28.5)	9 (16.1)	7 (22.6)	3 (15.0)	4 (21.1)	197 (26.4)
Men Who Have Sex with Men (MSM), n (%) -Data includes only male cases	1 (2.7)	3 (3.7)	57 (18.9)	8 (21.6)	1 (5.6)	2 (13.3)	1 (9.1)	73 (14.6)
Correctional Facility Inmates, n (%)	1 (1.8)	8 (6.5)	40 (9.1)	2 (3.6)	3 (9.7)	1 (5.0)	2 (10.5)	57 (7.7)
Healthcare Worker, n (%)	1 (1.8)	1 (0.8)	15 (3.4)	3 (5.4)	0 (0.0)	0 (0.0)	2 (10.5)	22 (3.0)
Food Worker, n (%)	2 (3.5)	4 (3.2)	22 (5.0)	3 (5.4)	1 (3.2)	2 (10.0)	1 (5.3)	35 (4.7)
Cases Lost to Follow-up, n (%)	14 (24.6)	39 (31.5)	84 (19.2)	8 (14.3)	1 (3.2)	0 (0.0)	0 (0.0)	146 (19.6)
*Also includes individual cases from Allegan, Bay, Clare, Hillsdale, Huron, Ionia, Kent, Leelanau, Lenawee, Newaygo, Schoolcraft & Van Buren Counties and a MDOC Facility (Jackson County) that were found to have the outbreak strain when sequenced.								
† Includes cases from counties that have met the criteria to be removed as an outbreak jurisdiction. That includes the counties of Clinton (3 cases), Grand Traverse (4 cases), Isabella (8 cases), Lapeer (6 cases), Livingston (6 cases), Mecosta (2 cases), Saginaw (3 cases) and Sanilac (6 cases).								
‡ Analysis excludes cases that have been sequenced and found to be PCR Negative, have a different strain from the outbreak strains, or have international travel in the 2-6 weeks prior to illness onset.								
§ Source of data: MDSS								



Report is a preliminary ad hoc analysis. Information to be considered DRAFT.

Michigan Hepatitis A 2016-2018 Outbreak Summary

Confirmed Hepatitis A Cases Meeting the Michigan Hep A Outbreak Case Definition		
County (or City)	Total # of Cases as of Apr 25, 2018	Total # of Cases as of May 2, 2018
City of Detroit	169	170
Allegan	1	1
Bay	0	1
Calhoun	7	7
Clare	1	1
Clinton	3	3
Eaton	6	5
Genesee	16	16
Grand Traverse	4	4
Gratiot	3	3
Hillsdale	1	1
Huron	1	1
Ingham	26	26
Ionia	1	1
Isabella	8	8
Kent	1	1
Lapeer	6	6
Leelanau	1	1
Lenawee	1	1
Livingston	6	6
Macomb	220	222
Mecosta	2	2
Monroe	17	18
Newaygo	1	1
Oakland	111	112
Saginaw	3	3
Sanilac	6	6
Schoolcraft	1	1
Shiawassee	7	7
St. Clair	31	31
Van Buren	1	1
Washtenaw	18	18
Wayne	140	142
Other*	1	1
Total	821	828
*Jackson MDOC		