

Michigan Hepatitis A 2016-2018 Outbreak Summary

Epi Summary for Hepatitis A Cases in Michigan (City of Detroit, Calhoun, Clinton, Eaton, Genesee, Grand Traverse, Gratiot, Ingham, Isabella, Lapeer, Livingston, Macomb, Mecosta, Monroe, Oakland, St. Clair, Saginaw, Sanilac, Shiawassee, Washtenaw & Wayne)* for Confirmed Cases Referred August 1, 2016-March 14, 2018†

	2 nd Half CY2016	Q1 CY2017	Q2 CY2017	Q3 CY2017	Q4 CY2017	Jan-18	Feb-18	Mar-18	Total
Total # of Cases (by Onset)	58	72	66	232	261	57	32	5	783
# Primary Confirmed Cases w/ Outbreak Strains	21	33	40	154	159	38	16	0	461
# Primary Confirmed Cases w/out sequencing	36	30	21	53	72	17	14	4	247
# Secondary Confirmed Cases	1	9	5	25	30	2	2	1	75
Female, n (%)	20 (34.5)	25 (34.7)	24 (36.4)	92 (39.7)	78 (29.9)	21 (36.8)	12 (37.5)	2 (40.0)	274 (35.0)
Hospitalized, n (%)	49 (84.5)	60 (83.3)	57 (86.4)	189 (81.5)	202 (77.4)	48 (84.2)	22 (68.8)	5 (100)	632 (80.7)
Min Age (years)	24	21	22	<1	1	19	22	26	<1
Max Age (years)	83	86	86	87	90	87	79	73	90
Median Age (years)	44.5	44	39	41	40	39	38.5	46	41
Deaths, n (%)	4 (6.9)	5 (6.9)	4 (6.1)	7 (3.0)	4 (1.5)	1 (1.8)	0 (0.0)	0 (0.0)	25 (3.2)

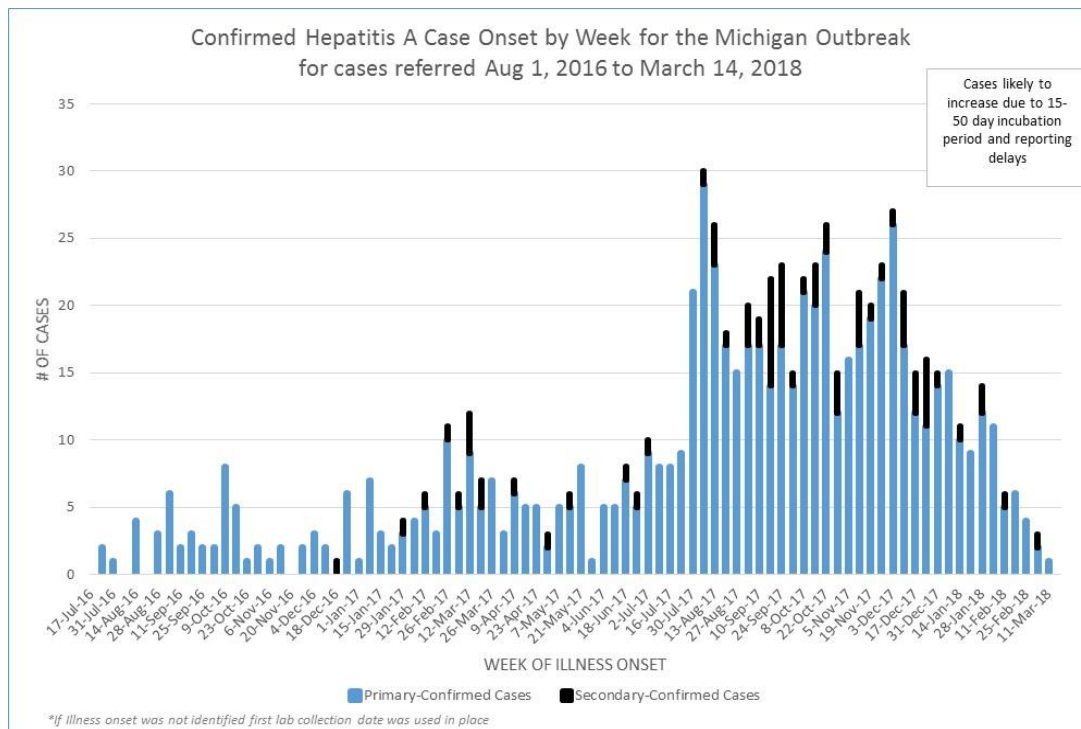
Data below excludes secondary cases

No Substance Abuse + No Homeless/Transient Living, n (%)	32 (56.1)	20 (31.7)	18 (29.5)	79 (38.2)	105 (45.5)	19 (34.5)	11 (36.7)	3 (75.0)	287 (40.5)
Documented Substance Abuse, n (%)	19 (33.3)	39 (61.9)	38 (62.3)	107 (51.7)	103 (44.6)	32 (58.2)	17 (56.7)	1 (25.0)	356 (50.3)
Homeless/Transient Living, n (%)	10 (17.5)	12 (19.0)	13 (21.3)	20 (9.7)	27 (11.7)	5 (9.1)	5 (16.7)	1 (25.0)	93 (13.1)
History of Hepatitis B, n (%)	3 (5.3)	3 (4.8)	1 (1.6)	6 (2.9)	3 (1.3)	1 (1.8)	2 (6.7)	0 (0.0)	19 (2.7)
History of Hepatitis C, n (%)	10 (17.5)	16 (25.4)	23 (37.7)	73 (35.3)	52 (22.5)	9 (16.4)	7 (23.3)	1 (25.0)	191 (27.0)
Men Who Have Sex with Men (MSM), n (%) -Data includes only male cases	1 (2.7)	1 (2.4)	2 (5.0)	10 (7.7)	47 (27.5)	7 (19.4)	1 (5.6)	0 (0.0)	69 (14.5)
Correctional Facility Inmates, n (%)	1 (1.8)	3 (4.8)	5 (8.2)	22 (10.6)	18 (7.8)	2 (3.6)	2 (6.7)	0 (0.0)	53 (7.5)
Healthcare Worker, n (%)	1 (1.8)	0 (0.0)	1 (1.6)	6 (2.9)	9 (3.9)	3 (5.5)	0 (0.0)	0 (0.0)	20 (2.8)
Food Worker, n (%)	2 (3.5)	2 (3.2)	2 (3.3)	8 (3.9)	14 (6.1)	3 (5.5)	1 (3.3)	0 (0.0)	32 (4.5)
Cases Lost to Follow-up, n (%)	14 (24.6)	19 (30.2)	20 (32.8)	55 (26.6)	27 (11.7)	6 (10.9)	0 (0.0)	0 (0.0)	141 (19.9)

*Also includes individual cases from Allegan, 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.

†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.

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Confirmed Hepatitis A Cases Meeting the Michigan Hep A Outbreak Case Definition		
County (or City)	Total # of Cases as of Mar 7, 2018	Total # of Cases as of Mar 14, 2018
City of Detroit	164	166
Allegan	1	1
Calhoun	7	7
Clare	1	1
Clinton	3	3
Eaton	5	5
Genesee	12	12
Grand Traverse	4	4
Gratiot	2	3
Hillsdale	1	1
Huron	1	1
Ingham	17	18
Ionia	1	1
Isabella	8	8
Kent	1	1
Lapeer	6	6
Leelanau	1	1
Lenawee	1	1
Livingston	6	6
Macomb	213	213
Mecosta	2	2
Monroe	15	15
Newaygo	1	1
Oakland	106	107
Saginaw	3	3
Sanilac	6	6
Schoolcraft	1	1
Shiawassee	6	7
St. Clair	30	30
Van Buren	1	1
Washtenaw	17	16
Wayne	133	134
Other*	1	1
Total	777	783
*Jackson MDOC		