
Sent: Thursday, February 25, 2021 4:23 PM
To: BOH Members and Alternates

Cc: Kevin Hughes; Jennifer Morse
Subject: FW: Review of Communicable Diseases from 2019 to 2020
Attachments: cd report 2019 2020.xlsx

Dr. Morse's Board report will be about the attached analysis of reported communicable diseases starting in 2019 through 2020. She said she did the year-to-year comparison "to see if there was a big drop from one year to the next (likely due to COVID)." In her email she explained, "I only listed the counts for the most common diseases we get and added up totals (then took out flu and flu like illness since that is really variable). Then on the second page I graphed the last 4 years for the major categories for the state to see trends."

Here is the overall summary numbers she included with her message:

TOTAL for all 19 counties not including flu	20904	10008	-52.1%
*Note: there are over 70 reportable diseases			

MICHIGAN TOTALS NOT including flu		% change
2019	2020	
236088	158807	-32.70%

She will review and discuss the information at the Board of Health meeting tomorrow, Friday, 2/26/21.

County	Chickenpox (Varicella)		%change chicken pox 2019-2020	Chlamydia (Genital)		% change chlamydia 2019-2020	Gonorrhea		% change gohorrhoea 2019-2020	Hepatitis A		% change hepatitis A 2019-2020	Hepatitis B, Acute		% change hepatitis B, acute 2019-2020	Hepatitis B, Chronic	
	2019	2020		2019	2020		2019	2020		2019	2020		2019	2020		2019	2020
	Arenac	0	0	0.0%	28	35	25.0%	4	10	150.0%	0	0	0.0%	0	1	100.0%	4
Clare	0	0	0.0%	74	60	-18.9%	11	21	90.9%	0	0	0.0%	0	0	0.0%	0	1
Gladwin	0	0	0.0%	63	37	-41.3%	7	8	14.3%	0	0	0.0%	0	0	0.0%	0	0
Isabella	5	2	-60.0%	306	290	-5.2%	54	73	35.2%	1	0	-100.0%	0	0	0.0%	3	0
Osceola	0	0	0.0%	73	8	-89.0%	5	0	-100.0%	0	0	0.0%	0	0	0.0%	0	0
Roscommon	0	0	0.0%	46	45	-2.2%	13	8	-38.5%	0	0	0.0%	0	0	0.0%	0	0
Crawford	0	1	0.0%	38	26	-31.6%	3	9	200.0%	1	0	-100.0%	1	0	-100.0%	0	2
Kalkaska	2	0	-100.0%	26	35	34.6%	4	4	0.0%	3	0	-100.0%	1	0	-100.0%	0	0
Lake	0	0	0.0%	31	20	-35.5%	5	6	20.0%	0	1	0.0%	0	0	0.0%	0	0
Manistee	1	0	-100.0%	28	31	10.7%	5	5	0.0%	2	0	-100.0%	0	0	0.0%	0	0
Mason	0	0	0.0%	71	55	-22.5%	13	8	-38.5%	0	0	0.0%	0	0	0.0%	0	0
Mecosta	6	0	-100.0%	176	141	-19.9%	28	39	39.3%	0	0	0.0%	0	0	0.0%	0	0
Missaukee	0	0	0.0%	44	33	-25.0%	0	14	1400.0%	0	0	0.0%	0	0	0.0%	0	0
Newaygo	1	0	-100.0%	159	96	-39.6%	16	30	87.5%	0	1	100.0%	0	0	0.0%	0	1
Oceana	2	0	-100.0%	82	60	-26.8%	4	15	275.0%	0	0	0.0%	0	0	0.0%	0	0
Wexford	0	1	0.0%	102	79	-22.5%	11	23	109.1%	1	0	-100.0%	0	0	0.0%	0	2
Clinton	2	0	-100.0%	252	216	-14.3%	47	61	29.8%	0	1	100.0%	2	8	300.0%	8	5
Gratiot	1	0	-100.0%	130	109	-16.2%	20	39	95.0%	0	0	0.0%	0	7	700.0%	1	2
Montcalm	3	2	-33.3%	201	185	-8.0%	35	65	85.7%	0	1	100.0%	0	4	400.0%	4	2
Totals	23	6	-73.9%	1930	1561	-19.1%	285	438	53.7%	8	4	-50.0%	4	20	400.0%	20	17

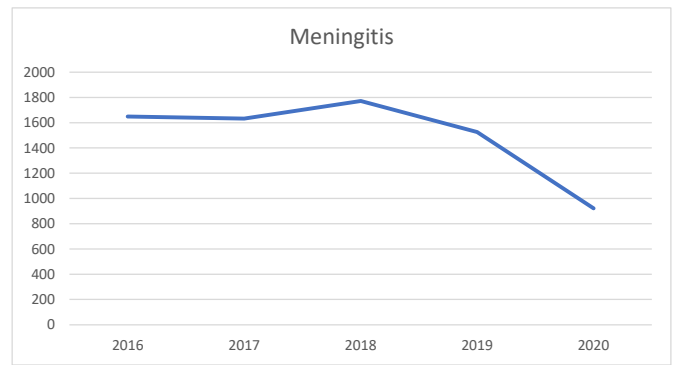
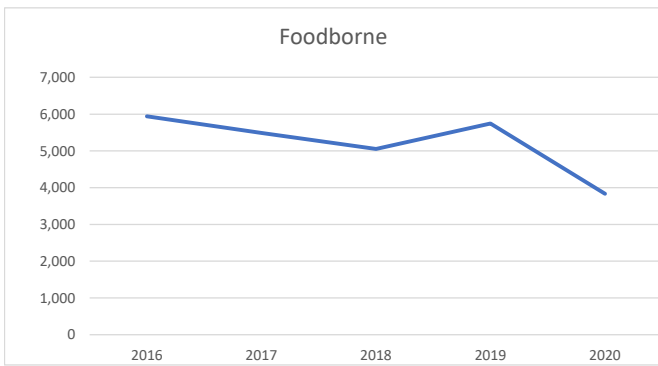
% change hepatitis B, chronic 2019-2020	Hepatitis C, Acute		% change hepatitis C, acute 2019-2020	Hepatitis C, Chronic		% change hepatitis C, chronic 2019-2020	Latent Tuberculosis Infection		% change latent TB 2019-2020	Norovirus		% change norovirus 2019-2020	Pertussis		% change pertussis 2019-2020	Rabies: Potential Exposure & PEP	
	2019	2020		2019	2020		2019	2020		2019	2020		2019	2020		2019	2020
-50.0%	0	0	0.0%	10	10	0.0%	6	0	-100.0%	0	0	0.0%	1	0	-100.0%	35	47
100.0%	0	1	100.0%	13	27	107.7%	1	2	100.0%	0	0	0.0%	0	0	0.0%	112	106
0.0%	1	0	-100.0%	18	13	-27.8%	2	1	-50.0%	1	0	-100.0%	0	0	0.0%	90	83
-100.0%	0	2	200.0%	41	34	-17.1%	8	9	12.5%	0	0	0.0%	5	0	-100.0%	114	104
0.0%	0	3	300.0%	8	4	-50.0%	2	0	-100.0%	0	0	0.0%	1	0	-100.0%	75	6
0.0%	0	0	0.0%	19	21	10.5%	1		-100.0%	3	0	-100.0%	0	0	0.0%	49	43
200.0%	2	2	0.0%	8	3	-62.5%	1	0	-100.0%	91	0	-100.0%	0	0	0.0%	5	4
0.0%	0	5	500.0%	6	11	83.3%	0	0	0.0%	0	0	0.0%	0	0	0.0%	2	4
0.0%	0	2	200.0%	7	3	-57.1%	0	0	0.0%	0	0	0.0%	1	0	-100.0%	2	2
0.0%	0	1	100.0%	13	14	7.7%	1	0	-100.0%	0	0	0.0%	0	0	0.0%	1	2
0.0%	0	2	200.0%	20	10	-50.0%	2	1	-50.0%	0	0	0.0%	0	0	0.0%	2	2
0.0%	0	1	100.0%	13	14	7.7%	5	1	-80.0%	32	0	-100.0%	6	0	-100.0%	47	10
0.0%	0	1	100.0%	8	7	-12.5%	1	0	-100.0%	11	17	54.5%	0	0	0.0%	5	1
100.0%	0	1	100.0%	28	16	-42.9%	5	1	-80.0%	0	0	0.0%	0	0	0.0%	13	15
0.0%	0	1	100.0%	6	7	16.7%	7	2	-71.4%	68	0	-100.0%	1	0	-100.0%	19	14
200.0%	0	1	100.0%	31	19	-38.7%	2	4	100.0%	1	0	-100.0%	9	0	-100.0%	8	6
-37.5%	1	14	1300.0%	20	16	-20.0%	4	2	-50.0%	0	2	200.0%	4	0	-100.0%	83	31
100.0%	0	18	1800.0%	16	26	62.5%	3	3	0.0%	5	0	-100.0%	0	0	0.0%	45	41
-50.0%	0	23	2300.0%	37	25	-32.4%	7	10	42.9%	12	0	-100.0%	0	0	0.0%	117	130
-15.0%	4	78	1850.0%	322	280	-13.0%	58	36	-37.9%	224	19	-91.5%	28	0	-100.0%	824	651

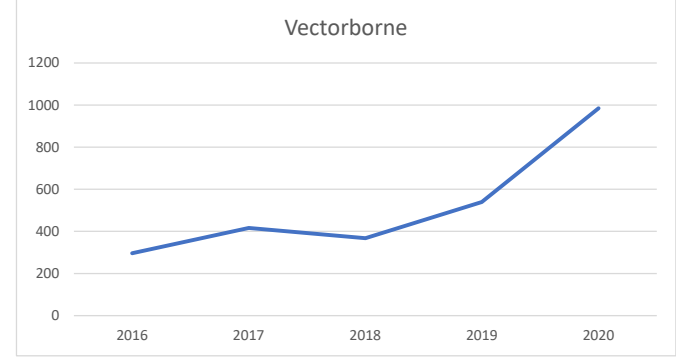
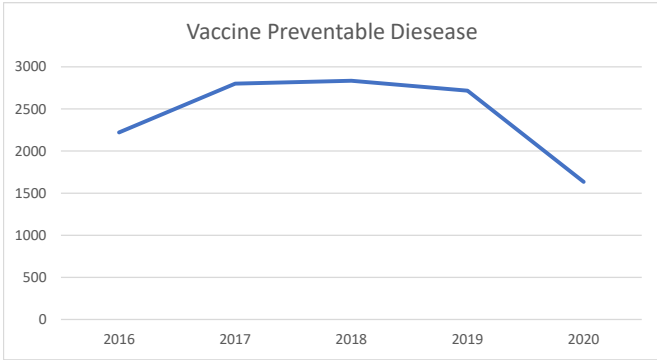
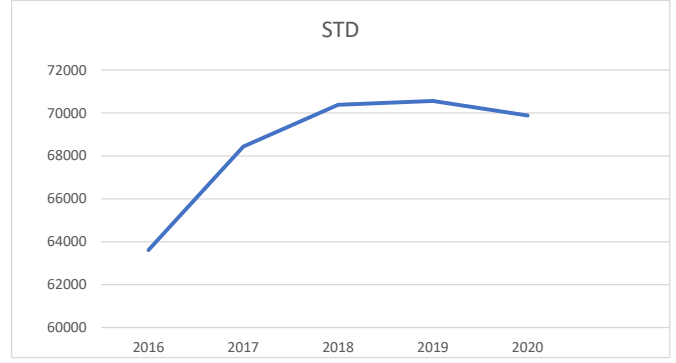
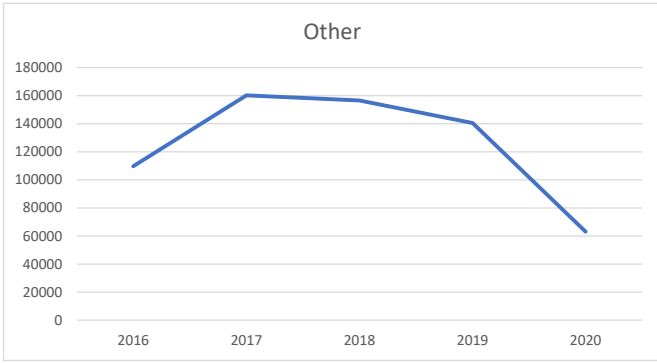
% change rabies potential exposure and PEP 2019-2020	Tuberculosis		% change TB 2019-2020	*Total of all Reportable CD		Change in total from 2019-2020	*Total of all Reportable CD MINUS Flu-like illness and influenza		Change in total from 2019-2020 (minus flu)
	2019	2020		2019	2020		2019	2020	
	34.3%	1		0	-100.0%		136	305	
-5.4%	1	0	-100.0%	3087	2381	-22.9%	1803	944	-47.6%
-7.8%	0	0	0.0%	462	422	-8.7%	227	185	-18.5%
-8.8%	0	0	0.0%	4340	3825	-11.9%	2238	1338	-40.2%
-92.0%	0	0	0.0%	1435	2031	41.5%	754	517	-31.4%
-12.2%	0	0	0.0%	249	973	290.8%	152	182	19.7%
-20.0%	0	0	0.0%	777	513	-34.0%	344	120	-65.1%
100.0%	0	0	0.0%	1659	1096	-33.9%	732	365	-50.1%
0.0%	1	0	-100.0%	133	276	107.5%	90	73	-18.9%
100.0%	0	0	0.0%	2735	582	-78.7%	1646	280	-83.0%
0.0%	0	0	0.0%	620	1190	91.9%	374	456	21.9%
-78.7%	0	0	0.0%	3718	2803	-24.6%	1820	1008	-44.6%
-80.0%	0	0	0.0%	652	834	27.9%	340	204	-40.0%
15.4%	1	0	-100.0%	3213	2809	-12.6%	1504	922	-38.7%
-26.3%	0	1	100.0%	2760	3232	17.1%	807	1011	25.3%
-25.0%	0	1	100.0%	1997	2082	4.3%	1162	608	-47.7%
-62.7%	0	0	0.0%	3502	555	-84.2%	1703	468	-72.5%
-8.9%	0	0	0.0%	6082	507	-91.7%	1958	291	-85.1%
11.1%	0	1	100.0%	12081	2141	-82.3%	3147	838	-73.4%
-21.0%	4	3	-25.0%	49638	28557	-42.5%	20904	10008	-52.1%

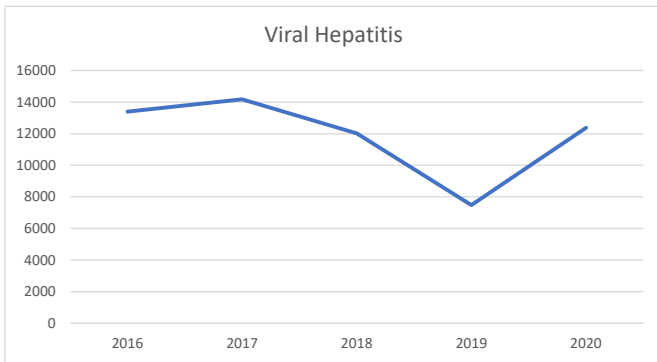
TOTAL for all 19 counties not including flu	20904	10008	-52.1%
*Note: there are over 70 reportable diseases			

MICHIGAN TOTALS NOT including flu	% change	
2019	2020	
236088	158807	-32.70%

	2016	2017	2018	2019	2020
Foodborne	5,939	5,487	5,049	5,741	3,835
	2016	2017	2018	2019	2020
Meningitis	1,649	1,633	1,771	1,525	921
	2016	2017	2018	2019	2020
Other	109,692	160,231	156,547	140,478	63,126
	2016	2017	2018	2019	2020
STD	63,613	68,434	70,386	70,563	69,883
	2016	2017	2018	2019	2020
TB	310	571	2,081	3,044	2,159
	2016	2017	2018	2019	2020
Vaccine Preventable Disease	2,221	2,800	2,835	2,717	1,634
	2016	2017	2018	2019	2020
Vectorborne	296	416	368	539	985
	2016	2017	2018	2019	2020
Viral Hepatitis	13,405	14,182	12,024	7,478	12,385







	2016	2017	2018	2019	2020
Flu like dis:	335542	420883	426421	355369	226073

