



Michigan Immunization Update

Bob Swanson, MPH
Division of Immunization

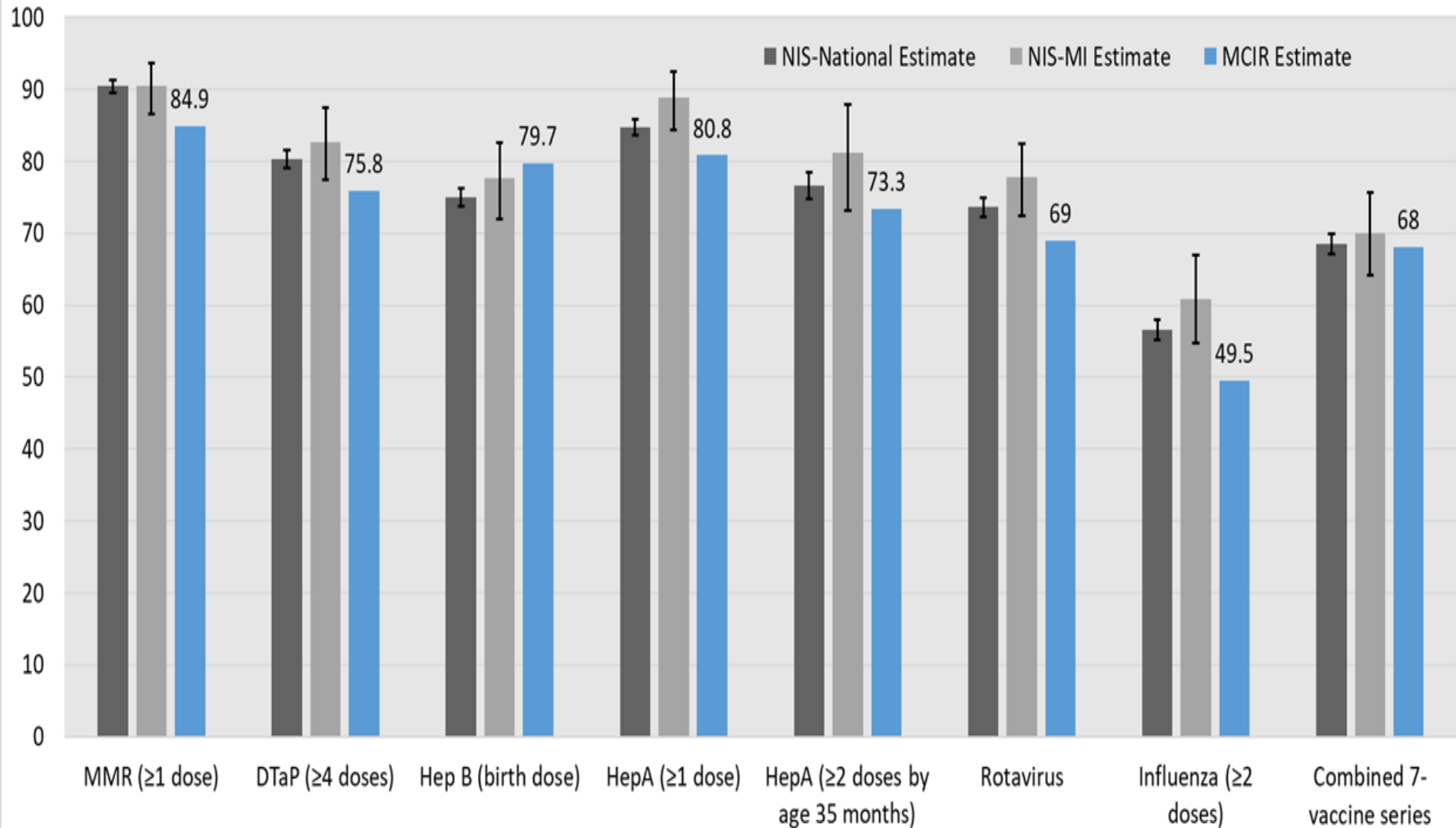
Topics for Today's Discussion

- ◆ Michigan Immunization Rates
- ◆ School and Childcare Waiver Rates
- ◆ Strategies to Improve Immunization Rates in Michigan
- ◆ MCIR Update
- ◆ Hepatitis A Update

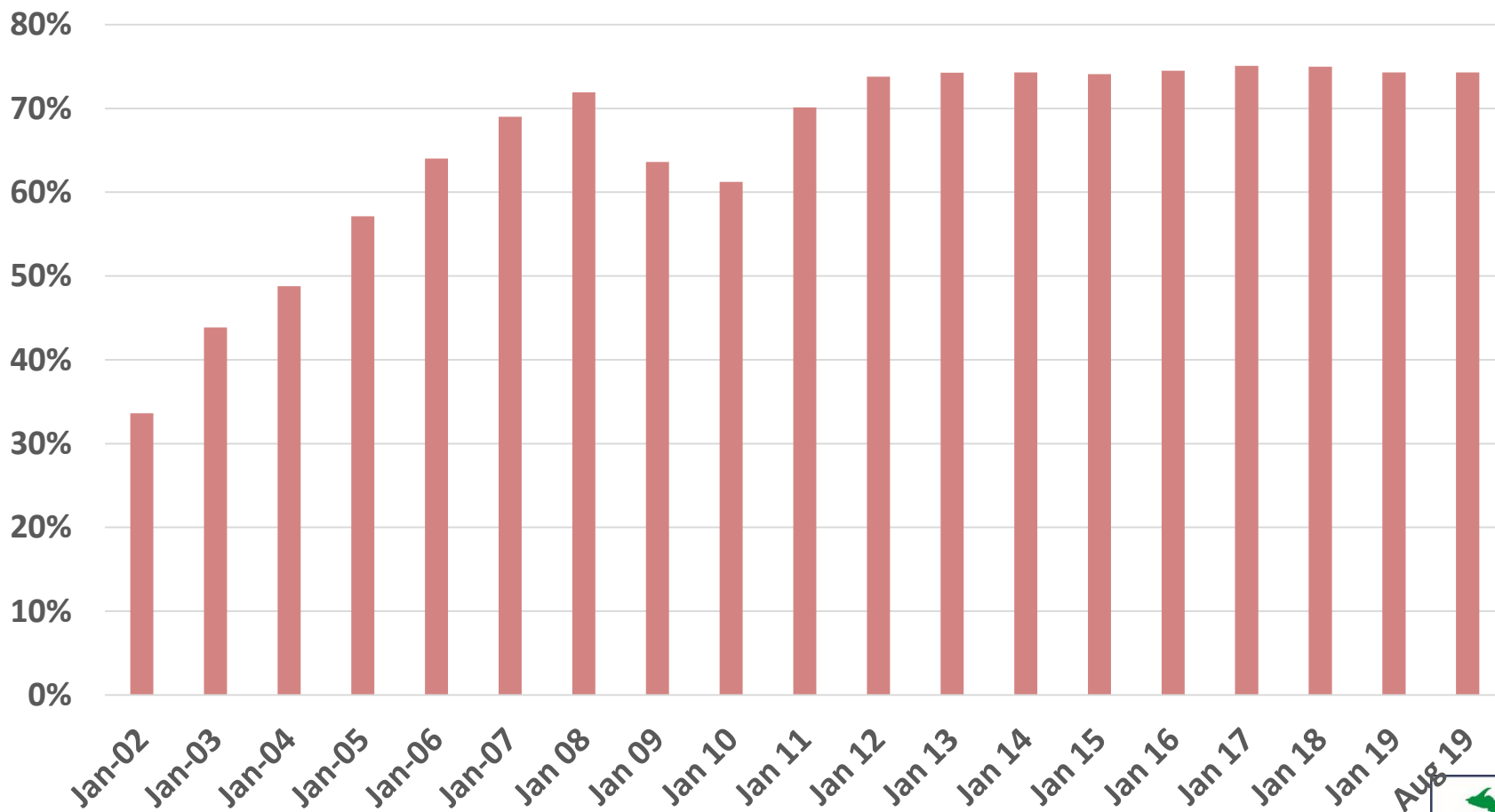


Michigan Immunization Rates

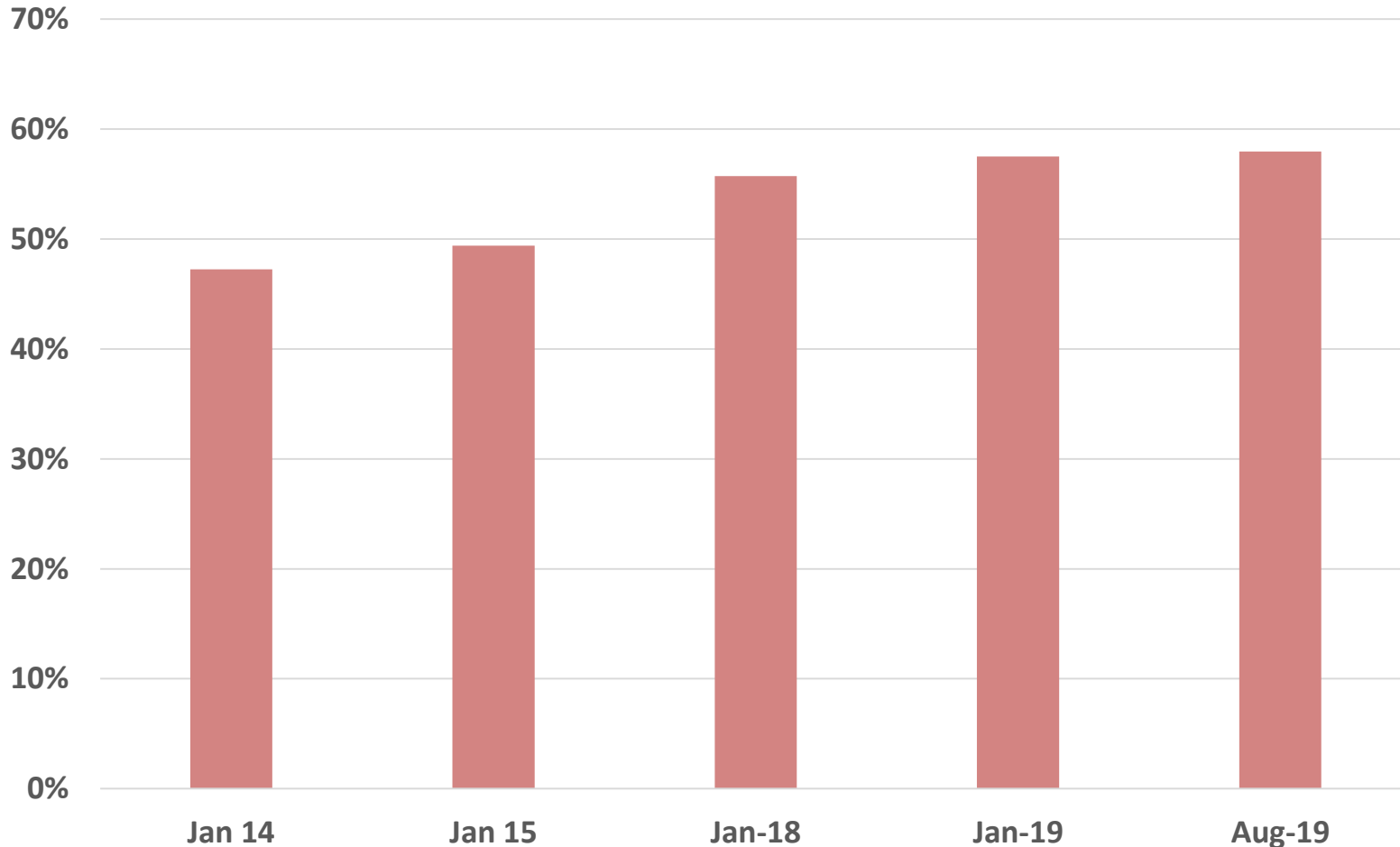
Comparison of Estimates for Child Vaccination Coverage by 24 months among Children Born in 2015-2016 for Select Vaccines and Doses - 2018 NIS-Child & Michigan Care Improvement Registry



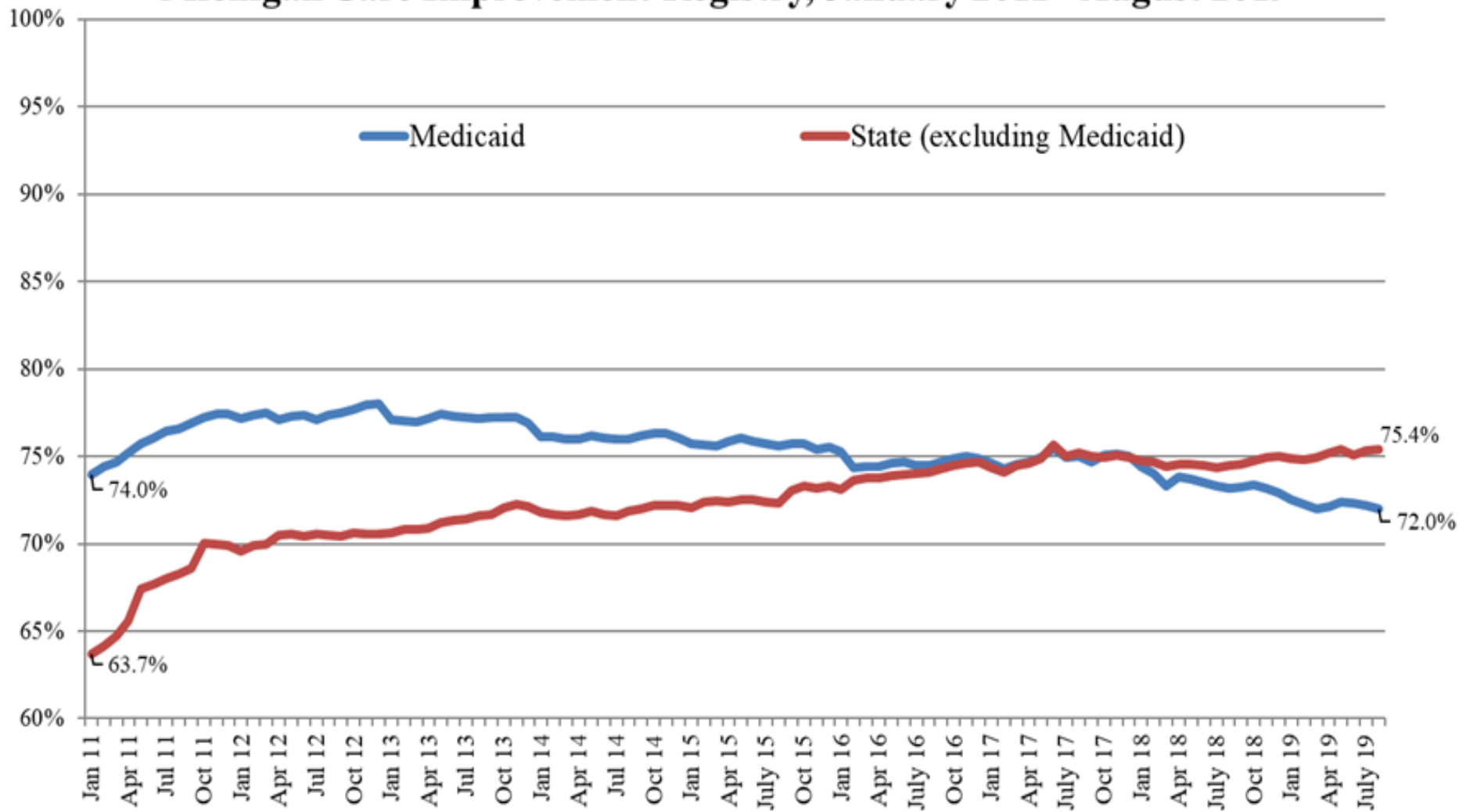
431331 State MCIR Rates Since 2002 for Children 19-36 Months of Age



43133142 State MCIR Rates Since 2014 for Children 19-36 Months of Age



Estimated 4313314* Vaccination Coverage, Children 19 through 35 months, Michigan Care Improvement Registry, January 2011 - August 2019



*4313314 series: 4 DTaP, 3 Polio, 1 MMR, 3 Hib, 3 HepB, 1 Varicella, 4 PCV

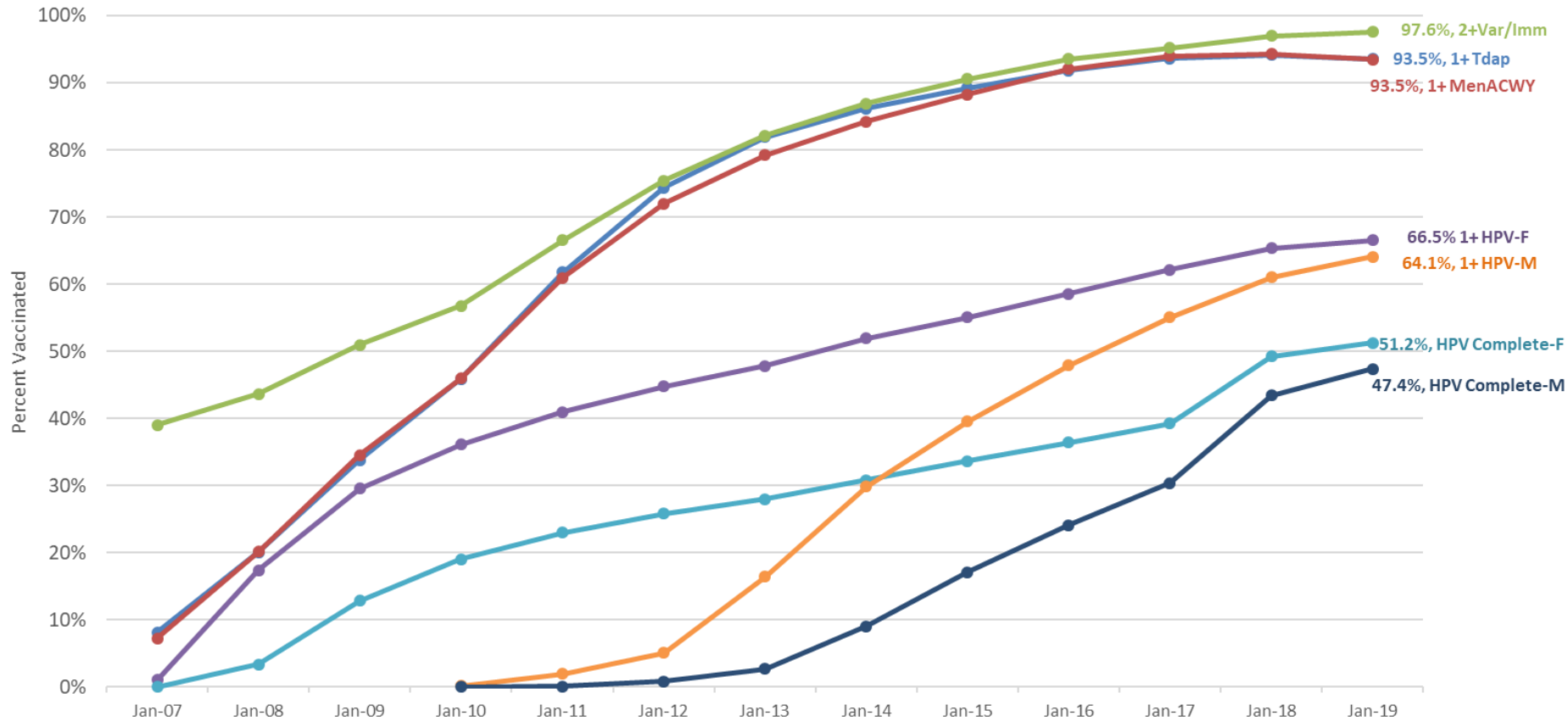
Prepared by the Michigan Department of Health and Human Services, Division of Immunization using data reported to the Michigan Care Improvement Registry (MCIR).



Adolescent Rates

Data as of August 17, 2019

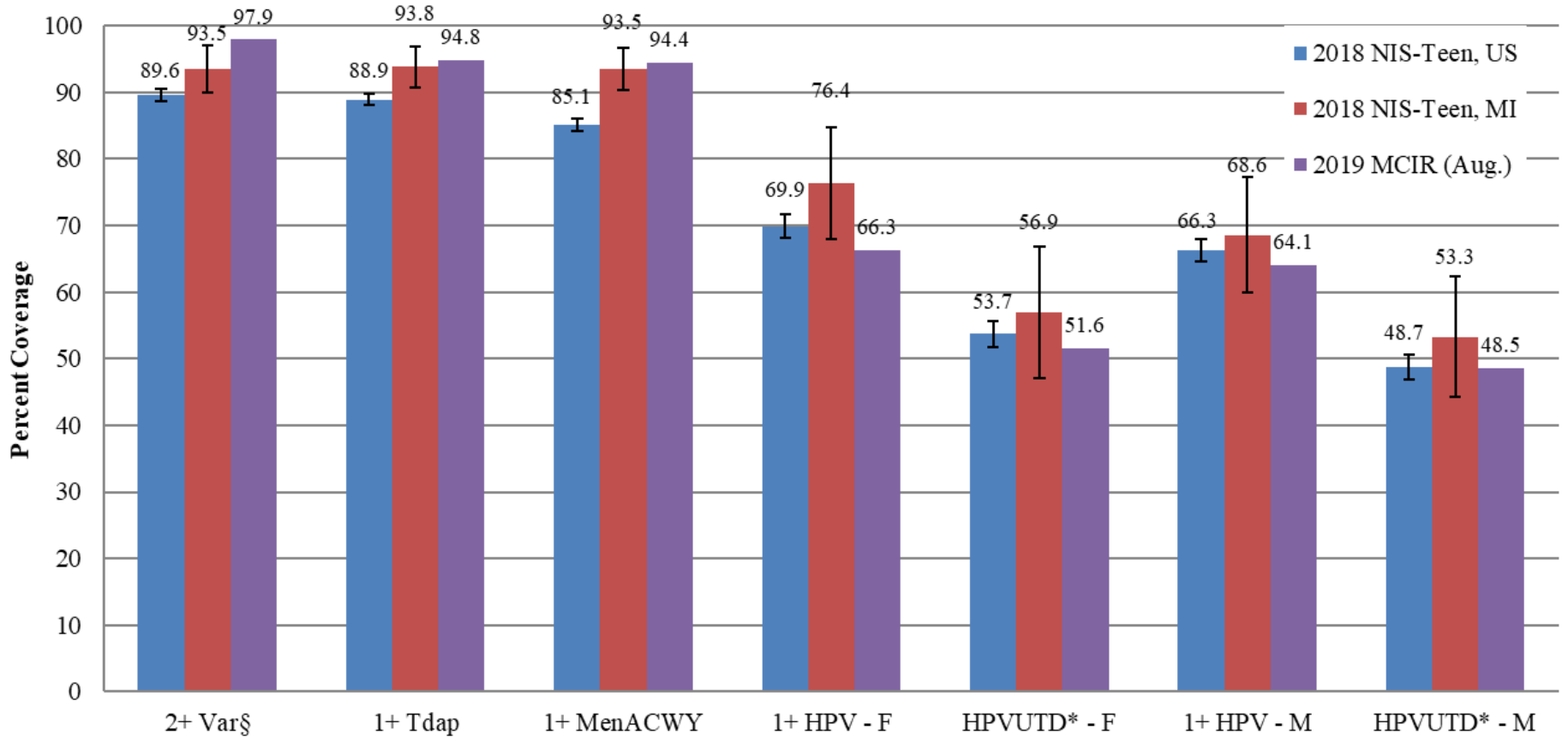
Adolescent Vaccination Coverage, 13 through 17 years of age Michigan Care Improvement Registry, 2007-2019



Prepared by the Michigan Department of Health and Human Services using data from the Michigan Care Improvement Registry for the numerator and US Census estimates for the denominator.

*Prior to January 2018 the HPV measure was 3+ doses; subsequent years include adolescents complete with 2 or 3 doses of HPV.

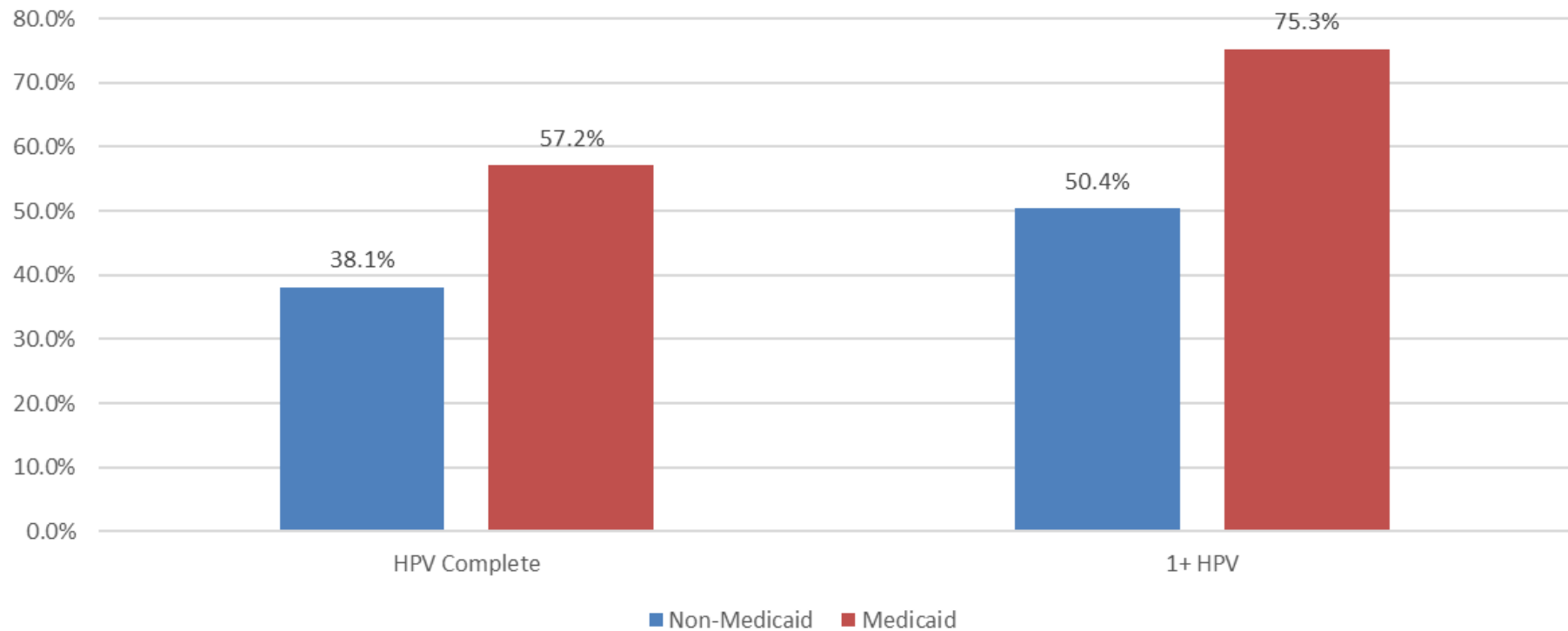
Comparison of Adolescent Immunization Rates 2018 NIS-Teen US and MI, 2019 Michigan Care Improvement Registry 13 through 17 years of age



§ 2+ doses of varicella vaccine among adolescents without a reported history of varicella disease.

* Includes those with ≥ 3 doses, and those with 2 doses when the first HPV vaccine dose was initiated prior to age 15 years.

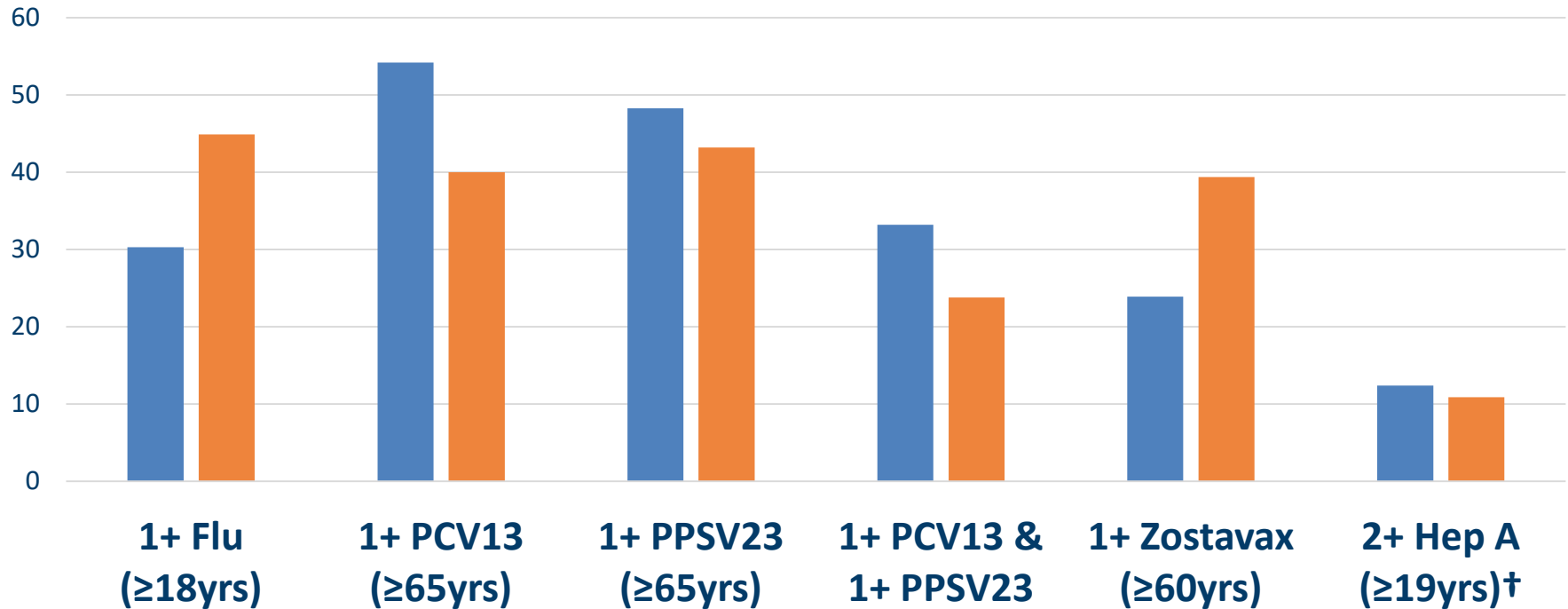
HPV Vaccination Coverage by Medicaid Status, Adolescents 13 through 17 years of age, MCIR data as of August 24, 2019





Adult Immunization Rates

Michigan Care Improvement Registry (MCIR) & National Coverage Estimates, *Select Adult Immunizations*



■ MCIR (2019)*

■ National Estimates (2017)

*MCIR Data as of June 30, 2019

† MCIR hepatitis A data as of September 21, 2019

National and MCIR estimates may vary slightly

For national data visit <https://www.cdc.gov/vaccines/imz-managers/coverage/adultvaxview/data-reports/index.html>



2018-19 Influenza Vaccination Coverage

MCIR Season Summary

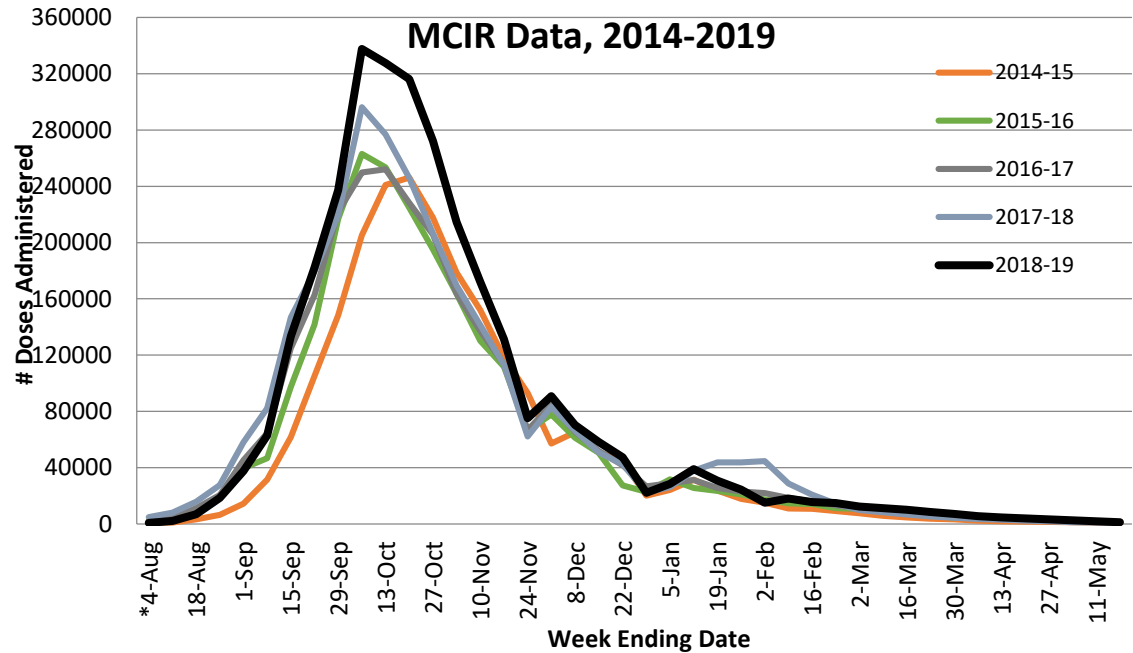
National Influenza Vaccination Data:

<https://www.cdc.gov/flu/fluview/index.htm>

2018-19 By The numbers: MCIR Coverage

- 3,166,533: Total influenza vaccinations administered and recorded in MCIR
 - 3,080,588: First doses
 - 85,945: Second doses
- 8.5% increase in doses compared to the 2017-18 flu season
- Flu vaccination coverage for all persons 6 months and older: 30.4%

Seasonal Influenza Vaccine First Doses Administered by Week



*The week ending August 6 is a cumulative amount of doses administered from

2018-19 Flu vaccination Coverage in Michigan- MCIR Data

Age Group	Statewide	LHD Range
Overall (6 mos+)	30.4%	14.3% to 46.6%
6 Months- 4 Years	47.5%	27.7% to 68.2%
5-12 Years	28.6%	16.2% to 45.0%
13-17 Years	21.3%	12.7% to 39.1%
18-24 Years	16.2%	6.8% to 29.2%
25-49 Years	20.9%	8.7% to 41.8%
50-64 Years	32.1%	16.5% to 49.7%
65+ Years	53.9%	23.3% to 82.0%

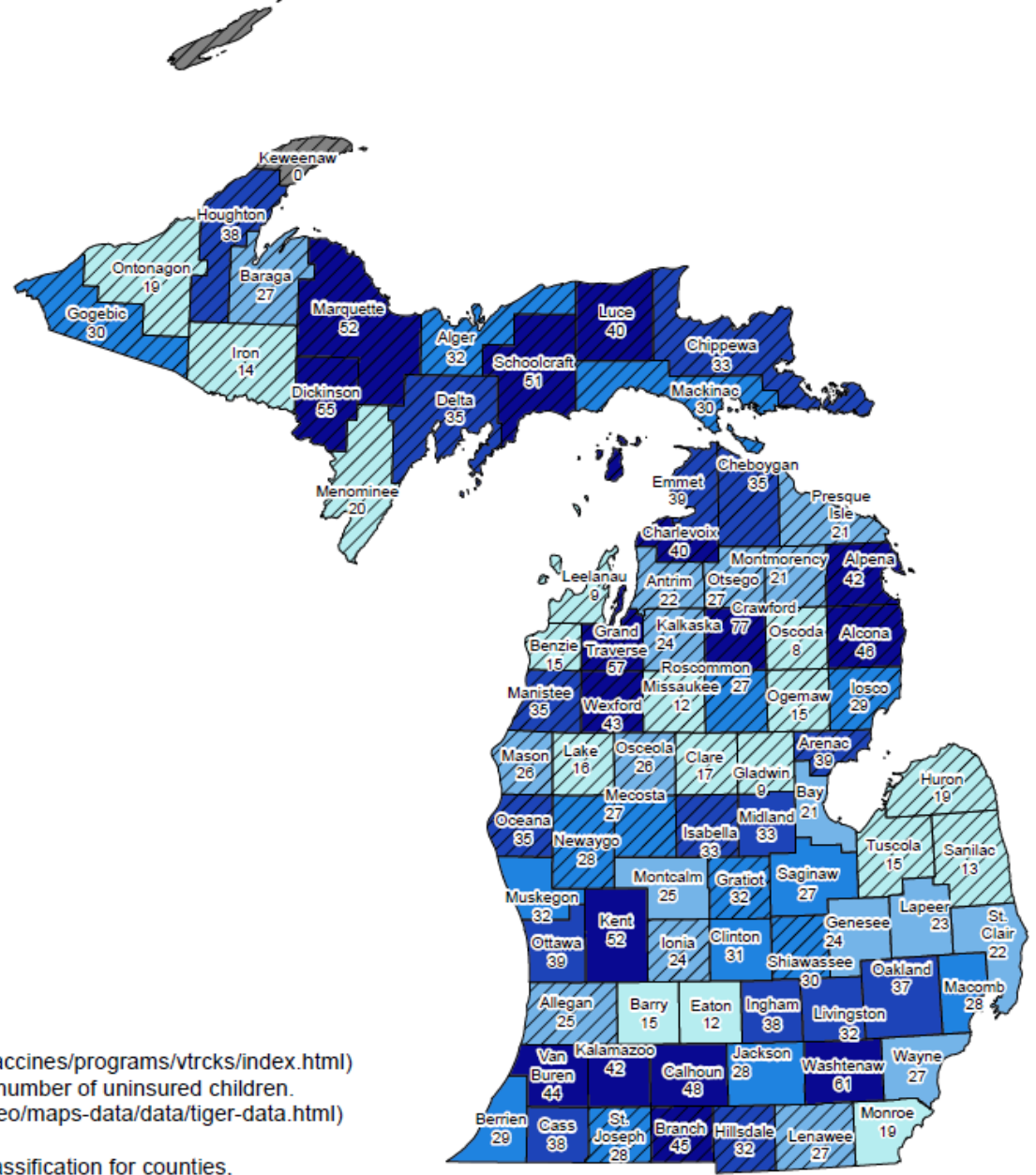
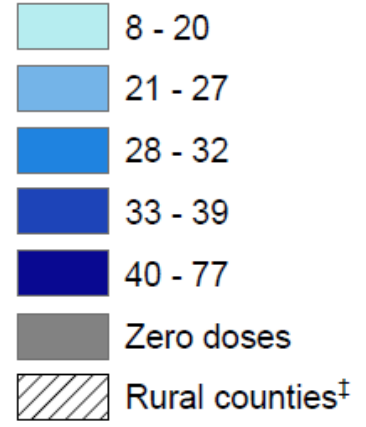
2018-19 National Flu Vaccination Coverage Data

Age Group	MI's 2018-19 Rank	MI 2017-18 Coverage (%)	MI 2018-19 Coverage (%)	% Difference	2018-19 National Coverage (%)
6 months and older	38th*	39.5	46.1	6.6	49.2
6 months – 4 years	26 th	59.0	71.9	12.9	73.4
5 – 12 years	42 nd	57.9	56.5	-1.4	63.6
13 – 17 years	44 th	43.5	44.5	1.0	52.2
18 – 49 years	40 th *	24.8	31.0	6.2	34.9
50 – 64 years	23 rd *	38.4	48.4	10.0	47.3
65 years and older	40 th *	56.3	65.6	9.3	68.1

*The District of Columbia and New Jersey are not included in these ranks. <http://www.cdc.gov/flu/fluview/interactive.htm>

County-level ratio of VFC flu doses ordered* per 100 VFC-eligible children† <19 years of age by county - Michigan, 2017-18 flu season

Doses per 100 VFC-eligible children



* VFC doses ordered by VFC program-enrolled providers - (source: VTrcks vaccine ordering system, <https://www.cdc.gov/vaccines/programs/vtrcks/index.html>)
 † As a proxy for VFC-eligibility, number of Medicaid-enrolled and number of uninsured children. (source: American Community Survey, <https://www.census.gov/geo/maps-data/data/tiger-data.html>)
 ‡ 'Micropolitan' and 'non-core' counties categorized as rural. (source: 2013 National Center for Health Statistics urban/rural classification for counties, https://www.cdc.gov/nchs/data_access/urban_rural.htm)

VFC Pre-Booking

1	VFC Pin	Enrollee Site Name	County	2018 VFC Population	Target for 2019-2020 Prebooking - 70%	Target for 2019-2020 Prebooking - 100%	Actual 2019-2020 Prebook	Actual % Based on Prebook
2	XXXX	Singletrack Health, P.C.	Alcona	34	30	30	20	59%
3	XXXX	Alcona Health Center - Lincoln	Alcona	110	80	110	100	91%
4	XXXX	Alcona Health Center - Harrisville	Alcona	12	10	10	30	250%
5	XXXX	Alcona Health Center Tiger Extension	Alcona	143	110	140	80	56%
6	XXXX	UMAS ALGER	Alger	49	40	50	90	184%
7	XXXX	Sault Tribe of Chippewa Indians Munsie	Alger	80	60	80	0	0%

- Target % given to each provider
- Average pre-book for Michigan VFC providers = 60%
- VFC providers have not ordered enough vaccine to cover their population

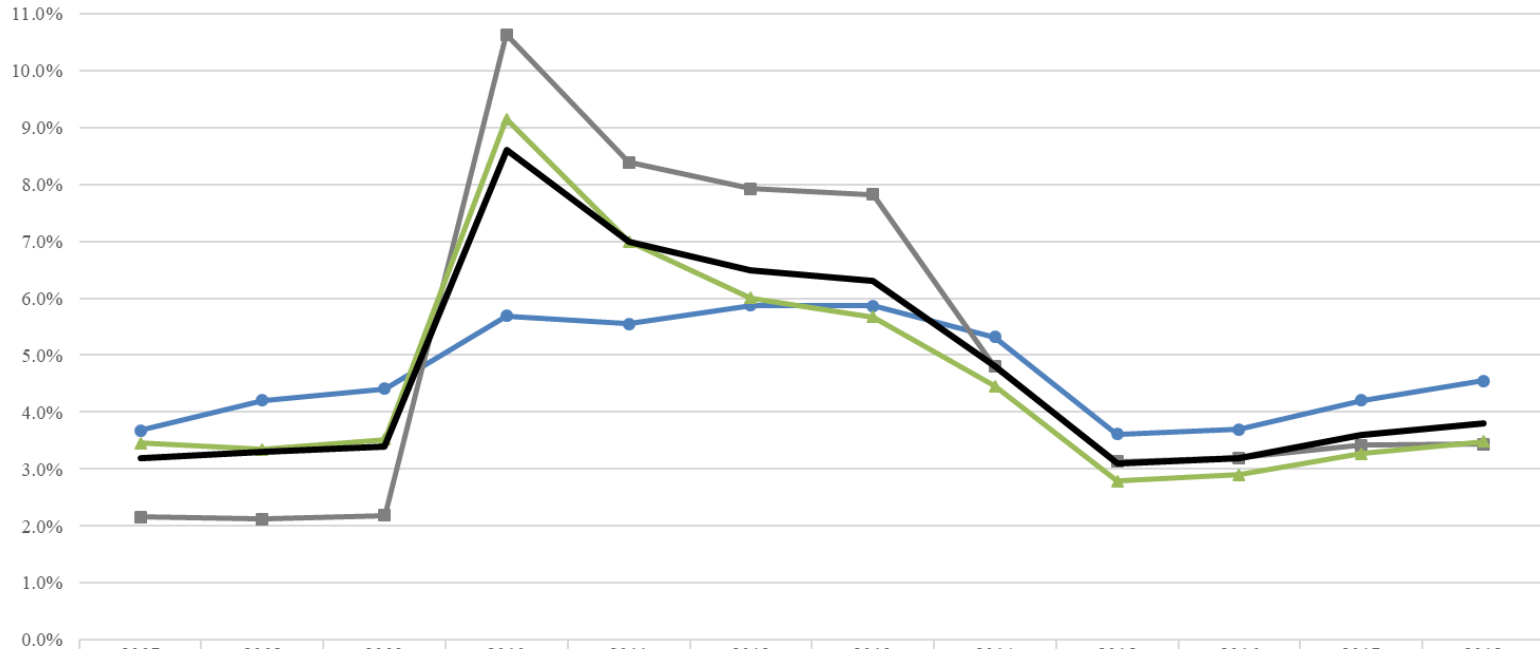


Michigan School and Child Care Immunization Rates

School Immunization Reporting Process

- ◆ Schools are required to report the immunization status of all Kindergarten, 7th grade, and new enrollees to a school district.
- ◆ School immunization reports are due November 1st and February 1st of each year.
- ◆ Children who do not have a complete immunization record or a signed waiver on file are not allowed be enrolled in the school.

Percentage of Children in Michigan Schools with an Immunization Waiver by Required Reporting Period, 2007-2018



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
—●— Kindergarten	3.7%	4.2%	4.4%	5.7%	5.6%	5.9%	5.9%	5.3%	3.6%	3.7%	4.2%	4.5%
—■— 6th/7th**	2.2%	2.1%	2.2%	10.6%	8.4%	7.9%	7.8%	4.8%	3.1%	3.2%	3.4%	3.4%
—▲— New Entrants	3.5%	3.4%	3.5%	9.1%	7.0%	6.0%	5.7%	4.5%	2.8%	2.9%	3.3%	3.5%
—◆— Total^	3.2%	3.3%	3.4%	8.6%	7.0%	6.5%	6.3%	4.8%	3.1%	3.2%	3.6%	3.8%

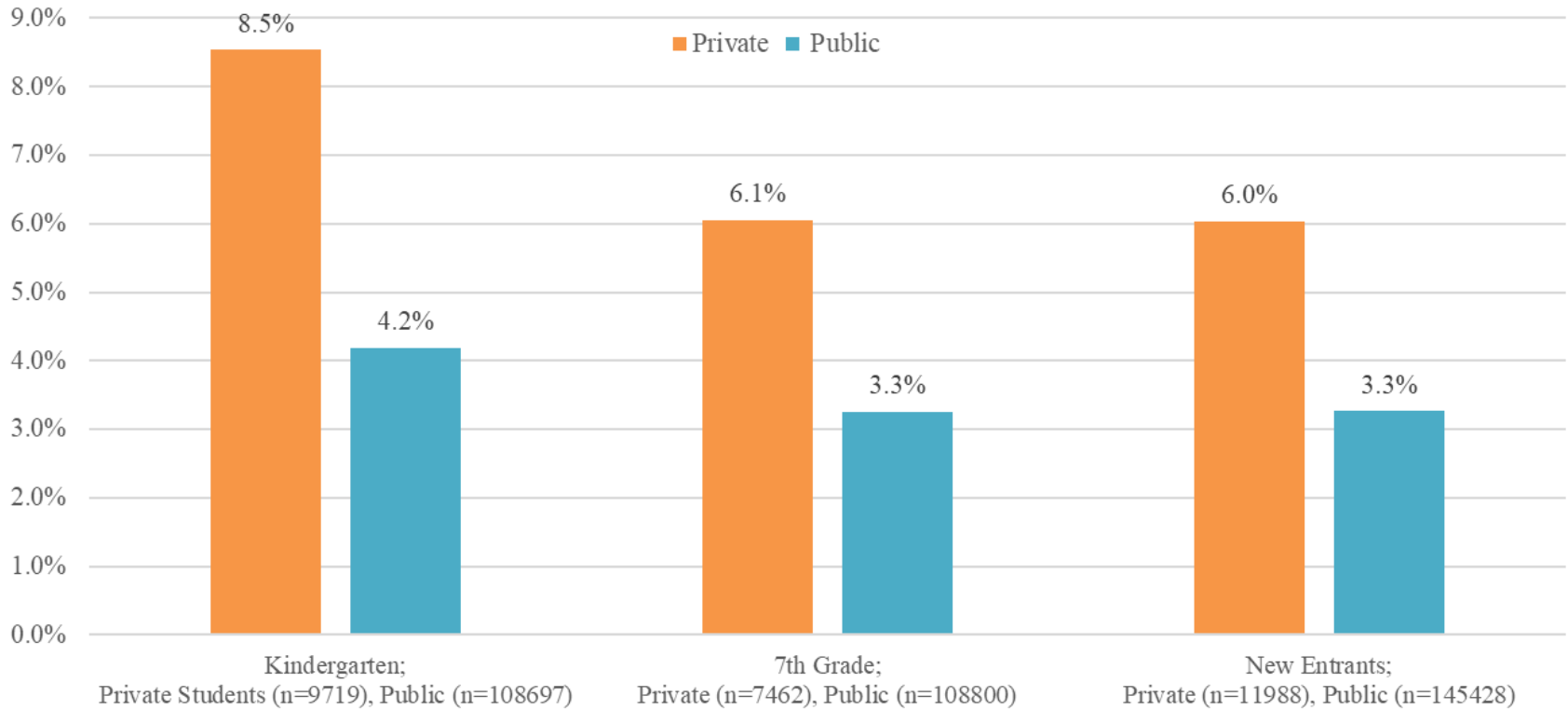
** In 2012 a Senate Bill was passed to move the sixth grade assessment to seventh grade.
 ^ Total is the combination of Kindergarten, 6/7th grade, and new entrants to the school district.

Percent Change compared to 2014

- A new educational requirement established in 2014.
 - Resulted in a 35% decrease in overall waiver rates in 2015
- Rates slightly increased in 2018 compared to 2017
 - Still a decrease in waiver rates compared to 2014

	% Decrease from 2014 to 2018
Kindergarten	15.1%
7th Grade	29.2%
New Entrants	22.2%
School Overall	20.8%
Childcare	15.2%

Immunization Waiver Rates, Michigan Private and Public Schools, 2018



Building-level data posted on the MDHHS Website

- Data have been posted annually starting in 2015 (with 2014 data)
- In 2019 (with 2018 final data) started highlighting buildings with less than 95% completion rates.
- Of the 2057 schools from the **Kindergarten** report (with >5 enrollment)
 - 64.5% (1327) have less than 95% completion
 - 728 of the schools with < 95% completion have 50 or more students
- Of the 1300 schools from the **7th grade** report (with >5 enrollment)
 - 59.3% (772) have less than 95% completion
 - 370 have 50 or more students (arbitrarily chose 50)
- Of the 3560 schools reporting **New Entrants** (with >5 enrollment)
 - 45.4% (1617) have less than 95% completion
 - 437 have 50 or more students
- Of the 3749 **childcares** (with >5 enrollment)
 - 73.4% (2755) have less than 95% completion
 - 952 have 50 or more children

2018 IMMUNIZATION STATUS OF 7th GRADE STUDENTS, MICHIGAN

Schools with less than 95 percent of students complete for the recommended vaccines are bolded and highlighted in blue. Please use caution when interpreting the data in schools with small enrollments. Schools with less than 5 students are omitted from the data.

COMP = # of student who are complete for the recommended vaccines; PROV = # of students who are provisional or in a dose waiting period;

INCOM = # of students with an incomplete vaccination record; PHIL = philosophical waivers

School Information				Student Information					Number and Type of Waiver							
									Total		Medical		Religious		PHIL	
NAME	DISTRICT	TYP	COUNTY	N	COMP	%COMP	PROV	INCOM	n	%	n	%	n	%	n	%
Alcona Middle-High Scho	Alcona Community Sch	Pub	Alcona	46	42	91.3	0	1	3	6.5	1	2.2	0	0	2	4.3
AuTrain-Onota Public Sch	AuTrain-Onota Public S	Pub	Alger	8	7	87.5	0	0	1	13	0	0	0	0	1	13
Munising High and Middl	Munising Public School	Pub	Alger	41	36	87.8	0	2	3	7.3	0	0	1	2.4	2	4.9
Superior Central School	Superior Central School	Pub	Alger	17	16	94.1	0	0	1	5.9	0	0	0	0	1	5.9
L E White Middle School	Allegan Public Schools	Pub	Allegan	175	166	94.9	0	9	0	0	0	0	0	0	0	0
Fennville Middle School	Fennville Public Schools	Pub	Allegan	116	116	100	0	0	0	0	0	0	0	0	0	0
Hamilton Virtual School	Hamilton Community S	Pub	Allegan	34	30	88.2	0	2	2	5.9	0	0	1	2.9	1	2.9
Hamilton Middle School	Hamilton Community Sch	Pub	Allegan	187	183	97.9	0	0	4	2.1	1	0.5	2	1.1	1	0.5
Hopkins Middle School	Hopkins Public Schools	Pub	Allegan	150	138	92	0	8	4	2.7	0	0	3	2	1	0.7
Innocademy Allegan Campus	Innocademy Allegan Cam	Pub	Allegan	7	7	100	0	0	0	0	0	0	0	0	0	0
Martin Middle-High Scho	Martin Public Schools	Pub	Allegan	50	47	94	0	1	2	4	0	0	1	2	1	2
Otsego Middle School	Otsego Public Schools	Pub	Allegan	168	162	96.4	0	1	5	3	0	0	0	0	5	3
Plainwell Middle School	Plainwell Community Sc	Pub	Allegan	205	190	92.7	0	9	6	2.9	0	0	0	0	6	2.9
Saugatuck Middle School	Saugatuck Public Schoo	Pub	Allegan	67	63	94	0	1	3	4.5	1	1.5	0	0	2	3
Wayland Union Middle Sc	Wayland Union Schools	Pub	Allegan	227	214	94.3	0	5	8	3.5	0	0	3	1.3	5	2.2
Moline Christian School	Wayland Union Schools	Priv	Allegan	28	28	100	0	0	0	0	0	0	0	0	0	0
Immanuel Lutheran Schoo	Alpena Public Schools	Priv	Alpena	10	8	80	0	0	2	20	0	0	0	0	2	20
Thunder Bay Jr. High	Alpena Public Schools	Pub	Alpena	285	268	94	0	6	11	3.9	0	0	1	0.4	10	3.5
Alba Public School	Alba Public Schools	Pub	Antrim	7	7	100	0	0	0	0	0	0	0	0	0	0
Bellaire Public High Scho	Bellaire Public Schools	Pub	Antrim	25	23	92	0	1	1	4	0	0	1	4	0	0
Central Lake High School	Central Lake Public Scho	Pub	Antrim	21	20	95.2	0	0	1	4.8	0	0	0	0	1	4.8
Cherryland Middle School	Elk Rapids Schools	Pub	Antrim	97	90	92.8	0	2	5	5.2	0	0	0	0	5	5.2



Immunization Quality Improvement Project

CDC Standard Quality Improvement (QI) Report

Available in MCIR for most sites that have patients in one of 3 age cohorts:

- At least 2 years and not yet 3 years old
 - (assessed on 2nd birthday)
- At least 13 years and not yet 14 years old
 - (assessed on 13th birthday)
- At least 17 years and not yet 18 years old
 - (assessed on 17th birthday)

Used by LHD staff for QI site visits, also available to MCIR users at most provider offices.

Report Generated: 09/12/2019		CDC Standard Quality Improvement Report		Page: 1 of 1
(419999) TEST SITE			Note: Coverage levels included in this report indicate the percentage of individuals in the requested age cohort who meet the selected vaccine assessment criteria.	
Data is calculated using patients with an Active patient Provider status.				
Pediatrics at least 2 years and not yet 3 years old (Assessment is at 2 years old)			Total Patients on Provider Id: 230	
# Meeting Criteria	Coverage Level %			
223	97	Pediatric 4313314 Series		
227	99	4 Doses of DTaP		
226	98	3 Doses of Polio		
227	99	1 Dose of MMR		
227	99	Complete Series Hib		
225	98	Complete Series HepB		
227	99	1 Dose of VAR (includes immunity)		
227	99	Complete Series PCV		
225	98	Complete Series Rota		
204	89	Complete Series HepA		
81	35	Complete Series Influenza (2018 - 2019 season)		
202	88	Pediatric 43133142 Series		
Adolescents at least 13 years and not yet 14 years old (Assessment is at 13 years old)			Total Patients on Provider Id: 207	
# Meeting Criteria	Coverage Level %			
182	88	1 Dose of Tdap		
189	91	1 Dose of MenACWY		
189	91	Complete Series HPV		
199	96	1 Dose of HPV		
189	91	Complete Series HepB		
136	66	Complete Series MMR		
116	56	Complete Series VAR (includes immunity)		
171	83	Complete Series HepA		
0	0	Complete Series Polio		
0	0	Complete Series Influenza (2018 - 2019 season)		
Older Adolescents at least 17 years and not yet 18 years old (Assessment is at 17 years old)			Total Patients on Provider Id: 161	
# Meeting Criteria	Coverage Level %			
142	88	1 Dose of Tdap		
147	91	Complete Series MenACWY		
147	91	Complete Series HPV		
157	98	1 Dose of MenB		
143	89	Complete Series Influenza (2018 - 2019 season)		
161	100	Complete Series HepB		
96	60	Complete Series MMR		
117	73	Complete Series VAR (includes immunity)		
96	60	Complete Series HepA		
161	100	Complete Series Polio		

CDC Standard Quality Improvement (QI) Report

A few highlights of the CDC Standard QI Report:

- Seasonal Influenza coverage level for the previous season.
- MenACWY and Men B are separated and appear in the adolescent cohorts
- Focus is with improving timely administration of ACIP vaccines
- Includes people that have an active patient status at the site

Report Generated: 09/12/2019		CDC Standard Quality Improvement Report		Page: 1 of 1
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IVACC  NATE .ORG



Overview

Vaccination is an emotional issue for many Michigan parents.

Designed with input from Michigan mothers, I Vaccinate provides scientific information and research on vaccines to help parents protect their kids.

Using traditional, digital, social, and earned media strategies, the campaign aims to create a positive conversation surrounding vaccines and highlights the reasons why most parents do fully vaccinate their children.

Background

In December 2014, M-Live published a series of stories about Michigan's vaccination status. The series found:

“Michigan has one of the highest vaccine-waiver rates for kindergartners in the country, three times the national medium, according to the CDC. And the number of kindergartners getting vaccine waivers is growing. In five years, it's increased 23 percent.”

“Based on state statistics, it appears about 150,000 of Michigan's public and private school students – 6 percent of the K-12 population – do not have all their required immunizations, which includes older children who did not get shots required after kindergarten.”

“In 2002, the state had 62 cases of whooping cough. In 2013, there were 955 cases, half of which were in children under the age of 12. In 114 cases, the patients were hospitalized. An Oakland County infant died of the disease in 2012.”

In 2015, the state instituted an administrative rule change on nonmedical waivers for childhood immunizations. The rule change has resulted in a 35.4 percent overall reduction of vaccine waiver rates. This rule change, while effective, is only part of the solution.

Campaign

The campaign includes a full paid advertising component, comprised of print, digital, and traditional advertisements including TV, radio and billboards.



Campaign

After the campaign launch in 2017, I Vaccinate was featured in more than 240 news stories and op-eds in local, state and national print, radio and television outlets, including the Detroit Free Press, The Detroit News and Parents Magazine, with more than 68 million estimated views.


Detroit Free Press

PART OF THE USA TODAY NETWORK

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Parents need honest answers to questions about childhood vaccines | Opinion

Veronica McNally Published 12:51 p.m. ET Oct. 16, 2017



(Photo: Joe Raedle, Getty Images)

My heart aches for Rebecca Bredow, the young Metro Detroit mom jailed for violating an Oakland County Circuit Court judge's order to immunize her son against vaccine-preventable diseases.

As I watched Michigan and national media coverage of Rebecca's case, I saw a young woman who, from all indications, loves her son and is trying to do what is best for him. When Rebecca shared her story with the public, memories came flooding back of my family's experiences with childhood immunizations.

Like Rebecca, I'm a young mom who had questions

STORY HIGHLIGHTS

- Veronica McNally, whose daughter died of whooping cough, is a founder of the Franny Strong Foundation

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91.1 FM FLINT
MICHIGANRADIO.ORG

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Mothers who lost children to vaccine-preventable diseases urge vaccination

By TRACY SAMILTON • AUG 16, 2017

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CREDIT FLICKR USER PAHO/WHO / FLICKR

Vaccine education groups are asking parents to get their kids vaccinated before school starts.

Veronica McNally is with the Franny Strong Foundation. Her baby girl died at age three months from whooping cough.

She says parents are also protecting babies and immune-compromised

people when they vaccinate themselves and their children.

"Whooping cough, for example, would require several doses of dTAP (the pertussis vaccine) before an infant would get vaccine-conferred immunity," says McNally. "So

Campaign

I Vaccinate helps educate and engage Michigan parents through social media, sharing answers to their questions, news, personal stories and other information on Facebook, Twitter and Instagram.

 I Vaccinate
March 20 · 🌐

Michigan ranks 43rd in the U.S. in immunization coverage among toddlers. Fact-check at www.IVaccinate.org.



Michigan ranks **43rd** LOWEST in the U.S. in immunization coverage among toddlers

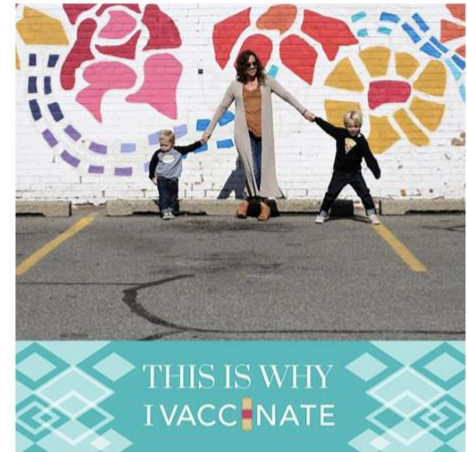
IVACC-NATE.ORG

 I Vaccinate
@IVaccinateMI

You block stairs & pad corners. Now guard them from disease with safe, effective vaccines: IVaccinate.org #IVaccinate #vaccineswork



12:57 PM - 20 Mar 2017



Campaign

In 2019 alone, I Vaccinate has partnered with 13 bloggers (both from Michigan and other states) with hundreds of thousands of followers on social media and 41,000 combined online readership, resulting in 12 blog posts and 11 additional social media posts with 9,000 estimated blog views and 23 links to IVaccinate.org within the posts.



 **samanthaecollin** • Follow


samanthaecollin There are so many things we do in life to try and keep our kids safe and healthy. Wearing bike helmets while scooting for the first time is one 🥰 and another that's so very important for our family is getting our flu shots each year and making sure Rowan is up to date on his vaccinations.

As summer in Michigan gives way to fall, the days are shorter, temperatures are cooler and back-to-school season is in full swing. I love fall and almost everything that comes with it, but as I look forward to changing leaves and pumpkin spice everything, I can't help but feel that familiar sense of dread about the impending season. No, not winter — flu. 🍂 @ivaccinatemi #ivaccinate #sponsored #momlife #boymom #dadlife #michiganmom #vacwithme #publichealth

74 likes
SEPTEMBER 12, 2018

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 **tatanishapw** • Follow

tatanishapw Today I'm sharing my vaccination experience. As a child, I didn't receive vaccinations. As a parent, I vaccinated my boys. #ad There are awesome tools for parents to help them decide what's best for their child(ren). I'm not here to tell parents what they should do, only share my story and helpful resources!

@ivaccinatemi
My Vaccination Experience | Immunization Resources for Michigan Parents

Read about it here ->
<http://www.amittenfullofsavings.com/vaccination/>

#AD #parenting #momlife #momofboys #lifestyleblogger #michigan #vaccinations

82 likes
MARCH 22, 2018

Log in to like or comment. ...

Provider Toolkit

Research indicates that doctors or other healthcare professionals remain by far parents' most trusted source of information.



I Vaccinate is developing a Provider Toolkit to help facilitate conversations with vaccine-hesitant families and address specific questions raised by parents.

A statewide survey of providers and focus groups testing of the initial toolkit functions have been conducted.

Provider Toolkit

Next Steps:

- Additional provider testing of the toolkit
- Recruiting pilot sites for the toolkit roll-out in 2020
- To get involved:
 - Email Angela Minicuci at aminicuci@martinwaymire.com
 - Visit the I Vaccinate Provider Toolkit booth



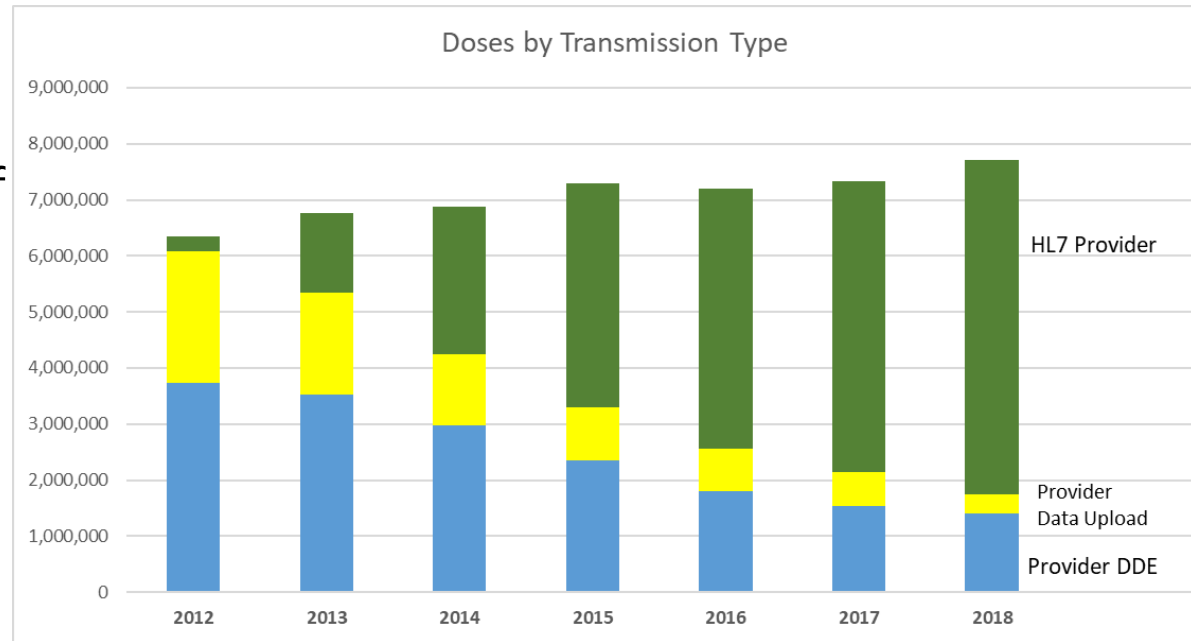
MCIR Update

MCIR Stats

- ◆ 11,218,568 person records in MCIR
- ◆ 10,278,743 Michigan residents
- ◆ 144,537,959 total vaccination records
- ◆ 16,038 active user sites
- ◆ 32,636 total users of the MCIR
- ◆ 257,820 overdue (recall) notices sent in 2018
- ◆ On an average day there are 275,000 patient records accessed in MCIR
 - On busy days requests can exceed 2,000,000

HL7 VXU Dose Submission

- 2012 – HL7 transmission represented 4.3% of vaccines received
- 2018 – HL7 now represents 77% of doses received



Doses by Transmission Type -- MCIR Data, CY2012-CY2018							
	2012	2013	2014	2015	2016	2017	2018
Provider DDE	3,724,232	3,524,577	2,984,968	2,349,092	1,902,490	1,530,514	1,403,687
Provider Data Upload	2,354,475	1,818,340	1,253,453	947,681	750,478	616,959	345,386
HL7 Provider	272,173	1,430,077	2,637,149	3,996,640	4,640,994	5,176,349	5,971,068
Total	6,350,880	6,772,994	6,875,570	7,293,413	7,293,962	7,323,822	7,720,141

Query (forecast/history) Adoption

- **Participating Provider sites**

- First year = 2015 - 29 sites
- **Current Total = 2,191 sites**
 - **1,271 are Non-Immunizers** representing 58% of Query participating providers

- **Query requests exceeded 2.6 Million monthly in August 2019. MCIR sees anywhere between 87,000 to 94,000 daily queries**

- **Consumer Access** leveraging Query to **retrieve PDF MCIR Record**

- **March 2018** - Medicaid Beneficiaries via myHealthButton/myHealthPortal
- **December 2018** – via CC360 – Foster Care Workers access record to provide to new Foster Parents
- **February 2019** - via School District Secure-Parent-Portal – Pilot project allowing Parents to query and receive their child's MCIR record
- Still working with Health Care Organizations to be able to have **Patient Portals** used to deliver the MCIR record to the person.



Hepatitis A Outbreak

Hepatitis A Cases

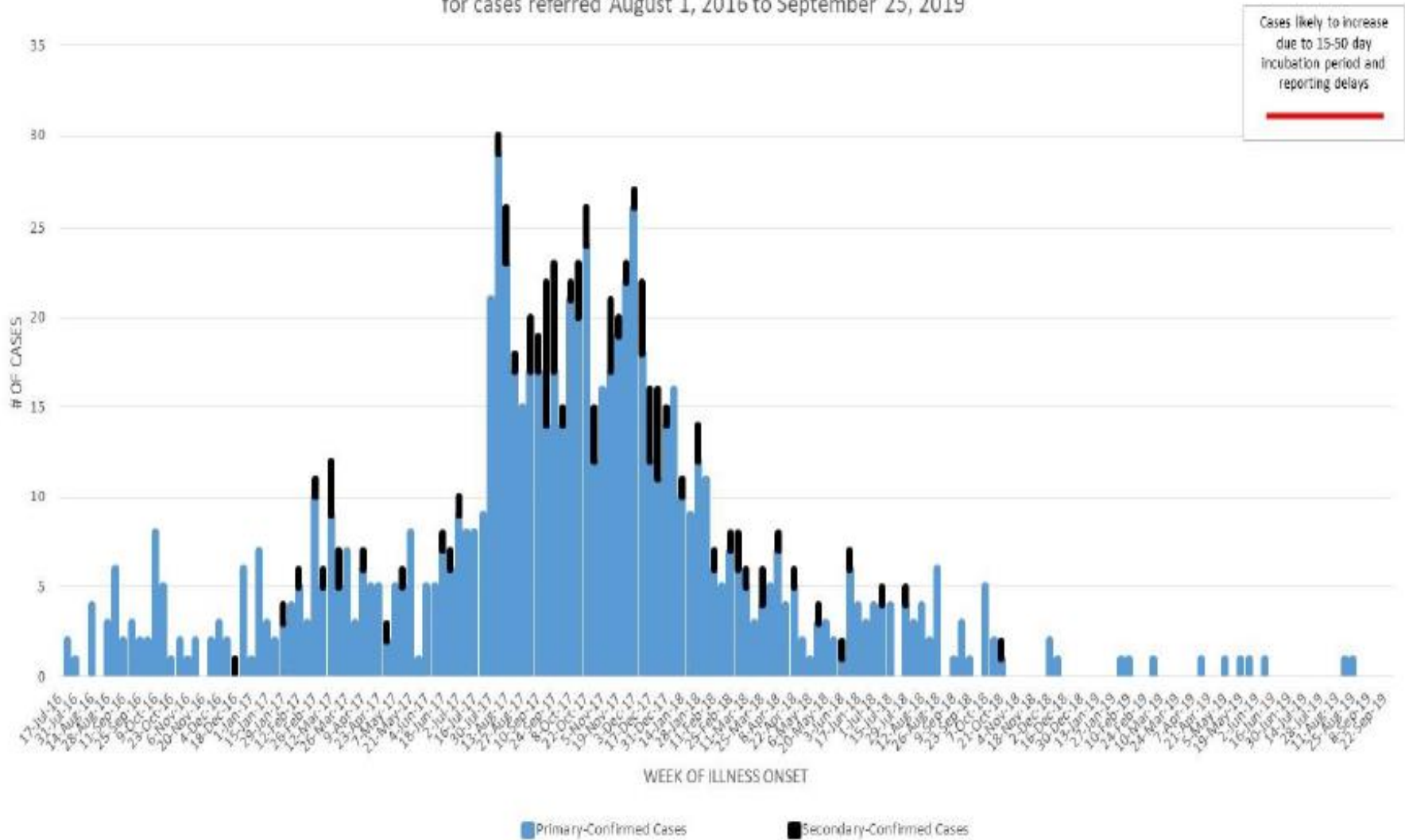
- ◆ Michigan Cases

- ◆ Total # of Cases: 920
- ◆ Total Hospitalizations: 738 (80.2%)
- ◆ Total Deaths: 30

- ◆ National Cases

- ◆ Total # of Cases: 26,013
- ◆ Total Hospitalizations: 15,653 (60%)
- ◆ Total Deaths: 262

Confirmed Hepatitis A Case Onset by Week for the Michigan Outbreak for cases referred August 1, 2016 to September 25, 2019



**If illness onset was not identified first lab collection date was used in place*

Adult Hepatitis A Doses Administered and Reported to the Michigan Care Improvement Registry (MCIR), 2016-2019

Table 1. Hepatitis A doses^a administered and reported to the Michigan Care Improvement Registry (MCIR) for adults 18 years and older residing in outbreak counties by week and county, Michigan, July-September 2019^{b,c,d,e}

	Aug 25-31	Sep 1-7	Sep 8-14	Sep 15-21	Month and year jurisdiction included in outbreak summary ^f	Total outbreak doses ^g
Oakland	686	535	602	492	August 2016	93,600
Wayne	368	319	370	337	August 2016	73,064
Macomb	298	278	353	231	August 2016	55,640
Detroit	143	101	132	121	August 2016	27,655
St. Clair	147	75	93	89	July 2017	15,911
Monroe	30	31	49	38	September 2017	17,296
Washtenaw	194	139	178	155	October 2017	31,401
Ingham	207	140	188	196	October 2017	18,999
Livingston	53	40	58	71	October 2017	9,659
Lapeer	53	51	55	37	October 2017	4,451
Sanilac	20	16	21	19	October 2017	2,656
Isabella	17	18	-	12	November 2017	2,674
Genesee	242	207	173	135	December 2017	21,115
Shiawassee	45	35	57	38	December 2017	5,542
Calhoun	75	33	47	51	January 2018	7,300
Grand Traverse	52	32	83	142	January 2018	5,605
Eaton	91	79	74	85	January 2018	7,809
Clinton	65	29	62	55	February 2018	5,635
Saginaw	444	409	90	84	February 2018	6,391
Mecosta	20	-	14	-	February 2018	1,124
Gratiot	26	29	29	24	March 2018	1,762
Midland	53	48	56	52	June 2018	3,392
Kent	402	341	432	394	November 2018	17,811
Cass	11	-	-	-	July 2019	97
Total	3,742	2,998	3,233	2,866	-	436,589

^a Includes hepatitis A and hepatitis A – hepatitis B vaccines.

^b Vaccination record submission to the MCIR for adults 20 years and older is strongly encouraged but is not required.

^c In the MCIR, there is no way to tell if the vaccine was administered in response to the outbreak.

^d MCIR dose counts may vary week to week due to historical dose entry and routine record deduplication. This may be more noticeable with doses administered at mobile clinic locations and if dose entry is performed offsite. Effective February 25, 2019, weekly county dose counts less than 10 are suppressed; suppressed doses are still included in the county total.

^e MCIR data as of September 21, 2019; data are updated weekly.

^f Based on the first-time county was included in the MDHHS outbreak summary and met outbreak county definition.

^g Outbreak doses are defined as doses administered and reported since the first month the county was included in the MDHHS hepatitis A outbreak county definition (≥ 2 (unrelated) outbreak strain cases).

Hepatitis A Immunization Rates in MCIR

Childhood Hepatitis A Rates		
Age	Number of doses	Rate
19-36 months	2 doses	60.0%
19-36 months	1 dose	82.8%
3-18 years	2 doses	78.9%
3-18 years	1 dose	85.1%



MDHHS

Michigan Department of Health & Human Services

Thank you and keep up the
good work.