

WIC PNSS & PedNSS

Run Date: 5/29/2024

Table 1C

2022 Pregnancy Nutrition Surveillance (1)

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Michigan

Summary of Demographic Indicators (2)

Total Records	Number	%
Complete Records	31,143	65.0
Prenatal Records	2,615	5.5
Postpartum Records	14,166	29.6
Total	47,924	

Source of Data	Number	%
WIC	47,924	100.0
Maternal Health	0	0.0
Other	0	0.0
Total	47,924	100.0
Excluded Unknown	0	0.0 %

Race/Ethnic Distribution	Number	%
White, Not Hispanic	24,755	51.8
Black, Not Hispanic	13,771	28.8
Hispanic	5,648	11.8
American Indian/Alaska Native	174	0.4
Asian/Pacific Islander	1,236	2.6
Multiple Races	2,186	4.6
All Other	0	0.0
Total	47,770	100.0
Excluded Unknown	149	0.3 %

Age Distribution	Number	%
< 15 Years	43	0.1
15 - 17 Years	777	1.6
18 - 19 Years	2,824	5.9
20 - 29 Years	28,059	59.0
30 - 39 Years	14,781	31.1
>= 40 Years	1,094	2.3
Total	47,578	100.0
Excluded Unknown:	346	0.7 %

Education Distribution	Number	%
< High School	9,076	19.4
High School	22,728	48.5
> High School	15,074	32.2
Total	46,878	100.1
Excluded Unknown	1,046	2.2 %

% of Poverty Level	Number	%
0 - 50	12,004	35.7
51 - 100	7,274	21.6
101 - 130	4,016	11.9
131 - 150	2,624	7.8
151 - 185	3,267	9.7
186 - 200	1,020	3.0
> 200	3,288	9.8
Adjunctive Eligibility	120	0.4
Total	33,613	100.0
Excluded Unknown	145	0.3 %

Program Participation (3)	Number	%
WIC	33,758	100.0
SNAP	33,676	45.6
Medicaid	33,570	87.9
Tanf	33,730	2.8
Excluded Unknown:		
WIC:	0	0.0
SNAP:	82	0.2
Medicaid:	188	0.4
Tanf:	28	0.1

Migrant Status	Number	%
Yes	375	0.8
No	47,549	99.2
Total	47,924	100.0
Excluded Unknown	0	0.0 %

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data or errors.

(3) Prenatal program participation

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Table 2C

2022 Pregnancy Nutrition Surveillance (1)

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Michigan

Summary of Health Indicators

Summary of Health Indicators (2)				
	Michigan Prevalence		National (7) Prevalence (Prior Year)	
	Number	%	Number	%
Prepregnancy BMI (3)				
Underweight	36,308	4.0	48,187	3.7
Normal Weight	36,308	33.8	48,187	34.1
Overweight	36,308	24.8	48,187	25.4
Obese	36,308	37.3	48,187	36.8
Maternal Weight Gain (4)				
Less Than Ideal	22,132	18.5	33,280	19.3
Ideal	22,132	29.7	33,280	30.0
Greater Than Ideal	22,132	51.9	33,280	50.7
Anemia (Low Hb/Hct) (5)				
1st Trimester	2,163	8.3	751	0.2
2nd Trimester	2,226	10.6	1,107	0.5
3rd Trimester	1,472	31.5	2,408	26.4
Postpartum	2,621	25.6	2,474	22.5
Parity (6)				
0	47,500	35.3	58,655	33.8
1	47,500	28.3	58,655	29.0
2	47,500	18.2	58,655	18.7
>= 3	47,500	18.2	58,655	18.4
Interpregnancy Interval				
<= 6 Months	21,390	12.8	25,077	12.2
6 - <18 Months	21,390	26.4	25,077	25.9
>= 18 Months	21,390	60.8	25,077	61.9
Gestational Diabetes	44,703	9.0	48,523	10.6
Hypertension During Pregnancy	44,728	14.3	48,164	13.8

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

(6) Number of times a woman has given birth to an infant 20 or more weeks gestation

(7) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Table 2C 2022 Pregnancy Nutrition Surveillance (1) Michigan Summary of Health Indicators

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Summary of Health Indicators (2)			
	Michigan Prevalence		National (7) Prevalence (Prior Year)
	Number	%	Number %
Medical Care			
1st Trimester	41,530	91.7	53,284 81.8
No Care	41,530	0.5	53,284 3.2
WIC Enrollment			
1st Trimester	46,804	26.8	52,379 24.5
2nd Trimester	46,804	27.6	52,379 24.7
3rd Trimester	46,804	17.4	52,379 24.3
Postpartum (3)	46,804	28.2	52,379 26.5
Prepregnancy Multivitamin Consumption (4)	42,624	23.1	48,576 23.1
Multivitamin Consumption During Pregnancy (5)	33,621	91.6	44,162 92.4
Smoking			
3 Months Prior to Pregnancy	33,554	17.5	49,474 24.1
During Pregnancy	33,598	9.4	45,905 14.1
Last 3 Months of Pregnancy	44,427	7.2	56,944 9.7
Postpartum	44,793	8.2	57,310 10.3
Smoking Changes (6)			
Quit Smoking by First Prenatal Visit	5,864	46.6	10,668 39.8
Quit Smoking by First Prenatal Visit and Stayed Off Cigarettes	5,392	42.2	9,950 32.6
Smoking in Household			
During Pregnancy	33,562	6.0	46,000 5.6
Postpartum	44,801	3.5	60,042 1.9
Drinking			
3 Months Prior to Pregnancy	47,293	17.2	57,461 16.8
Last 3 Months of Pregnancy	44,859	0.4	56,460 0.4

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Women who initially enrolled in WIC during the postpartum period.

(4) Women who reported taking a multivitamin four times a weeks or more in the month before pregnancy, proxy for folic acid consumption.

(5) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

(6) Among women who smoked 3 months prior to pregnancy.

(7) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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2022 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Health Indicators

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Summary of Health Indicators (2)				
	Michigan Prevalence		National (6) Prevalence (Prior Year)	
	Number	%	Number	%
Birthweight (3)				
Very Low	41,947	1.7	57,663	1.6
Low	41,947	9.7	57,663	9.2
Normal	41,947	82.6	57,663	82.7
High	41,947	5.9	57,663	6.5
Preterm (4)	43,460	13.2	58,093	13.0
Full term Low Birth Weight (5)	36,146	5.3	48,228	4.7
Multiple Births	44,627	1.9	61,457	1.7
Breastfeeding				
Ever Breastfed	42,370	75.5	58,053	70.8

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Very low birth weight (<1500 g), low birth weight (1500 - <2500 g), normal birth weight (2500 - <4000 g), high birth weight (>4000 g).

(4) <37 weeks gestation.

(5) 37 or more weeks gestation <2500 g.

(6) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Michigan

Comparison of Racial and Ethnic Distribution by Contributor to National (3)

Comparison of Racial and Ethnic Distribution (2)								
Contributor	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Michigan	47,919	51.7	28.7	11.8	0.4	2.6	4.6	0.3
National (Prior Year)	66,073	48.2	27.8	15.1	1.9	2.8	4.0	0.3

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors

(3) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

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Michigan

Comparison of Age Distribution by Contributor to National (3)

Comparison of Age Distribution (2)								
Contributor	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Michigan	47,924	0.1	1.6	5.9	58.5	30.8	2.3	0.7
National (Prior Year)	66,076	0.1	2.1	6.2	58.9	30.1	2.4	0.3

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors

(3) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

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Michigan

Comparison of Maternal Health Indicators by Contributor to National (6)

Comparison of Maternal Health Indicators (2)														
Contributor	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	(3)			(4)			(5)							
		Under-weight	Over-weight		< Ideal	> Ideal		3rd Trimester		Postpartum				
	Number	%	%	Number	%	%	Number	%	Number	%	Number	%	Number	%
Michigan	36,308	4.0	62.2	22,132	18.5	51.9	1,472	31.5	2,621	25.6	44,703	9.0	44,728	14.3
National (Prior Year)	48,187	3.7	62.1	33,280	19.3	50.7	2,408	26.4	2,474	22.5	48,523	10.6	48,164	13.8

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

(6) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Michigan

Comparison of Maternal Behavioral Indicators by Contributor to National (5)

Comparison of Maternal Behavioral Indicators (2)									
Contributor	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Pregnancy (3)		During Pregnancy (4)	
	Number	%	%	Number	%	Number	%	Number	%
Michigan	41,530	91.7	0.5	46,804	26.8	42,624	23.1	33,621	91.6
National (Prior Year)	53,284	81.8	3.2	52,379	24.5	48,576	23.1	44,162	92.4

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Woman who reported taking a multivitamin four times a weeks or more in the month before pregnancy: proxy for folic acid consumption.

(4) Pregnant women who reported tkaing a multivitamin in the past month; proxy for prenatal iron consumption.

(5) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

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Michigan

Comparison of Smoking Indicators by Contributor to National (4)

Comparison of Smoking Indicators ⁽²⁾										
Contributor	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes ⁽³⁾		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	%	Number	%	Number	%	Number	%	Number	%
Michigan	33,554	17.5	44,427	7.2	5,392	42.2	33,562	6.0	44,801	3.5
National (Prior Year)	49,474	24.1	56,944	9.7	9,950	32.6	46,000	5.6	60,042	1.9

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Among women who smoked 3 months prior to pregnancy.

(4) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

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Comparison of Infant Health Indicators by Contributor to National (7)

Comparison of Infant Health Indicators (2)									
Contributor	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (3)		High (4)	(5)		(6)			
	Number	%	%	Number	%	Number	%	Number	%
Michigan	41,947	11.5	5.9	43,460	13.2	36,146	5.3	42,370	75.5
National (Prior Year)	57,663	10.8	6.5	58,093	13.0	48,228	4.7	58,053	55.8

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

(7) National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

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Michigan

Maternal Health Indicators by Race/Ethnicity, Age, or Education

Maternal Health Indicators by Race/Ethnicity, Age, or Education (2)

Maternal Health Indicators by Race/Ethnicity, Age, or Education ⁽²⁾														
	Prepregnancy BMI ⁽³⁾			Weight Gain ⁽⁴⁾			Anemia (Low Hb/Hct) ⁽⁵⁾				Gestational Diabetes		Hypertension During Pregnancy	
	Number	%	%	Number	%	%	3rd Trimester		Postpartum					
Race/Ethnicity														
White, Not Hispanic	19,024	4.5	60.9	11,540	17.6	53.9	806	24.6	1,589	21.8	23,098	9.5	23,111	14.1
Black, Not Hispanic	10,698	3.7	64.2	6,778	18.1	51.1	254	50.4	442	37.1	12,963	7.0	12,967	16.7
Hispanic	3,863	2.3	66.2	2,108	22.2	47.2	290	31.4	401	27.2	5,260	10.4	5,266	12.0
American Indian/Alaska Native	148	3.4	60.8	101	22.8	54.5	9	*	16	*	158	15.2	158	7.6
Asian/Pacific Islander	857	4.8	47.5	564	28.4	32.3	33	*	53	*	1,185	17.6	1,185	5.5
Multiple Races	1,710	3.9	61.9	1,036	16.9	54.3	80	*	120	25.0	2,032	7.7	2,034	14.4
All Other/Unknown	4	*	*	3	*	*	0	*	0	*	2	*	2	*
Total	36,308	4.0	62.2	22,132	18.5	51.9	1,472	31.5	2,621	25.6	44,703	9.0	44,728	14.3
Age														
< 15 Years	30	*	*	14	*	*	2	*	0	*	37	*	37	*
15 - 17 Years	616	12.2	36.7	344	21.5	49.4	39	*	33	*	710	2.4	711	12.4
18 - 19 Years	2,250	9.2	46.5	1,262	18.0	52.6	104	37.5	151	33.8	2,613	2.8	2,611	13.9
20 - 29 Years	21,488	4.1	60.7	13,017	18.5	52.2	914	30.7	1,558	26.5	26,187	6.8	26,203	13.0
30 - 39 Years	10,915	2.2	69.6	6,891	18.3	51.2	369	31.2	786	23.5	13,842	14.0	13,852	16.6
>= 40 Years	757	1.2	72.7	460	18.5	51.1	30	*	66	*	1,000	19.9	999	20.7
Unknown	252	13.5	34.5	144	20.8	51.4	14	*	27	*	314	3.5	315	13.3
Total	36,308	4.0	62.2	22,132	18.5	51.9	1,472	31.5	2,621	25.6	44,703	9.0	44,728	14.3
Education														
< High School	6,328	5.2	58.2	3,733	21.5	48.9	309	35.3	418	30.1	8,480	8.5	8,487	12.8
High School	17,426	4.3	61.9	10,539	18.1	52.7	725	31.0	1,181	27.9	21,295	8.4	21,302	14.2
> High School	11,955	2.7	65.4	7,492	17.3	52.4	405	29.4	964	21.0	14,108	10.4	14,117	15.7
Excluded Unknown	599	8.5	47.7	368	20.1	45.4	33	*	58	*	820	7.6	822	12.5
Total	36,308	4.0	62.2	22,132	18.5	51.9	1,472	31.5	2,621	25.6	44,703	9.0	44,728	14.3

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Michigan

Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education

Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education (2)									
	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy (3)		During Pregnancy (4)	
	Number	%	%	Number	%	Number	%	Number	%
Race/Ethnicity									
White, Not Hispanic	21,292	94.0	0.4	24,162	30.4	22,635	26.6	17,695	92.5
Black, Not Hispanic	12,268	88.1	0.7	13,504	19.8	11,915	19.4	9,158	90.3
Hispanic	4,861	91.3	0.3	5,514	27.7	4,889	17.9	4,181	91.5
American Indian/Alaska Native	148	91.2	0.7	170	30.0	169	30.8	119	96.6
Asian/Pacific Islander	1,091	93.1	0.4	1,201	26.3	1,020	15.9	866	87.0
Multiple Races	1,864	90.9	0.6	2,133	28.3	1,990	22.4	1,599	91.4
All Other/Unknown	2	*	*	115	1.7	1	*	0	*
Total	41,530	91.7	0.5	46,804	26.8	42,624	23.1	33,621	91.6
Age									
< 15 Years	34	*	*	43	*	38	*	36	*
15 - 17 Years	650	79.1	1.4	769	29.6	692	11.6	624	89.4
18 - 19 Years	2,414	89.5	0.6	2,795	29.3	2,555	13.6	2,245	90.4
20 - 29 Years	24,335	92.3	0.4	27,455	25.9	24,959	22.0	19,770	91.3
30 - 39 Years	12,859	92.3	0.6	14,354	27.8	13,121	27.7	9,993	92.7
>= 40 Years	950	90.4	0.9	1,049	27.9	952	29.1	717	92.1
Unknown	288	77.1	2.8	339	23.9	307	14.3	236	82.2
Total	41,530	91.7	0.5	46,804	26.8	42,624	23.1	33,621	91.6
Education									
< High School	7,784	87.7	0.7	8,925	26.4	7,902	16.3	6,597	88.9
High School	19,816	91.4	0.5	22,252	27.1	20,277	21.2	16,210	91.3
> High School	13,186	95.1	0.3	14,639	27.1	13,641	30.2	10,255	94.0
Excluded Unknown	744	84.3	1.2	988	18.1	804	20.5	559	87.7
Total	41,530	91.7	0.5	46,804	26.8	42,624	23.1	33,621	91.6

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data for behavioral indicators, and data with errors for behavioral and demographic indicators.

(3) Woman who reported taking a multivitamin four a weeks or more in the month before pregnancy. proxy for folic acid consumption.

(4) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

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Michigan

Smoking Indicators by Race/Ethnicity, Age, or Education

Smoking Indicators by Race/Ethnicity, Age, or Education (2)										
	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	%	Number	%	Number	%	Number	%	Number	%
Race/Ethnicity										
White, Not Hispanic	17,656	23.0	22,820	10.5	3,722	36.8	17,676	6.8	23,151	4.3
Black, Not Hispanic	9,137	11.1	12,994	3.4	941	57.0	9,140	5.8	13,002	2.6
Hispanic	4,175	9.3	5,247	3.0	356	55.6	4,157	3.2	5,263	2.1
American Indian/Alaska Native	119	36.1	157	17.2	37	*	118	11.0	159	4.4
Asian/Pacific Islander	867	1.2	1,187	0.1	11	*	867	1.4	1,185	1.2
Multiple Races	1,597	22.1	2,015	9.1	324	44.8	1,601	7.6	2,033	4.6
All Other/Unknown	0	*	2	*	0	*	0	*	3	*
Total	33,554	17.5	44,427	7.2	5,392	42.2	33,562	6.0	44,801	3.5
Age										
< 15 Years	35	*	38	*	3	*	36	*	38	*
15 - 17 Years	621	9.0	705	1.3	55	*	623	13.6	714	5.5
18 - 19 Years	2,228	14.0	2,583	3.2	294	62.2	2,240	12.1	2,611	5.2
20 - 29 Years	19,733	17.1	26,001	6.5	3,118	44.6	19,743	5.5	26,249	3.4
30 - 39 Years	9,985	19.8	13,784	9.7	1,793	33.7	9,972	4.8	13,870	3.2
>= 40 Years	716	17.9	1,001	8.3	105	37.1	715	5.6	1,001	2.5
Unknown	236	11.4	315	2.9	24	*	233	15.0	318	5.7
Total	33,554	17.5	44,427	7.2	5,392	42.2	33,562	6.0	44,801	3.5
Education										
< High School	6,584	23.3	8,392	11.8	1,396	33.7	6,571	8.4	8,501	4.9
High School	16,170	18.6	21,143	7.4	2,780	43.4	16,189	6.1	21,352	3.7
> High School	10,244	12.3	14,071	4.5	1,148	49.0	10,247	4.0	14,124	2.2
Excluded Unknown	556	12.8	821	3.9	68	*	555	9.5	824	4.4
Total	33,554	17.5	44,427	7.2	5,392	42.2	33,562	6.0	44,801	3.5

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data for smoking indicators, and data with errors for smoking and demographic indicators.

(3) Among women who smoked 3 months prior to pregnancy.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

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Infant Health Indicators by Race/Ethnicity, Age, or Education

Infant Health Indicators by Race/Ethnicity, Age, or Education (2)									
	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
	Low (3)	High (4)							
	Number	%	%	Number	%	Number	%	Number	%
Race/Ethnicity									
White, Not Hispanic	21,645	9.5	7.1	22,392	11.9	18,918	4.1	21,864	80.1
Black, Not Hispanic	12,242	16.2	3.7	12,674	16.1	10,190	8.0	12,325	66.1
Hispanic	4,938	8.3	6.8	5,102	12.0	4,316	3.9	5,002	76.8
American Indian/Alaska Native	141	7.8	10.6	152	11.2	123	2.4	142	80.3
Asian/Pacific Islander	1,102	13.9	4.0	1,151	12.0	960	9.6	1,128	80.4
Multiple Races	1,874	10.9	5.2	1,983	12.6	1,635	4.8	1,904	78.6
All Other/Unknown	1	*	*	2	*	1	*	1	*
Total	41,947	11.5	5.9	43,460	13.2	36,146	5.3	42,370	75.5
Age									
< 15 Years	34	*	*	37	*	29	*	34	*
15 - 17 Years	672	11.0	2.1	694	14.8	566	6.0	679	67.2
18 - 19 Years	2,473	9.2	3.9	2,573	11.8	2,164	5.6	2,488	72.3
20 - 29 Years	24,762	9.1	5.7	25,600	11.9	21,658	5.1	24,978	76.2
30 - 39 Years	12,845	10.6	7.0	13,342	15.4	10,801	5.6	13,006	75.7
>= 40 Years	870	11.6	5.6	909	20.1	686	5.8	888	73.4
Unknown	291	16.2	2.4	305	16.1	242	8.3	297	67.3
Total	41,947	11.5	5.9	43,460	13.2	36,146	5.3	42,370	75.5
Education									
< High School	7,768	10.8	4.7	8,233	13.9	6,632	6.0	7,909	65.2
High School	20,071	9.9	5.6	20,713	13.0	17,320	5.6	20,234	73.7
> High School	13,360	8.8	7.2	13,715	13.0	11,555	4.6	13,450	84.4
Excluded Unknown	748	11.8	3.1	799	14.0	639	6.6	777	75.9
Total	41,947	11.5	5.9	43,460	13.2	36,146	5.3	42,370	75.5

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Michigan

Maternal Weight Gain and Birth Outcomes by Select Health Indicators

Maternal Weight Gain and Birth Outcomes by Select Health Indicators (2)										
	Weight Gain (3)			Birthweight			Preterm (6)		Full Term LBW (7)	
	< Ideal	> Ideal		Low (4)	High (5)					
	Number	%	%	Number	%	%	Number	%	Number	%
Prepregnancy BMI										
Underweight	900	26.8	31.4	1,263	17.3	1.7	1,314	14.3	1,074	10.6
Normal Weight	7,727	24.6	41.6	10,829	12.4	3.8	11,195	12.7	9,370	6.1
Overweight	5,601	11.9	60.0	8,050	10.5	6.3	8,272	12.1	7,041	5.2
Obese	7,904	16.2	58.4	12,136	10.4	7.8	12,441	14.0	10,368	4.2
Weight Gain										
< Ideal	-	-	-	3,836	17.3	3.1	3,934	16.9	3,159	8.5
Ideal	-	-	-	6,251	12.5	4.2	6,435	13.4	5,382	6.2
> Ideal	-	-	-	10,970	8.6	7.9	11,248	11.4	9,642	3.6
Smoking During Pregnancy										
Smokers	1,339	19.9	50.9	2,583	14.2	3.6	2,733	14.4	2,205	6.8
Non-Smokers	12,597	17.4	52.9	26,359	9.6	6.2	27,282	12.4	23,057	4.6

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

(7) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Table 14C

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Summary of Trends in Racial and Ethnic Distribution

Summary of Trends in Racial and Ethnic Distribution (2)

Year	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
2022	47,919	51.7	28.7	11.8	0.4	2.6	4.6	0.3
2021	48,337	51.3	30.0	11.3	0.3	2.4	4.5	0.3
2020	50,034	50.8	30.8	10.9	0.4	2.3	4.6	0.3
2019	54,099	51.1	30.6	10.6	0.4	2.1	4.8	0.4
2018	55,407	51.7	29.9	10.5	0.4	2.1	4.9	0.5
2017	57,669	52.1	30.4	10.4	0.3	2.3	4.0	0.5
2016	60,139	53.6	28.9	10.6	0.3	2.1	4.0	0.5
2015	63,103	54.0	29.0	10.2	0.4	2.1	3.6	0.8
2014	65,941	55.7	28.0	9.7	0.4	2.0	3.6	0.6
2013	67,256	55.5	28.3	9.9	0.4	2.0	3.5	0.6
2012	67,977	56.2	27.5	10.0	0.4	1.9	3.4	0.6
2011	68,267	57.0	27.3	10.0	0.4	1.7	2.9	0.6

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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2022 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Trends in Age Distribution

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Summary of Trends in Age Distribution (2)								
Year	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
2022	47,924	0.1	1.6	5.9	58.5	30.8	2.3	0.7
2021	48,337	0.1	2.0	6.3	59.7	29.4	2.2	0.4
2020	50,036	0.1	2.2	6.8	60.6	27.9	2.1	0.3
2019	54,102	0.1	2.4	7.4	61.8	26.1	2.0	0.2
2018	55,413	0.1	2.6	7.7	62.5	25.1	2.0	0.1
2017	57,676	0.1	2.8	7.7	63.1	24.3	1.8	0.1
2016	60,143	0.1	3.0	7.9	63.4	23.7	1.8	0.1
2015	63,108	0.1	3.2	8.4	63.8	22.8	1.6	0.2
2014	65,945	0.2	3.4	9.1	63.5	22.1	1.7	0.2
2013	67,261	0.2	3.9	9.8	63.1	21.2	1.6	0.2
2012	67,977	0.2	4.5	10.7	62.2	20.5	1.5	0.3
2011	68,267	0.2	4.9	11.5	61.7	19.9	1.5	0.3

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Table 16C

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Michigan

Summary of Trends in Maternal Health Indicators

Summary of Trends in Maternal Health Indicators (2)										
Year	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct) (5)			
	(3)			(4)						
	Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
	Number	%	%	Number	%	%	Number	%	Number	%
2022	36,308	4.0	62.2	22,132	18.5	51.9	1,472	31.5	2,621	25.6
2021	35,616	3.8	62.1	21,801	17.6	53.3	608	32.1	1,368	23.8
2020	36,925	4.0	60.9	21,575	18.2	52.2	2,834	39.8	956	30.9
2019	43,733	4.2	60.6	27,372	19.1	51.5	9,098	45.0	12,203	30.7
2018	45,296	4.3	59.5	29,118	19.1	51.0	9,090	49.4	12,050	37.9
2017	47,111	4.3	58.8	31,292	19.1	51.9	9,416	49.2	11,325	36.6
2016	51,019	4.4	58.1	33,141	19.4	51.2	9,642	45.1	12,082	34.6
2015	53,616	4.4	56.8	44,468	19.6	50.7	9,750	41.4	12,310	31.6
2014	56,540	4.3	56.3	45,714	17.2	52.3	9,959	39.6	12,485	28.7
2013	58,063	4.3	56.0	46,728	16.9	52.4	9,903	38.9	11,995	28.7
2012	61,321	4.4	54.9	48,759	17.4	51.3	9,736	38.4	12,636	27.9
2011	62,450	4.4	54.4	50,780	17.6	51.0	10,073	35.7	13,689	27.5

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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2022 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Maternal Behavioral Indicators

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Summary of Maternal Behavioral Indicators (2)					
Year	Medical Care			WIC Enrollment	
	1st Trimester		No Care	1st Trimester	
	Number	%	%	Number	%
2022	41,530	91.7	0.5	46,804	26.8
2021	42,342	90.6	2.0	47,286	27.0
2020	45,167	85.6	6.4	49,385	29.3
2019	49,415	84.9	6.6	53,324	28.5
2018	50,875	84.3	6.8	54,591	29.4
2017	53,045	83.1	7.7	56,717	30.6
2016	54,902	82.2	8.4	59,189	32.4
2015	57,579	81.1	9.4	62,203	34.1
2014	60,317	79.7	10.8	64,954	35.7
2013	61,039	79.9	10.5	66,266	36.9
2012	61,308	79.8	10.6	67,036	38.0
2011	60,703	81.1	9.2	67,132	36.7

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Summary of Trends in Smoking Indicators

Summary of Trends in Smoking Indicators ⁽²⁾										
Year	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes ⁽³⁾		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	%	Number	%	Number	%	Number	%	Number	%
2022	33,554	17.5	44,427	7.2	5,392	42.2	33,562	6.0	44,801	3.5
2021	35,714	19.7	44,742	9.2	6,188	42.4	33,791	6.1	44,858	1.9
2020	43,650	22.6	45,656	11.5	7,693	39.4	36,252	8.6	45,631	2.0
2019	47,367	24.7	49,881	13.5	9,363	38.4	39,647	10.1	49,826	2.9
2018	48,601	26.1	51,441	13.9	10,331	38.9	40,995	10.4	51,462	3.0
2017	51,028	27.1	53,711	14.1	11,398	39.3	43,712	11.3	53,738	3.2
2016	53,738	28.6	55,530	15.1	12,776	39.3	46,598	11.9	55,576	3.4
2015	56,882	30.6	58,245	15.8	14,580	39.6	49,656	13.4	58,264	4.2
2014	60,217	32.0	61,120	16.4	16,301	39.4	52,726	14.6	61,124	4.5
2013	62,025	32.3	61,793	16.8	18,044	36.4	54,649	15.1	61,835	5.0
2012	63,072	32.4	61,988	16.9	16,769	38.6	55,380	16.0	61,994	4.9
2011	64,049	32.8	61,427	16.9	16,751	39.5	55,787	16.8	61,403	5.5

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Prenatal program participation

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Summary of Trends in Infant Health Indicators

Summary of Trends in Infant Health Indicators (2)									
Year	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (3)		High (4)	(5)		(6)			
	Number	%	%	Number	%	Number	%	Number	%
2022	41,947	11.5	5.9	43,460	13.2	36,146	5.3	42,370	75.5
2021	41,563	11.5	6.3	43,647	13.2	35,837	5.2	41,966	69.0
2020	42,825	10.8	6.1	44,372	12.6	37,125	4.8	43,607	64.8
2019	47,135	10.4	6.4	48,449	12.5	40,866	4.5	47,531	67.8
2018	48,594	10.2	6.7	49,968	12.5	42,176	4.5	48,971	67.7
2017	50,526	10.2	6.7	52,025	12.4	43,785	4.3	51,003	66.7
2016	52,145	9.8	6.9	53,729	12.3	45,193	4.2	52,506	66.2
2015	54,702	9.7	6.9	56,532	11.9	47,832	4.2	54,837	65.1
2014	57,572	9.0	7.0	59,292	11.8	50,471	3.8	57,574	63.6
2013	58,028	8.7	7.2	59,882	11.5	50,981	3.7	58,101	63.1
2012	58,368	8.8	7.3	60,111	12.1	50,877	3.7	58,753	61.2
2011	58,040	8.6	7.1	59,523	11.7	50,780	3.6	58,401	60.5

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2)											
Race/Ethnicity	Year	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct) (5)			
		(3)			(4)						
		Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
White, Not Hispanic	2022	19,024	4.5	60.9	11,540	17.6	53.9	806	24.6	1,589	21.8
	2021	18,598	4.2	60.3	11,546	16.7	53.9	296	24.7	768	20.6
	2020	19,218	4.5	58.7	11,561	16.5	53.4	1,363	31.9	533	23.1
	2019	22,546	4.6	58.7	14,128	17.5	52.7	4,351	35.0	6,717	23.2
Black, Not Hispanic	2022	10,698	3.7	64.2	6,778	18.1	51.1	254	50.4	442	37.1
	2021	10,914	3.4	64.7	6,648	17.8	54.4	125	49.6	236	38.6
	2020	11,268	3.4	63.5	6,440	19.3	52.3	1,005	52.1	226	50.9
	2019	13,399	3.7	63.1	8,438	19.9	52.9	3,126	60.9	3,274	45.9

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds, obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Michigan

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2)											
Race/Ethnicity	Year	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct) (5)			
		(3)			(4)						
		Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
Hispanic	2022	3,863	2.3	66.2	2,108	22.2	47.2	290	31.4	401	27.2
	2021	3,636	2.6	67.0	2,104	21.5	49.3	131	32.1	236	19.5
	2020	3,814	2.5	66.8	2,051	21.6	47.9	284	34.9	128	28.9
	2019	4,605	2.6	67.1	2,862	22.8	45.5	981	38.2	1,282	30.9
American Indian/Alaska Native	2022	148	3.4	60.8	101	22.8	54.5	9	*	16	*
	2021	133	3.0	60.9	77	*	*	1	*	4	*
	2020	143	2.1	63.6	77	*	*	8	*	2	*
	2019	160	6.9	61.9	89	*	*	24	*	43	*

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2)											
Race/Ethnicity	Year	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct) (5)			
		(3)			(4)						
		Under-weight	Over-weight		< Ideal	> Ideal		3rd Trimester	Postpartum		
		Number	%	%	Number	%	%	Number	%	Number	%
Asian/Pacific Islander	2022	857	4.8	47.5	564	28.4	32.3	33	*	53	*
	2021	695	5.2	44.7	430	29.3	31.9	20	*	49	*
	2020	696	7.0	42.8	397	29.0	31.0	56	*	18	*
	2019	881	7.4	39.4	568	26.6	29.6	170	38.2	287	28.9
Multiple Races	2022	1,710	3.9	61.9	1,036	16.9	54.3	80	*	120	25.0
	2021	1,639	4.1	61.2	996	14.7	57.4	35	*	75	*
	2020	1,784	4.0	61.7	1,048	18.8	54.3	118	39.8	49	*
	2019	2,136	4.4	60.9	1,284	18.8	52.9	446	48.4	598	31.6

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Michigan

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2)											
Race/Ethnicity	Year	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct) (5)			
		(3)			(4)						
		Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
All Other/Unknown	2022	4	*	*	3	*	*	0	*	0	*
	2021	1	*	*	0	*	*	0	*	0	*
	2020	0	*	*	0	*	*	0	*	0	*
	2019	3	*	*	1	*	*	0	*	2	*
Total All Race/Ethnic Groups	2022	36,308	4.0	62.2	22,132	18.5	51.9	1,472	31.5	2,621	25.6
	2021	35,616	3.8	62.1	21,801	17.6	53.3	608	32.1	1,368	23.8
	2020	36,925	4.0	60.9	21,575	18.2	52.2	2,834	39.8	956	30.9
	2019	43,733	4.2	60.6	27,372	19.1	51.5	9,098	45.0	12,203	30.7

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

(4) Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity	Year	Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
White, Not Hispanic	2022	21,292	94.0	0.4	24,162	30.4
	2021	21,617	92.2	2.2	24,224	30.1
	2020	22,936	86.6	7.7	25,115	32.8
	2019	25,289	86.5	7.7	27,266	31.7
Black, Not Hispanic	2022	12,268	88.1	0.7	13,504	19.8
	2021	12,957	88.4	1.4	14,217	21.0
	2020	14,068	84.2	4.0	15,206	22.4
	2019	15,338	82.8	4.2	16,325	21.3

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity	Year	Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
Hispanic	2022	4,861	91.3	0.3	5,514	27.7
	2021	4,758	88.3	2.3	5,319	28.0
	2020	4,915	84.0	7.5	5,354	32.7
	2019	5,240	83.3	8.1	5,672	32.9
American Indian/Alaska Native	2022	148	91.2	0.7	170	30.0
	2021	135	89.6	2.2	154	34.4
	2020	158	87.3	5.1	182	30.8
	2019	170	85.3	8.2	189	34.4

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity	Year	Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
Asian/Pacific Islander	2022	1,091	93.1	0.4	1,201	26.3
	2021	1,023	95.6	1.2	1,119	26.0
	2020	1,042	90.7	5.0	1,133	27.8
	2019	1,064	91.0	5.4	1,136	32.0
Multiple Races	2022	1,864	90.9	0.6	2,133	28.3
	2021	1,848	90.7	2.4	2,114	30.1
	2020	2,046	85.1	7.0	2,266	31.0
	2019	2,309	83.3	6.6	2,533	31.3

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity	Year	Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
All Other/Unknown	2022	2	*	*	115	1.7
	2021	4	*	*	139	0.7
	2020	0	*	*	127	3.9
	2019	2	*	*	200	1.0
Total All Race/Ethnic Groups	2022	41,530	91.7	0.5	46,804	26.8
	2021	42,342	90.6	2.0	47,286	27.0
	2020	45,167	85.6	6.4	49,385	29.3
	2019	49,415	84.9	6.6	53,324	28.5

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity (2)											
Race/Ethnicity	Year	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
White, Not Hispanic	2022	17,656	23.0	22,820	10.5	3,722	36.8	17,676	6.8	23,151	4.3
	2021	18,560	26.0	22,898	13.3	4,224	36.4	17,526	6.9	23,028	2.1
	2020	22,877	29.2	23,142	16.7	5,158	34.1	18,886	9.2	23,138	2.0
	2019	24,850	31.9	25,511	19.2	6,274	32.6	20,589	10.5	25,500	2.8
Black, Not Hispanic	2022	9,137	11.1	12,994	3.4	941	57.0	9,140	5.8	13,002	2.6
	2021	10,392	12.4	13,552	4.3	1,139	58.9	9,833	6.4	13,547	1.9
	2020	12,753	15.0	14,222	5.6	1,534	53.6	10,548	9.3	14,219	2.5
	2019	13,854	16.4	15,488	6.7	1,892	54.2	11,523	11.7	15,469	3.4

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity ⁽²⁾											
Race/Ethnicity	Year	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes ⁽³⁾		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
Hispanic	2022	4,175	9.3	5,247	3.0	356	55.6	4,157	3.2	5,263	2.1
	2021	4,151	10.5	5,091	3.8	400	58.0	3,945	3.1	5,074	1.1
	2020	4,799	12.2	4,984	4.5	470	55.5	4,116	4.5	4,976	1.0
	2019	5,158	13.0	5,299	5.6	553	52.4	4,540	4.7	5,278	1.6
	American Indian/Alaska Native	2022	119	36.1	157	17.2	37	*	118	11.0	159
	2021	127	43.3	139	25.2	45	*	121	5.8	139	4.3
	2020	168	44.0	159	22.6	54	*	138	18.1	159	3.1
	2019	174	44.8	170	30.0	62	*	148	10.8	171	6.4

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity (2)											
Race/Ethnicity	Year	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
Asian/Pacific Islander	2022	867	1.2	1,187	0.1	11	*	867	1.4	1,185	1.2
	2021	852	1.1	1,086	0.9	8	*	789	1.4	1,085	0.8
	2020	1,062	2.7	1,073	0.7	24	*	847	1.8	1,069	0.7
	2019	1,058	3.2	1,077	1.1	18	*	851	3.1	1,076	2.3
	Multiple Races	2022	1,597	22.1	2,015	9.1	324	44.8	1,601	7.6	2,033
	2021	1,632	25.6	1,972	12.0	372	44.6	1,577	6.0	1,981	2.1
	2020	1,989	29.1	2,074	16.1	453	35.1	1,716	11.1	2,068	2.2
	2019	2,266	30.7	2,331	17.6	562	35.2	1,992	12.9	2,327	3.6

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity ⁽²⁾											
Race/Ethnicity	Year	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes ⁽³⁾		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
All Other/Unknown											
	2022	0	*	2	*	0	*	0	*	3	*
	2021	0	*	4	*	0	*	0	*	4	*
	2020	0	*	0	*	0	*	0	*	0	*
	2019	4	*	2	*	0	*	2	*	2	*
Total All Race/Ethnic Groups											
	2022	33,554	17.5	44,427	7.2	5,392	42.2	33,562	6.0	44,801	3.5
	2021	35,714	19.7	44,742	9.2	6,188	42.4	33,791	6.1	44,858	1.9
	2020	43,650	22.6	45,656	11.5	7,693	39.4	36,252	8.6	45,631	2.0
	2019	47,367	24.7	49,881	13.5	9,363	38.4	39,647	10.1	49,826	2.9

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity ⁽²⁾										
Race/Ethnicity	Year	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)						
		Number	%	%	Number	%	Number	%	Number	%
White, Not Hispanic	2022	21,645	9.5	7.1	22,392	11.9	18,918	4.1	21,864	80.1
	2021	21,281	9.5	7.9	22,377	11.8	18,642	4.0	21,510	73.5
	2020	21,714	8.7	7.6	22,434	10.9	19,212	3.6	22,058	69.8
	2019	24,085	8.4	8.1	24,733	11.0	21,257	3.4	24,266	72.3
Black, Not Hispanic	2022	12,242	16.2	3.7	12,674	16.1	10,190	8.0	12,325	66.1
	2021	12,585	16.0	3.4	13,183	16.0	10,491	7.8	12,653	59.5
	2020	13,398	15.0	3.4	13,902	15.6	11,200	6.9	13,622	54.7
	2019	14,676	14.6	3.4	15,109	15.5	12,281	6.6	14,849	58.1

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Michigan

Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity	Year	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)						
		Number	%	%	Number	%	Number	%	Number	%
Hispanic	2022	4,938	8.3	6.8	5,102	12.0	4,316	3.9	5,002	76.8
	2021	4,775	8.6	7.7	4,961	12.6	4,149	3.6	4,832	70.6
	2020	4,620	7.8	7.3	4,818	11.7	4,040	3.3	4,758	68.7
	2019	5,004	7.7	7.2	5,117	11.6	4,380	3.2	5,029	71.2
American Indian/Alaska Native	2022	141	7.8	10.6	152	11.2	123	2.4	142	80.3
	2021	113	6.2	11.5	132	11.4	99	*	114	71.1
	2020	150	8.7	8.7	154	11.7	128	4.7	151	69.5
	2019	157	7.6	14.0	162	13.6	131	3.8	158	69.6

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity ⁽²⁾										
Race/Ethnicity	Year	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)	High (4)							
		Number	%	%	Number	%	Number	%	Number	%
Asian/Pacific Islander	2022	1,102	13.9	4.0	1,151	12.0	960	9.6	1,128	80.4
	2021	983	13.5	3.2	1,060	11.5	865	8.1	1,014	76.9
	2020	976	12.9	3.6	1,037	10.6	861	7.7	1,023	71.1
	2019	1,017	10.7	4.2	1,051	10.9	899	6.0	1,022	79.4
Multiple Races	2022	1,874	10.9	5.2	1,983	12.6	1,635	4.8	1,904	78.6
	2021	1,823	9.9	7.0	1,930	12.7	1,589	4.6	1,839	72.8
	2020	1,965	11.6	6.1	2,025	13.3	1,683	5.0	1,993	66.5
	2019	2,193	10.6	6.1	2,272	12.1	1,916	5.1	2,202	70.0

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions

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Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity ⁽²⁾										
Race/Ethnicity	Year	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)						
		Number	%	%	Number	%	Number	%	Number	%
All Other/Unknown	2022	1	*	*	2	*	1	*	1	*
	2021	3	*	*	4	*	2	*	4	*
	2020	0	*	*	0	*	0	*	0	*
	2019	0	*	*	2	*	0	*	2	*
Total All Race/Ethnic Groups										
	2022	41,947	11.5	5.9	43,460	13.2	36,146	5.3	42,370	75.5
	2021	41,563	11.5	6.3	43,647	13.2	35,837	5.2	41,966	69.0
	2020	42,825	10.8	6.1	44,372	12.6	37,125	4.8	43,607	64.8
	2019	47,135	10.4	6.4	48,449	12.5	40,866	4.5	47,531	67.8

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions