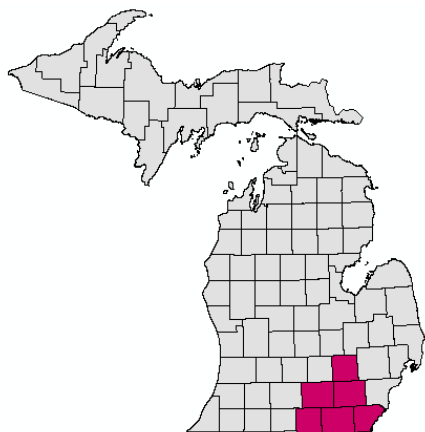


# Birth Defects Profile in Michigan Prosperity Region 9

(Hillsdale, Jackson, Lenawee, Livingston, Monroe, and Washtenaw counties)



## Michigan Birth Defects Registry (MBDR)

- ❖ By law, hospitals and medical labs report certain health conditions affecting children at birth or up to 2 years of age.
- ❖ MBDR information is confidential. It is used to:
  - ❖ Calculate baseline rates.
  - ❖ Analyze trends.
  - ❖ Identify and respond to public health concerns.
- ❖ MBDR data helps us understand health and development needs, identify causes, and share prevention strategies.

## Birth Defects in Region 9 (2013-2019)

- ❖ An average of 10,244 infants born in Region 9 each year.
- ❖ Approximately 1,470 of these infants were born with a birth defect each year.
- ❖ Hypospadias and Trisomy 21 were the most prevalent birth defects in Michigan and Prosperity Region 9 (Table 1).
- ❖ The prevalence of hypospadias was higher in Prosperity Region 9 [45.3 (95% Confidence Interval (CI): 40.41-50.24)] than Michigan as a whole [39.0 (95% CI: 37.64-40.40)].
- ❖ The prevalence of all other birth defects was similar between Prosperity Region 9 and Michigan as a whole.

**Table 1. Prevalence of Selected Birth Defects within Prosperity Region 9 and the State of Michigan, 2013-2019**

Birth Defect	Prosperity Region 9		Michigan	
	Number of Cases	Prevalence (per 10,000 live births)	Number of Cases	Prevalence (per 10,000 live births)
Anencephaly	--*	--*	69	0.9
Cleft Lip with Cleft Palate	41	5.7	517	6.6
Cleft Lip without Cleft Palate	22	3.1	264	3.4
Cleft Palate without Cleft Lip	69	9.6	541	6.9
Gastroschisis	26	3.6	321	4.1
Hypoplastic Left Heart Syndrome	22	3.1	308	3.9
Hypospadias	325	45.3	3052	39.0
Limb Deficiencies	28	3.9	308	3.9
Spina Bifida	29	4.0	326	4.2
Tetralogy of Fallot	36	5.0	406	5.2
Transposition of the Great Arteries	39	5.4	298	3.8
Trisomy 21	90	12.6	1010	12.9
<b>Total Number of Live Births</b>	<b>71,707</b>		<b>782,227</b>	

## MBDR Data Limitations and Cautions

- Data are based on passive reporting, which means MBDR relies on facilities to identify and report cases of birth defects. Getting all facilities to report complete and timely data can be a challenge.
- Some facilities report children with a birth defect that is later “ruled out” resulting in an overcount of the actual number of cases.
- Children diagnosed and treated in facilities in other states may be missed, which will significantly affect the completeness of data for Michigan’s border counties.

# Birth Characteristics among all Mothers and Babies

Between 2013 and 2019, roughly **10,244** babies were born in Prosperity Region 9 each year.

During an average year in Prosperity Region 9:

## Mother's Race and Ethnicity

- ❖ **8,030**, or **78 percent** of, infants were born to **white, non-Hispanic** mothers.
- ❖ **780**, or **8 percent** of, infants were born to **Black, non-Hispanic** mothers.
- ❖ **930**, or **9 percent** of, infants were born to **all other non-Hispanic** mothers.
- ❖ **510**, or **5 percent** of, infants were born to **Hispanic** mothers.



## Mom's Socioeconomic and Educational Status

- ❖ **3,270**, or **32 percent** of, all births reported **Medicaid** as the intended payer.
- ❖ **790**, or **8 percent** of, infants were born to mothers with **less than a high school** education.
- ❖ **2,050**, or **20 percent** of, infants were born to mothers who had a **high school** education.
- ❖ **3,150**, or **31 percent** of, infants were born to mothers who had **some college** or an **associate degree**.
- ❖ **3,880**, or **38 percent** of, infants were born to mothers who had a **college degree**.

## Mom's Age

- ❖ **450**, or **4 percent** of, infants were born to **teenage** mothers (15 to 19 years).
- ❖ **7,970**, or **78 percent** of, infants were born to mothers **20 to 34 years of age**.
- ❖ **1,670**, or **16 percent** of, infants were born to mothers **35 years of age** or older.

## Mom and Baby Health Before, During, and After Pregnancy

- ❖ **5,150**, or **50 percent** of, infants were born to mothers who were **overweight** or **obese**.
- ❖ **1,710**, or **17 percent** of, infants were born to mothers who **used tobacco** during pregnancy.
- ❖ **1,090**, or **11 percent** of, infants were **born prematurely**.
- ❖ **730**, or **7 percent** of, infants were born at a low **birth weight**.
- ❖ **80**, or **less than 1 percent** of, infants were born to mothers who had **pre-pregnancy diabetes type 1 or type 2**.

Data source: Michigan resident live birth files, MDHHS, Division of Vital Records and Health Statistics, 2013-2019.

