Birth Defects Profile in Michigan Prosperity Region 6

(Genesee, Huron, Lapeer, Saint Clair, Sanilac, Shiawassee, and Tuscola Counties)



Birth Defects in Region 6 (2011-2017)

- There were roughly 9,300 infants born in Region 6 each year.
- Just over 1,100 of these infants were born with a birth defect.
- Hypospadias and Trisomy 21 were the most prevalent birth defects in Michigan and Prosperity Region 6 (Table 1).
- The prevalence of hypospadias is lower in Prosperity Region 6 [28.7 (95% Confidence Interval (CI): 24.6-32.8)] than Michigan as a whole [39.3 (95% CI: 37.9-40.7)].
- The prevalence of all other birth defects was similar between Prosperity Region 6 and Michigan as a whole.

Michigan Birth Defects Registry (MBDR)

- By law, hospitals and medical labs report certain health conditions affecting Michigan born babies 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

Table 1. Prevalence of Selected Birth Defects within Prosperity Region 6 andthe State of Michigan, 2011-2017

	Prosperity Region 6		Michigan	
Birth Defect	Number of Cases	Prevalence (per 10,000 live births)	Number of Cases	Prevalence (per 10,000 live births)
Anencephaly	*	*	79	1.0
Cleft Lip with Cleft Palate	57	8.8	597	7.5
Cleft Lip without Cleft Palate	24	3.7	292	3.7
Cleft Palate without Cleft Lip	42	6.5	589	7.4
Gastroschisis	44	6.8	362	4.6
Hypoplastic Left Heart Syndrome	32	4.9	333	4.2
Hypospadias	186	28.7	3,116	39.3
Limb Deficiencies	29	4.5	360	4.5
Spina Bifida	35	5.4	363	4.6
Tetralogy of Fallot	42	6.5	443	5.6
Transposition of the Great Arteries	33	5.1	408	5.1
Trisomy 21	88	13.6	1,071	13.5
Total Number of Live Births	64,775		793,151	
* Data suppressed due to birth defects counts of less than six.				

MBDR Data Limitations and Cautions

- Data are based on passive reporting which means it is the responsibility of facilities to identify and report cases of birth defects. Not all facilities report cases as completely and timely as would be the ideal.
- Some facilities report children with a birth defect that is later "ruled out" resulting in an over count 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 boarder counties.

Birth Characteristics among all Mothers and Babies

Between 2011 and 2017, roughly 9,300 babies were born in Prosperity Region 6 each year.

During an average year in Prosperity Region 6:

Mom's Race and Ethnicity

- 7,170 or 77 percent of infants were born to white, non-Hispanic mothers.
- 1,460 or 16 percent of infants were born to Black, non-Hispanic mothers.
- 270 or 3 percent of infants were born to all other non-Hispanic mothers.
- 350 or 4 percent of infants were born to Hispanic mothers.

Mom's Socioeconomic and Educational Status

- 5,000 or 53 percent of all births reported Medicaid as the intended payer.
- 1,300 or 14 percent of infants were born to mothers with less than a high school education.
- 2,400 or 27 percent of infants were born to mothers that had a high school education.
- 3,800 or 41 percent of infants were born to mothers that had some college or an associate degree.
- 1,700 or 18 percent of infants were born to mothers that had a college degree.

Data source: Michigan resident live birth files, MDHHS, Division of Vital Records and Health Statistics, 2011-2017.





Mom's Age

- 780 or 8 percent of infants were born to teenage mothers (15 to 19 years).
- 7,500 or 81 percent of infants were born to mothers of reproductive age (20 to 34 years).
- 970 or 11 percent of infants were born to mothers 35 years of age or older.

Mom and Baby

Health Before, During, and After Pregnancy

- 4,900 or 53 percent of infants were born to mothers who were overweight or obese.
- 2,200 or 24 percent of infants were born to mothers that used tobacco during pregnancy.
- 1,000 or 11 percent of infants were born prematurely.
- 830 or 9 percent of infants were born at a low birth weight.
- 88 or 1 percent of infants were born to mothers who had pre-pregnancy diabetes type 1 or type 2.



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