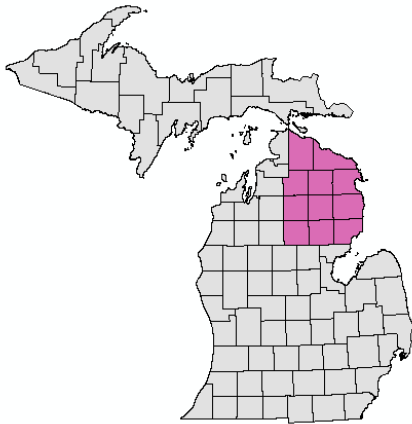# Birth Defects Profile in Michigan Prosperity Region 3

**(**Alcona, Alpena, Cheboygan, Crawford, Iosco, Montmorency, Ogemaw, Oscoda, Otsego, Presque Isle, and Roscommon Counties)



## 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

## Birth Defects in Region 3 (2011-2017)

❖ There were roughly 1,750 infants born in Region 3 each year.

❖ Just under 150 of these infants were born with a birth defect.

❖ Hypospadias and Trisomy 21 were the most prevalent birth defects in Michigan and Prosperity Region 3 (Table 1).

❖ The prevalence of all birth defects was similar between Prosperity Region 3 and Michigan as a whole.



| Table 1. Prevalence of Selected Birth Defects within Prosperity Region 3 and the State of Michigan, 2011-2017 | | | | |
|---|---|---|---|---|
| | **Prosperity Region 3** | | **Michigan** | |
| **Birth Defect** | **Number of Cases** | **Prevalence (per 10,000 live births)** | **Number of Cases** | **Prevalence (per 10,000 live births)** |
| Anencephaly | 0 | 0.0 | 79 | 1.0 |
| Cleft Lip with Cleft Palate | 13 | 10.6 | 597 | 7.5 |
| Cleft Lip without Cleft Palate | --* | --* | 292 | 3.7 |
| Cleft Palate without Cleft Lip | 11 | 9.0 | 589 | 7.4 |
| Gastroschisis | 6 | 4.9 | 362 | 4.6 |
| Hypoplastic Left Heart Syndrome | --* | --* | 333 | 4.2 |
| Hypospadias | 52 | 42.6 | 3,116 | 39.3 |
| Limb Deficiencies | --* | --* | 360 | 4.5 |
| Spina Bifida | 7 | 5.7 | 363 | 4.6 |
| Tetralogy of Fallot | 9 | 7.4 | 443 | 5.6 |
| Transposition of the Great Arteries | --* | --* | 408 | 5.1 |
| Trisomy 21 | 15 | 12.3 | 1,071 | 13.5 |
| **Total Number of Live Births** | 12,220 | | 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 <u>all</u> Mothers and Babies

Between 2011 and 2017, roughly **1,750** babies were born in Prosperity Region 3 each year.

During an average year in Prosperity Region 3:

## Mom's Race and Ethnicity

❖ **1,600** or **94 percent** of infants were born to **white, non-Hispanic** mothers.

❖ **10 or less than 1 percent of infants** were born to **Black, non-Hispanic** mothers.

❖ **60** or **3 percent** of infants were born to **all other non-Hispanic** mothers.

❖ **40** or **2 percent** of infants were born to **Hispanic** mothers.



## Mom's Socioeconomic and Educational Status

❖ **1,100** or **61 percent** of all births reported **Medicaid** as the intended payer.

❖ **260** or **15 percent** of infants were born to mothers with **less than a high school** education.

❖ **560** or **32 percent** of infants were born to mothers that had a **high school** education.

❖ **670** or **38 percent** of infants were born to mothers that had **some college** or an **associate degree**.

❖ **260** or **15 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

❖ **150** or **8 percent** of infants were born to **teenage** mothers (15 to 19 years).

❖ **1,450** or **83 percent** of infants were born to mothers of **reproductive age** (20 to 34 years).

❖ **160** or **9 percent** of infants were born to mothers **35 years of age** or older.

## Mom and Baby

### Health Before, During, and After Pregnancy

❖ **980** or **56 percent** of infants were born to mothers who were **overweight** or **obese**.

❖ **640** or **37 percent** of infants were born to mothers that **used tobacco** during pregnancy.

❖ **150** or **9 percent** of infants were **born prematurely**.

❖ **130** or **7 percent** of infants were born at a **low birth weight**.

❖ **13** or **1 percent** of infants were born to mothers who had **pre-pregnancy diabetes type 1 or type 2**.

MBDR

## MDHHS
**Michigan Department of Health & Human Services**
GRETCHEN WHITMER, GOVERNOR | ELIZABETH HERTEL, DIRECTOR