

INFANT MORTALITY

GOAL: All infants born in Calhoun County will thrive and mature into healthy toddlers

INFANT MORTALITY RATE (PER 1,000 LIVE BIRTHS) ^{1*}		
	Calhoun	MI
2001-03	10.0	8.2
2002-04	8.7	8.1
2003-05	9.2	8.0
2004-06	9.6	7.6
2005-07	11.2	7.8
2006-08	10.7	7.6
2007-09	11.5	7.6
2008-10	10.1	7.3

INFANT MORTALITY RATE BY SELECT RACE, CALHOUN COUNTY (PER 1,000 LIVE BIRTHS) ^{2**}			
	White	Black	Ratio
2001-03	9.8	10.2	1.0
2002-04	8.1	9.7	1.2
2003-05	7.7	14.1	1.8
2004-06	7.3	20.7	2.8
2005-07	8.5	25.2	3.0
2006-08	7.8	24.1	3.1
2007-09	9.3	20.5	2.2
2008-10	7.3	22.2	3.0

HOW ARE WE DOING? The overall infant mortality rate (IMR) in Calhoun County has been fairly stagnant over the past decade and consistently higher than the state. Although the IMR has fallen slightly for White infants, it has increased by a significant margin for Black infants.

The leading causes of infant mortality are disorders relating to low birth weight and prematurity, followed by congenital anomalies such as major organ malformations and chromosomal abnormalities. Sudden Infant Death Syndrome (SIDS) was the third leading cause of infant death in Calhoun County. The strongest predictors of infant death are low birth weight, prematurity, plurality and inadequate prenatal care.

RISK FACTORS FOR INFANT MORTALITY IN CALHOUN COUNTY 2008-10 ³		
		Mortality Rate
Birth Weight	<1,500g (~ under 3.31lbs)	307.7
	1,500g-2,499g (~ 3.31 lbs - 5.51 lbs)	16.0
	2,500g+ (~ over 5.51 lbs)	3.8
Gestational Age	<37 weeks	59.0
	37+ weeks	3.2
Plurality	Singleton birth	9.4
	Multiple birth	38.8
Maternal Age	<20 years	15.5
	20-29 years	8.8
	30+ years	10.2
Level of Prenatal Care	Adequate	8.1
	Intermediate	10.6
	Inadequate	42.6
Tobacco Use During Pregnancy	No	9.2
	Yes	13.6

LEADING CAUSES OF INFANT MORTALITY IN CALHOUN COUNTY 2006-10 **		
	Number of Deaths	Rate per 1,000 Live Births
Disorders relating to short gestation and low birthweight	27	3.1
Congenital Anomalies	16	1.8
Sudden Infant Death Syndrome (Cause of Death Unproven)	13	1.5
All Other Ill-defined Conditions Originating in the Perinatal Period	9	1.0
Unintentional Injuries (Includes Unsafe Sleep)	5	0.6

SOURCE:

- 2001-2010 Michigan Resident Birth and Death Files, Division for Vital Records & Health Statistics, Michigan Department of Community Health
- 2006-2010 Michigan Resident Birth and Death Files, Division for Vital Records & Health Statistics, Michigan Department of Community Health
- 2008 - 2010 Michigan Resident Birth and Death Files, Division for Vital Records & Health Statistics, Michigan Department of Community Health

NOTES:

*Rate is calculated by dividing the total number of deaths from all causes before 1 year of age by the total number of live births

**Causes of death with less than 5 observed events are not shown to protect the privacy of individuals and due to instability in estimation of the mortality rate.

Disorders relating to short gestation and low birth weight include International Classification of Disease Version 10 (ICD-10) code P07. Congenital anomalies includes ICD-10 codes Q00-Q99. Sudden Infant Death Syndrome includes ICD-10 code R95. All other ill-defined conditions originating in the perinatal period includes ICD-10 codes P00, P03-P06, P08-P09, P16-P19, P29-P34, P40-P49, P53-P96. Unintentional injuries includes ICD-10 codes V01-X99, Y85-Y86.