

Missouri*

Missouri Birth Defect Surveillance System

*Last updated 2019

Purpose: Surveillance, Research

Partner: Environmental Agencies/Organizations, Legislators

Program status: Currently collecting data

Start year: 1985

Earliest year of available data: 1980

Organizational location: Department of Health (Vital Statistics)

Population covered annually: 76,000

Statewide: Yes

Case Definition

Outcomes covered: ICD-9-codes 740-759, ICD-10 codes Q-codes, plus genetic, metabolic, and other disorders

Pregnancy outcome: Livebirths (All gestational ages and birth weights), Fetal deaths - stillbirths, spontaneous abortions, etc. (Fetal death certificates are only source of data)

Age: Up to one year after delivery

Residence: In- and out-of-state births to state residents

Surveillance Methods

Case ascertainment: Passive case-finding without case confirmation, Population-based

Vital records: Birth certificates, Death certificates, Matched birth/death file, Fetal birth certificate

Delivery hospitals: Discharge summaries

Pediatric & tertiary care hospitals: Discharge summaries, Specialty outpatient clinics

Case Ascertainment

Conditions warranting chart review in newborn period: Any chart with an ICD-9-CM code 740-759/ICD-10-CM code Q00-Q99, Any birth certificate with a birth defect box checked, All stillborn infants, Missouri is currently using CDC/NCBDD grant to abstract selected birth defects

Conditions warranting chart review beyond the newborn period: Any infant with a codable defect

Coding: ICD-9-CM/ICD-10-CM

Data Collected

Infant/fetus: Identification information (name, address, date-of-birth, etc.), Demographic information (race/ethnicity, sex, etc.), Birth measurements (weight, gestation, Apgars, etc.), Tests and procedures, Infant complications

Mother: Identification information (name, address, date-of-birth, etc.), Demographic information (race/ethnicity, sex, etc.), Gravidity/parity, Prenatal care, Pregnancy/delivery complications, Family history

Father: Identification information (name, address, date-of-birth, etc.), Demographic information (race/ethnicity, sex, etc.)

Data Collection Methods and Storage

Data collection: Electronic file/report submitted by other agencies (hospitals, etc.)

Database collection and storage: SAS

Data Analysis

Data analysis software: SAS

Quality assurance: Validity checks, Double-checking of assigned codes, Comparison/verification between multiple data sources

Data use and analysis: Routine statistical monitoring, Baseline rates, Rates by demographic and other variables, Time trends, Grant proposals, Education/public awareness

System Integration

System links: Link case finding data to final birth file

Funding

Funding source: 100% MCH funds

Other

Web site: <http://health.mo.gov/data/birthdefectsregistry/index.php>

Surveillance reports on file: MO Birth Defects Report 1996-2000

Contacts

Bureau of Epidemiology and Vital Statistics

Missouri Department of Health and Senior Services

PO Box 570, 9212 Wildwood Drive

Jefferson City, MO 65102

Phone: (573) 751-6400

Email: info@health.mo.gov