

## Arkansas

### Arkansas Reproductive Health Monitoring System (ARHMS)

**Purpose:** Surveillance, Research

**Partner:** Local Health Departments, Hospitals, Advocacy Groups, Universities, Legislators

**Program status:** Currently collecting data

**Start year:** 1980

**Earliest year of available data:** 1980

**Organizational location:** Arkansas Children's Hospital

**Population covered annually:** 39,000

**Statewide:** Yes

**Current legislation or rule:** Acts 1985, No. 214

**Legislation year enacted:** 1985

#### Case Definition

**Outcomes covered:** Major congenital malformations, 740.000-759.990 (ICD10: Q00.0-Q99.9), plus select others outside this range in live birth, stillbirth, and terminations. All traceable stillbirths without birth defects are collected as well.

**Pregnancy outcome:** Livebirths (All gestational ages and birth weights), Fetal deaths - stillbirths, spontaneous abortions, etc. (20 weeks gestation and greater), Elective terminations (All gestational ages)

**Age:** Birth to second birthday

**Residence:** In and out of state births to Arkansas residents

#### Surveillance Methods

**Case ascertainment:** Active Case Finding

**Vital records:** Birth certificates, Stillbirth records

**Delivery hospitals:** Disease index or discharge index, Discharge summaries, Obstetrics logs (i.e., labor & delivery), ICU/NICU logs or charts, Surgery logs, Cardiac catheterization laboratories, Specialty outpatient clinics, Reports generated by the health information management departments, within hospitals and health care facilities, for any child encountered with a reportable ICD-10 code.

**Pediatric & tertiary care hospitals:** Disease index or discharge index, Discharge summaries, ICU/NICU logs or charts, Cardiac catheterization laboratories, Specialty outpatient clinics, Reports generated by the health information management departments, within hospitals and health care facilities, for any child encountered with a reportable ICD-10 code.

**Other specialty facilities:** Prenatal diagnostic facilities (ultrasound, etc.), Genetic counseling/clinical genetic facilities

**Other sources:** Physician reports

#### 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 chart with a selected list of ICD-9-CM codes outside 740-759/ICD-10-CM codes outside Q00-Q99, Any chart with selected defects or medical conditions (i.e. abnormal facies, congenital heart disease), All stillborn infants, All elective abortions, All prenatally diagnosed or suspected cases

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

**Coding:** CDC coding system based on BPA, 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, Birth defect diagnostic information

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

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

#### Data Collection Methods and Storage

**Data collection:** Electronic file/report filled out by staff at facility (laptop, web-based, etc.)

**Database collection and storage:** Access, MS SQL Server

#### Data Analysis

**Data analysis software:** SAS, Access

**Quality assurance:** Validity checks, Re-abstraction of cases, Double-checking of assigned codes, Comparison/verification between multiple data sources, Timeliness

**Data use and analysis:** Routine statistical monitoring, Public health program evaluation, Baseline rates, Rates by demographic and other variables, Monitoring outbreaks and cluster investigations, Time trends, Epidemiological studies (using only program data), Identification of potential cases for other epidemiologic studies, Needs assessment, Grant proposals, Education/public awareness, Prevention projects

#### System Integration

**System links:** Link to other state registries/databases, Link case finding data to final birth file

**System integration:** No.

#### Funding

**Funding source:** 100% General state funds

#### Other

**Web site:**

<https://www.archildrens.org/research/research-programs-and-centers/arkansas-reproductive-health-monitoring-system/arhms>

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