

Vermont
Birth Information Network (BIN)

Purpose: Surveillance, Referral to Services

Partner: Hospitals, Environmental Agencies/Organizations, Advocacy Groups, Universities, Early Childhood Prevention Programs, Hospital Association

Program status: Currently collecting data

Start year: 2006

Earliest year of available data: 2006

Organizational location: Department of Health (Division of Health Surveillance / Statistics)

Population covered annually: 6000

Statewide: Yes

Current legislation or rule: Act 32 (TITLE 18 VSA §5087)

Legislation year enacted: 2003

Case Definition

Pregnancy outcome: Livebirths (All gestational ages and birth weights), Fetal deaths - stillbirths, spontaneous abortions, etc. (20 week gestation and greater or a birth weight of more than 400 grams)

Age: Up to one year after delivery

Residence: In and out of state births to state residents

Surveillance Methods

Case ascertainment: Passive case-finding with case confirmation

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

Other state based registries: Programs for children with special needs, Newborn hearing screening program, Newborn metabolic screening program

Delivery hospitals: Discharge summaries, Specialty outpatient clinics

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

Third party payers: Medicaid databases, Multi-payer claims database

Other specialty facilities: Cytogenetic laboratories

Other sources: Physician reports, Autopsy reports

Case Ascertainment

Conditions warranting chart review in newborn period: Any chart with selected procedure codes, Any birth certificate with a birth defect box checked, Any chart with selected defects or medical conditions (i.e. abnormal facies, congenital heart disease), Any chart with an ICD-9-CM or ICD-10-CM code corresponding to a condition monitored by Vermont's registry.

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, Birth defect diagnostic information

Mother: Identification information (name, address, date-of-birth, etc.), Demographic information (race/ethnicity, sex, etc.), Gravidity/parity, Illnesses/conditions, 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: Printed abstract/report submitted by other agencies (hospitals, etc.), Electronic file/report submitted by other agencies (hospitals, etc.)

Database collection and storage: Access

Data Analysis

Data analysis software: SPSS, Access, Excel

Quality assurance: Comparison/verification between multiple data sources, Clinical review, 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, Observed vs. expected analyses, Identification of potential cases for other epidemiologic studies, Referral, Grant proposals, Education/public awareness

System Integration

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

Funding

Funding source: 5% General state funds, 95% CDC grant

Other

Web site:

<http://www.healthvermont.gov/health-statistics-vital-records/registries/birth-information-network>

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