

Indiana

Project title: The Indiana Operational Data Store (ODS)

Organization responsible: Indiana State Department of Health

Service coverage area: State of Indiana

Annual birth cohort: Approximately 88,000

Project scope and goals

The Indiana State Department of Health (ISDH) is charged under Indiana law to study the health of people in Indiana and to develop the Indiana Health Data Center.

The Health Data Center formalized the efforts of the ISDH to meet these obligations:

- to collect and process health data.
- to maintain statistics related to gender and ethnicity.
- to provide the information to the Indiana State Department of Health annually.
- to improve the quality, timeliness, and comparability of health statistics.
- to analyze and disseminate information about the health status of state residents.
- to provide access to health data to persons who are permitted to obtain the data.
- to support the goals and objectives of the Cooperative Health Statistics System established by the federal National Center for Health Statistics.

The Indiana ODS has developed an integrated data model based on a person-centric schema that links the state's birth records, deaths, birth defects, fetal deaths, lead screening, newborn screening heel stick (39 conditions), and newborn hearing screening. The project is developing the methodology to include Medicaid recipient information and communicable disease reporting.

Several applications are also being developed for general use, including data reporting, address matching and de-duplication, and user authorization.

The Operational Data Store was designed to meet the Public Health Information Network (PHIN) requirements and allows other program areas to include their data in the Data Store. The design also used a broad, enterprise view of possible data streams, including internal, external, and inter-agency business partners in the possible use and exchange of data.

The project's mission is "to provide an **easy-to-use, integrated** electronic information environment that provides ISDH employees and others with

immediate access to the ***accurate, timely health data*** they need to work more ***effectively*** and ***efficiently.***”

Funding

- Indiana Birth Defects and Problems Registry Grant (CDC)
- The Genetics Implementation and Genetics Planning Grants (HRSA)
- Early Hearing Detection and Intervention Grant (CDC)
- SSDI Grant
- Federal Title V (MCH) Block Grant (HRSA)
- Indiana State Newborn Screening Program Funding (IN)
- Preventive Health Block Grant (HRSA)
- Indiana State Department of Health (IN)

History

In 1993, Indiana law mandated creation of the State Health Data Center. The Data Center is charged with improving data quality and collecting, using, and sharing data about the health status of Indiana residents.

In 2002, a pilot project of the Indiana Birth Defects and Problems Registry CDC grant, took the first step toward the current data structure at the ISDH. The pilot was a six-month project that developed a data structure to help reduce inaccurate data, to aid in the identification of potential birth defect cases, and to validate correct data. Because of the success of the pilot study, the data structure (with several modifications) became the agency standard.

ISDH is currently adding historical data to this data set, developing enhanced reporting tools, and incorporating additional data streams into the Indiana Operational Data Store (ODS).

Executive leadership and organizational endorsements

The Operational Data Store is administratively part of the State Health Data Center. The ODS and the State Health Data Center are managed by the Director of the State Health Data Center. Three main functional areas – Database Administration, Quality Assurance, and Development – report to the Director of the State Health Data Center.

The agency provides a great deal of support for this project, including support from the executive staff and program areas. The project team has worked closely with the Maternal and Children’s Health programs, especially in the areas of Birth Defects Registry and Newborn Screening. The ODS team has also worked with the Epidemiology Resource Center, the Laboratory Resource Center, the Emergency Preparedness team, Vital Records, Acute and Long-term Care, Food Protection, Childhood Lead Poisoning Prevention, and Chronic Disease programs.

External endorsements

- Regenstrief Institute at the Indiana University, an internationally recognized informatics and health care research organization.
- The Indiana Health Information Exchange, Inc. (IHIE), a not-for-profit corporation founded for the purposes of developing and implementing a health information exchange in Central Indiana. The ISDH is a board member of IHIE.
- Health Care Data and Quality Subcommittee, Commission on Health Care Excellence.
- Indiana Hospital and Health Association.
- Indiana Genetics Advisory Committee.
- Early Hearing Detection and Intervention Advisory Committee.

Significant challenges

- 1) Developing the business model for the ongoing funding of this architecture.
- 2) Sharing information with other states.

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