



Indiana State Department of Health partners with eImagine to create a technology based solution to improve health of newborn babies.

// ABOUT THE CUSTOMER

The Indiana State Department of Health (ISDH) is dedicated to promoting and providing essential public health services for a healthier and safer Indiana. As a part of the Newborn Screening Program (NBS), the ISDH screens newborns that are at risk for certain genetic, metabolic, and other physiological conditions. The test is mandated by Indiana state law for all babies born in Indiana and is typically done by a sample of blood collected after the baby has been born.

// THE CHALLENGE

Indiana has nearly 80,000 births/year across more than 100 qualified birthing facilities and midwiferies. Collecting comprehensive, private data governed by strict HIPAA laws on such a large number of individuals is an arduous task.

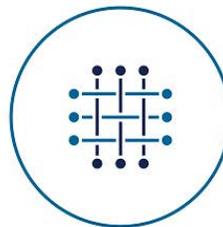
To provide the necessary public services regarding newborn health screening, ISDH was utilizing a variety of disconnected manual methods such as Microsoft Access databases, Microsoft Excel spreadsheets, paper forms, and fax machines. Follow-up work was very time consuming, required a large number of staff, and comprehensive reporting was nearly impossible. Birthing facilities, required to comply with state reporting laws, had to provide their own tools and methods for tracking newborn screening information.

// THE SOLUTION

eImagine helped design and create INSTEP, a web-based application to replace all manual processes involved in newborn screening tracking. After a brief pilot period, the application launched state-wide.

What is INSTEP?

- Interactive user experience web application utilizing comprehensive forms
- Connected with the state-wide ISDH Gateway portal which provides single-sign on functionality
- Fully integrated with other state resources such as the Indiana-contracted newborn screening lab, birth and death certificates, and professional licensing data
- Provides access to external data sources including Oracle database and raw lab data
- Gives administrators the ability to control site access to the public and user accounts with feature-based security.



INTEGRATE



COLLABORATE



SUPPORT

// THE RESULTS:

Data is sent in real-time to the state, where the NBS department provides immediate follow-up for care. The linked information provides a full comprehensive view of a child's medical profile and allows tracking of long-term data for those born with NBS conditions. State-contracted specialists can log in and enter data for patients who are in treatment for those with life-long conditions. eImagine continued work with the state to expand INSTEP to primary care providers. Similarly, INSTEP's functionality has been extended to address more specific follow-up and reporting needs for children with Down Syndrome and Cystic Fibrosis. INSTEP sends Health Level 7 messages to Health Information Exchanges and Regional Health Information Organizations, a feat which many other states are not able to accomplish. eImagine has maintained support and maintenance for the ISDH INSTEP Application for nearly 10 years.