Lifelong Improvement and Monitoring of Maternal and Child Health

Calian Digital Solutions was selected, after an intensive international RFP process, to build a unified data platform called the BORN Information System (BIS), powered by Calian® Corolar™.

The Situation

BORN Ontario needed comprehensive maternal-infant health information in a single web-enabled system. This meant integrating disparate and raw data from five primary data providers. Such integration would ensure that each individual baby has received all relevant testing and improve maternal-child health outcomes in the province. BORN Ontario also needed data analysis tools, with user-friendly dashboards which alert users to key statistics. Users also needed to run reports on the data in the central depository and conduct research to improve care initiatives.

The Solution

Calian Digital Solutions was selected, after an intensive international RFP process, to build a unified data platform for BORN Ontario. Pregnancy screening data of roughly 80,000 patients per year came from five centres across Ontario. This covered all lab orders, samples and results as well as newborn screening records of roughly 140,000 babies per year, 99.9 per cent of whom are screened for at least 28 rare disorders.

This data is loaded into the system via HL7 messages. Calian® Corolar™ integration platform offered BORN Ontario a set of solution accelerators that ease the development and management of HL7 solutions. They adhere to PHIPA standards and offer robust security features which protect the data and link access to organizational role. The Corolar unique dashboard charts and tables help users derive insights from the data. Reports can be run directly on the portal, sharing important information and improving patient outcomes.
The Result

- Fulfilled the project’s vision of providing the residents of Ontario “The best possible beginnings for lifelong health”
- Provided caregivers with access to timely, accurate, reliable clinical data integrated across Ontario to aid health planning and monitoring
- Data analytics tools helped to monitor real-time trends in neonatal health
- Created better processes and superior quality of service for patients across Ontario
- Positioned the province of Ontario as a world leader in prenatal and newborn research