CALIAN®

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Born Ontario Improved Maternal-Infant Health Outcomes with Calian Data Integration Solutions

Faster, more efficient access to high-quality healthcare

BORN Ontario

Organization: Better Outcomes Registry Network (BORN) Ontario

Website: www.bornontario.ca

Location: Ottawa

Profile: BORN Ontario holds responsibility for collecting, interpreting, sharing and rigorously protecting critical data about pregnancy, birth and childhood in the province, while ensuring that information is available to facilitate healthcare provision. Funded by the Ontario Ministry of Health and Long Term Care and administered by the Children's Hospital of Eastern Ontario (CHEO), BORN Ontario is overseen by the Information Privacy Commissioner of Ontario and supported by the Electronic Health Information Laboratory.

Calian 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 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.

Microsoft Solutions partner

calian.com/health

Calian Corolar Platform Simplifies Healthcare Interoperability

Unified data — single view of maternal and infant data across the province

PHIPA standards — adhere to privacy regulations, protect data and ensure role-based data access

Data analysis tools — with user-friendly dashboards to highlight gaps in data and run reports

Access to provincial data sets — for research to improve health outcomes and inform public policy

13,253 users

1.3M birth records

140+ reports

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

Faster, more efficient high-quality care

Healthcare Interoperability

Patient Engagement

Collaborative Care

Health Information Exchanges

Enterprise Master Patient Index

Precision Medicine

Health Data Lake

Health Analytics

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info@calian.com | 1.877.225.4264