

Overview

In maternal healthcare, data-driven solutions are essential for improving birth outcomes and supporting better decision-making. Project is a customisable birth log that enables practices to collect data on ACNM Benchmarking measures along with any other variables they are interested in tracking. By participating practices to compare their birth outcomes and care processes to practices that are similar in size and environment. Upon practice approval, Application automatically gives their aggregated data to the ACNM Benchmarking Project.

Problem Statement

- The increasing complexity of maternal healthcare data presents challenges for midwives and administrators in logging, synchronizing, and analyzing birth outcomes effectively.
- The initial system was lacking seamless integration with major Electronic Health Record (EHR) systems and does not follow standardized medical coding systems such as LOINC and SNOMED. This limits the accuracy of analytics, interoperability, and data reporting capabilities.

Solution

- The solution has been enhanced to provide holistic insights by aggregating data from EHR systems using FHIR/HL7/CCDA and analyzing it for meaningful trends.

Core Features

- ★ **EHR Integration Using FHIR:** A robust background job enables seamless communication with various EHR systems, including Epic and Athena, using the FHIR standard for secure data exchange.
- ★ **Data Aggregation and Analysis:** Patient-specific data received via HL7 feeds is processed and analyzed within the platform to provide actionable insights on birth outcomes and maternal health.
- ★ **Comprehensive Analytics Dashboard:** Based on ACNM benchmarking the platform generates insightful visualizations and trends, helping midwives improve care and identify patterns for improved outcomes.
- ★ **Automated Reporting:** Pre-built reports allow quick comparisons of important practice trends, such as provider-specific C-section and induction rates.

Challenges

- ✓ Support Data ingestion both with and without EHR integration.
- ✓ Support seamless data exchange and interoperability with Multiple EHR's
- ✓ Adhere to standardized medical code terminologies, such as LOINC and SNOMED.

Solution

- 💡 smartData has extensive experience and delivered multiple solutions on similar grounds. We implement FHIR integration, enabling the platform to connect with a wide range of healthcare systems, ensuring seamless data exchange and improving interoperability within the healthcare ecosystem.
- 💡 smartData has integrated many EHR's like Epic, Cerner, Allscripts, eClinicalWorks, GE Centricity, NextGen, and many others using FHIR/HL7, CCDA (H7 V2.3), and direct queries depending on EHR to be integrated

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Screenshots

