



Early health. Lifelong health.
Début en santé. Longue vie en santé.

BORN Ontario: Training Guide – BORN Organizational Overview

NOVEMBER 2011

Training Objectives

At the end of the session, you will be able to:

- Learn about BORN Ontario's mission and vision
- Understand how BORN information is used and by whom
- Provide examples of BORN research
- Identify what the BORN solution is and how it is organized

What Does BORN Do?

- BORN is providing the knowledge needed for *“The best possible beginnings for life long health”*
 - Facilitates and improves care for women and children in Ontario
 - Is an authoritative source of accurate and timely information
 - Provides scientific and technical leadership
 - Immobilizes information and expertise

What Information is collected within the BORN Solution?

BORN will contain information on every birth in Ontario:

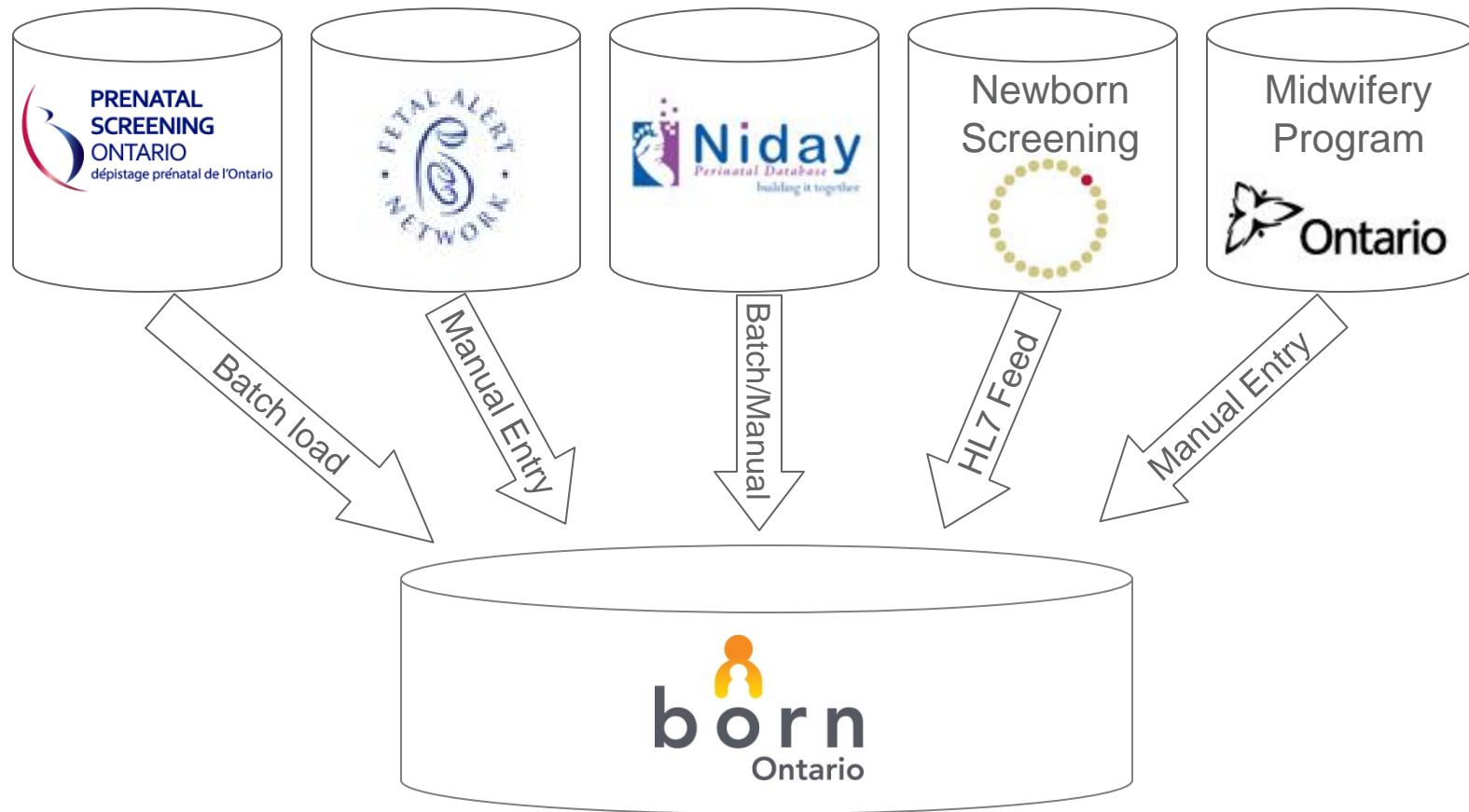
- Details of more than 138,000 births annually collected from all 109 birthing hospitals
- Data from ~ 500 midwives in 78 practice groups caring for ~ 15,000 women annually including over 2,700 homebirths
- Total births of over 140,000 in Ontario
- 37% of total births in Canada

BORN will also collect information pertaining to:

- Prenatal Screening: ~84,000 pregnancies
- Newborn Screening: >99% of babies
- Neonatal Care: 49 NICU/SCN's caring for 15%-30% babies

What is the BORN Solution?

The BORN Solution is the result of integrating 5 previously separate databases into one new comprehensive system:



What is BORN?

BORN is a Maternal/Child Health Registry

- Granted Registry Status under the *Personal Health Information Privacy Act* (PHIPA) in November 2009
- Registry status affords BORN authority to collect, use and disclose personal health information **without consent** for the purpose of “*facilitating or improving the provision of health care*”.
- This special authority requires BORN to develop and adhere to rigorous privacy policies – and have them reviewed and approved by the Ontario Information and Privacy Commissioner

Who Uses BORN Data?

- Hospitals & care providers
 - Directors, program managers, educators
 - Decision support/health informatics team
 - Physicians and Midwives
- Government & policy developers
 - Ministry of Health
 - Health Quality Ontario
 - Provincial Council for Maternal & Child Health
- Public Health Units
- Local Health Integration Networks (LHINs)
- Researchers
- BORN Central
- Professional associations and special interest groups
 - Society of Obstetricians & Gynaecologists
 - Association of Ontario Midwives

How is BORN Information Used?

BORN information is used for:

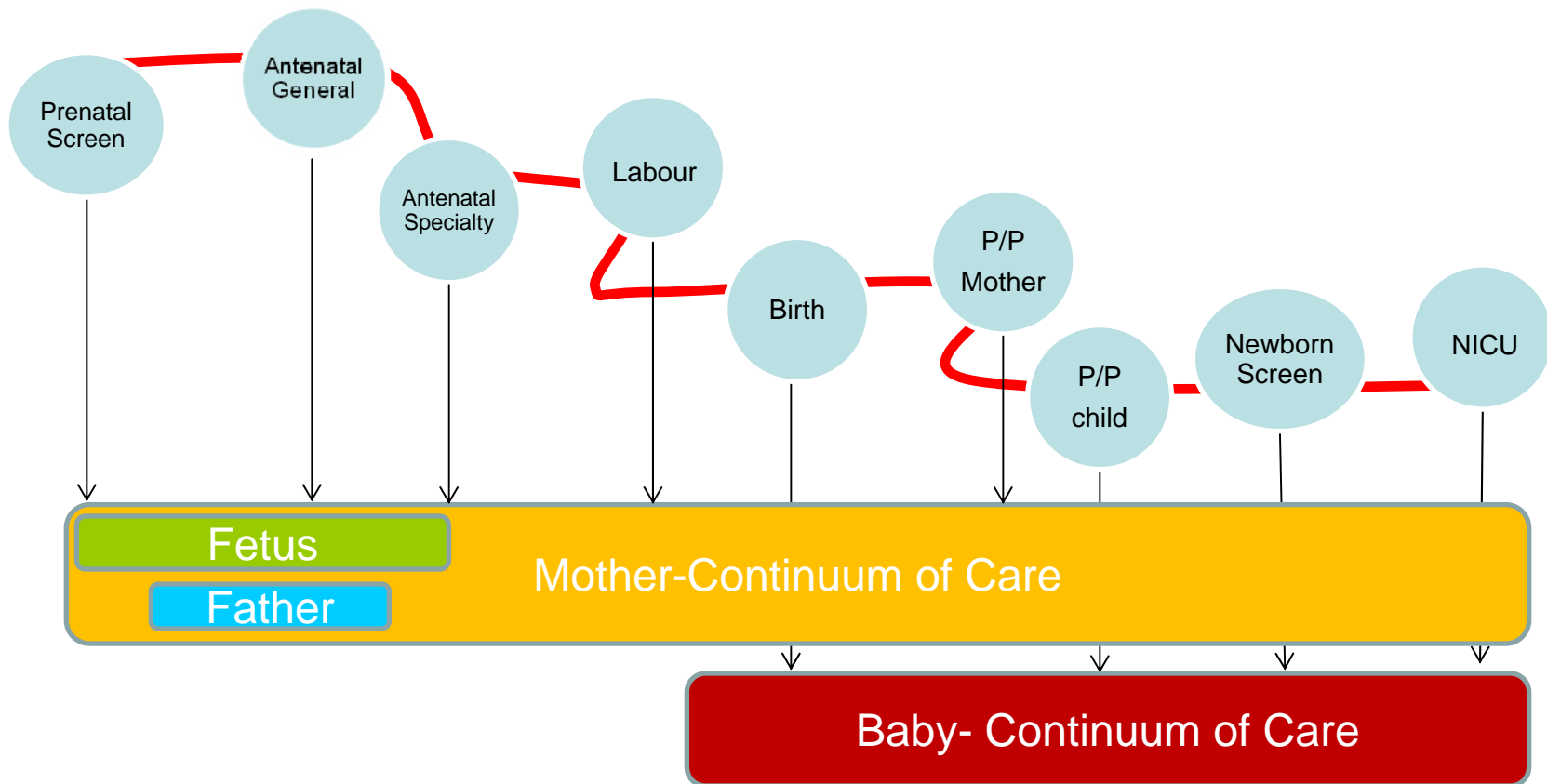
- Examining health services issues
- Performance measurement
- Trending over time
- Continuous quality improvement initiatives
- Policy development
- Evidence based decision making
- Supporting public health programming
- Informing research questions
- Generating perinatal and neonatal reports

Examples of BORN Research

- Maternal and neonatal outcomes associated with BMI classification
- Trends in induction of labour
- Adolescent pregnancy outcomes
- Subsequent birth outcomes for women with perineal tears
- GIS mapping of adverse perinatal outcomes - hot spots?
- Relationship between air pollution levels and adverse perinatal outcomes
- Impact of diabetes and obesity on breastfeeding rates



How do Encounters fit into the Continuum of Care?



How is the BORN Solution Organized?

BORN is based on an Encounter Model

- Encounter = Healthcare event (an interaction that involves a patient and the provision of services)
- The encounter model was developed to facilitate the collection of information across numerous points of care from multiple program areas over time
- This collection of information across the care continuum provides flexibility for analyzing this data in the BORN system

List of Encounters in BORN:

- Prenatal Screening
- Prenatal Screening Follow-up
- Antenatal Specialty
- Antenatal General
- Labour
- Birth (Mother)
- Birth (Child)
- Postpartum (Mother)
- Postpartum (Child)
- NICU
- Newborn Screening
- Newborn Screening Follow-up

Data Entry

- **Encounter**
 - A health care event that involves a patient and the provision of services
- **Continuum of Care**
 - Information gathered illustrating the patient experience, organized by encounters across the care continuum
- **Pre-population**
 - Retrieving information from prior encounters and displaying on data entry screens
 - Reduces duplication, and increases data entry efficiencies
- **Organization Access to Data**
 - Each organization will have access to relevant information on their population for analysis

Data Quality

- Information in BORN reflects patient experience
- Information source = patient documentation from the chart
- Documentation standards require accurate, complete, and timely documentation
- Design of the BORN system manages data quality
- Quality Assurance tools and processes are in place to further enhance data quality
- Data supports decisions at the local, regional, and provincial level
- Quality data drives quality care improvements

Questions?



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