



BORN Information BITS

November 11, 2011

Welcome to the second edition of the BORN Information BITS. In addition to Q&A, this edition will provide a glimpse of the BORN Ontario Solution. We are eager to share more information based on your feedback (i.e. you can now look forward to a weekly edition of BORN Information BITS) and to present screen shots in follow-up to the live demo during the BORN Build Briefing on November 10, 2011.

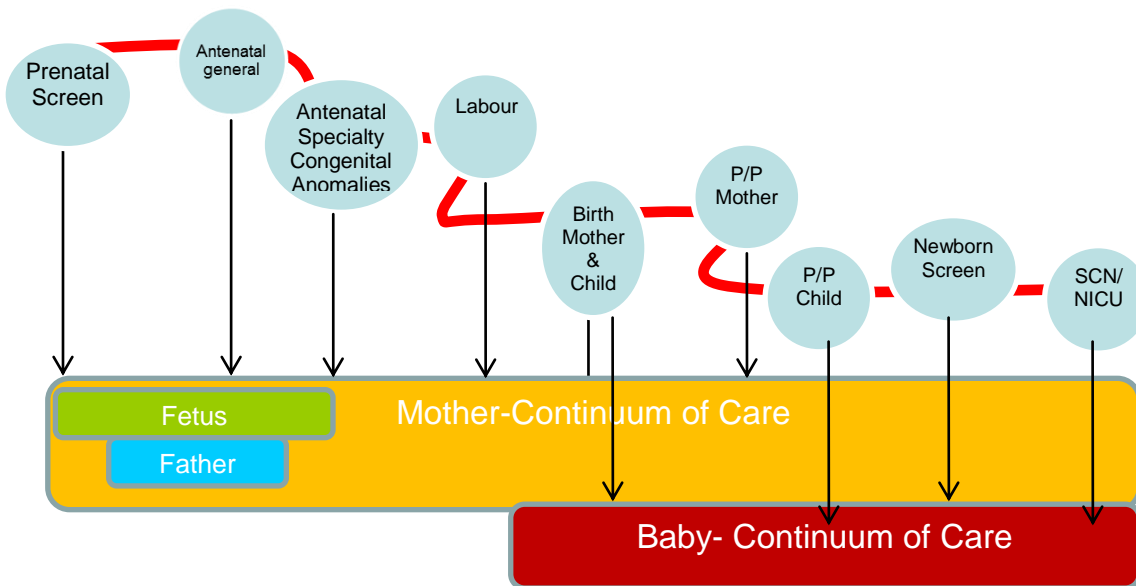
How is the BORN solution different than the NIDAY database?

The BORN system is the *integration* of data from five founding members of BORN (Prenatal Screening, Fetal Alert Network, NIDAY, Newborn Screening and Ontario Midwifery Program) into one maternal-child registry. Data will continue to be collected by individual organizations, but it will feed into the patient experience/continuum which may include data from more than one organization. NIDAY is *one "bit"* of the continuum captured by the BORN system.

The BORN system is described as being 'encounter based', what exactly does that mean?

The BORN system is an **encounter based** data collection model. An encounter is defined as a specific course of care that involves a patient and the provision of services delivered by health care providers. The ten encounters in the BORN system are as follows: Prenatal Screening, Antenatal General, Antenatal Specialty (Congenital Anomalies), Labour, Birth Mother, Birth Child, Postpartum Mother, Postpartum Child, SCN/NICU and Newborn Screening and are depicted in the diagram below.

Patient Continuum of Care Record Demonstrating the Different Encounters*



*Midwifery encounter to be discussed in future edition

Why was the encounter model chosen?

The encounter model was developed to facilitate comprehensive data collection from multiple program areas and care providers at numerous points in the care continuum. The collection of data across the care continuum affords flexibility in terms of data entry and data analysis.

What does the BORN System look like?

Over the next few weeks we will demonstrate a number of screenshots from each of the different encounters. We will begin by showing screen shots from the **Labour and Birth Mother** encounters.

The Labour Encounter is comprised of four tabs: Admission, History, Pregnancy and Intrapartum and is used to capture the woman's labour (spontaneous, augmented or induced) experience. To review the data elements in more detail, please refer to the data dictionary <http://www.bornontario.ca/data-dictionary>.

Note: This encounter will not be completed for women who undergo planned caesarean birth.

Labour Encounter – Admission Tab

The **Admission** Tab is used to capture admission details for the woman in labour or for a scheduled induction of labour.

North York General Hospital / Monica Poole

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BORN UAT > Patient Search > Labour

Patient Search • My Profile • Help •

Snow White

PSO
PSO Screen
PSO Follow-up

Antenatal Care
Antenatal General
Antenatal Specialty

Labour & Birth
Labour
05 Nov 2011
Birth Mother
05 Nov 2011
Postpartum Mother

Add Child Record

Name: Snow White OHIP#: 1501530933 ID #: 123456 Postal Code: N6A 4V2 City: London
DOB: 05-Nov-1985 Sex: F G: T: P: A: L: EDB: 19-Nov-2011

Labour

Admission History Pregnancy Intrapartum

Please enter the information below for client admitted to hospital during labour.

Admission Date: dd-MMM-yyyy Admission Time:

Admission by Healthcare Provider: Select

Maternal Transfer From: Select

Save Proceed Submit Cancel

Data Elements

Admission Date
Admission Time
Health Care
Provider
Maternal Transfer

Labour Encounter – History Tab

The **History** tab is used to document all the information regarding the health history at the time of admission.

Labour

Admission **History** Pregnancy Intrapartum

Pre-Existing Health History

Pre Existing Maternal Health Conditions: Mental Health Concerns: None Addiction Anxiety Bipolar

Women Abuse: Select

Obstetrical History

Gravida (G): # of Previous Term Births (T): # of Previous Preterm Births: # of Previous Abortions (A): # of Living Children (L): # of Previous Stillbirths (S):

Select Select Select Select Select Select

of Previous Vaginal Births: # of Previous Cesarean Births: # of Previous VBACs: Parity:

Select Select Select

Data Elements

Pre-Existing Maternal Health Conditions
Mental Health Concerns
Woman Abuse

Obstetrical History

G-TPAL
Previous Stillbirths
Previous Vaginal Births
Previous Cesarean Births
VBACs
Parity (will auto calculate after above information entered)

Labour Encounter – Pregnancy Tab

The **Pregnancy** Tab is used to document the pregnancy history of the woman at the time of admission.

Labour

The screenshot shows the 'Pregnancy' tab with the following fields:

- Maternal Height:** Input field with radio buttons for 'in' and 'cm'.
- Pre-Pregnancy Weight:** Input field with radio buttons for 'lb' and 'kg'.
- Pre-Pregnancy BMI:** Input field.
- Maternal Weight at end of Pregnancy:** Input field with radio buttons for 'lb' and 'kg'.
- Maternal Weight gain in Pregnancy:** Input field with radio buttons for 'lb' and 'kg'.
- Maternal Height Unknown
- Maternal Weight Unknown
- Maternal Weight at end of Pregnancy Unknown
- # of Fetuses:** Dropdown menu with '1' selected.
- Type of Conception:** List box with options: Intrauterine insemination alone, Intrauterine insemination with ovulation induction but no IVF, IVF, IVE, ICST.
- Estimated Date of Birth (EDB):** Date picker showing '19-Nov-2011'.
- EDB Determined By:** Dropdown menu with 'Select' selected.
- First Trimester Visit:** Radio buttons for 'Yes', 'No', 'Unknown'.
- Antenatal Healthcare Provider:** List box with options: Family Physician, Midwife, None, Nurse Practitioner (APN/CNS).
- Prenatal Classes:** Radio buttons for 'Yes', 'No', 'Unknown'.
- Intention to Breast Feed:** Radio buttons for 'Yes', 'No', 'Unknown'.
- Folic Acid:** Dropdown menu with 'Select' selected.

Data Elements

- Maternal height
- Pre-pregnancy weight
- BMI (auto-calculates)
- Weight at end of pregnancy
- Weight gain in pregnancy (auto-calculates)
- # fetuses
- Type of Conception
- EDB
- EDB Determined By
- First Trimester Visit
- Antenatal Health Care Provider
- Prenatal Classes
- Intention to Breastfeed
- Folic Acid

The screenshot shows the following sections:

- Smoking:**
 - Smoking at first prenatal visit: Dropdown menu with 'Select' selected.
 - Resides with smoker at first prenatal visit: Radio buttons for 'Yes', 'No', 'Unknown'.
 - Smoking at time of admission: Dropdown menu with 'Select' selected.
 - Resides with smoker at time of admission: Radio buttons for 'Yes', 'No', 'Unknown'.
- Exposures:**
 - Alcohol Exposure in Pregnancy: Dropdown menu with 'Select' selected.
 - Drug & Substance Exposure in Pregnancy: Text input field with a 'SELECT' button.
 - Medication Exposure in Pregnancy: Text input field with a 'SELECT' button.
 - Infection & Pregnancy: Text input field with a 'SELECT' button.
 - Group B Strep Screening Results (35-37 wks): Dropdown menu with 'Select' selected.
- Complications:**
 - Diabetes & Pregnancy: Text input field with a 'SELECT' button.
 - Hypertension Disorder in Pregnancy: Dropdown menu with 'Select' selected.
 - Complications of Pregnancy: Text input field.

- Smoking at first prenatal visit and at time of admission
- Resides with smoker at first prenatal visit and at time of admission
- Alcohol Exposure
- Drug & Substance Exposure
- Medication Exposure
- Infection & Pregnancy
- Group B Strep Screening Results
- Oncology Radiation Therapy Exposure
- Complications of Pregnancy
- Diabetes & Pregnancy
- Hypertension Disorders in Pregnancy

Labour Encounter – Intrapartum Tab

The **Intrapartum** Tab is used to document the specific details of the labour.

The screenshot shows the 'Labour' section with the 'Intrapartum' tab selected. The interface includes several input fields and checkboxes:

- Antenatal Steroids:** A dropdown menu with 'Select' as the current value.
- Type of Labour:** A dropdown menu with 'Select' as the current value.
- Group B Strep Antibiotics:** Radio buttons for 'Yes', 'No', and 'Unknown'.
- Fetal Surveillance:** A list of checkboxes: 'Admission EFM strip', 'Auscultation', 'Intrapartum EFM (external)', and 'Intrapartum EFM (internal)'. The 'Admission EFM strip' checkbox is checked.
- Intrapartum Pain Management:** A large empty text area with a 'SELECT' button below it.
- Labour & Birth Complications:** A large empty text area with a 'SELECT' button below it.
- Maternal Outcome:** A dropdown menu with 'Select' as the current value.

At the bottom of the form, there are four buttons: 'Save', 'Proceed', 'Submit', and 'Cancel'.

Data Elements

Antenatal Steroids
Group B Strep Antibiotics
Type of Labour
Augmentation
Fetal Surveillance
Intrapartum Pain Management
Labour and Birth Complications
Maternal Outcome

If Type of Labour = Induction, the following fields will become visible:

All Indications for Induction
Primary Indication for Induction
Bishop Score
Cervical Ripening
Methods of Induction
Total Number of Induction Attempts

Birth Mother Encounter

The Birth Mother encounter is comprised of five tabs: Admission, History, Pregnancy, Birth and Outcome and is used to capture the details of either a vaginal or caesarean birth.

Birth Mother Encounter – Admission Tab

If the Admission Tab was completed in the Labour encounter this information will flow forward and populate the Admission tab in the Birth Mother encounter. The pre-population feature means you will not need to enter any data; however, you will need to **review** the information to ensure data accuracy.

If a woman does not have a labour encounter (i.e. she has an elective caesarean), the labour encounter is skipped in its entirety and data entry would begin in the Birth Mother Encounter on the Admission tab. The **History** and **Pregnancy** Tabs are identical to the Labour Encounter. Again, if these tabs were completed in the Labour encounter pre-population will occur. You will need to review the information to ensure accuracy of information.

The screenshot shows the BORN Ontario web interface for a Birth Mother Encounter. The patient's name is Snow White. The interface includes a navigation menu on the left with categories like PSO, Antenatal Care, Labour & Birth, and Postpartum Mother. The main content area displays the 'Birth' tab with sub-tabs for Admission, History, Pregnancy, Birth, and Outcome. The 'Admission' sub-tab is active, showing a form for entering admission details. The form includes fields for Admission Date (dd-MMM-yyyy), Admission Time, Admission by Healthcare Provider (a dropdown menu), and Maternal Transfer From (a dropdown menu). There are buttons for Save, Proceed, Submit, and Cancel at the bottom right of the form.

North York General Hospital / Monica Poole

born Ontario

Patient Search • My Profile • Help •

BORN UAT > Patient Search > Birth Mother

Name: Snow White OHIP#: 1501530933 ID #: 123456 Postal Code: N6A 4V2 City: London
DOB: 05-Nov-1985 Sex: F G: T: P: A: L: EDB: 19-Nov-2011

Birth

Admission History Pregnancy Birth Outcome

Please enter the information below for client admitted to hospital during birth.

Admission Date: Admission Time:

Admission by Healthcare Provider:

Maternal Transfer From:

Save Proceed Submit Cancel

Birth Mother Encounter – Birth Tab

The **Birth** Tab is used to document information regarding the birth experience. Some data elements will be pre-populated if the data was entered in the Labour encounter (i.e. Antenatal Steroids, Group B Strep Antibiotics, Fetal Surveillance, Labour and Birth Complications). Again, all data elements that pre-populate need to be reviewed to ensure accuracy.

Birth

The screenshot shows the 'Birth' tab of a medical encounter form. It is divided into two main sections. The top section contains the following fields:

- Antenatal Steroids: Select
- Group B Strep Antibiotics: Yes No Unknown (radio buttons)
- Fetal Surveillance: Admission EFM strip, Auscultation, Intrapartum EFM (external), Intrapartum EFM (internal) (checkboxes)
- Labour & Birth Complications: [Empty box] SELECT
- Type of Birth: Select
- Maternal Age at time of Stillbirth or Live Birth: [Empty box]
- Newborn DOB: dd-MMM-yyyy [Calendar icon]
- Time of Birth: [Empty box] [Clock icon]
- Birth Location: Select
- Forceps / Vacuum: Select
- Episiotomy: Select
- Perineal Laceration: Select
- Healthcare Provider Attending Birth: Select
- ID of Healthcare Provider Attending Birth: [Empty box]

At the bottom of the top section are buttons: Save, Proceed, Submit, Cancel.

The bottom section, which is only visible when the Type of Birth is Caesarean Section, contains the following fields:

- Type of Birth: Induced or Spontaneous Labour Cesarean
- Time Fully Dilated: [Empty box] [Clock icon]
- Time Started Pushing: [Empty box] [Clock icon]
- If C/S dilation (cm): Select
- If C/S stage: Select
- All Indication for C/S: [Empty box] SELECT
- Primary Indication for C/S: Select
- Anesthesia for C/S: Epidural, Spinal, General, Unknown (checkboxes)

Data Elements

Antenatal Steroids
 Group B Strep Antibiotics
 Fetal Surveillance
 Presentation
 Labour & Birth Complications
 Type of Birth*
 Newborn DOB
 Maternal Age at Time of Birth (auto-calculate)
 Time of Birth
 Birth Location
 Forceps/Vacuum
 Perineal Laceration
 Health Care Provider Attending Birth

If Type of Birth = Caesarean Section, the fields below will become visible:

Time Fully Dilated (if applicable)
 Time Started Pushing (if applicable)
 If C/S stage (if applicable)
 All Indications for Caesarean Section
 Primary Indication for Caesarean Section
 Anaesthesia for Caesarean Section

Birth MOTHER Encounter – Outcome Tab

The **Outcome** Tab is used to document basic information about the outcome of the pregnancy for both the mother and fetus.

Name: Snow White **OHIP#:** 1501530933 **ID #:** 123456 **Postal Code:** N6A 4V2 **City:** London
DOB: 05-Nov-1985 **Sex:** F **G:** **T:** **P:** **A:** **L:** **EDB:** 19-Nov-2011

Birth

Admission History Pregnancy Birth **Outcome**

Fetus	Pregnancy Outcome	Gestational Age at Birth	
Fetus A	Select		

Maternal Outcome:

Admission to Birth Duration (hours):

Save Proceed Submit Cancel

Data Elements

Pregnancy Outcome
 GA at Birth (auto-calculates)
 Maternal Outcome
 Admission to Birth (auto-calculates)

BORN BUILD Briefing November 10, 2011

We hope you had the opportunity to attend the BORN Briefing on November 10th. More deployment information was shared including the need to identify a BORN Local Administrator at your hospital. A highlight of the session was a live demo of the new system! If you missed it, you will be able to access the presentation at <http://www.bornontario.ca/data/information-technology/born-build>. Unfortunately, the live demo is not able to be viewed.



We want to hear from you!
Please send your questions to your Regional Coordinators

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