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BORN Ontario:

BORN Information System Enhancements

Release Date: June 3rd, 2013

Presentation Date: May 28th, 2013

Release Overview

The BORN Information System will be updated on the evening of June 3rd, 2013 . Changes will be done in the following areas:

- User interface changes
 - Landing page
 - Menu options: Data Quality, Acknowledgement, Batch Upload
 - Data submission acknowledgement
- Hospital encounters
- Hospital data quality reports

BORN Information System Enhancements

USER INTERFACE: LANDING PAGE

Landing Page – Organization

- The user's organization is now displayed on the landing page

Hamilton Health Sciences - MUMC / Marlene A Elliott

born
Ontario

Patient Search • Batch Upload • Data Quality Reports • Reporting • Acknowledgement •
Administration • My Profile • Help • Sign Out •

BORN UAT Portal

Patient Search

OHIP #:
or
ID #:
or
Family Name:
Given Name:
Date of Birth: dd-MMM-yyyy

Search

Welcome Marlene A Elliott - Hamilton Health Sciences - MUMC

Announcements

Title	Date Posted
No records to display.	

Page size: 10

Patient Records

- It is also displayed on patient search – select pregnancy screen

Patient Search

Select Pregnancy

Hamilton Health Sciences - MUMC

Please select the relevant pregnancy for which you are entering data, or create a new pregnancy for this patient.

EDB	Select
02-Feb-2012	<input type="radio"/>
10-Nov-2012	<input type="radio"/>
New Pregnancy	<input type="radio"/>

Show All Pregnancies **Select** **Cancel**

Landing Page – Patient Records

- The filter for the Patient Records and ART Patient Records is now saved for the duration of the user's login session
- If you follow the link to a particular patient and then return to the landing page, the most recent filter settings will still be in place

The screenshot shows the 'Patient Records' interface. A red box highlights the filter section, which includes 'Created date from: 01-Dec-2012', 'Created date to: 31-Dec-2012', and 'Status: Draft'. An orange 'Refine Results' button is located to the right of the filters. Below the filters is a table with the following data:

Record Type	OHIP #	Patient Name	Date of Birth	Status	Created	Created By	Last Updated
Antenatal Specialty		<u>AS, Test</u>	01 Feb 1984	Draft	20 Dec 2012	Marlene Elliott	20 Dec 2012

At the bottom of the table, there are navigation controls: a page number '1', a 'Page size: 10' dropdown, and a status '1 items in 1 pages'.

BORN Information System Enhancements

USER INTERFACE: MENU CHANGES

Menu Changes - Overview

To better support the operational processes, the following changes were made:

- New menu options added for Data Quality Reports and Acknowledgement
- Batch Upload and all related functionality (e.g., error correction) moved under single menu
- Order of menu items changed

Data Quality Reports Menu

- New menu option added for Data Quality Reports on top menu as well as on Quick Links menu on the left navigation bar
- Menu contains links to data quality reports related to organization (e.g., hospital, midwife, fertility clinic)

These reports continue to be available under Reporting – Administrative reports

The screenshot shows the BORN Ontario user interface. At the top, the logo 'born Ontario' is on the left. The top navigation bar contains links for 'Patient Search', 'Batch Upload', and 'Data Quality Reports' (highlighted with a red box). Below this, there are links for 'Administration', 'My Profile', 'Help', and 'Sign Out'. A breadcrumb trail reads 'BORN UAT Portal > Data Quality Reports'. On the left, a 'Quick Links' sidebar lists 'Patient Search', 'Batch Upload', and 'Data Quality Reports' (highlighted with a red box). Under 'Data Quality Reports', there are several sub-items: 'Reconciliation - Maternal Newborn', 'Reconciliation - NICU/SCN', 'Incomplete Maternal Record', 'Incomplete Infant Record', 'Incomplete NICU Records', 'Missing Data Elements - Labour & Birth and Postpartum Mother', and 'Missing Data Elements - Birth and Postpartum Child'. The main content area is titled 'Data Quality'.

Acknowledgement Menu

- Data Submission Acknowledgement functionality moved from Administration menu to new Acknowledgement menu
- New user role created for 'Organization Data Acknowledgement'
 - The ability to do data submission acknowledgement can now be assigned to a user independently of the local administration role

born Ontario

Patient Search • Batch Upload • Data Quality Reports • Reporting • **Acknowledgement** •

Administration • My Profile • Help • Sign Out •

BORN UAT Portal > Acknowledgement

Quick Links

- Patient Search
- Batch Upload
- Data Quality Reports
- Reporting
- **Acknowledgement**
- Administration
- My Profile
- Help
- Select Organization
- Sign Out

Data Submission Acknowledgement

* fields are mandatory

Organization: **Hamilton Health Sciences - MUMC**

Year *: 2013 Month *: May

Show all unacknowledged records

Year	Month	Data Submission Type	Data Submission	Comments	Date/Time Submitted	User
2013	May	Antenatal Speciality	<input type="checkbox"/>			
2013	May	Labour, Birth and	<input type="checkbox"/>			

Any users with the local administration role will continue to have access to the acknowledgement functionality

Batch Upload Menu

- Batch Upload functionality, Queue Management, and Normalization Errors moved under single Batch Upload menu

The screenshot displays the BORN Ontario web application interface. At the top left is the BORN Ontario logo. The main navigation bar includes links for Patient Search, Batch Upload (highlighted with a red box), and Data Quality Reports. Below this, there are links for Administration, My Profile, Help, and Sign Out. A breadcrumb trail shows 'BORN UAT Portal > Batch Upload'. On the left side, a 'Quick Links' sidebar lists Patient Search, Batch Upload (highlighted with a red box), Hospital Batch Upload Step-by-Step Guide, Process Upload File, Normalization Error Queue, and Cleansing Error Queue. The main content area is titled 'Batch Upload Home'.

Menu Order

- The order of menu options on the top menu and the Quick Links bar has been updated

The screenshot displays the BORN UAT Portal interface. At the top left is the BORN Ontario logo. A red box highlights the top navigation menu with the following items: Patient Search, Batch Upload, Data Quality Reports, Reporting, Acknowledgement, Administration, My Profile, Help, and Sign Out. Below the logo is a breadcrumb trail: BORN UAT Portal > Patient Search. On the left side, a 'Quick Links' sidebar is shown with a red box around its items: Patient Search, Batch Upload, Data Quality Reports, Reporting, Acknowledgement, Administration, My Profile, Help, Select Organization, and Sign Out. The main content area is titled 'Patient Search' and includes instructions: 'Please specify only one of the following search criteria: - OHIP # or - Hospital ID # or - A combination of Family Name, Given Name, and DOB'. Below this are input fields for OHIP #, ID #, Family Name, Given Name, and DOB (with a date format dd-MMM-yyyy).


BORN Information System Enhancements

DATA ACKNOWLEDGEMENT


Data Acknowledgement

- Support for acknowledging multiple months
 - If a user selects multiple months to acknowledge and acknowledgement is successful for some months but not others:
 - Green success messages will appear for the acknowledged months and acknowledgement completed for those specific months
 - Red error messages for the failed months will appear as per existing functionality and acknowledgement will not be completed for those specific months

2013	January	Labour, Birth and Postpartum	<input checked="" type="checkbox"/>	<input type="text"/>	Mat Inf
2013	February	Labour, Birth and Postpartum	<input checked="" type="checkbox"/>	<input type="text"/>	
2013	March	Labour, Birth and Postpartum	<input type="checkbox"/>	<input type="text"/>	
2013	April	Labour, Birth and Postpartum	<input type="checkbox"/>	<input type="text"/>	
2013	May	Antenatal Speciality	<input type="checkbox"/>	<input type="text"/>	
2013	May	Labour, Birth and Postpartum	<input type="checkbox"/>	<input type="text"/>	Mat Inf

 **Month End Acknowledgement Updated**

- You have Successfully acknowledged Labour, Birth and Postpartum for February-2013.

 **The following errors occurred while processing your request**

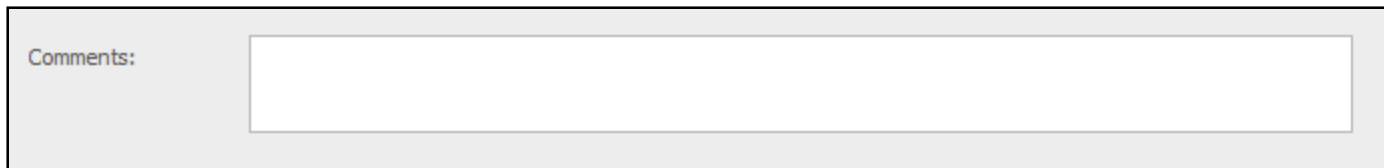
- Labour, Birth and Postpartum cannot be submitted for the month of January-2013 because there are records with draft status.

BORN Information System Enhancements

HOSPITAL ENCOUNTERS

Encounters – Comments field

- All hospital and midwifery encounters have been updated to include a comments field



A screenshot of a software interface showing a 'Comments:' label on the left and a large, empty rectangular text input field on the right, all contained within a light gray border.

Encounter Validation Rule Changes

Impacted Encounters	Current Rule	Revised Rule
Birth Mother	Cannot be > than 6 hours from Time Fully Dilated to Time Started Pushing	Cannot be > than 24 hours from Time Fully Dilated to Time Started Pushing
Birth Mother	Cannot be > than 6 hours from Time Started Pushing to Time of Birth	Cannot be > than 24 hours from Time Started Pushing to Time of Birth
Birth Mother	Difference between Time Fully Dilated and time of birth cannot be > greater than 12 hours	Remove rule
Birth Mother	If Maternal - Suspected chorioamnionitis is selected in All indications for C/S, then Labour and birth complication must include fever >38.5	Remove rule
Birth Child	APGAR values of 0,0,0 are not allowed for a live birth	APGAR values of 0,0,0 are allowed for a live birth if the newborn resuscitation value is not set to none.

BORN Information System Enhancements

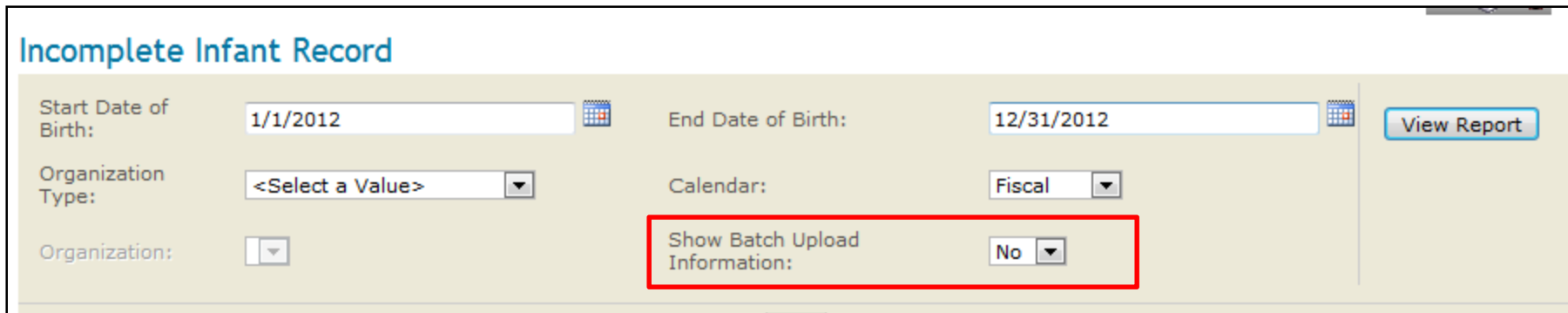
HOSPITAL DATA QUALITY REPORTS

Incomplete Record Reports

- The Incomplete Maternal Record report and Incomplete Child Record report have been updated with two changes:
 - New filter option: ‘Show Batch Upload Information’
 - Summary and details of patients in Match Queue

Incomplete Record Reports (cont.)

- A new filter option added to ‘Show Batch Upload Information’. The filter is defaulted to ‘No’



The screenshot shows a web form titled "Incomplete Infant Record". It contains several input fields: "Start Date of Birth:" with the value "1/1/2012", "End Date of Birth:" with the value "12/31/2012", "Organization Type:" with a dropdown menu showing "<Select a Value>", "Calendar:" with a dropdown menu showing "Fiscal", and "Organization:" with a dropdown menu. A "View Report" button is located on the right side. A red box highlights the "Show Batch Upload Information:" field, which has a dropdown menu set to "No".

- If set to ‘No, reports will function as they do today
- If set to ‘Yes’, additional batch upload columns will appear on the detail tabs related to the source upload files and users that last created or updated the encounters

Incomplete Record Reports (cont.)

- Additional Batch Upload columns
 - On the detail tabs in the reports, information is now provided on the source of each encounter:
 - Batch file that created/updated encounter
 - Date and time the batch file was processed
 - Date and time the encounter was last updated
 - This will be different than the batch file date/time if the encounter was updated manually via the user interface or cleansing queue / queue management edit functionality
 - User ID of person who last updated the encounter

Columns repeated for each encounter

Labour Batch File	Batch file processed date/time	Encounter Last Updated Date/Time	Encounter Last Updated By	Birth Batch File	Batch file processed date/time
BORN_HOSPTEST_HOSPM_T_20120305_004.csv	05-Mar-2012 16:35	04-Feb-2013 15:26	BORN\fqan	BORN_HOSPPSFD_HOSPM_T_20120305_004.csv	05-Mar-2012 16:35

Incomplete Record Reports (cont.)

- Match Queue

- The match queue only relates to records being entered via the batch upload functionality
- Patients are put in match queue if the incoming patient record has sufficient demographics information in common with an existing BORN patient to be a potential match. Manual intervention to resolve the match will be performed by a BORN agent to determine if this a new patient or a match to an existing patient

Incomplete Record Reports (cont.)

- On the summary tab, counts of the patients in the match queue are now displayed

Admissions			
Admission date	# of women admitted (upload sites only)	# of women in match queue	Total # of dispositions
2010-2011	50	0	1

- A new tab has been added providing details on the patients in the match queue

Match queue details								
Organization	Line # in file	Patient type	Patient ID #	Patient given name	Patient family name	Date of birth	OHIP	Notes
Test	1	Mother	Chart #\ABCCH1	Sandra	Tes	3-Aug-1973	1111111111	
Data source	BORN Ontario							
Notes	<p>This report reflects the status of the queues at the time the report is executed.</p> <p>Hospital Upload: Patient ID# is the MaternalChartNumber in HOSPM file or NewbornChartNum in HOSPC File.</p>							
						Match queue		

Maternal Newborn Reconciliation Report

- A summary page was added to the Maternal Newborn Reconciliation report


born Ontario		Maternal Newborn Reconciliation Report						
Maternal Newborn Reconciliation summary								
Test Hospital from 01-Jan-2013 to 31-Jan-2013								
Admission date	# of maternal admissions	# of maternal dispositions	# of Birth Mother encounters	Total # of fetuses (from the Birth Mother encounter)	# of Birth Mother encounters where fetuses is unknown	# of live births (from the Birth Child encounter)	# of stillbirths (from the Birth Child encounter)	# of neonatal transfer / discharge
2012-2013	5	6	4	6	1	4	1	20

- **# maternal admissions:** # of maternal patients who have a labour, birth, or postpartum encounter with an admission date in the provided date range
- **# of maternal dispositions:** # of maternal patients who have a labour, birth, or postpartum encounter with the disposition date from the final maternal outcome in the provided date range.

Counts match existing Maternal Admissions tab

Counts match existing Maternal Dispositions tab

Maternal Newborn Reconciliation (cont.)

		Maternal Newborn Reconciliation Report						
Maternal Newborn Reconciliation summary								
Test Hospital from 01-Jan-2013 to 31-Jan-2013								
Admission date	# of maternal admissions	# of maternal dispositions	# of Birth Mother encounters	Total # of fetuses (from the Birth Mother encounter)	# of Birth Mother encounters where fetuses is unknown	# of live births (from the Birth Child encounter)	# of stillbirths (from the Birth Child encounter)	# of neonatal transfer / discharge
2012-2013	5	6	4	6	1	4	1	20

- **# of Birth Mother encounters:** # of maternal patients who have a birth mother encounter with a newborn date of birth in the provided date range
- **Total # of fetuses (from the Birth Mother encounter):** # of total fetuses from the birth mother encounters with a newborn date of birth in the provided date range
- **# of Birth Mother encounters where # of fetuses is unknown:** # of maternal patients who have a birth mother encounter with a newborn date of birth in provided date range and # of fetuses was unknown

Counts match new List of Birth(s) (Birth Mother) tab

Counts match sum of # of fetuses field in new List of Birth(s) (Birth Mother) tab

Counts match # of rows where of fetuses = unknown in new List of Birth(s) (Birth Mother) tab

Maternal Newborn Reconciliation (cont.)

born Ontario		Maternal Newborn Reconciliation Report						
Maternal Newborn Reconciliation summary								
Test Hospital from 01-Jan-2013 to 31-Jan-2013								
Admission date	# of maternal admissions	# of maternal dispositions	# of Birth Mother encounters	Total # of fetuses (from the Birth Mother encounter)	# of Birth Mother encounters where fetuses is unknown	# of live births (from the Birth Child encounter)	# of stillbirths (from the Birth Child encounter)	# of neonatal transfer /discharge
2012-2013	5	6	4	6	1	4	1	20

- **# of live births (from the Birth Child encounter):** # of birth child encounters where live birth in the provided date range
- **# of stillbirths (from the Birth Child encounter):** # of birth child encounters where stillbirth (≥ 20 weeks) in the provided date range
- **# of newborn discharges/transfers:** # of neonatal dispositions for infants with a birth child encounter in that organization where the disposition date in the given date range
 - The Disposition is based on the Neonatal transfer to NICU/SCN from the birth child encounter and the Neonatal Transfer/Discharge from the postpartum child encounter.

Counts of live births + stillbirths match existing List of Births tab (Birth Child)

Counts match existing neonatal transfer discharge tab

Maternal Newborn Reconciliation (cont.)

- New detail tab added: List of birth(s) (Birth Mother)
 - Provides a summary of all birth mother encounters (in a given place and time) with a newborn date of birth within the provided date range
- Additional columns added to all detail tabs
 - Tabs related to maternal patients contain the following fields:

– Maternal chart number	– Newborn date of birth
– Maternal hospital visit ID	– Newborn time of birth
– Health card number	– Pregnancy outcome(s)
– Given name	– Maternal disposition
– Family name	– Maternal disposition date
– Maternal admission date	– Maternal disposition time
– Maternal admission time	– Infant chart number
– # of fetuses	– Infant hospital visit ID

Maternal Newborn Reconciliation (cont.)

- Additional columns added to all detail tabs
 - Tabs related to infants contain the following fields:
 - Infant chart number
 - Infant hospital visit ID
 - Health card number
 - Given name
 - Family name
 - Date of birth
 - Time of birth
 - Birth outcome
 - GA at birth
 - Neonatal disposition
 - Neonatal disposition date
 - Neonatal disposition time
 - Birth Location
 - Birth Hospital
 - Maternal chart number
 - Maternal hospital visit ID

Questions?



Please contact your
BORN Coordinator if
you have any
questions

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