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## April 2017 Enhancements to the BORN Information System (BIS) Overview and Impact Assessment for Upload Hospitals

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 **The next enhancements release of the BORN Information System (BIS) will be live the evening of Wednesday, April 4th, 2018.**

The Hospital Upload File Specification v4.1.0 details the changes for this release and can be found at [www.bornontario.ca](http://www.bornontario.ca) Follow links for BORN Information System – Data Entry Training – Hospital Upload. Please note there are retired data elements but **no column removals to the record layout** as part of this release. Additionally, there are **new data elements and updates to some data element headers**.

This document provides an overview of the changes as well as additional information on transition timing / release cutover. We have indicated which of the changes can be implemented in advance of the release date and the impact on the site if the changes are not in place by April 4, 2018. Those items that cannot be implemented in the upload file in advance of the April 4<sup>th</sup> have been **highlighted in yellow**. Hopefully, this will allow you to leverage any available resources in your organization between now and April 2018.

**This document is intended as a summary** of all the changes in a user-friendly format. Please refer to the Hospital Upload File Specification v4.1.0 (excel file) for full details on the changes including version history, upload reference codes, field types, etc.

EMR screen changes should to be in place by April 1<sup>st</sup>, 2018 to collect any new data element pick list values for the start of the fiscal year. On the evening of April 4, 2018, the BIS 2018 Enhancements will be released to the production environment and the upload will support the changes (e.g., new values, validations).

## Maternal Encounters:

Labour/Birth Mother (LBM), Postpartum Mother (PPM)

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can sites implement changes prior to April 5, 2017?	What will happen if sites don't implement by April 5, 2017?															
18	M0014	Maternal Primary Language	<p><b>Picklist Updates:</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Changes</th> </tr> </thead> <tbody> <tr> <td>KHM</td> <td>Central Khmer (Cambodian)</td> <td>Renamed</td> </tr> <tr> <td>PUS</td> <td><del>Pushto</del> Pashto</td> <td>Renamed</td> </tr> <tr> <td>KMR</td> <td>Khmer</td> <td>New</td> </tr> <tr> <td>DAR</td> <td>Dari</td> <td>New</td> </tr> </tbody> </table> <p><i>Allows for more correct documentation of patient primary language</i></p>	Code	Description	Changes	KHM	Central Khmer (Cambodian)	Renamed	PUS	<del>Pushto</del> Pashto	Renamed	KMR	Khmer	New	DAR	Dari	New	<p>Partially.</p> <p>Yes, renamed data elements can be implemented prior to go live</p> <p>No, new values will not be available until go live.</p>	<p>Maternal Primary Language will not be aligned with BIS and new language values selectable to users.</p>
Code	Description	Changes																		
KHM	Central Khmer (Cambodian)	Renamed																		
PUS	<del>Pushto</del> Pashto	Renamed																		
KMR	Khmer	New																		
DAR	Dari	New																		
21	D0044H OSP	Maternal Transfer Hospital From	<p><b>New Validation Rule:</b></p> <p>- Cannot be uploading hospital</p> <p><i>Rule will help prevent nonsensical data. These should be submitted as "No Transfer" in D0044 and the hospital left blank in this field.</i></p>	<p>Yes</p>	<p>Encounters with this data quality issue will process with error and require correction</p>															

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can sites implement changes prior to April 5, 2017?	What will happen if sites don't implement by April 5, 2017?												
24	R0052	Reason for Maternal Transfer	<p><b>Picklist Updates:</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Encounters</th> </tr> </thead> <tbody> <tr> <td>MT008</td> <td>Keeping baby and mother together</td> <td><del>LBM</del>, PPM</td> </tr> <tr> <td>MT009</td> <td>Care closer to home</td> <td><del>LBM</del>, PPM</td> </tr> <tr> <td>MT010</td> <td>Condition improved</td> <td><del>LBM</del>, PPM</td> </tr> </tbody> </table> <p><i>The values have been removed for the LBM encounter as they would not apply but are still available for the PPM encounter.</i></p>	Code	Description	Encounters	MT008	Keeping baby and mother together	<del>LBM</del> , PPM	MT009	Care closer to home	<del>LBM</del> , PPM	MT010	Condition improved	<del>LBM</del> , PPM	Yes	Encounters with this data quality issue will process with error and require correction
Code	Description	Encounters															
MT008	Keeping baby and mother together	<del>LBM</del> , PPM															
MT009	Care closer to home	<del>LBM</del> , PPM															
MT010	Condition improved	<del>LBM</del> , PPM															
26	M0048	Mental Health Concerns	<p><b>New Validation Rule:</b></p> <p>- Value 'History of Postpartum Depression' may only be selected if Gravida is &gt;1.</p> <p><i>Rule added to improve data quality.</i></p>	Yes	Encounters with this data quality issue will process with error and require correction												

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can sites implement changes prior to April 5, 2017?	What will happen if sites don't implement by April 5, 2017?
28	M0030	Gravida (G)	<p><b><u>Validation Rule Change:</u></b></p> <p><u>Removed</u></p> <p>- Must be greater than 1 if <u>NumberOfPreviousTermBirths</u> &gt; 0 or <u>NumberOfPreviousPretermBirths</u> &gt; 0 or <u>NumberOfPreviousAbortions</u> &gt; 0</p> <p><u>Added</u></p> <p>- Gravida must be equal to <u>NumberOfPreviousTermBirths</u> + <u>NumberOfPreviousPretermBirths</u> + <u>NumberOfPreviousAbortions</u> + 1 (if 'Unknown' is not entered for any of T, P, A)</p> <p><i>Validation rule has been tightened for data quality as the related fields have been defined more appropriately. Note changes to column 29 and 30 below.</i></p>	Yes	Encounters with this data quality issue will process with error and require correction
29	M0031	Number of Previous Term Pregnancies (T)	<p><b><u>Renamed Data Element:</u></b></p> <p>Number of Previous Term <del>Births</del> <b>Pregnancies</b> (T)</p> <p><i>Redefined to match OPR guidelines and allow better gravida validation for mothers with multiple gestation pregnancies.</i></p>	Yes	Field will not align with BIS and may cause submission of incorrect values
30	M0032	Number of Previous Preterm Pregnancies (P)	<p><b><u>Renamed Data Element:</u></b></p> <p>Number of Previous Preterm <del>Births</del> <b>Pregnancies</b> (T)</p> <p><i>Redefined to match OPR guidelines and allow better gravida validation for mothers with multiple gestation pregnancies.</i></p>	Yes	Field will not align with BIS and may cause submission of incorrect values

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can sites implement changes prior to April 5, 2017?	What will happen if sites don't implement by April 5, 2017?						
34	M0035	Number of Previous Caesarean Births	<p><b>Picklist Updates:</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Changes</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>≥6</td> <td>Redefined/Renamed</td> </tr> </tbody> </table> <p>Redefined to allow for more accurate documentation of maternal history.</p>	Code	Description	Changes	6	≥6	Redefined/Renamed	Yes	Field will not align with BIS and users may not be able to document accurately
Code	Description	Changes									
6	≥6	Redefined/Renamed									
36	M0034	Number of Previous Vaginal Births	<p><b>Conditionality Change:</b></p> <p><b>AG and LBM: <del>Optional</del> → Mandatory</b></p> <p>Important data element for collection and allows for improved consistency and validation. Value of 'Unknown' is available when not documented.</p>	Yes	Encounters with this data element missing will process with error and require correction						
41	M0201	Type of Conception	<p><b>Validation Rule Updates:</b></p> <p>- If <u>EDB determined by</u> = '<del>Artificial</del> Assisted Reproductive Technology' then <u>Type of Conception</u> cannot = 'Spontaneous'</p> <p>- All values mutually exclusive except 'Surrogate'. Value 'Surrogate' can be selected with any other value except 'Unknown'.</p> <p>New validation rule will improve data quality. Typo corrected for accuracy.</p>	Yes	Encounters with this data quality issue will process with error and require correction						

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can sites implement changes prior to April 5, 2017?	What will happen if sites don't implement by April 5, 2017?
55	D0018	Medication Exposure in Pregnancy	<p><b>Value Rule Updates:</b></p> <ul style="list-style-type: none"> <li>- If Maternal Health Conditions is 'Diabetes Type I' or 'Type II   Insulin' then Medication Exposure in Pregnancy must contain 'Insulin'.</li> <li>- If Diabetes and Pregnancy is 'Gestational   Insulin' then Medication Exposure in Pregnancy must contain 'Insulin'.</li> <li>- If 'Hypothyroidism - Managed' is selected on <u>Maternal Health Conditions (M0013)</u> and 'Thyroid Medication' is not selected display warning to user</li> </ul> <p><i>Changes will improve data quality. New Warning message is optional enhancement that will improve data quality but not impact BIS processing of upload file.</i></p>	Yes	<p>Encounters with this data quality issue will process with error and require correction.</p> <p>New warning validation will not prevent upload from processing.</p>
59	M0531	Complications of Pregnancy	<p><b>New Validation Rule:</b></p> <ul style="list-style-type: none"> <li>- Must include 'Fetal   Intrauterine Growth Restriction' if 'Fetal   Intrauterine Growth Restriction' is provided in <u>AllIndicationsinCS</u></li> </ul> <p><i>New validation rule will improve data quality.</i></p>	Yes	<p>Encounters with this data quality issue will process with error and require correction</p>

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can sites implement changes prior to April 5, 2017?	What will happen if sites don't implement by April 5, 2017?
60	D0013	Diabetes and Pregnancy	<p><b><u>Validation Rule Updates:</u></b></p> <p><u>Removed:</u></p> <ul style="list-style-type: none"> <li>- Must include 'Type II   Insulin' or 'Type II   No Insulin' if 'Type II   Insulin' or 'Type II   No Insulin diabetes' is selected in <u>Pre-existing Health Conditions</u></li> </ul> <p><u>Added</u></p> <ul style="list-style-type: none"> <li>- Must include 'Type I' if 'Diabetes   Diabetes Type I' is selected in <u>Pre-existing Health Conditions</u></li> <li>- Must include 'Type II   No Insulin' if 'Diabetes   Diabetes Type II - No Insulin' is selected in <u>Pre-existing Health Conditions</u></li> <li>- Must include 'Type II   Insulin' if 'Diabetes   Diabetes Type II - Insulin' is selected in <u>Pre-existing Health Conditions</u></li> <li>- Must include 'Type Unknown' if 'Diabetes   Diabetes Type Unknown' is selected in <u>Pre-existing Health Conditions</u></li> </ul> <p><i>Validation rule changes will improve data quality.</i></p>	Yes	Encounters with this data quality issue will process with error and require correction

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can sites implement changes prior to April 5, 2017?	What will happen if sites don't implement by April 5, 2017?
63	M0528	Group B Strep Antibiotics	<p><b><u>New Warning Validations:</u></b></p> <p>-When <u>Group B Strep Antibiotics</u> = 'No' and <u>GBS Screening Result (35-37 weeks)</u> is 'Positive' or 'Unknown', display a warning "GBS Screening Result (35-37 weeks) is entered as positive or unknown. Please confirm no antibiotics were administered."</p> <p>-If <u>Infections in Pregnancy</u> is 'Group B Streptococcus' and <u>Antibiotics given</u> is 'No', display a warning "Group B Streptococcus was selected under Infections in Pregnancy. Please confirm no antibiotics were administered"</p> <p><i>Optional enhancement will improve data quality but not impact BIS processing of upload file. Warning should improve data quality.</i></p>	Yes	New warning validation will not prevent upload from processing.
76	M0503	Type of Birth	<p><b><u>New Warning Validations:</u></b></p> <p>- If <u>Complications in Pregnancy</u> is "placenta accreta" and <u>Type of Birth</u> is 'Spontaneous Vaginal' or 'Assisted Vaginal', display warning to user to confirm</p> <p><i>Optional enhancement will improve data quality but not impact BIS processing of upload file. Warning should improve data quality.</i></p>	Yes	New warning validation will not prevent upload from processing.



Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can sites implement changes prior to April 5, 2017?	What will happen if sites don't implement by April 5, 2017?
77	M0524	Time Fully Dilated	<p><b>Conditionality Change/New Data Element:</b></p> <p><b>LBM: Mandatory → Mandatory*</b></p> <p><i>*Unknown values may be submitted as '190001010000'</i></p> <p><i>It is possible that users may not know the value so instead of submitting incorrect values, an unknown option should be available. We recommend having the user select the value is unknown in place of taking a blank value as unknown (i.e. a checkbox next to the field).</i></p>	No, value will conflict with existing validation rules until go-live	Field will not align with BIS and users may not be able to document accurately
82	D0040	All Indications for Cesarean Section	<p><b>Validation Rule Change:</b></p> <p>- If <b>Type of Birth</b> is 'C/S' and <b>Complications of Pregnancy</b> is 'Placental   Placental accreta' or 'Placental   Placental increta' or 'Placental   Placental percreta' then <b>All Indications for C/S</b> must include 'Maternal   Placenta Increta/Accreta/Percreta'</p> <p><i>Validation rule updated to allow entry of rare but possible scenario.</i></p>	Yes	Field will not align with BIS and users may not be able to document accurately
87	N0005	Birth Location	<p><b>New Validation Rule:</b></p> <p>- If <b>Reason for maternal transfer from</b> is 'Birth outside of hospital prior to admission' then cannot be 'Hospital'</p> <p><i>New validation rule will improve data quality.</i></p>	Yes	Encounters with this data quality issue will process with error and require correction

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can sites implement changes prior to April 5, 2017?	What will happen if sites don't implement by April 5, 2017?
91	M0515	Healthcare Provider who caught/delivered baby	<p><b><u>New Warning Validations:</u></b></p> <ul style="list-style-type: none"> <li>- Display warning when <u>Birth Location</u> = "Home" and <u>HCP who caught/delivered baby</u> = 'OB', 'Resident', 'Surgeon', or 'CNS/NP'</li> </ul> <p><i>Optional enhancement will improve data quality but not impact BIS processing of upload file.</i></p>	Yes	New warning validation will not prevent upload from processing.
95	R0052T O	Reason For Maternal Transfer To (Transfer)	<p><b><u>Picklist Exclusions:</u></b></p> <ul style="list-style-type: none"> <li>- <b>LBM (Discharge Prior to Birth):</b> 'Care closer to home' unselectable</li> <li>- <b>LBM:</b> 'Birth outside of hospital prior to admission' and 'Condition improved' unselectable</li> <li>- <b>PPM:</b> 'Birth outside of hospital prior to admission' unselectable</li> </ul> <p><i>New picklist exclusions will improve data quality.</i></p>	Yes	Encounters with this data quality issue will process with error and require correction

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can sites implement changes prior to April 5, 2017?	What will happen if sites don't implement by April 5, 2017?									
98	R0053	Barrier to maternal transfer	<p><b>Conditionality Change:</b>  <b>LBM: <del>Optional</del> → Conditional</b></p> <p><b>New Validation Rule:</b></p> <p><b>Level I and Level II Hospitals only:</b></p> <p>- Mandatory if <u>Maternal Outcome (Transfer)</u> = 'No Transfer' and <u>Pregnancy Outcome (Fetus1)</u> = 'Live Birth' and <u>Gestational Age at time of birth</u> is as per below for submitting hospital by <u>Level of Care</u>:</p> <p>Level I &lt; 36 + 0 weeks            Level IIa &lt; 34 + 0 weeks            Level IIb &lt; 32 + 0 weeks            Level IIc &lt; 30 + 0 weeks</p> <p><b>Picklist Updates:</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Changes</th> </tr> </thead> <tbody> <tr> <td><del>BIRTHB4ADM</del></td> <td><del>Birth prior to admission to hospital</del></td> <td>Removed</td> </tr> <tr> <td><del>NONE</del></td> <td><del>None</del></td> <td>Removed</td> </tr> </tbody> </table> <p><i>This change will help monitor when babies are born out of scope which is Important data provincially. Field remains not applicable to level 3 hospitals.</i></p>	Code	Description	Changes	<del>BIRTHB4ADM</del>	<del>Birth prior to admission to hospital</del>	Removed	<del>NONE</del>	<del>None</del>	Removed	Yes	Field will not align with BIS and users may not be able to document accurately. Uploads will process with error and require correction
Code	Description	Changes												
<del>BIRTHB4ADM</del>	<del>Birth prior to admission to hospital</del>	Removed												
<del>NONE</del>	<del>None</del>	Removed												

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can sites implement changes prior to April 5, 2017?	What will happen if sites don't implement by April 5, 2017?									
99	M0537-H	Maternal Outcome	<p><b>Picklist Exclusions:</b></p> <p>- PPM: 'No Transfer' unselectable</p> <p><b>Picklist Update:</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Changes</th> </tr> </thead> <tbody> <tr> <td>THOSP</td> <td>Transfer to other hospital/organization</td> <td>Renamed</td> </tr> </tbody> </table> <p><i>Renamed value for accuracy as transfer may be to Birth Centre or Midwife Practice Group.</i></p>	Code	Description	Changes	THOSP	Transfer to other hospital/organization	Renamed	Yes	Field will not align with BIS and be possibly misleading to users			
Code	Description	Changes												
THOSP	Transfer to other hospital/organization	Renamed												
102	F0053-1	Pregnancy Outcome	<p><b>Conditionality Change:</b></p> <p>PPM Only: <del>Not Used</del> → Mandatory</p> <p><i>This change will facilitate validation criteria for Postpartum Breastfeeding Support (Column 109)</i></p>	Yes	Users will not be able to accurately document clinically important values									
108	M0529	Post Partum Complication	<p><b>Picklist Updates</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Changes</th> </tr> </thead> <tbody> <tr> <td>PPC015</td> <td>MRSA Positive</td> <td>New</td> </tr> <tr> <td>PPC016</td> <td>Postpartum Haemorrhage Requiring Transfusion</td> <td>New</td> </tr> </tbody> </table> <p><i>New values added for clinical importance.</i></p>	Code	Description	Changes	PPC015	MRSA Positive	New	PPC016	Postpartum Haemorrhage Requiring Transfusion	New	No, new picklist values will not be available until go-live	Users will not be able to accurately document clinically important values
Code	Description	Changes												
PPC015	MRSA Positive	New												
PPC016	Postpartum Haemorrhage Requiring Transfusion	New												

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can sites implement changes prior to April 5, 2017?	What will happen if sites don't implement by April 5, 2017?
109	N0051	Postpartum Breastfeeding Support	<p><b>Conditionality Change:</b>  <b>PPM: Mandatory</b> → <b>Conditional</b></p> <p><b>New Validation Rule:</b>            - Mandatory if <u>Pregnancy Outcome</u> is 'Live Birth'</p> <p><i>This change will help improve ease of entry for users.</i></p>	No, data element will be mandatory until go-live	Users will not benefit from reduced entry
115	Y02091	Birth Hospital	<p><b>New Validation Rule:</b>            - <b>PPM only: Cannot be uploading hospital</b></p> <p><i>If the birth took place in the uploading hospital then a LBM encounter should be submitted and the necessary fields entered.</i></p>	Yes	Encounters with this data quality issue will process with error and require correction
117	M0700	GBS Screening Date	<p><b>Validation Rule changes:</b>  <del>- Cannot be greater than 8 weeks prior to Estimated Date of Birth</del></p> <p>- Cannot be greater than 2 weeks after Estimated Date of Birth</p> <p><i>Allows submission of GBS screening values that took place earlier for certain clinical scenarios that would not have allowed entry previously.</i></p>	No, new validation rules will not be available until go-live	Users will not be able to document GBS screening date accurately for certain scenarios.

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can sites implement changes prior to April 5, 2017?	What will happen if sites don't implement by April 5, 2017?															
119	M0702	Other Care Providers at time of labour and/or birth	<p><b>Picklist Updates:</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Changes</th> </tr> </thead> <tbody> <tr> <td>CNS</td> <td>Clinical Nurse Specialist/Nurse Practitioner <del>CNS/NP</del></td> <td>Renamed</td> </tr> <tr> <td>PAED</td> <td>Paediatrician</td> <td>New</td> </tr> <tr> <td>NEONAT</td> <td>Neonatologist</td> <td>New</td> </tr> <tr> <td>RESP</td> <td>Respiratory Therapist</td> <td>New</td> </tr> </tbody> </table> <p><i>Allows for more collection of additional clinically relevant values. Acronym removed for clarity.</i></p>	Code	Description	Changes	CNS	Clinical Nurse Specialist/Nurse Practitioner <del>CNS/NP</del>	Renamed	PAED	Paediatrician	New	NEONAT	Neonatologist	New	RESP	Respiratory Therapist	New	<p>No, new picklist values will not be available until go-live</p> <p>Yes, picklist element can be renamed</p>	Users will not be able to document new clinically relevant values.
Code	Description	Changes																		
CNS	Clinical Nurse Specialist/Nurse Practitioner <del>CNS/NP</del>	Renamed																		
PAED	Paediatrician	New																		
NEONAT	Neonatologist	New																		
RESP	Respiratory Therapist	New																		
123	M0706	Progesterone taken daily	<p><b>New Data Element:</b></p> <p><u>Conditionality:</u> AG - Conditional LBM - Conditional PPM – Not Applicable</p> <p><u>Validation Rules:</u> - Mandatory when <u>Gravida</u> &gt; 1</p> <p><u>Column Data Type:</u> Yes/No/Unknown</p>	<p>No, new data element will not be available until go-live</p>	All upload submissions missing this data element will result in error and require correction															

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can sites implement changes prior to April 5, 2017?	What will happen if sites don't implement by April 5, 2017?
124	M0707	ASA (aspirin) taken daily	<p><b><u>New Data Element:</u></b></p> <p><u>Conditionality:</u>            AG - Conditional            LBM - Conditional            PPM – Not Applicable</p> <p><u>Validation Rules:</u>            - Mandatory when <u>Gravida</u> &gt; 1</p> <p><u>Column Data Type:</u>            Yes/No/Unknown</p>	No, new data element will not be available until go-live	All upload submissions missing this data element will result in error and require correction

## Child Encounters:

Birth Child (BC), Postpartum Child (PPC), NICU/SCN (NICU)

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can site implement changes prior to April 5, 2017?	What is impact if not supported by April 5, 2017?
27	N0006	Time Of Birth	<p><b><u>New Data Element (NICU encounter):</u></b></p> <p><b>NICU: Not applicable → Conditional</b></p> <p><b><u>New Validation Rule:</u></b></p> <p>- Mandatory if <u>Neonatal Transferred from</u> includes 'same hospital'. (i.e. 'Labour and Birth Unit same Hospital' or 'Mother Baby unit (PostPartum) same Hospital')</p> <p><i>Value was previously collected on the NICU encounter but removed and has been reinstated</i></p>	Yes	Encounters submitted will receive error and require correction
41	FAN0103	Arterial Cord Blood test pH	<p><b><u>New Validation Rules:</u></b></p> <p>- Values must be between 0.0 and 14.0. Display warning if values not between 6.0 and 8.0</p> <p><i>New Validation rule will improve data quality. New Warning message is optional enhancement that will improve data quality but not impact BIS processing of upload file.</i></p>	Yes	Encounters with this data quality issue will process with error and require correction.  New warning validation will not prevent upload from processing.



Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can site implement changes prior to April 5, 2017?	What is impact if not supported by April 5, 2017?						
44	FAN0101	Venous Cord Blood test pH	<p><b><u>New Validation Rules:</u></b></p> <p>- Values must be between 0.0 and 14.0. Display warning if values not between 6.0 and 8.0</p> <p><i>New Validation rule will improve data quality. New Warning message is optional enhancement that will improve data quality but not impact BIS processing of upload file.</i></p>	Yes	<p>Encounters with this data quality issue will process with error and require correction.</p> <p>New warning validation will not prevent upload from processing.</p>						
46	N0016	Infant Early attachment/feeding initiation	<p><b><u>Picklist Updates:</u></b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Changes</th> </tr> </thead> <tbody> <tr> <td><del>IEA007</del></td> <td><del>Transfer to NICU/SCN</del></td> <td>Removed</td> </tr> </tbody> </table> <p><b><u>Remove Validation Rule:</u></b></p> <p><del>-If "Transfer to NICU/SCN" is selected, no other values may be selected</del></p> <p><i>Value is not applicable and has been removed.</i></p>	Code	Description	Changes	<del>IEA007</del>	<del>Transfer to NICU/SCN</del>	Removed	Yes	<p>Encounters with this data quality issue will process with error and require correction.</p>
Code	Description	Changes									
<del>IEA007</del>	<del>Transfer to NICU/SCN</del>	Removed									

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can site implement changes prior to April 5, 2017?	What is impact if not supported by April 5, 2017?																								
47	N0021	Neonatal Birth Complications	<p><b>Picklist Updates:</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Changes</th> </tr> </thead> <tbody> <tr> <td>NCC009</td> <td><del>Birth injury—intracranial hemorrhage</del> Intracranial hemorrhage</td> <td>Renamed</td> </tr> <tr> <td>NCC010</td> <td><del>Birth injury—subarachnoid hemorrhage</del> Subarachnoid hemorrhage</td> <td>Renamed</td> </tr> <tr> <td>NCC011</td> <td><del>Birth injury—subdural hemorrhage</del> Subdural hemorrhage</td> <td>Renamed</td> </tr> <tr> <td>NCC012</td> <td><del>Birth injury—unspecified</del> Unspecified birth injury</td> <td>Renamed</td> </tr> <tr> <td>NCC014</td> <td>Subgaleal hemorrhage</td> <td>New</td> </tr> <tr> <td>NCC013</td> <td><del>Birth injury—other</del> Other birth injury</td> <td>Renamed</td> </tr> <tr> <td>UN</td> <td>Unknown birth injury</td> <td>Renamed</td> </tr> </tbody> </table> <p><i>All values are birth injuries, updates for clarity. New values are added for clinical importance</i></p>	Code	Description	Changes	NCC009	<del>Birth injury—intracranial hemorrhage</del> Intracranial hemorrhage	Renamed	NCC010	<del>Birth injury—subarachnoid hemorrhage</del> Subarachnoid hemorrhage	Renamed	NCC011	<del>Birth injury—subdural hemorrhage</del> Subdural hemorrhage	Renamed	NCC012	<del>Birth injury—unspecified</del> Unspecified birth injury	Renamed	NCC014	Subgaleal hemorrhage	New	NCC013	<del>Birth injury—other</del> Other birth injury	Renamed	UN	Unknown birth injury	Renamed	<p>Partially</p> <p>Yes, renamed data elements can be updated</p> <p>No, new picklist values cannot be added until go-live</p>	<p>Users will not benefit from clearer list of values and be able to accurately document new clinically important value</p>
Code	Description	Changes																											
NCC009	<del>Birth injury—intracranial hemorrhage</del> Intracranial hemorrhage	Renamed																											
NCC010	<del>Birth injury—subarachnoid hemorrhage</del> Subarachnoid hemorrhage	Renamed																											
NCC011	<del>Birth injury—subdural hemorrhage</del> Subdural hemorrhage	Renamed																											
NCC012	<del>Birth injury—unspecified</del> Unspecified birth injury	Renamed																											
NCC014	Subgaleal hemorrhage	New																											
NCC013	<del>Birth injury—other</del> Other birth injury	Renamed																											
UN	Unknown birth injury	Renamed																											

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52	D0150	Birth Head Circumference	<p><b>Retired Data Element:</b></p> <p>Do not submit a value in this column</p> <p><i>No longer a routine observation anymore.</i></p>	Yes	Users will needlessly record data that is not used and may cause error with submission
53	D0076	Newborn Screening Offered	<p><b>Retired Data Element:</b></p> <p>Do not submit a value in this column</p> <p><i>Value submitted to BORN Ontario through NSO making collection redundant for hospital encounters.</i></p>	Yes	Users will needlessly record data that is not used and may cause error with submission
65, 66	N0054DT, N0054TM	Neonatal Transfer Discharge Date and Time (Transfer)	<p><b>New Validation Rules:</b></p> <p><b>NICU - Must be greater than date/time of NICU Admin Date</b></p> <p><i>New Validation rule will improve data quality.</i></p>	Yes	Encounters with this data quality issue will process with error and require correction.

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can site implement changes prior to April 5, 2017?	What is impact if not supported by April 5, 2017?																														
67	N0039	Reason For Neonatal Transfer	<p><b>Picklist Updates:</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Encounters</th> </tr> </thead> <tbody> <tr> <td>NTR001</td> <td>bed needed for sicker baby</td> <td><del>BC, PPC</del></td> </tr> <tr> <td>NTR002</td> <td>condition improved</td> <td><del>BC, PPC</del></td> </tr> <tr> <td>NTR003</td> <td>lack of physician coverage</td> <td><del>BC, PPC</del></td> </tr> <tr> <td>NTR004</td> <td>lack of RN coverage</td> <td><del>BC, PPC</del></td> </tr> <tr> <td>NTR005</td> <td>no bed available</td> <td><del>BC, PPC</del></td> </tr> <tr> <td>NTR008</td> <td>Keeping baby and mother together</td> <td><del>BC, PPC</del></td> </tr> <tr> <td>NTR009</td> <td>Care closer to home</td> <td><del>BC, PPC</del></td> </tr> <tr> <td>NTR010</td> <td>Post Resuscitation</td> <td>BC</td> </tr> <tr> <td>NTR011</td> <td>Observation 4 hrs or less (no interventions)</td> <td>BC, PPC</td> </tr> </tbody> </table> <p><i>New values are clinically important for documentation. Removed values do not apply to BC and PPC encounter scenarios.</i></p>	Code	Description	Encounters	NTR001	bed needed for sicker baby	<del>BC, PPC</del>	NTR002	condition improved	<del>BC, PPC</del>	NTR003	lack of physician coverage	<del>BC, PPC</del>	NTR004	lack of RN coverage	<del>BC, PPC</del>	NTR005	no bed available	<del>BC, PPC</del>	NTR008	Keeping baby and mother together	<del>BC, PPC</del>	NTR009	Care closer to home	<del>BC, PPC</del>	NTR010	Post Resuscitation	BC	NTR011	Observation 4 hrs or less (no interventions)	BC, PPC	<p>Partially,          No, New picklist are not available until go-live</p> <p>Yes, removed values for BC and PPC encounters can be updated before go-live</p>	Field will not align with BIS and users may not be able to document accurately
Code	Description	Encounters																																	
NTR001	bed needed for sicker baby	<del>BC, PPC</del>																																	
NTR002	condition improved	<del>BC, PPC</del>																																	
NTR003	lack of physician coverage	<del>BC, PPC</del>																																	
NTR004	lack of RN coverage	<del>BC, PPC</del>																																	
NTR005	no bed available	<del>BC, PPC</del>																																	
NTR008	Keeping baby and mother together	<del>BC, PPC</del>																																	
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103	N0039-N	Reason For Neonatal Transfer (NICU)	<p><b>Restore Data Element:</b></p> <p><b>NICU/SCN – Retired/Not used → Conditional</b></p> <p><b>New Validation Rule:</b></p> <p>- Must be provided if <u>NeonatalDischargedOrTransferToNICUSCN</u> is not 'Home' or 'Child and Family Services Apprehension'</p> <p><b>Picklist:</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Encounters</th> </tr> </thead> <tbody> <tr> <td>NTR001</td> <td>bed needed for sicker baby</td> <td>NICU</td> </tr> <tr> <td>NTR002</td> <td>condition improved</td> <td>NICU</td> </tr> <tr> <td>NTR003</td> <td>lack of physician coverage</td> <td>NICU</td> </tr> <tr> <td>NTR004</td> <td>lack of RN coverage</td> <td>NICU</td> </tr> <tr> <td>NTR005</td> <td>no bed available</td> <td>NICU</td> </tr> <tr> <td>NTR008</td> <td>Keeping baby and mother together</td> <td>NICU</td> </tr> <tr> <td>NTR009</td> <td>Care closer to home</td> <td>NICU</td> </tr> <tr> <td>NTR012</td> <td>Repatriation</td> <td>NICU</td> </tr> <tr> <td>OTHER</td> <td>Other</td> <td>NICU</td> </tr> <tr> <td>UN</td> <td>Unknown</td> <td>NICU</td> </tr> </tbody> </table> <p><i>Neonatal transfers from NICU are clinically important for documentation and have been reinstated as a data element.</i></p>	Code	Description	Encounters	NTR001	bed needed for sicker baby	NICU	NTR002	condition improved	NICU	NTR003	lack of physician coverage	NICU	NTR004	lack of RN coverage	NICU	NTR005	no bed available	NICU	NTR008	Keeping baby and mother together	NICU	NTR009	Care closer to home	NICU	NTR012	Repatriation	NICU	OTHER	Other	NICU	UN	Unknown	NICU	No	Users will not be able to accurately document clinically important values
Code	Description	Encounters																																				
NTR001	bed needed for sicker baby	NICU																																				
NTR002	condition improved	NICU																																				
NTR003	lack of physician coverage	NICU																																				
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73	D0116	Neonatal Transfer Hospital From	<p><b><u>New Validation Rule:</u></b></p> <p>- Cannot be uploading hospital</p> <p><i>Rule will help prevent nonsensical data</i></p>	Yes	Encounters with this data quality issue will process with error and require correction.									
77	D0152	Neonatal Health Conditions	<p><b><u>New Validation Rule:</u></b></p> <p>- If <u>Neonatal Therapies/Interventions</u> includes 'Morphine for NAS', must include 'NAS - Neonatal Abstinence Syndrome'</p> <p><b><u>Picklist Updates:</u></b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Changes</th> </tr> </thead> <tbody> <tr> <td><del>NHP098</del></td> <td><del>Other Health Conditions</del>   <del>Hyperbilirubinemia</del></td> <td>Removed, NICU</td> </tr> <tr> <td><del>NHP118</del></td> <td><del>Hyperbilirubinemia</del></td> <td>Removed, BC/PPC</td> </tr> </tbody> </table> <p><i>New Validation rule will improve data quality.</i></p> <p><i>All infants are born with Hyperbilirubinemia while only some require intervention. Removing values that are redundant.</i></p>	Code	Description	Changes	<del>NHP098</del>	<del>Other Health Conditions</del>   <del>Hyperbilirubinemia</del>	Removed, NICU	<del>NHP118</del>	<del>Hyperbilirubinemia</del>	Removed, BC/PPC	Yes	Encounters with this data quality issue will process with error and require correction.
Code	Description	Changes												
<del>NHP098</del>	<del>Other Health Conditions</del>   <del>Hyperbilirubinemia</del>	Removed, NICU												
<del>NHP118</del>	<del>Hyperbilirubinemia</del>	Removed, BC/PPC												

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can site implement changes prior to April 5, 2017?	What is impact if not supported by April 5, 2017?																												
78	N0042	Neonatal Therapies/Interventions	<p><b>Picklist Updates:</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Encounters</th> <th>Change</th> </tr> </thead> <tbody> <tr> <td>NT033</td> <td>Venipuncture</td> <td>NICU</td> <td>New</td> </tr> <tr> <td>NT034</td> <td>Naso-gastric tube drainage</td> <td>NICU</td> <td>New</td> </tr> <tr> <td>NT035</td> <td>Glucose monitoring</td> <td>NICU</td> <td>New</td> </tr> <tr> <td>NT036</td> <td>Dextrose gel</td> <td>NICU</td> <td>New</td> </tr> <tr> <td>NT037</td> <td>Oral Immune Therapy (OIT)</td> <td>NICU</td> <td>New</td> </tr> <tr> <td>NT038</td> <td>Pre-medication for intubation</td> <td>NICU</td> <td>New</td> </tr> </tbody> </table> <p><i>New values are clinically important for documentation.</i></p>	Code	Description	Encounters	Change	NT033	Venipuncture	NICU	New	NT034	Naso-gastric tube drainage	NICU	New	NT035	Glucose monitoring	NICU	New	NT036	Dextrose gel	NICU	New	NT037	Oral Immune Therapy (OIT)	NICU	New	NT038	Pre-medication for intubation	NICU	New	No, picklist additions will not be available until go-live	Field will not align with BIS and users may not be able to document accurately
Code	Description	Encounters	Change																														
NT033	Venipuncture	NICU	New																														
NT034	Naso-gastric tube drainage	NICU	New																														
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NT036	Dextrose gel	NICU	New																														
NT037	Oral Immune Therapy (OIT)	NICU	New																														
NT038	Pre-medication for intubation	NICU	New																														
79	FAN0005	Neonatal Surgery	<p><b>Picklist Updates:</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Change</th> </tr> </thead> <tbody> <tr> <td><del>NS002</del></td> <td><del>ROP treatment</del></td> <td>Removed</td> </tr> <tr> <td>NS005</td> <td>Necrotizing Enterocolitis (NEC) surgery</td> <td>Renamed</td> </tr> <tr> <td>NS006</td> <td>Patent Ductus Arteriosus (PDA) ligation</td> <td>Renamed</td> </tr> <tr> <td>NS008</td> <td>Extracorporeal Membrane Oxygenation (ECMO)</td> <td>Renamed</td> </tr> <tr> <td><del>NS011</del></td> <td><del>Other surgery</del></td> <td>Removed</td> </tr> </tbody> </table> <p><i>Removed acronyms for readability, retired values captured elsewhere.</i></p>	Code	Description	Change	<del>NS002</del>	<del>ROP treatment</del>	Removed	NS005	Necrotizing Enterocolitis (NEC) surgery	Renamed	NS006	Patent Ductus Arteriosus (PDA) ligation	Renamed	NS008	Extracorporeal Membrane Oxygenation (ECMO)	Renamed	<del>NS011</del>	<del>Other surgery</del>	Removed	Yes	Field will not align with BIS and users may not be able to document accurately. Retired values will result in error and require correction										
Code	Description	Change																															
<del>NS002</del>	<del>ROP treatment</del>	Removed																															
NS005	Necrotizing Enterocolitis (NEC) surgery	Renamed																															
NS006	Patent Ductus Arteriosus (PDA) ligation	Renamed																															
NS008	Extracorporeal Membrane Oxygenation (ECMO)	Renamed																															
<del>NS011</del>	<del>Other surgery</del>	Removed																															

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81	N0048	Oxygen Therapy Days	<p><b><u>Processing rule change:</u></b></p> <p>Value will be rounded to nearest full Days value, anything less than 1 day will round to 1 day.</p> <p><i>Easier to report and document. Also 1.9 days has no meaning to anyone. Changes will also improve alignment with CNN.</i></p>	Yes	Users will not benefit from reduced entry
83	N0046-1	Non Invasive Ventilation Days	<p><b><u>Processing rule change:</u></b></p> <p>Value will be rounded to nearest full Days value, anything less than 1 day will round to 1 day.</p> <p><i>Easier to report and document. Also 1.9 days has no meaning to anyone. Changes will also improve alignment with CNN.</i></p>	Yes	Users will not benefit from reduced entry
85	N0047	Invasive Ventilation Days	<p><b><u>Processing rule change:</u></b></p> <p>Value will be rounded to nearest full Days value, anything less than 1 day will round to 1 day.</p> <p><i>Easier to report and document. Also 1.9 days has no meaning to anyone. Changes will also improve alignment with CNN.</i></p>	Yes	Users will not benefit from reduced entry
102	FAN0029-N	Neonatal Transfer Hospital To	<p><b><u>New Validation Rule:</u></b></p> <p>- Cannot be uploading hospital</p> <p><i>Rule will help prevent nonsensical data</i></p>	Yes	Encounters with this data quality issue will process with error and require correction.



Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can site implement changes prior to April 5, 2017?	What is impact if not supported by April 5, 2017?
106	N0123	Transport Personnel Out	<p><b><u>New Validation Rule:</u></b></p> <p>- 'Transport Team (1 of 4 Provincial Teams)' is mutually exclusive</p> <p><i>New Validation rule will improve data quality.</i></p>	Yes	Encounters with this data quality issue will process with error and require correction.
116	N0200	Delayed Cord Clamping (>30 seconds)	<p><b><u>Renamed Data Element:</u></b></p> <p>Delayed Cord Clamping (&gt;30 seconds)</p> <p><i>Redefined to incorporate new field (N0200T)</i></p>	Yes	Field will not align with BIS once new field is implemented
117	N0201	Presentation Type	<p><b><u>Conditionality Change:</u></b></p> <p><b>BC: Conditional → Mandatory</b></p> <p><i>Important data element for collection and notified in previous enhancement specification.</i></p>	Yes	Encounters with this data element missing will process with error and require correction
118	N0202	Forceps/Vacuum	<p><b><u>Conditionality Change:</u></b></p> <p><b>BC: Conditional → Mandatory</b></p> <p><i>Important data element for collection and notified in previous enhancement specification.</i></p>	Yes	Encounters with this data element missing will process with error and require correction

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119	N0203	Pain relief measures during first blood sampling by heel prick	<p><b>Renamed Data Element:</b>  <del>Pain Relief Measures During Newborn Screening or Serum Bilirubin</del> →  Pain relief measures during first blood sampling by heel prick</p> <p><b>Conditionality Change:</b>  <b>PPC and NICU:</b> <del>Conditional</del> → Mandatory</p> <p><b>Validation Rule Change:</b>  Removed:  <del>- Required if Newborn Screening Offered = Obtained or if Bilirubin Measured within 72 hours of Birth = TSB</del></p> <p><i>We are not currently able to capture pain relief for all babies. This will improve data quality and aid in proper collection of clinically important data.</i></p>	Yes	Encounters with this data element missing will process with error and require correction

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can site implement changes prior to April 5, 2017?	What is impact if not supported by April 5, 2017?																											
120	N0204	Bilirubin Measured within 72 hours of Birth	<p>The BIS is separating the “reason bilirubin not done” into a new data element with new picklist items. The BIS UI will contain the following:</p> <p><u>Bilirubin Measured within 72 hours of Birth</u> multicode field with values: '<b>Transcutaneous bilirubin (TCB)</b>', '<b>Total Serum Bilirubin (TSB)</b>', '<b>No</b>', '<b>Unknown</b>'</p> <p>Conditionality and Validation Rules are unchanged.</p> <p>If value is '<b>No</b>', new field <b>Reason bilirubin not done</b> is visible and mandatory with values: '<b>Declined</b>', '<b>Transferred Out/Discharged</b>', '<b>Unknown</b>', '<b>Other</b>'.</p> <p><b>Picklist Updates:</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Changes</th> </tr> </thead> <tbody> <tr> <td>TCB</td> <td><b>Yes</b> - Transcutaneous bilirubin (TCB)</td> <td><b>Renamed</b></td> </tr> <tr> <td>TSB</td> <td><b>Yes</b> - Total Serum Bilirubin (TSB)</td> <td><b>Renamed</b></td> </tr> <tr> <td>DEC</td> <td><b>No</b> - Declined</td> <td><b>Renamed</b></td> </tr> <tr> <td>NTO</td> <td><b>No</b> - <del>Newborn</del> Transferred Out/Discharged</td> <td><b>Renamed</b></td> </tr> <tr> <td>NOUNK</td> <td><b>No</b> - Reason unknown</td> <td><b>New</b></td> </tr> <tr> <td>NOOTHER</td> <td><b>No</b> - Reason other</td> <td><b>New</b></td> </tr> <tr> <td><del>NOTDONE</del></td> <td><del>Not Done</del></td> <td><b>Removed</b></td> </tr> <tr> <td>UN</td> <td>Unknown</td> <td>None</td> </tr> </tbody> </table> <p><i>Upload specification is keeping data elements as one field with above picklist to reduce impact to schema.</i></p>	Code	Description	Changes	TCB	<b>Yes</b> - Transcutaneous bilirubin (TCB)	<b>Renamed</b>	TSB	<b>Yes</b> - Total Serum Bilirubin (TSB)	<b>Renamed</b>	DEC	<b>No</b> - Declined	<b>Renamed</b>	NTO	<b>No</b> - <del>Newborn</del> Transferred Out/Discharged	<b>Renamed</b>	NOUNK	<b>No</b> - Reason unknown	<b>New</b>	NOOTHER	<b>No</b> - Reason other	<b>New</b>	<del>NOTDONE</del>	<del>Not Done</del>	<b>Removed</b>	UN	Unknown	None		
Code	Description	Changes																														
TCB	<b>Yes</b> - Transcutaneous bilirubin (TCB)	<b>Renamed</b>																														
TSB	<b>Yes</b> - Total Serum Bilirubin (TSB)	<b>Renamed</b>																														
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NOUNK	<b>No</b> - Reason unknown	<b>New</b>																														
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122	N0206	Hyperbilirubinemia treatment	<p><b>Picklist Updates:</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Encounters</th> <th>Change</th> </tr> </thead> <tbody> <tr> <td>ET</td> <td>Exchange transfusion</td> <td><del>PPC</del>, NICU</td> <td>Removed from PPC</td> </tr> <tr> <td>IA</td> <td>IVIG administration</td> <td><del>PPC</del>, NICU</td> <td>Removed from PPC</td> </tr> <tr> <td>TD</td> <td>Treatment declined</td> <td>PPC, NICU</td> <td>New</td> </tr> <tr> <td>PT</td> <td>Phototherapy</td> <td>PPC, NICU</td> <td>None</td> </tr> </tbody> </table> <p><i>The values have been updated clinical practice for what would be available in the different settings.</i></p>	Code	Description	Encounters	Change	ET	Exchange transfusion	<del>PPC</del> , NICU	Removed from PPC	IA	IVIG administration	<del>PPC</del> , NICU	Removed from PPC	TD	Treatment declined	PPC, NICU	New	PT	Phototherapy	PPC, NICU	None	<p>No, new values will not be available until go live.</p> <p>Removals can be completed at any time.</p>	Field will not align with BIS and users may not be able to accurately document this data.
Code	Description	Encounters	Change																						
ET	Exchange transfusion	<del>PPC</del> , NICU	Removed from PPC																						
IA	IVIG administration	<del>PPC</del> , NICU	Removed from PPC																						
TD	Treatment declined	PPC, NICU	New																						
PT	Phototherapy	PPC, NICU	None																						
123	N0207	Highest Serum Bilirubin >340 µmol/L	<p><b>New Validation Rule:</b></p> <p>- <u>Highest Serum Bilirubin &gt;340µmol/L</u> is visible and required if <u>Hyperbilirubinemia Requiring Treatment</u> is 'Yes'.</p> <p><i>New validation rule will improve data quality.</i></p>	Yes	Encounters with this data quality issue will process with error and require correction																				
128	N0212	Transport Personnel In	<p><b>New Validation Rule:</b></p> <p>- 'Transport Team (1 of 4 Provincial Teams)' is mutually exclusive</p> <p><i>New Validation rule will improve data quality.</i></p>	Yes	Encounters with this data quality issue will process with error and require correction																				

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135	N0219	Nutritional Support in Hospital	<p><b><u>New Validation Rule:</u></b></p> <p>- If <u>Feeding Methods in Hospital</u> includes 'Breast' then must include 'Breast milk'</p> <p><i>New Validation rule will improve data quality.</i></p>	Yes	Encounters with this data quality issue will process with error and require correction

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can site implement changes prior to April 5, 2017?	What is impact if not supported by April 5, 2017?																											
138	N0222	ROP Worst Stage Left/Right Eye	<p><b>Data Type Change:</b> RefCode → Multiple Code</p> <p><b>Picklist Update:</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Changes</th> </tr> </thead> <tbody> <tr> <td>LEN</td> <td>Left eye - None</td> <td>New</td> </tr> <tr> <td>LUN</td> <td>Left eye - Unknown</td> <td>New</td> </tr> <tr> <td>REN</td> <td>Right eye - None</td> <td>New</td> </tr> <tr> <td>RUN</td> <td>Right eye - Unknown</td> <td>New</td> </tr> <tr> <td>UN</td> <td>Unknown</td> <td>Removed</td> </tr> <tr> <td>NONE</td> <td>None</td> <td>Removed</td> </tr> <tr> <td>BEI to BEV</td> <td>Both eyes-I to Both eyes-V</td> <td>Removed</td> </tr> <tr> <td>BEIM</td> <td>Both eyes-immature</td> <td>Removed</td> </tr> </tbody> </table> <p><b>New Validation Rule:</b> - Left eye and Right Eye must both be provided separately with one value each</p> <p>Upload specification is keeping data elements as one field separated by a semicolon with above picklist changes to reduce impact to schema.</p>	Code	Description	Changes	LEN	Left eye - None	New	LUN	Left eye - Unknown	New	REN	Right eye - None	New	RUN	Right eye - Unknown	New	UN	Unknown	Removed	NONE	None	Removed	BEI to BEV	Both eyes-I to Both eyes-V	Removed	BEIM	Both eyes-immature	Removed		
Code	Description	Changes																														
LEN	Left eye - None	New																														
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Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can site implement changes prior to April 5, 2017?	What is impact if not supported by April 5, 2017?												
143	N0227	Neuroimaging Screening Results Left	<p><b>Picklist Updates</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Changes</th> </tr> </thead> <tbody> <tr> <td>NSR012</td> <td>Intracranial Hemorrhage</td> <td>New</td> </tr> <tr> <td>NSR013</td> <td>Subarachnoid Hemorrhage</td> <td>New</td> </tr> <tr> <td>NSR013</td> <td>Subdural Hemorrhage</td> <td>New</td> </tr> </tbody> </table> <p><i>New values added for clinical importance.</i></p>	Code	Description	Changes	NSR012	Intracranial Hemorrhage	New	NSR013	Subarachnoid Hemorrhage	New	NSR013	Subdural Hemorrhage	New	No, new picklist values will not be available until go-live	Users will not be able to accurately document clinically important values
Code	Description	Changes															
NSR012	Intracranial Hemorrhage	New															
NSR013	Subarachnoid Hemorrhage	New															
NSR013	Subdural Hemorrhage	New															
145	N0229	Feeding Type (on day of discharge)	<p><b>New Validation Rule:</b></p> <p>- If <u>Feeding Methods (on day of discharge)</u> includes 'Breast' then must include 'Breast milk'</p> <p><i>New Validation rule will improve data quality.</i></p>	Yes	Encounters with this data quality issue will process with error and require correction												

Upload Column Position	BORN Code	Data Element Name [Encounters]	April 2018 Changes	Can site implement changes prior to April 5, 2017?	What is impact if not supported by April 5, 2017?
148	N0200T	Delayed Cord Clamping Seconds	<p><b><u>New Data Element:</u></b></p> <p><u>Conditionality:</u>  <b>BC - Optional</b>  <b>PPC and NICU - Not used</b></p> <p><u>Validation Rules:</u>            - Allowed for entry only if <b>Delayed Cord Clamping</b> is 'Yes'            - Formatting as Seconds (i.e: 2min 45sec = 165sec = '165')</p> <p><u>Column Data Type:</u>  <b>Numeric(3,0)</b></p> <p><i>Improve collection of clinically relevant delayed cord clamping and align with CNN. Improves data quality and capture of important clinical intervention</i></p>	No, new data element will not be available until go-live	All upload submissions missing this data element will result in error and require correction
N/A	N/A	Gestational Age on Admission	<p><b><u>New Data Element:</u></b></p> <p><u>Validation Rules:</u>            - Days of age at discharge (DOA-DOB)/7 + GA at birth = corrected GA in weeks and days (38 weeks + 6 days)</p> <p><u>Column Data Type:</u>  <b>Calculated Field on NICU Encounter</b></p> <p><i>Calculated field to be implement in BIS encounter. Optional enhancement for external hospital systems.</i></p>	Yes	Does not impact upload feed. No impact



## Site List:

Organization Type	April 2018 Changes	Can sites implement changes prior to April 5, 2017?	What will happen if sites don't implement by April 5, 2017?																																													
Midwife Practice Group (MPG)	<p><b>Updated values:</b></p> <table border="1" data-bbox="310 545 1411 1260"> <thead> <tr> <th>ID</th> <th>Midwife Practice Group Name</th> <th>Updates</th> </tr> </thead> <tbody> <tr> <td>132</td> <td>K'Tigaaning Midwives Birthcare</td> <td>Renamed</td> </tr> <tr> <td>187</td> <td>Midwives of Chatham-Kent</td> <td>Renamed</td> </tr> <tr> <td>108</td> <td>Midwifery Services of Durham Durham Midwifery Program</td> <td>Renamed</td> </tr> <tr> <td>178</td> <td>Family Care Midwives</td> <td>Renamed</td> </tr> <tr> <td>122</td> <td>Huron Midwives Community Midwifery Services</td> <td>Renamed</td> </tr> <tr> <td>170</td> <td>Generations Midwifery Care Leeds-Grenville Midwives</td> <td>Renamed</td> </tr> <tr> <td>183</td> <td>East Mississauga Midwives The Midwife Clinic</td> <td>Renamed</td> </tr> <tr> <td>185</td> <td>Village Midwifery Care Midwives</td> <td>Renamed</td> </tr> <tr> <td>192</td> <td>AMMA Midwives</td> <td>Added</td> </tr> <tr> <td>197</td> <td>Community Midwives of Ottawa</td> <td>Added</td> </tr> <tr> <td>196</td> <td>Midwives of Middlesex and Area</td> <td>Added</td> </tr> <tr> <td>164</td> <td>Mountain Midwifery Care</td> <td>Added</td> </tr> <tr> <td>105</td> <td>Norfolk Roots</td> <td>Added</td> </tr> <tr> <td>198</td> <td>Trillium Midwives</td> <td>Added</td> </tr> </tbody> </table> <p><i>Allows for more complete documentation of transfer to and transfer from locations for users</i></p>	ID	Midwife Practice Group Name	Updates	132	K'Tigaaning Midwives Birthcare	Renamed	187	Midwives of Chatham-Kent	Renamed	108	Midwifery Services of Durham Durham Midwifery Program	Renamed	178	Family Care Midwives	Renamed	122	Huron Midwives Community Midwifery Services	Renamed	170	Generations Midwifery Care Leeds-Grenville Midwives	Renamed	183	East Mississauga Midwives The Midwife Clinic	Renamed	185	Village Midwifery Care Midwives	Renamed	192	AMMA Midwives	Added	197	Community Midwives of Ottawa	Added	196	Midwives of Middlesex and Area	Added	164	Mountain Midwifery Care	Added	105	Norfolk Roots	Added	198	Trillium Midwives	Added	<p>Partially</p> <p>Yes, renamed values can be updated at any time.</p> <p>No, new values will not be available until go live.</p>	<p>Users will not be able to correctly reflect transfers to/from these sites</p>
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Hospital Sites	<p><b>Updated values:</b></p> <table border="1" data-bbox="310 459 1411 1125"> <thead> <tr> <th>ID</th> <th>Midwife Practice Group Name</th> <th>Updates</th> </tr> </thead> <tbody> <tr> <td>4799</td> <td>Humber River Regional Hospital - Wilson Site</td> <td>Added</td> </tr> <tr> <td>4830</td> <td>Kingston Health Sciences Centre - Hotel Dieu</td> <td>New MOH Code</td> </tr> <tr> <td>4831</td> <td>Kingston General Hospital</td> <td>New MOH Code</td> </tr> <tr> <td>4822</td> <td>McCausland Hospital</td> <td>New MOH Code</td> </tr> <tr> <td>4804</td> <td>Mount Sinai Hospital</td> <td>New MOH Code</td> </tr> <tr> <td>4730</td> <td>North Bay Regional Health Centre</td> <td>New MOH Code</td> </tr> <tr> <td>4844</td> <td>Lakeridge Health - Ajax and Pickering Site</td> <td>New MOH Code</td> </tr> <tr> <td>4836</td> <td>Scarborough and Rouge Hospital - Centenary Site</td> <td>New MOH Code</td> </tr> <tr> <td>4842</td> <td>Scarborough and Rouge Hospital - Birchmount Campus</td> <td>New MOH Code</td> </tr> <tr> <td>4840</td> <td>Scarborough and Rouge Hospital - Scarborough General Site</td> <td>New MOH Code</td> </tr> <tr> <td>4788</td> <td>West Lincoln Memorial Hospital</td> <td>New MOH Code</td> </tr> <tr> <td>4819</td> <td>Wilson Memorial General Hospital</td> <td>New MOH Code</td> </tr> <tr> <td>4830</td> <td>Kingston Health Sciences Centre - Hotel Dieu</td> <td>New MOH Code</td> </tr> </tbody> </table> <p><i>Allows for more complete documentation of transfer to and transfer from locations for users</i></p>	ID	Midwife Practice Group Name	Updates	4799	Humber River Regional Hospital - Wilson Site	Added	4830	Kingston Health Sciences Centre - Hotel Dieu	New MOH Code	4831	Kingston General Hospital	New MOH Code	4822	McCausland Hospital	New MOH Code	4804	Mount Sinai Hospital	New MOH Code	4730	North Bay Regional Health Centre	New MOH Code	4844	Lakeridge Health - Ajax and Pickering Site	New MOH Code	4836	Scarborough and Rouge Hospital - Centenary Site	New MOH Code	4842	Scarborough and Rouge Hospital - Birchmount Campus	New MOH Code	4840	Scarborough and Rouge Hospital - Scarborough General Site	New MOH Code	4788	West Lincoln Memorial Hospital	New MOH Code	4819	Wilson Memorial General Hospital	New MOH Code	4830	Kingston Health Sciences Centre - Hotel Dieu	New MOH Code	No, new values will not be available until go live.	<p>Users will not be able to correctly reflect transfers to/from the new site</p> <p>Code updates are optional. The BIS will continue to accept the old values as well as new MOH supplied codes.</p>
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