**BORN Information System (BIS) Enhancements for April 6, 2015:**

**Pick-List Changes & Retired Data Elements**

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**Maternal Encounters**

<table>
<thead>
<tr>
<th>Data Element Name [Encounters]</th>
<th>April 2015 Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maternal Health Conditions, Please Specify [AS, AG, L, BM]</td>
<td>Added data element to AS and AG encounters</td>
</tr>
<tr>
<td><strong>Added Validation:</strong> If “Other, specify” is chosen from the pick-list in the Maternal Health Conditions data element, a ‘Please Specify’ open text field will become visible and is optional.</td>
<td></td>
</tr>
<tr>
<td>Intention to Breastfeed [AG, L, BM]</td>
<td>New addition to pick-list:</td>
</tr>
<tr>
<td></td>
<td>• Mother Unsure</td>
</tr>
<tr>
<td>Pick-list values renamed:</td>
<td></td>
</tr>
<tr>
<td>• ‘Yes, intends to combination feed’ renamed: Yes, intends to combination feed (use breast milk and breast milk substitute)</td>
<td></td>
</tr>
<tr>
<td>• ‘Unknown renamed’: Unknown, intent not collected</td>
<td></td>
</tr>
<tr>
<td>Drug and Substance Exposure in Pregnancy [AS, AG, L, BM]</td>
<td>Pick-list value renamed:</td>
</tr>
<tr>
<td></td>
<td>• Rename Other Opioids: <strong>Opioids</strong></td>
</tr>
<tr>
<td>Final new pick-list:</td>
<td></td>
</tr>
<tr>
<td>• None</td>
<td></td>
</tr>
<tr>
<td>• Cocaine</td>
<td></td>
</tr>
<tr>
<td>• Gas/Glue</td>
<td></td>
</tr>
<tr>
<td>• Hallucinogens</td>
<td></td>
</tr>
<tr>
<td>• Marijuana</td>
<td></td>
</tr>
<tr>
<td>• <strong>Opioids</strong></td>
<td></td>
</tr>
<tr>
<td>• Other</td>
<td></td>
</tr>
<tr>
<td>Final new pick-list:</td>
<td></td>
</tr>
<tr>
<td>• Yes, intends to exclusively breastfeed</td>
<td></td>
</tr>
<tr>
<td>• <em>Yes, intends to combination feed (use breast milk and breast milk substitute)</em></td>
<td></td>
</tr>
<tr>
<td>• No, does not intend to breastfeed</td>
<td></td>
</tr>
<tr>
<td>• <em>Mother unsure</em></td>
<td></td>
</tr>
<tr>
<td>• <em>Unknown, intent not collected</em></td>
<td></td>
</tr>
</tbody>
</table>
**Medication Exposure in Pregnancy**

- **Pick-list values added:**
  - Antibiotics
  - Anticonvulsants
  - Antihistamines
  - Antinflammatory
  - Antiretroviral
  - Anti-rheumatic
  - Antiviral
  - Cardiovascular
  - Chemotherapeutic Agents
  - Contraceptives
  - Gastrointestinal Agents
  - General anaesthetic
  - Insulin
  - Psychotropic
  - Vitamin A & Congeners

- **Final new pick-list:**
  - None
  - Amphetamines
  - **Antibiotics**
  - **Anticonvulsants**
  - Anti-emetics
  - **Antihistamines**
  - Antinflammatory
  - Antiretroviral
  - Anti-rheumatic
  - Antiviral
  - Cardiovascular
  - Chemotherapeutic Agents
  - Contraceptives
  - Gastrointestinal Agents
  - General anaesthetic
  - Insulin
  - Psychotropic
  - Vitamin A & Congeners
  - Herbal or homeopathic remedies
  - Methadone/Subutex
  - Opioids
  - Other over the counter medications
  - Other prescription
  - **Psychotropic**
  - Selective Serotonin Reuptake Inhibitors
  - Thyroid Medication
  - Vitamin A & Congeners
  - Vitamins
  - Other
  - Unknown

**All Indications for Cesarean Section**

- **New pick-list value:**
  - Fetal Indication

- **Final new pick-list:**
  - Fetal
  - Anomaly
  - Atypical or abnormal fetal surveillance
  - Cord prolapse
  - IUGR
  - Macrosomia
  - Malposition/ Malpresentation
  - **Fetal Indication**

  - Maternal
  - Other
  - Unknown

  No changes to pick-list

**Primary Indication for Cesarean Section**

- **New pick-list value:**
  - Fetal Indication

- **Final new pick-list:**
  - *As above*
| Healthcare Provider Who Caught/Delivered Baby [BM] | New pick-list value:  
- Resident | Final new pick-list:  
- Family physician  
- Registered midwife  
- Obstetrician  
- **Resident**  
- Surgeon  
- CNS/NP  
- Registered Nurse  
- Aboriginal midwife  
- Midwifery student  
- Other healthcare provider  
- Unattended (None)  
- Unknown |
|---|---|---|
| Postpartum Breastfeeding Support [PPM] | New pick-list value:  
- Referred mother to breastfeeding clinic, community health or peer support | Rename pick-list values:  
- ‘After initial BF, mother was assisted with BF within 6 hours post birth’ renamed: Provided assistance with breastfeeding within six hours of delivery after initial feeding  
- ‘NA’ renamed: Not applicable [includes stillbirth, adoption] |
| | | Final new pick-list:  
- *Provided assistance with breastfeeding within six hours of delivery after initial feeding*  
- Consult with a lactation consultant  
- Frequent skin-to-skin  
- Hand expression/pumping  
- Latch achieved prior to discharge  
- **Referred mother to breastfeeding clinic, community health or peer support**  
- Unknown  
- **Not applicable** |
<table>
<thead>
<tr>
<th>Data Element Name [Encounters]</th>
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</tr>
</thead>
</table>
| Neonatal Resuscitation (first 30 minutes of life only) [BC] | Rename pick-list value:  
  • ‘Narcan’ renamed: Narcan/naloxone. |
| Infant Early Attachment/Feeding Initiation [BC, PPC] | Rename pick-list values:  
  • 'Uninterrupted skin-to-skin beginning immediately after birth and continuing for at least 2 hours' renamed: Skin to skin contact uninterrupted for at least 1 hour, within the first 2 hours post birth  
  • 'Periodic skin-to-skin within the first 2 hours' renamed: Skin to skin contact with interruptions, within the first 2 hours post birth  
  • 'No attempt' renamed: No Attempt at Breastfeeding or Skin to skin contact, within the first 2 hours post birth  
Final new pick-list:  
  • Skin to skin contact uninterrupted for at least 1 hour, within the first 2 hours post birth  
  • Skin to skin contact with interruptions, within the first 2 hours post birth  
  • Skin to skin with person other than birth mother  
  • Opportunity to latch in first hour  
  • Opportunity to latch in the second hour  
  • Latch achieved  
  • No Attempt at Breastfeeding or Skin to skin contact, within the first 2 hours post birth  
  • Transfer to NICU/SCN  
  • Unknown |
| Highest Serum Bilirubin >340 mmol/L [PPC] | Rename data element to: Highest Serum Bilirubin >340 mmol/L  
Pre-April 2015 name: Highest Serum Bilirubin >340 |
| Highest Serum Bilirubin >425 mmol/L [PPC] | Rename data element to: Highest Serum Bilirubin >425 mmol/L  
Pre-April 2015 name: Highest Serum Bilirubin >425 |
<p>| Date of Newborn Screen Collection [PPC] | Remove data element. |
| Time of Newborn Screen Collection [PPC] | Remove data element. |</p>
<table>
<thead>
<tr>
<th>Data Element Name [Encounters]</th>
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</tr>
</thead>
</table>
| **Newborn Feeding from Birth to Discharge from Hospital or Birth Centre** [PPC] | **Rename Data Element to:**  
'Newborn Feeding From Birth to Discharge from Hospital or Birth Centre'  
Pre-April 2015 name: Newborn Feeding from Birth to Discharge  
**Rename pick-list values:**  
- ‘Combination’ renamed: Combination of breast milk and breast milk substitute  
- ‘Formula only’ renamed: Breast milk substitute - Formula only  
- ‘Other’ renamed: Breast milk substitute – Other  
- ‘NA’ renamed: None  
**Final new pick-list:**  
- Breast milk only  
- *Combination of breast milk and breast milk substitute*  
- *Breast milk substitute* - Formula only  
- *Breast milk substitute - Other*  
- *None*  
- Unknown |
| **Reason for Breastmilk Substitute** [PPC] | **Rename pick-list values:**  
- 'Infant Medical | Other' renamed: Infant Medical | Other clinical indications  
- ‘Maternal Medical-Active herpes’ renamed: Maternal Medical | Active herpes on breast  
- 'Parental consent not obtained' renamed: Parental Consent not documented  
**Final new pick-list:**  
- Infant Medical | Hypoglycemia  
- Infant Medical | Inborn Errors of Metabolism  
- Infant | Significant weight loss in the presence of clinical indications  
- *Infant Medical | Other clinical indications*  
- Maternal Medical | Additional Health Concerns  
- Maternal Medical | Contraindicated maternal medication  
- Maternal Medical | HIV infection  
- Maternal Medical | Severe maternal illness  
- *Maternal Medical | Active herpes on breast*  
- Informed Parent Decision to use Any Breast Milk Substitute  
- *Parental Consent not documented*  
- Birth mother not involved in care  
- Unknown |
### Newborn Discharged or Transferred To [PPC]

**Data Element Name [Encounters]**

<table>
<thead>
<tr>
<th>April 2015 Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>New pick-list value:</strong></td>
</tr>
<tr>
<td>- Other unit, same hospital</td>
</tr>
<tr>
<td><strong>Final new pick-list:</strong></td>
</tr>
<tr>
<td>- Home</td>
</tr>
<tr>
<td>- Transfer to NICU/SCN, other hospital</td>
</tr>
<tr>
<td>- Transfer to NICU/SCN, same hospital</td>
</tr>
<tr>
<td>- Transfer to Paediatric unit, same hospital</td>
</tr>
<tr>
<td>- <strong>Transfer to other unit, same hospital</strong></td>
</tr>
<tr>
<td>- Transfer to other hospital</td>
</tr>
<tr>
<td>- Child and Family Services Apprehension</td>
</tr>
</tbody>
</table>

### NICU (Level 3)/SCN (Level 2) Encounter

**Data Element Name [Encounters]**

<table>
<thead>
<tr>
<th>April 2015 Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rename pick-list value:</strong></td>
</tr>
<tr>
<td>- ‘Narcan’ renamed: Narcan/naloxone.</td>
</tr>
<tr>
<td><strong>Rename pick-lists:</strong></td>
</tr>
<tr>
<td>- ‘CNS</td>
</tr>
<tr>
<td>- ‘CNS</td>
</tr>
<tr>
<td>- ‘CNS</td>
</tr>
<tr>
<td>- ‘CNS</td>
</tr>
<tr>
<td>- ‘PDA ligation’ renamed: PDA treated with ligation</td>
</tr>
<tr>
<td><strong>Final new CNS pick-list:</strong></td>
</tr>
<tr>
<td>- **CNS</td>
</tr>
<tr>
<td>- **CNS</td>
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<tr>
<td>- **CNS</td>
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<tr>
<td>- **CNS</td>
</tr>
<tr>
<td>- CNS</td>
</tr>
</tbody>
</table>

**Final new Patent Ductus Arteriosus (PDA) pick-list:**

- PDA Present not treated
- PDA treated pharmacologically
- **PDA treated with ligation**
<table>
<thead>
<tr>
<th>Data Element Name [Encounters]</th>
<th>April 2015 Changes</th>
</tr>
</thead>
</table>
| **Neonatal Therapies/Interventions (Interventions) [NICU]** | **New pick-list values:**  
  - Pharmacological Support in Hospital | Morphine for NAS  
  - Other Interventions in Hospital | Intubation  
  **Final new pick-list ‘Other Interventions in Hospital’:**  
  - Phototherapy  
  - Exchange Transfusions  
  - Therapeutic Hypothermia  
  - **Intubation**  
  **Final pick-list for ‘Pharmacological Support in Hospital’:**  
  - Methylxanthines  
  - Antibiotics for GBS  
  - Antibiotics-Other Surfactant  
  - Corticosteroids  
  - Inotropes  
  - Paralytic Agents  
  - Anticonvulsants  
  - **Morphine for NAS** |
| **Neonatal Pain Management (Interventions) [NICU]** | **New pick-list value:**  
  - Sucrose  
  **Final new pick-list:**  
  - None  
  - Opioid analgesic use | Morphine  
  - Opioid analgesic use | Fentanyl  
  - Oral analgesics including acetaminophen  
  - Sedative use | Midazolam  
  - Sedative use | Choral Hydrate  
  - Sedative use | Ketamine  
  - Sedative use | Benzodiazepines  
  - Sedative use | Other  
  - **Sucrose**  
  - Unknown |
| **Feeding Methods in Hospital (Interventions) [NICU]** | **Remove pick-list:**  
  - Enteral  
  **Convert previous Enteral values to:**  
  - **Gavage Tube**  
  **Final new pick-list:**  
  - None  
  - Breast  
  - Bottle  
  - Supplementation Device on Breast  
  - Supplementation Device not on Breast i.e., finger feed, cup, other  
  - NPO  
  - **Gavage tube**  
  - Supplementary feeding systems  
  - Gastrostomy tube  
  - Mucus Fistula Re-feed  
  - Other  
  - Not Applicable  
  - Unknown |
| **Reason for Breast Milk Substitute in Hospital (Interventions) [NICU]** | **Rename pick-list values:**  
  - ‘Infant Medical | Other’ renamed: Infant Medical | Other clinical indications  
  - ‘Maternal Medical | Active herpes’ renamed: Maternal Medical | Active herpes on breast  
  - ‘Parental consent not obtained’ renamed: Parental Consent not documented |
<table>
<thead>
<tr>
<th>Data Element Name [Encounters]</th>
<th>April 2015 Changes</th>
</tr>
</thead>
</table>
| Reason for Breast Milk Substitute in Hospital (Interventions) cont’d [NICU] | Final new pick-list:  
- Infant Medical | Hypoglycemia  
- Infant Medical | Inborn Errors of Metabolism  
- Infant Medical | Pre-term (<32 weeks)  
- Infant Medical | Very low birth weight (<1500 gms)  
- Infant | Significant weight loss in the presence of clinical indications  
- Infant Medical | Other clinical indications  
- Maternal Medical | Active herpes on breast  
- Maternal Medical | Additional Health Concerns  
- Maternal Medical | Contraindicated maternal medication  
- Maternal Medical | HIV infection  
- Maternal Medical | Severe maternal illness  
- Birth mother not involved in care  
- Informed Parent Decision to use Any Breast Milk Substitute  
- Parental Consent not documented  
- Unknown |
| Highest Serum Bilirubin >340 mmol/L [NICU] | Rename data element to: Highest Serum Bilirubin >340 mmol/L  
Pre-April 2015 name: Highest Serum Bilirubin >340 |
| Highest Serum Bilirubin >425 mmol/L [NICU] | Rename data element to: Highest Serum Bilirubin >425 mmol/L  
Pre-April 2015 name: Highest Serum Bilirubin >425 |
| Date of Newborn Screen Collection [NICU] | Remove data element. 🌟 |
| Time of Newborn Screen Collection [NICU] | Remove data element. 🌟 |
| Feeding Methods (on day of discharge) [NICU] | Remove pick-list:  
- Enteral  
Convert previous Enteral values to:  
- Gavage tube  
Final new pick-list:  
- None  
- Breast  
- Bottle  
- Supplementation Device on Breast  
- Supplementation Device not on Breast i.e., finger feed, cup, other  
- NPO  
- Gavage tube  
- Supplementary feeding systems  
- Gastrostomy tube  
- Mucus Fistula Re-feed  
- Other  
- Not Applicable  
- Unknown |
<table>
<thead>
<tr>
<th>Data Element Name [Encounters]</th>
<th>April 2015 Changes</th>
</tr>
</thead>
</table>
| **Reason for Breast Milk Substitute (on day of discharge)** (Discharge/Outcome) [NICU] | Rename pick-list values:  
  - 'Infant Medical | Other' renamed: Infant Medical | Other clinical indications  
  - ‘Maternal Medical | Active herpes’ renamed: Maternal Medical | Active herpes on breast  
  - 'Parental consent not obtained' renamed: Parental Consent not documented  

**Final new pick-list:**  
  - Infant Medical | Hypoglycemia  
  - Infant Medical | Inborn Errors of Metabolism  
  - Infant Medical | Pre-term (<32 weeks)  
  - Infant Medical | Very low birth weight (<1500 gms)  
  - Infant | Significant weight loss in the presence of clinical indications  
  - **Infant Medical | Other clinical indications**  
  - **Maternal Medical | Active herpes on breast**  
  - Maternal Medical | Additional Health Concerns  
  - Maternal Medical | Contraindicated maternal medication  
  - Maternal Medical | HIV infection  
  - Maternal Medical | Severe maternal illness  
  - Birth mother not involved in care  
  - Informed Parent Decision to use Any Breast Milk Substitute  
  - **Parental Consent not documented**  
  - Unknown |