Data Quality Management - Midwifery

- Data Quality Management (DQM) Cycle
- Data Quality Activities and Tools (Reports)
- Monthly Data Acknowledgment
Data Quality Management BIS

- Organizations participating in the BORN Information System (BIS) have been asked to follow best practice guidelines for data entry and data quality management.

- The data quality management process steps:
  - Data collection
  - Data submission
  - Verification
  - Acknowledgement
  - Analysis
  - Usage

- The focus at each stage must be to collect timely, accurate, complete, reliable and usable data.
Data Quality Management Cycle

Practice Groups undertake data quality activities at each point in the cycle

Collect → Submit → Verify → Acknowledge → Use → Collect

Do client charts/forms contain the information needed in BORN?
Data Quality Management Cycle

- Collect
- Use
- Acknowledge
- Submit
- Verify

Can the Child be created shortly after birth?
Can all applicable encounters be completed and submitted for invoicing?
Data Quality Management Cycle

Collect → Submit → Verify → Use → Acknowledge

Data Management Cycle

Are all clients and births entered?
Are all applicable encounters completed and submitted?
Are all errors corrected?
Data Quality Management Cycle

Is data complete and ready for Analysis?

Data MUST be acknowledged in order to be reportable.
Data Quality Management Cycle

Is data used for quality improvement?

Are there outliers or outcomes that should be explored further?

Data Management Cycle

Collect ➔ Submit ➔ Verify ➔ Acknowledge ➔ Use

Is data used for quality improvement?

Are there outliers or outcomes that should be explored further?
Tools and Activities – DQM Reports

- **List of Courses of Care Reconciliation Report**
  - Verify all the expected records in the BIS and that they have been sent to MIS
  - List of records w/o completed discharge from MW care

- **Incomplete Encounters Report – Maternal and Infant**
  - Ensure that all the encounters for records are submitted

- **Missing Data Reports – Maternal and Infant**
  - Understand where data is missing/unknown
  - Illustrates reliability
Data Quality Management Cycle

Collect → Submit

Verify

DQM Tools/Reports:
- List of Courses of Care Report
- Incomplete Maternal Record Report
- Incomplete Infant Record Report
- Missing Data Report – Maternal
- Missing Data Report - Infant

Use → Acknowledge

Monthly Acknowledgement Process/Report

b o r n: Better Outcomes Registry & Network
## Data Quality Management Reports

### Reporting

<table>
<thead>
<tr>
<th>Report Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>List of Courses of Care (Reconciliation report)</td>
<td>Midwives List of Courses of Care</td>
</tr>
<tr>
<td>Midwifery Incomplete Infant Birth and Postpartum Records</td>
<td>Midwifery Incomplete Infant Birth and Postpartum Records</td>
</tr>
<tr>
<td>Midwifery Missing Data Elements Infant</td>
<td>Midwifery Missing Data Elements Infant</td>
</tr>
<tr>
<td>Midwifery Missing Data Elements Maternal</td>
<td>Midwifery Missing Data Elements Maternal</td>
</tr>
</tbody>
</table>
## List of Courses of Care – Reconciliation Report

- **Report use**: Count of records, supports reconciliation of records, planning/scheduling

- **Task**: Review records without completed and submitted Discharge from Midwifery Care fields

- **Note**: Second Tab – Draft Courses of Care

<table>
<thead>
<tr>
<th>MPG Name</th>
<th>MPG #</th>
<th>Client #</th>
<th>OHIP</th>
<th>Last Name</th>
<th>First Name</th>
<th>Booking Date</th>
<th>EDB</th>
<th>Pregnancy Outcome</th>
<th>Number of fetuses</th>
<th>Link to fetuses</th>
<th>Birth date</th>
<th>Birth location type</th>
<th>Hospital name</th>
<th>Billable type</th>
<th>Date of discharge from midwifery Care</th>
<th>Coordinating MW #</th>
<th>Billing MW #</th>
<th>Primary Attending MW #</th>
<th>Secondary MW #</th>
<th>Care by other MPG</th>
<th>Sent to MIS date</th>
</tr>
</thead>
</table>
Incomplete Records – Maternal and Infant

• Maternal and Infant Incomplete Encounters reports:
  • Summary of Records that have been Discharged from MW Care but with Incomplete encounters
  • Maternal report: List of women with labour encounters where birth type is ‘No Labour - Cesarean Section’ and Records with Duplicate Dispositions
  • Infant report – Neonatal Death Discrepancies and Unlinked records

• Task: Resolve discrepancies in client records as indicated in report
Missing Data Reports

• Identify where missing or unknown data is
  – >30% records
  – 10 to 30% records
  – 5-10% records

• Compare data quality with other MPGs

Task: Review unknown/missing data and develop data quality improvement initiatives
Monthly Acknowledgement of Data

• Before Acknowledging data:
  – Correct all incomplete/un-submitted encounters shown in Incomplete Reports (maternal and infant)
  – Reconcile client volumes (100% of cases with discharge from midwifery care within the month have been submitted)
  – Resolve discrepancies

• Month End Acknowledgement
  – Local Administrators Acknowledge data monthly

• Clinical reports (expected soon) can be run ONLY when the data is acknowledged
Month End Acknowledgement

Local Administrators Acknowledge Courses of Care discharged in each month
Overall Month End Acknowledgement Report

Users can confirm which months data have been Acknowledged, run the Month End Acknowledgement Report

<table>
<thead>
<tr>
<th>Organization</th>
<th>Data submission type</th>
<th>June 2012</th>
<th>July 2012</th>
<th>October 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access Midwives</td>
<td>Course of Care</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Proportion of acknowledgement (%) - Access Midwives</td>
<td></td>
<td>0.0</td>
<td>100.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>
Assigning Access to Reporting

Local Admins should review access to Reporting for all users as new reporting roles have been added.
Reporting Roles

MW Data Analysis – Administrative Reports
- List of Courses of Care, Incomplete and Missing Data Reports

MW Data Analysis – Clinical Reports
- access to future clinical reports and data downloads

MW Data Analysis – Standard Reports
- access to Newborn Profile on Discharge (hospital births only)
Next Steps for Practice Groups

• Determine who will
  – Take responsibility for reviewing DQM Reports
  – Correct data
  – Acknowledge data monthly

• Review Missing Data Reports - see where data quality can be enhanced
BORN Coordinator DQM Role

• Education, training and communication
• Monitor participation
  – Data entry is being completed
  – Month end acknowledgement is current
• Identify areas for improvement
• Facilitate data use
Report availability in BORN

• DQM Reports will be available by Wednesday, October 17th
Questions?

www.BORNOntario.ca
info@BORNOntario.ca

Barbara Chapman
Quality Management Specialist
bchapman@BORNOntario.ca
905-580-1637

Vivian Holmberg
Coordinator
vholmberg@bornontario.ca
416-305-7726