Data Collection and Reporting for MOM Initiative

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Partnering to Improve Health Care Quality for Mothers and Babies
Presentation Objectives

- IRB and Data Use Agreements
- Baseline Data Collection and Submission
- Prospective Data Submission
- Sample reports
- Questions
IRB Review—Human Subjects Research

MOM Initiative has been officially designated as NOT human subjects research by USF IRB.

Each hospital should determine whether review and approval by your hospital IRB is necessary.

For copies of IRB determination letter, the approved protocol, and related materials: fpqc@health.usf.edu
Data Use Agreements

Please have your legal department review

Have an authorized hospital official sign and submit

Deadline is May 18th!

FPQC will counter-sign & return for your hospital records

You cannot submit data until DUA is signed
Data Reports

Data reports are based on “discharge month” or “discharge quarter”

**Monthly reports** contain your NICU’s data only
- Combo – run, bar, stacked bar
- We will help with interpreting reports

**Quarterly reports** are box and whisker graphs comparing your NICU to the rest of the collaborative
- “NA” data entries are removed from denominator for each specific measure

Reports will be sent on 15th of each month for data submitted as of the 1st of the month

Goals TBD
Intent to Provide MOM Documented and Lactation Assessment within 24hrs of NICU Admission

Process Measures 1 & 2

% of Infants

Discharge Month

Intent to Provide MOM Documented
Lactation Assessment within 24hrs of NICU Admission
Goal
Non-nutritive BF Documented
Process Measure 6

Discharge Month

% of Infants

January | February | March | April | May | June | July | August | September | October | November | December

- Yes
- No or unknown
- Not desired by mother
- Goal
MOM Volume ≥ 500 ml/day on DOL 14

Outcome Measure 1

- Median = 5.12%
- Jan: 4.13%
- Feb: 2.55%
- Mar: 3.52%
- Apr: 5.1%
- May: 5.3%
- Jun: 3.8%
- Jul: 14.9%
- Aug: 14.6%
- Sep: 6.8%
≥ 50% of Feeding Volume Comprised of MOM at Infant Initial Disposition
Quarterly Report

Outcome Measure 2

Hospital A1

Max. Value
75th Percentile
Median
25th Percentile
Min. Value

% of Infants

Q1 2016 Q2 2016 Q3 2016 Q4 2016 Q1 2017 Q2 2017 Q3 2017 Q4 2017

Discharge Quarter

4.1% 2.5% 3.5% 5.1% 5.3% 3.8% 14.9% 14.6%
Suggestions to Facilitate Rapid Cycle Improvement

Create your own Excel database

You must still submit data on-line

At the very minimum, to reconcile monthly data entry, you must keep a log of:

- MRN (or other patient identifier)
- Admit and Discharge date
- Study ID number assigned – start with “001” and number consecutively

<table>
<thead>
<tr>
<th>Study #</th>
<th>MRN</th>
<th>Admit</th>
<th>Discharge</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>10023658</td>
<td>20-Mar-16</td>
<td>30-Apr-16</td>
</tr>
<tr>
<td></td>
<td>10023689</td>
<td>25-Mar-16</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10023700</td>
<td>1-Apr-16</td>
<td></td>
</tr>
<tr>
<td>002</td>
<td>10023802</td>
<td>10-Apr-16</td>
<td>1-May-16</td>
</tr>
<tr>
<td></td>
<td>10023900</td>
<td>23-Apr-16</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10023906</td>
<td>1-May-16</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10023103</td>
<td>5-May-16</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10024001</td>
<td>12-May-16</td>
<td></td>
</tr>
</tbody>
</table>

Example minimal data log
Baseline Data Collection & Submission

Baseline Data Collection

Collect data month of June 2016

Last 15 infants discharged as of April 30, 2016

May not be able to find all data elements

Great opportunity to identify documentation needs

Baseline Data Submission

On-line data entry link sent when DUA completed

Submit data by July 1, 2016

Baseline data reports sent by Aug 1, 2016
Prospective Data Collection

Data collection starts for infants discharged as of July 1, 2016

“Rolling” data submission
- Submit when infant is discharged, expired, or transferred out
- Once transferred out, you do not have to follow baby as you have no control over another facility’s practice

Hospitals will receive monthly data report by 15th of each month
- Report will include data submitted through the 1st of each month

FPQC will contact Data Team Lead if no data submitted by the 1st of the month
Inclusion and Exclusion Criteria

Inclusion

- BW ≤ 1500 grams AND no contraindication to providing MOM (HIV, select medications)

Exclusion

- Expired or transferred out at ≤ 24 hours of life
- Transferred in at > 7 DOL
**MOM data collection sheet – in your packet**

**Data collection sheet is chronological to facilitate record review**

**Data definitions are on back of data collection sheet**

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### Data Collection Sheet

#### FPQC Mothers Own Milk (MOM) Initiative Data Collection Sheet

Complete for those who have BW ≤ 1500g.

Do not complete for infants where MOM is contraindicated, expired transferred out ≤24 hours, or transferred in at >DOL 7.

<table>
<thead>
<tr>
<th>Sex</th>
<th>Gestational age</th>
<th>Maternal smoking status</th>
<th>Maternal race</th>
<th>Growth parameters at birth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>yes</td>
<td>no, not tried</td>
<td>White</td>
<td>height, weight, etc.</td>
</tr>
<tr>
<td>Male</td>
<td>yes</td>
<td>no</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>yes</td>
<td>no</td>
<td>Asian</td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>yes</td>
<td>no</td>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>yes</td>
<td>no</td>
<td>unknown</td>
<td></td>
</tr>
</tbody>
</table>

- **Date of birth (MM/DD/YY)**
- **Growth parameters at birth**
  - Weight
  - Length
  - Head Circumference

- **Does mother intend to provide MOM 6" or more, no further data elements required**
  - yes
  - no

- **Intake assessment w/ or w/o 24 hours of admission to your NICU**
  - yes
  - no

- **Availability of hospital grade pump at maternal discharge**
  - yes
  - no

- **Availability of MOM ≥7HOL**
  - yes
  - no

- **Non-nutritive BF documented**
  - yes
  - no

- **Skin-to-skin (SST) care ≥DOL 10**
  - yes
  - no

<table>
<thead>
<tr>
<th>DOL 7</th>
<th>DOL 14</th>
<th>DOL 28</th>
<th>Day of Infant Disposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Discharged home</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Transferred out</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Returned with home care</td>
</tr>
</tbody>
</table>

- **MOM pumped volume ≥500 ml/day**
  - yes
  - no, unknown

- **MOM feeding volume**
  - ml

- **Donor human milk feeding volumes**
  - ml

- **Formula feeding volumes**
  - ml

- **Day of infant initial disposition (MM/DD/YY)**
  - yes
  - no, unknown

- **Any nutritive BF w/ or w/o 7 days of initial disposition**
  - yes
  - no

- **Any NEC**
  - yes
  - no

**Notes:**

- All data collected to date can be sent to FPQC for mothers own milk assessment.

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**Partnersing to Improve Health Care Quality for Mothers and Babies**

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Data Collection: Basic Rules

Select “NA” if infant is transferred, discharged, or expires prior to data collection time-point

If “NA” is selected, infant will be removed from denominator for the specific measure ONLY

Make every effort to determine measure before selecting “No” or “Unknown”

“Unknown” = documentation opportunity

Study ID# - start with 001 beginning with baseline data

Baseline data Study ID# should be 001-015
Demographics & Intent

- Shaded in gray
- Required of all infants meeting inclusion and exclusion criteria regardless of intent
- If intent is answered “no”, database will prompt you to stop and submit
< 3rd %ile Fenton Growth Chart

- Birth and initial disposition
- If <3rd %ile on admission, will not count in total <3rd %ile at initial disposition
- Fenton (2013) for preterm boys OR girls
- Many EMRs have capability of plotting
- Can download from [http://ucalgary.ca/fenton/2013chart](http://ucalgary.ca/fenton/2013chart)
- Also has PediTools link and link to free i-Phone application
Data Definition/Collection

Education on benefits provided and documented
Lactation assessment w/in 24hr of admit to your NICU

Does not require IBCLC

Includes:
1. Pumping frequency and technique
2. Breast comfort while pumping
3. Review pumping log
4. Plan for pump at discharge
Data Definition/Collection

- Availability of pump at discharge
  - Maternal discharge
- Initial pumping ≤ HOL 6
  - EMR or interview
- Availability of MOM ≤ 72 HOL
  - EMR or interview

<table>
<thead>
<tr>
<th>Availability of hospital grade pump at maternal discharge</th>
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</thead>
<tbody>
<tr>
<td>□ yes</td>
</tr>
<tr>
<td>□ no or unknown</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Initial pumping ≤6 HOL</th>
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</thead>
<tbody>
<tr>
<td>□ yes</td>
</tr>
<tr>
<td>□ no or unknown</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Availability of MOM ≤72 HOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ yes</td>
</tr>
<tr>
<td>□ no or unknown</td>
</tr>
<tr>
<td>□ NA</td>
</tr>
</tbody>
</table>
Data Definition/Collection

- Non-nutritive breastfeeding documented
  - “dry” breastfeeding
- Skin-to-skin care ≤ DOL 10
- Any nutritive BF w/in 7 days of initial disposition
  - Observation or test wght
- Any NEC
  - VON definition

<table>
<thead>
<tr>
<th>Non-nutritive BF documented</th>
<th>□ yes</th>
<th>□ NA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>□ no or unknown</td>
<td>□ not desired by mother</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin-to-skin (S2S) care ≤ DOL 10</th>
<th>□ yes</th>
<th>□ NA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>□ no or unknown</td>
<td>□ not desired by mother</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Any nutritive BF w/in 7 days of initial disposition</th>
<th>□ yes</th>
<th>□ NA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>□ no or unknown</td>
<td>□ not desired by mother</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Any NEC</th>
<th>□ yes</th>
<th>□ no</th>
</tr>
</thead>
</table>
Data Definitions: Pumping/Feeding volumes

- **DOL 7, 14, 28**
  - Pumped volume refers to 24hr volume from midnight to midnight
  - “Feeding volume” refers to 24hr volume of each feeding substrate from midnight to midnight. Report will reflect % of total.
  - Enter “0” if substrate not fed at all
  - Enter all “0s” if NPO

- If “NA” selected for DOL 7, 14, or 28, database will skip to next measure – no column entry.

- Always complete “initial disposition” column
  - Discharge to home – 24hr volume of each substrate
  - If expired or transferred out, enter maximal enteral feeds achieved during NICU stay

<table>
<thead>
<tr>
<th></th>
<th>DOL 7 □ NA</th>
<th>DOL 14 □ NA</th>
<th>DOL 28 □ NA</th>
<th>Day of Infant Initial Disposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOM pumped volume</td>
<td>□ yes</td>
<td>□ yes</td>
<td>□ yes</td>
<td></td>
</tr>
<tr>
<td>500 ml/day</td>
<td>□ no or unknown</td>
<td>□ no or unknown</td>
<td>□ no or unknown</td>
<td></td>
</tr>
<tr>
<td>MOM feeding volume</td>
<td>ml</td>
<td>ml</td>
<td>ml</td>
<td>ml</td>
</tr>
<tr>
<td>Donor human milk feeding volume</td>
<td>ml</td>
<td>ml</td>
<td>ml</td>
<td>ml</td>
</tr>
<tr>
<td>Formula feeding volume</td>
<td>ml</td>
<td>ml</td>
<td>ml</td>
<td>ml</td>
</tr>
</tbody>
</table>
Data Collection Portal Walk-Through
Questions?
THANK YOU!