Data Collector Training Programme
Module 5

Observation: KMC

Every Newborn Action Plan Metrics Linked with Ending Preventable Maternal Mortality

#EveryNewborn #Endingstilbirths #maternalhealth
Session Planning

- **Purpose:** Ensure KMC observers know and understand how to conduct themselves, and their work, in accordance with the project guidelines and training handbook.

- **Target Audience:** Observers & supervisors

- **Length of session:**
  - Presentation: part i (45 mins) + Activity K (45 mins)
  - Presentation: part ii (45 mins) + Activity L (90 mins)

- **Type of session:** (classroom / practical)

- **Resources / tools required:**
  - Projector, slide deck, training handbook, group exercise sheet, either tablets with app installed for at least 50% of participants (or paper copy of the KMC observer checklist), marker pens and paper.
Aims & Learning Outcomes

1. To know how to conduct yourself and your work in accordance with the project guidelines and training handbook.

2. To be familiar with the logistics of data collection on the KMC ward.

3. To understand the benefits of KMC and current clinical guidelines.

4. To introduce the data collection app and the required data for collection.

5. To revise what to do during a life-threatening event where local staff do not take appropriate action.
PRESENTATION:
PART I
(45 MINUTES)
Logistics of data collection

Golden Rules:

- Do not talk to or ask questions of the mother/family members/health care workers on the KMC ward.
- If you did not observe the information then enter “don’t know” in the app, DO NOT try and collect it from elsewhere (e.g. looking at the notes/register or asking the mother/healthcare worker).
- If a mother/family member/health care worker tries to talk to you about anything to do with the study you should reply with “I am sorry I am not able to discuss any further” and refer them to your supervisor for further details.
Benefits of kangaroo mother care

51% mortality reduction in newborns <2000g receiving KMC


Other health gains:
- Reductions in infection
- Improved feeding
- Growth
- Mother-infant bonding
- Long term benefits for child development.
What is KMC?

KMC is caring for the newborn in direct and continuous skin-to-skin contact in the kangaroo position providing:

- Thermal care
- Support for exclusive breastmilk feeding
- Supportive care for infections and other complications
- Early discharge and appropriate follow-up

1. KMC positioning
2. Securely wrap the baby in KMC position
3. Put on loose clothing over the wrap

MCHIP 2012
Data to be collected

This relates to the next activity where we will review the variable dictionary in detail.

There are five different tabs in the app to represent the following events:

1. KMC initiation
   To be observed hourly:
2. KMC position
3. Feeding practices
4. Other treatment
5. KMC discharge outcomes

You may move between tabs as required. All variables are grouped under these five headings.
Activity K: Review of the Variable Dictionary

Objective:
To allow the KMC observers to review the checklist and identify and discuss any clinical procedures that are different from their current routine practise.

Time: 45 mins
(30 minutes group work & 15 minutes’ central discussion)

Handout: KMC section of the variable dictionary

Instructions:
- Split the group into 3-4 people and make sure each person has a printed copy of the KMC section of the variable dictionary
- Any areas of practice that differ from the trainees own
- Any questions
- Any clinical content you are unsure of
- Possible solutions for any issues you that may arise
PRESENTATION:
PART II
(45 MINUTES)
### Content and Flow of the Checklist

<table>
<thead>
<tr>
<th>Study ID</th>
<th>Name</th>
<th>Age</th>
<th>Sex</th>
<th>Hospital ID</th>
<th>KMC</th>
<th>OB</th>
<th>MRS</th>
<th>DE</th>
</tr>
</thead>
<tbody>
<tr>
<td>103000002</td>
<td>hh</td>
<td>0 days</td>
<td>Male</td>
<td>KUSHTIA, hhjj, ghhjj, yyhh</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>yy66</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>103000001</td>
<td>gghjjhhggv</td>
<td>0 days</td>
<td>Male</td>
<td>DHAKA, hhjj, ghhjj, yyhh</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>667</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>103000001</td>
<td>yyggyyg</td>
<td>24 years</td>
<td></td>
<td>Leve1, hhjj, ghhjj, yyhh</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>112</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Content and Flow of the Checklist

KMC

Study ID 103000002
Hospital ID yy66

KMC-INITIATION KMC-POSITION KMC-FEEDING OTHER TREATMENT KMC-DISCHARGE & OUTCOME

Patient

PAUSE

STOP

hh
Age: 0 days Male
KUSHTIA, hhjj, ghjjj, yyhh

www.lancet.com/series/everynewborn
#EveryNewborn
Content and Flow of the Checklist

### KMC

**Study ID** 103000002  
**Hospital ID** yy66

<table>
<thead>
<tr>
<th>KMC-INITIATION</th>
<th>KMC-POSITION</th>
<th>KMC-FEEDING</th>
<th>OTHER TREATMENT</th>
<th>KMC-DISCHARGE &amp; OUTCOME</th>
</tr>
</thead>
</table>

**Patient**

- **Age:** 0 days  
- **Gender:** Male  
- **Location:** KUSHTIA, hhjj, ghhjj, yyhh

**Buttons:**

- **Pause**
- **Stop**
### Content and Flow of the Checklist

<table>
<thead>
<tr>
<th>KMC-INITIATION</th>
<th>KMC-POSITION</th>
<th>KMC-FEEDING</th>
<th>OTHER TREATMENT</th>
<th>KMC-DISCHARGE &amp; OUTCOME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. KMC initiation start</td>
<td>☑ Yes ☐ No ☐ DK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Date of initiation of KMC</td>
<td>03/05/2017</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Time of initiation of KMC</td>
<td>16:21</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Health worker initiates conversation about KMC with mother</td>
<td>☑ Yes ☐ No ☐ DK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Baby in KMC position</td>
<td>☑ Yes ☐ No ☐ DK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Baby is wearing a hat</td>
<td>☑ Yes ☐ No ☐ DK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Baby is vertical</td>
<td>☑ Yes ☐ No ☐ DK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Baby in direct skin to skin contact on mothers chest</td>
<td>☑ Yes ☐ No ☐ DK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Legs are flexed in frog position</td>
<td>☑ Yes ☐ No ☐ DK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Cheek of the baby in contact with the mothers chest</td>
<td>☑ Yes ☐ No ☐ DK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. The baby is wearing a nappy/diaper</td>
<td>☑ Yes ☐ No ☐ DK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. The baby is fixed with a:</td>
<td>☑ Cloth/shawl ☑ Special wrap ☑ Others</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others (specify)</td>
<td>yyyyyy</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Content and Flow of the Checklist

KMC

Study ID: 103000002
Hospital ID: yy66

Patient: hh
Age: 0 days  Male
KUSHTIA, hhjj, ghhjj, yyhh

KMC-INITIATION  KMC-POSITION  KMC-FEEDING  OTHER TREATMENT  KMC-DISCHARGE & OUTCOME

KMC Position and Continuity

<table>
<thead>
<tr>
<th>#</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>03/05/2017</td>
<td>16:28</td>
</tr>
<tr>
<td>1</td>
<td>03/05/2017</td>
<td>16:27</td>
</tr>
</tbody>
</table>
## Content and Flow of the Checklist

### KMC POSITION AND CONTINUITY

**hh**

Age: 0 days  Male

<table>
<thead>
<tr>
<th>Observation number</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Date</td>
<td>30/05/2017</td>
</tr>
<tr>
<td>2. Time of observation</td>
<td>18:17</td>
</tr>
<tr>
<td>3. Baby is in KMC</td>
<td>Yes</td>
</tr>
<tr>
<td>4. KMC done by</td>
<td>Mother</td>
</tr>
</tbody>
</table>

#### 5. Assessment of KMC position

- a) Baby is in upright position [✓]
- b) Baby is in direct skin to skin contact [✓]
- c) Legs are flexed in frog position [✓]
- d) Cheek of the baby in contact with the mothers chest [✓]
- e) Baby is fixed firmly to the chest of the mother [✓]
- f) The baby is wearing a nappy/diaper [✓]
- g) The baby is wearing a cap/bonnet [✓]
- h) The baby is wearing socks [✓]

[SAVE -> CONTINUE]
## Content and Flow of the Checklist

### KMC

**Study ID**: 103000002  
**Hospital ID**: yy66  
**hh**  
**Age**: 0 days  
**Gender**: Male  
**KUSHTIA, hhjj, ghjj, yyhh**  

### Feeding Practices During KMC

<table>
<thead>
<tr>
<th>KMC-INITIATION</th>
<th>KMC-POSITION</th>
<th>KMC-FEEDING</th>
<th>OTHER TREATMENT</th>
<th>KMC-DISCHARGE &amp; OUTCOME</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>18/05/2017</td>
<td>15:14</td>
<td></td>
<td>+ NEW OBSERVATION</td>
</tr>
<tr>
<td>1</td>
<td>03/05/2017</td>
<td>16:31</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Content and Flow of the Checklist

## Feeding Practices During KMC

<table>
<thead>
<tr>
<th>Observation number</th>
<th>3</th>
</tr>
</thead>
</table>

1. **Date**: 30/05/2017

2. **Time**: 18:18

### Cup Fed

3. **Baby being cup fed**: [ ] Yes [ ] No [ ] DK

### Nasogastric Fed

8. **Baby being nasogastric fed**: [ ] Yes [ ] No [ ] DK

### Breastfeeding

12. **Baby sucking at breast**: [ ] Yes [ ] No [ ] DK

[SAVE -> CONTINUE]
### Content and Flow of the Checklist

#### KMC

<table>
<thead>
<tr>
<th>Study ID</th>
<th>1030000002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospital ID</td>
<td>yy66</td>
</tr>
<tr>
<td>Patient ID</td>
<td>PATIENT</td>
</tr>
<tr>
<td>Age</td>
<td>0 days</td>
</tr>
<tr>
<td>Gender</td>
<td>Male</td>
</tr>
<tr>
<td>Hospital</td>
<td>KUSHTIA, hhjj, ghjjj, yyyhh</td>
</tr>
</tbody>
</table>

#### KMC-Initiation

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Is other supportive care being given?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### KMC-Position

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Are antibiotics being given?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1) **Antibiotic - 1**: tygggggggtggh

2) **Antibiotic - 2**: fghjkkk

#### KMC-Feeding

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. Are other treatments being given?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### KMC-Other Treatment

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Are treatments being given?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Aminophylline
- Other

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>5. Is oxygen being given?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### KMC-Discharge & Outcome

**Save -> Continue**
### Content and Flow of the Checklist

<table>
<thead>
<tr>
<th>KMC-INITIATION</th>
<th>KMC-POSITION</th>
<th>KMC-FEEDING</th>
<th>OTHER TREATMENT</th>
<th>KMC-DISCHARGE &amp; OUTCOME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Babys condition at discharge</td>
<td>Alive</td>
<td>Neonatal death</td>
<td>Don't know</td>
<td></td>
</tr>
<tr>
<td>4. Date of discharge</td>
<td>02/05/2017</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Time of discharge (24 Hours clock)</td>
<td>22:50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Babys weight at discharge (in Gram)</td>
<td>2650</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Baby discharge/transferred to</td>
<td>Home</td>
<td>Postnatal ward with mother</td>
<td>Inpatient-newborn</td>
<td>Other</td>
</tr>
<tr>
<td>8. Mothers condition at discharge from KMC ward</td>
<td>Alive</td>
<td>Dead</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Mother discharged to</td>
<td>Home</td>
<td>Inpatient</td>
<td>Referral to higher facility</td>
<td>Inpatient-other</td>
</tr>
</tbody>
</table>

**Final status of this observation**

11. What is the status of the observation? Complete | Partially incomplete | Totally incomplete
## Content and Flow of the Checklist

### Final status of this observation

11. What is the status of the observation?

- [ ] Complete
- [x] Partially incomplete
- [ ] Totally incomplete

### Why partially incomplete or totally incomplete?

- [ ] Provider related
- [ ] Patient related
- [ ] Observer related
- [ ] Tab or App related

Please mention baby seriously ill

### Do you want to report any incident?

- [x] Yes  
- [ ] No

If yes, then what is the incident?

malpractice by HCW

### Write down the serial number of the incident form.

678
Content and Flow of the Checklist

### KMC

**Study ID**
103000002

**Hospital ID**
KUSHTIA, hhjj, ghhjj, yyhh

**Patient Information**
- ** hh **
- Age: 0 days
- Male

### KMC-Initiation

### KMC-Position

### KMC-Feeding

### Other Treatment

### KMC-Discharge & Outcome
Summary: Life-Threatening Event where no appropriate action is being taken

- **When should I intervene?**
  During any life threatening scenario where local staff are not taking the appropriate action, or when instructed by a clinical alert.

- **What should I do?**
  You should follow the procedure algorithm for these events, instructions provided by a clinical alert will direct you to the correct part of the algorithm.

- **What is a clinical incident form?**
  This is a mandatory form that should be completed with support from your supervisor and in all cases indicated by the procedure algorithm.

- **What next?**
  Your supervisor will contact the named responsible from hospital management team and ensure they have a copy of the clinical incident form. This form will also be used as part of incident review management at facility, country and international level.
**Procedure**

If Clinical Alert Flag appears during your observation, follow instruction to either:

- **Alert health-worker responsible**
  - Appropriate action taken by facility staff
  - Continue observation

- **Health-worker does not take appropriate action**
  - Appropriate action taken by facility staff
  - Continue observation

- **CALL FOR HELP**
  - INSERT name & how to contact senior clinical staff
  - Continue observation

- **Help does not come immediately**
  - Provide direct clinical care

- **Help arrives, but does not implement appropriate actions**
  - Complete clinical incident form & follow up with data quality supervisor

- **Life threatening event occurs & no appropriate action is initiated**
  - Complete clinical incident form & follow up with data quality supervisor
Activity L: Practise with simulation

Objective: To give trainees the opportunity to practice completing the KMC checklist on the tablet using a simulation of a baby and mother carrying out KMC.

Time: 90 minutes

Instructions:
Using the KMC checklist on the tablet enter the relevant data from the simulation of a mother and baby in the KMC ward

- Hold group discussion:
- What was the experience of observing KMC?
- What was the experience of using the tablet to collect data on KMC?
- What was difficult?
- What was easy?
- What would you do differently next time?
DISCUSSION