



EVERY WOMAN
EVERY CHILD

Every Newborn Action Plan Metrics
Linked with
Ending Preventable Maternal Mortality

Data Collector Training Programme Module 5

Observation:
KMC

#EveryNewborn #Endingstillbirths
#maternalhealth



World Health
Organization

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LONDON
SCHOOL of
HYGIENE
& TROPICAL
MEDICINE



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.



A close-up photograph of a woman with her eyes closed, gently holding a newborn baby. The woman is wearing a headscarf with horizontal stripes. The baby is wrapped in a patterned blanket. The entire image is overlaid with a semi-transparent teal color.

PRESENTATION: PART I

(45 MINUTES)

THE LANCET

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 to the app, DO NOT try and collect it from elsewhere (e.g. looking at the notes/register or asking the mother/health care 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**

Lawn *et al*, (2010); Conde-Agudelo *et al*, (2014)

Other health gains:

- Reductions in infection
- improved feeding
- growth
- Mother-infant bonding
- long term benefits for child development.



Copyright: Merlin/Save the Children



WHO, 2003

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 practises

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 in to 3-4 people and make sure each person has a printed copy of the KMC section of the variable dictionary
- Any areas of practise that differ from the trainees own
- Any questions
- Any clinical content you are unsure of
- Possible solutions for any issues you that may arise

A close-up photograph of a woman with her eyes closed, gently holding a newborn baby. The woman is wearing a headscarf with horizontal stripes. The baby is wrapped in a patterned blanket. The entire image is overlaid with a semi-transparent teal color.

PRESENTATION: PART II

(45 MINUTES)

THE LANCET

10

Content and Flow of the Checklist

Registration (Total: 3)

LABOUR AND DELIVERY KMC INFECTION


Study Id/Name/Phone/Hospital ID + SEARCH

Study ID 10300002	hh Age: 0 days Male Hospital ID yy66	KMC OB MRS DE
Study ID 10300001	gghjjjhhggv Age: 0 days Male Hospital ID 667	KMC OB MRS DE
Study ID 10300001	yygggyyg Age: 24 years Hospital ID 112	L & D OB MRS DE



Content and Flow of the Checklist

Observation **OB** **MRS** **DE**

KMC **PATIENT** 

Study ID **hh**
103000002 Age: 0 days Male

Hospital ID **yy66** KUSHTIA, hhjj, ghhjj, yyhh


PAUSE

STOP

KMC-INITIATION	KMC-POSITION	KMC-FEEDING	OTHER TREATMENT	KMC-DISCHARGE & OUTCOME
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Content and Flow of the Checklist

Observation **OB** **MRS** **DE**

KMC **PATIENT** 

Study ID **hh**
103000002 Age: 0 days Male

Hospital ID **yy66** KUSHTIA, hhjj, ghhjj, yyhh

PAUSE

STOP

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

Content and Flow of the Checklist

Observation **OB** **MRS** **DE**

KMC PATIENT

Study ID **hh** PAUSE
103000002 Age: 0 days Male

Hospital ID KUSHTIA, hhjj, ghhjj, yyhh STOP
yy66

KMC-INITIATION	KMC-POSITION	KMC-FEEDING	OTHER TREATMENT	KMC-DISCHARGE & OUTCOME
1. KMC initiation start		<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK		
2. Date of initiation of KMC		<input type="text" value="03/05/2017"/>		
3. Time of initiation of KMC		<input type="text" value="16:21"/>		
4. Health worker initiates conversation about KMC with mother		<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK		
5. Baby in KMC position		<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK		
6. Baby is wearing a hat		<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> DK		
7. Baby is vertical		<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK		
8. Baby in direct skin to skin contact on mothers chest		<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK		
9. Legs are flexed in frog position		<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK		
10. Cheek of the baby in contact with the mothers chest		<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK		
11. The baby is wearing a nappy/ diaper		<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> DK		
12. The baby is fixed with a:		<input type="radio"/> Cloth/shawl <input type="radio"/> Special wrap <input checked="" type="radio"/> Others		
Othes (specify)		<input type="text" value="yyhhh"/>		

SAVE -> CONTINUE

Content and Flow of the Checklist

Observation

OB **MRS** **DE**

KMC **PATIENT**

Study ID **hh**
103000002 Age: 0 days Male

Hospital ID **yy66**
KUSHTIA, hhjj, ghhjj, yyhh

PAUSE

STOP

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

KMC Position and Continuity **+ NEW OBSERVATION**

2	03/05/2017	16:28
1	03/05/2017	16:27

Content and Flow of the Checklist

The screenshot shows a mobile application interface for a checklist titled "KMC POSITION AND CONTINUITY". At the top, there is a navigation bar with a back arrow and the title. Below this, the user's initials "hh" and the patient's details "Age: 0 days Male" are displayed. The form contains several input fields and radio buttons:

- Observation number: 3
- 1. Date: 30/05/2017
- 2. Time of observation: 18:17
- 3. Baby is in KMC: Yes No DK
- 4. KMC done by: Mother Other


A section titled "5. Assessment of KMC position" follows, with eight items, each with a checkbox:

- 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

At the bottom, there is a green button labeled "SAVE -> CONTINUE".

Content and Flow of the Checklist

Observation **OB** **MRS** **DE**

KMC **PATIENT** 

Study ID **hh**
103000002 Age: 0 days Male

Hospital ID **yy66**
KUSHTIA, hhjj, ghhjj, yyhh

PAUSE

STOP

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

Feeding Practises During KMC **+ NEW OBSERVATION**

2	18/05/2017	15:14
1	03/05/2017	16:31

Content and Flow of the Checklist

hh
Age: 0 days Male

Observation number

1. Date

2. Time

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

Observation **OB** **MRS** **DE**

KMC **PATIENT** 

Study ID **hh** **PAUSE**
103000002 Age: 0 days Male

Hospital ID **yy66** **STOP**
KUSHTIA, hhjj, ghhjj, yyhh

KMC-INITIATION	KMC-POSITION	KMC-FEEDING	OTHER TREATMENT	KMC-DISCHARGE & OUTCOME
1. Is other supportive care being given? <input checked="" type="radio"/> Yes <input type="radio"/> No				
2. Are antibiotics being given? <input checked="" type="radio"/> Yes <input type="radio"/> No				
1) Antibiotic - 1 <input type="text" value="tygggggggtggh"/> 				
2) Antibiotic - 2 <input type="text" value="fghjkkkkk"/> 				
3. Other treatments being given? <input checked="" type="radio"/> Yes <input type="radio"/> No				
4. Treatments being given? <input checked="" type="radio"/> Aminophylline <input type="radio"/> Other				
5. Is oxygen being given? <input checked="" type="radio"/> Yes <input type="radio"/> No				
SAVE -> CONTINUE				

Content and Flow of the Checklist

← Observation **OB** **MRS** **DE** 47% 18:19

KMC **PATIENT**

Study ID **hh** **PAUSE**
10300002 Age: 0 days Male
Hospital ID KUSHTIA, hhjj, ghjjj, yyhh **STOP**
yy66

KMC-INITIATION	KMC-POSITION	KMC-FEEDING	OTHER TREATMENT	KMC-DISCHARGE & OUTCOME
1. Babys condition at discharge	<input checked="" type="radio"/> Alive <input type="radio"/> Neonatal death <input type="radio"/> Don't know			
4. Date of discharge	02/05/2017			
5. Time of discharge(24 Hours clock)	22:50 <input type="checkbox"/> Don't know			
6. Babys weight at discharge(in Gram)	2650 <input type="checkbox"/> Don't know			
7. Baby discharge/transferred to	<input type="radio"/> Home <input type="radio"/> Postnatal ward with mother <input checked="" type="radio"/> Inpatient-newborn <input type="radio"/> Other			
8. Mothers condition at discharge from KMC ward	<input checked="" type="radio"/> Alive <input type="radio"/> Dead			
9. Mother discharged to	<input checked="" type="radio"/> Home <input type="radio"/> Inpatient <input type="radio"/> Referral to higher facility <input type="radio"/> Inpatient-other			
Final status of this observation				
11. What is the status of the observation?	<input checked="" type="radio"/> Complete <input type="radio"/> Partially incomplete <input type="radio"/> Totally incomplete			

Content and Flow of the Checklist

Final status of this observation

11. What is the status of the observation?
- Complete
- Partially incomplete
- Totally incomplete

12. Why partially incomplete or totally incomplete?
- Provider related
- Patient related
- Observer related
- Tab or App related

Please mention

baby seriously ill

13. Do you want to report any incident?
- Yes No

If yes, then what is the incident?

malpractice by HCW


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

678

SAVE -> CONTINUE

Content and Flow of the Checklist

Observation **OB** **MRS** **DE**

KMC **PATIENT** 

Study ID **hh**
103000002

Age: 0 days Male

Hospital ID KUSHTIA, hhjj, ghhjj, yyhh
yy66

PAUSE

STOP

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.

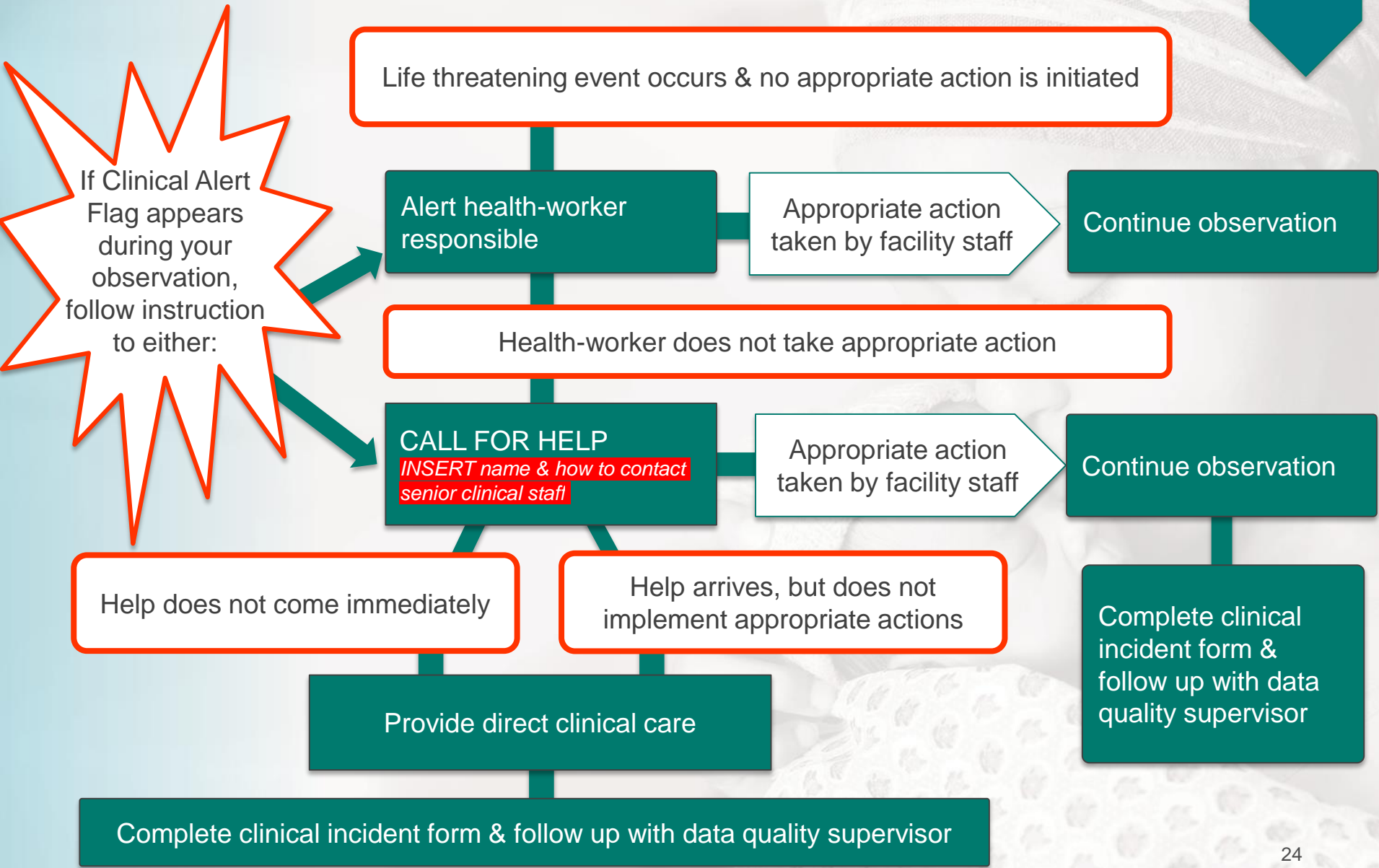
- **What is a clinical incident form?**

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



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

