



EVERY WOMAN
EVERY CHILD

Every Newborn Action Plan Metrics
Linked with
Ending Preventable Maternal Mortality

Data Collector Training Programme Module 6

Data Extraction & Verification

#EveryNewborn #Endingstilbirths
#maternalhealth



World Health
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MEDICINE



Session Planning

- **Purpose:**
Ensure data collectors know and understand how to conduct themselves, and their work, in accordance with the project guidelines and training handbook.
- **Target Audience:** Data collectors & supervisors
- **Length of session:**
Presentation 60 mins
Activity M (60 mins)
Activity N (60 mins)
- **Type of session:** (classroom / practical)
- **Resources / tools required:**
Projector, slide deck, training handbook, supporting materials/ resource pack, either tablets with app installed for at least 50% of participants (or paper copy of the data extraction forms and verification tools), 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 using the register extraction form
3. To be familiar with the logistics of data collection using the verification form for both ACS and neonatal infection



Roles and Responsibilities

Register data extraction: you are responsible for extraction of the required data from the registers (and no other source) and recording the information that is available in the relevant extraction form in the app in both the L&D ward and KMC ward

Case note verification: collect the available data from patient records, lab reports and other sources and enter it into the app-based verification form in accordance with agreed ACS and neonatal infection case definitions (next slide)

In case you are unable to read what is written on the register or the forms,

- call for a second review by your supervisor
- If both of you fail to read the information then check the button on the app “Not Readable”

If the required data is not in the document you are reviewing then check the “Not Recorded” button

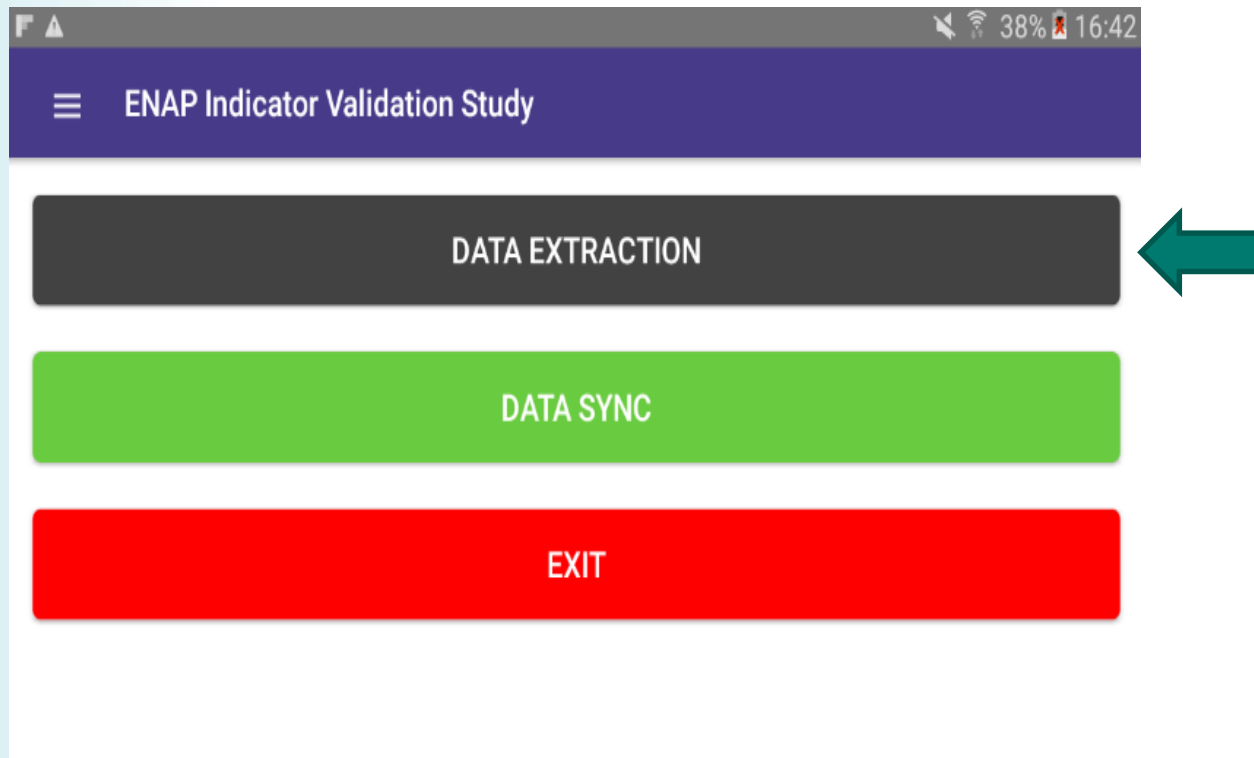
Extraction of Data from LD and/or KMC Registers

- Check your tablet for a list of women/newborns who have been observed
- Identify which register to review by the mother/baby ID and place of observation.
- Match each observation case with ID/admission number/IP registration number
- Find the entry in the L&D/KMC register
- Complete the extraction form on your tablet
- Do not consult any other data sources, you should only extract data from the register
- The sequence of variable will not always be exactly the same as your available registers. Be careful you are entering the correct variable information in the correct section of the tablet.





























If information is not available in the register you are reviewing do not ask health workers or anyone else what the information is or where it may be recorded.

Enter the information in to the tablet as “not recorded”.

Extraction of Data from Registers



Extraction of Data from Registers

Registration (Total: 104)		
Data Extraction		
<input type="text" value="Study Id/Name/Phone/Hospital ID"/>  		
 Study ID 136000002	test1 Age: 30 days Female	KMC   
Hospital ID 123	DHAKA, jnjik, JAGATI, AMLAPARA (BUET TEACH.STAFF QU.)	
 Study ID 136000001	test Age: 22 years	L & D    
Hospital ID 123	DHAKA, jnjik, JAGATI, AMLAPARA (BUET TEACH.STAFF QU.)	
 Study ID 103000003	yuuhhhg Age: 26 years	L & D   
Hospital ID 566	KUSHTIA, gggg, fgg, gggg	
 Study ID 103000002	holly Age: 11 years	L & D    
Hospital ID 999	KUSHTIA, bubugy, ggg, ggggg	
 Study ID 144000021	Aleya Age: 20 years	L & D   
Hospital ID 123	DHAKA, ed, hg, xdf	
 Study ID 104000001	trisha Age: 72 years	L & D   
Hospital ID 034578	KUSHTIA, khoksha, khojsha, khoksha	

This requires extraction from the KMC register

Select the DE button to complete the data extraction

This requires extraction from the L&D register

Extraction of Data from Registers

Labour and Delivery: Data Extraction

Data ID

1. Date of data extraction

2. Gestational age (completed weeks)

☐ Not readable
☐ Not recorded

3. Antenatal corticosteroids use documented as administered? ☐ Yes
☐ No
☐ Not possible to record
☐ Not readable
☐ Not recorded

4. Estimated date of delivery (solar calendar)

☐ Not readable
☐ Not recorded

5. Uterotonic administered for active management of the 3rd stage of labour? ☐ Yes
☐ No
☐ Not readable
☐ Not recorded

6. Number of Birth ☐ One ☒ Two ☐ Three

Extraction of Data from Registers

6. Number of Birth ☐ One ☒ Two ☐ Three

7. Child 1

a. Mode of birth/
delivery

- ☐ Normal vaginal delivery
- ☐ Vaginal breech/ Vacuum Extraction/ Forceps (any)
- ☐ Elective /Emergency caesarean section
- ☐ Not readable
- ☐ Not recorded

b. Date of Delivery


- ☐ Not readable
- ☐ Not recorded

Extraction of Data from Registers

← KMC: Data Extraction

FORM B3: DATA EXTRACTION FORM - KMC REGISTER

Data ID


1. Date of data extraction 

2. Source of Record
☒ KMC ward register
☐ Inpatient Record
☐ Other

3. Child's name, if available

4. Child's Hospital ID

5. Sex of Child
☐ Male
☐ Female
☐ Ambiguous
☐ Not readable
☐ Not recorded

6. Date of Delivery 
☐ Not readable
☐ Not recorded

Extraction of Data from Registers

12. What is the final status of the data extraction for this patient

- ☐ Complete
- ☒ Partially Incomplete
- ☐ Totally incomplete/Record not found

13. Why partially incomplete or totally incomplete?

- ☐ Provider related
- ☐ Patient related
- ☒ Observer related
- ☐ Tab or App related

14. Please mention

SAVE -> CONTINUE

Case Note Verification

- Strictly limit collection of information to what is written in the following records:
 - Patient chart
 - Drug chart
 - Lab report
 - Nursing report
 - Case record form
 - EMOC register
- If the required information is not available in one of the above data sources, do not refer to any other means
(e.g. consultation with the patient/attendants/health workers for information)

Verification of ACS

- Each day check your tablet and the list of women who meet the following criteria:
- **Inclusion criteria:**
 - Mother consented to data collection and birth was observed
- AND, at minimum one, of the following:
 - Mother admitted with gestational age ≤ 34 completed weeks
 - Previous history of threatened preterm labour during this pregnancy
- Using the ID/admission number/IP registration number for this women, find her relevant notes
- Review patient chart, drug chart, nursing report, case record form/EMOC register (Bangladesh) to verify diagnosis and treatment of preterm pregnancy with ACS
- Enter the information that is available in to the tablet

Verification of Newborn Infection Notes

- Each day visit the inpatient paediatric/neonatal ward and review the register for newly admitted patients who meet the criteria.

Inclusion criteria:

- Baby on neonatal ward, recorded in register and main diagnosis is infection (sepsis/meningitis)
- Baby's age <28 days at time of admission

Exclusion criteria:

- Baby with congenital abnormality
 - Neonatal encephalopathy/ severe asphyxia
 - Preterm <34 weeks
 - Weight at admission <2000 grams
- Identify the relevant documents for this patient:
patient chart, drug chart, lab report, nursing report
 - Complete the verification form on the app

Activity M: Practise data extraction from the Registers (60 minutes)

Objective: To give trainees the opportunity to practise using the data extraction forms, the app, and to familiarise themselves with the facility registers.

Instructions:

Using the app based data extraction tool, please review the different register extracts and input the required data into the tablet.

If time allows, hold group discussion:

- What was the experience of extracting data?
- What was the experience of using the tablet to collect the data?
- What was difficult?
- What was easy?
- THE LANCET What would you do differently next time?

Activity N: Practise using data verification tools for ACS & newborn sepsis (60 mins)

Objective: To give trainees the opportunity to practise using the data verification tools for ACS and newborn sepsis, the app, and to familiarise themselves with the local patent records and registers.

Instructions:

Using the app-based extraction/verification tool, please review the different registers/patient records and input the required data into the tablet.

If time allows, hold group discussion:

- What was the experience of verifying data?
- What was the experience of using the tablet to collect the data?
- What was difficult?
- What was easy?
- What would you do differently next time?

DISCUSSION

