Session 15: PMS sampling, tracking and quality of clinical data

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PMS sample

 Facilities with the capacity to provide PAC (preferably those with enough cases to provide useful data over 28 days).



PMS sample: Same sample as HFS

 In a smaller country or with extensive resources you can use the exact same sample as the HFS accounting for facilities that do not provide PAC in the weights.



PMS sample: Different from HFS

- In a larger country of with more constrained resources you can take a sample of facilities from the HFS sample.
- Sampling frame- HFS universe
- You can stratify like in HFS- by province and level
- Similar to HFS we typically include all large facilities with most

Table 1. Universe and sample selection, by type of facility and survey, Zimbabwe 2016.

	HF	S Census ^a	PMS Sample ^b	MoHCC M&E d	
Type of health facility	Response rate (%)	Facilities interviewed (No.)	Sample proportion from universe of facilities with PAC capacity (%)	Facilities interviewed (No.) ^c	Number of facilities
Primary health centers	100%	59	30%	18	822
District and mission hospitals	100%	89	52%	47	3
Provincial hospitals	100%	8	100%	8	
Central hospitals	100%	5	100%	5	
Private hospitals	97%	32	77%	26	
NGO	100%	34	68%	23	
Total	99.6%	227	56%	127	825



Revision: Calculating weights

- While creating the sample, it helps to create dummy weights to determine if there are enough cases per facility type, per region.
- For each facility type:

Facility weight = #Universe / #Sample

 Computing the weight for each facility type in each region produces separate facility weights for each region.



Tracking and quality of clinical data



Staffing the study team

- Clinicians from within the facility
- External clinicians
- Research assistants
- Supervising clinician(s)- local, remote.



What is the patient flow for PAC cases at your facility?

OPD or EMERGENCY or A&E

How many?

Wards

➤ i.e. Female ward, Gynecology ward, Maternity ward, Female surgical ward, Pediatrics ward

- MVA ROOM or THEATRE or ICU
- Wards

> The same ward or another ward?

- Family planning counselling clinic
- Discharge



Reminding clinicians about inclusion criteria

Inclusion criteria:

1. Women admitted for abortion-related complications.

Any hospitalizations resulting from (1)miscarriage/spontaneous or (2) induced abortion including (3) missed, (4) inevitable, (4) incomplete, (5) complete and (6) septic abortion whatever the abortion type (induced or spontaneous) and the severity (up to near-miss and death) at up to 28 weeks of gestation.

PAC STUDY DATA EXTRACTION PROTOCOL DID THE PATIENT HAVE ANY OF THESE DIAGNOSES DURING THEIR HOSPITAL STAY AT LESS THAN 28 WEEKS GA? Incomplete abortion Inevitable abortion Complete abortion Missed abortion Septic abortion Bleeding in early pregnancy Miscarriage or spontaneous abortion Induced abortion Illegal abortion OR DID THE PATIENT DIE FROM SUCH A COMPLICATION? NOT ELIGIBLE FOR THIS STUDY COMPLETE A DATA EXTRACTION FORM FOR PATIENT DID THE PATIENT HAVE ANY OF THE FOLLOWING DIAGNOSES? Ectopic pregnancy Molar pregnancy WERE they >28 WEEKS GA NOT ELIGIBLE FOR THIS STUDY! DO NOT

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What are the registers and record keeping procedures in your facility?

- (1) How can we identify a patient who was admitted for PAC?
- (2) Do all women receive case files?
- (3) Where are patient case files stored in the facility and how can they be retrieved?
- (4) Where will the study clinician keep patient files? Will copies be made?





Tracking tools- routine patient registers

No	Triage Register Patient Name	Patient file N°	Study N°	Time (Hr) of admission	Comments	Registre AMV	Remarques	Post Partum Register	Comments
								-	



Tracking tools- Identifying what patient files have had data extracted

No	Study ID	Patient file No.	Name	Date of admission	Copied (√/x)	Filled in study file (√/x)	Comments



Collecting objective clinical data

	D. HEALTH FACILITY ADMISSION (ASSESSM	IENI AN	ND OUTCOMES THROUGHOUT FACILITY STAY)
Physical examinati	Questions 28-36, please indicate:		
	1 = No		☐ Blood loss with systolic BP <100 mmHg
	2 = Yes, at arrival or within 24 hours of stay		Lowest syst blood pressure (SBP) mmHg
20) Vital signs:	3 = Yes, after 24 hours of stay		Blood loss requiring 1 unit blood transfusion
a. Temperature	→ Severe Complications: 28) Severe Vaginal Bleeding		
b. Heart rate	Heavy bright red vaginal bleeding (with or without clots),		32) Generalized peritonitis:
c. Systolic blood pı	Pads, towels, or clothing blood-soaked within five minutes		T°C>38,5°C Highest Temperature . °Celsius
d. Diastolic blood 1	Pallor 29) Abdominal Syndrome		AND Abdominal guarding (contracture = hard abdomen like roc),
e. Respiratory rate	(Intra-abdominal injury suspicion) Abdominal pain/cramping AND nausea/vomiting		rebound +/- ileus (decreased/no bowels sound, tenderness)
21) Appearance (C	Shoulder pain Guarding/hard abdomen +/- distended/tense		33a) Severe systemic infection:
a. Normal	abdomen Rebound, Ileus (decreased/no bowels sounds,		$\Box T^{\circ}C > 38^{\circ}C$
b. Pallor	tenderness)		Highest Temperature _ . °Celsius
c. Jaundice	30) Uterine Infection (endometritis or chorioamnionitis)		AND Confirmed or suspected infection
22) Mental status:	Chills, fevers, sweats Foul smelling vaginal discharge +/-History of interference with pregnancy		Type of infection: AND at least one of the following signs: 1) new/worsened altered mentation
a. Alert	→ Potentially life-threatening complications:		2) respiratory rate ≥ 22/min
b. Agitated	31) Severe hemorrhage		Highest respiratory rate
c. Lethargic		''	3) systolic blood pressure ≤ 100mm Hg Lowest syst blood pressure (SBP) mmHg
d. Comatose	☐ Blood loss estimated > 1L Estimated blood loss		mining
			33b) Tetanus infection signs:



Collecting objective clinical data

CRF content	Completed		
Eligibility Form	Yes 🗌	No 🗌	
A. History	Yes 🗌	No 🗌	
B. Health facility presentation – first assessment	Yes 🗌	No 🗌	
C. Laboratory findings	Yes 🗌	No 🗌	
D. Health facility admission (assessment and outcomes throughout facility stay)	Yes 🗌	No 🗌	
E. Eligibility to the quantitative and qualitative interview	Yes 🗌	No 🗌	
F. Management	Yes 🗌	No 🗌	
G. Outcomes	Yes 🗌	No 🗌	

Please check that the checklist on the cover page is completed

I confirm that the information collected in this form is complete and exact. I confirm that the completion process						
has been led in compliance with the study protocol.						
Data collector name:(fulfilling the form)	Signature:	Date://				
Data verifier name:	Signature:	Date: / /				

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Additional information we will require

- Total number of obstetric and gynecological admissions for the duration of data collection
- Total number of deliveries and live births for the duration of data collection
- Total number of maternal deaths recorded within the hospital HMIS for the duration of data collection
- Number of women seen in facility with a diagnosis of abortion (except threatened abortion), who don't have a medical record (patient file).



Linking the clinical and exit-interview questionnaires

- Clinicians and research assistants communicate regularly about eligible patients on admission daily/weekly
- PMS questionnaire completed by <u>clinician</u> when woman has recovered and is to be discharged alive and well OR if woman dies
- Clinician and research assistants keep in touch so that research assistants are aware when women will be discharged or have died
- Clinicians inform women who are admitted that another researcher will come by to ask questions about their health.
- Research assistants are easily accessible or they will miss cases who are unwilling to wait.



Quality assurance summary points

- Tracking eligible women (clinicians and research assistants)
- Crosschecking the clinical data filled into forms (clinicians)
- Storing forms and handing them over to the study team (clinicians)
- Checking the completeness and coherence of forms (research assistants)
- Ensuring ID numbers for near-miss and exit questionnaires are linked (research assistants)
- Checking the clinical information provided (supervising clinician)
- Responding to questions and queries about data (clinicians)