Data Quality Review (DQR) Data Verification and System Assessment Workshop

Session 8

Data Verification at Health Facility Level – Recounting the Value of the Indicator from Source Documents – Confirmed Malaria Cases
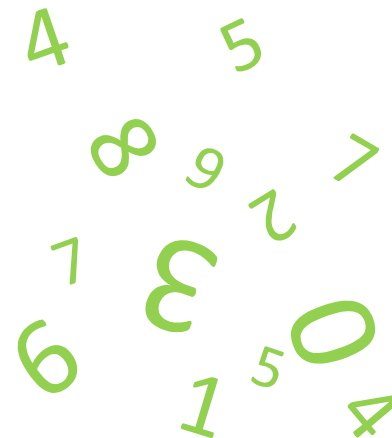
World Health Organization

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MEASURE Evaluation

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Learning Objective

To master the process of recounting the indicator at the health facility.   Specifically, by the end of the session you should be able to;

- Know the definition of the indicator Number of Confirmed Malaria Cases.

- Be familiar with data collection and reporting tools used to record service delivery and report for Confirmed Malaria Cases.

- Understand standard protocols for aggregating Confirmed Malaria Cases at health facilities.

- Understand how to re-count Confirmed Malaria Cases on the outpatient register, or laboratory register, for the selected reporting period.

- Understand and avoid common pitfalls in compilation of data for Confirmed Malaria Cases.
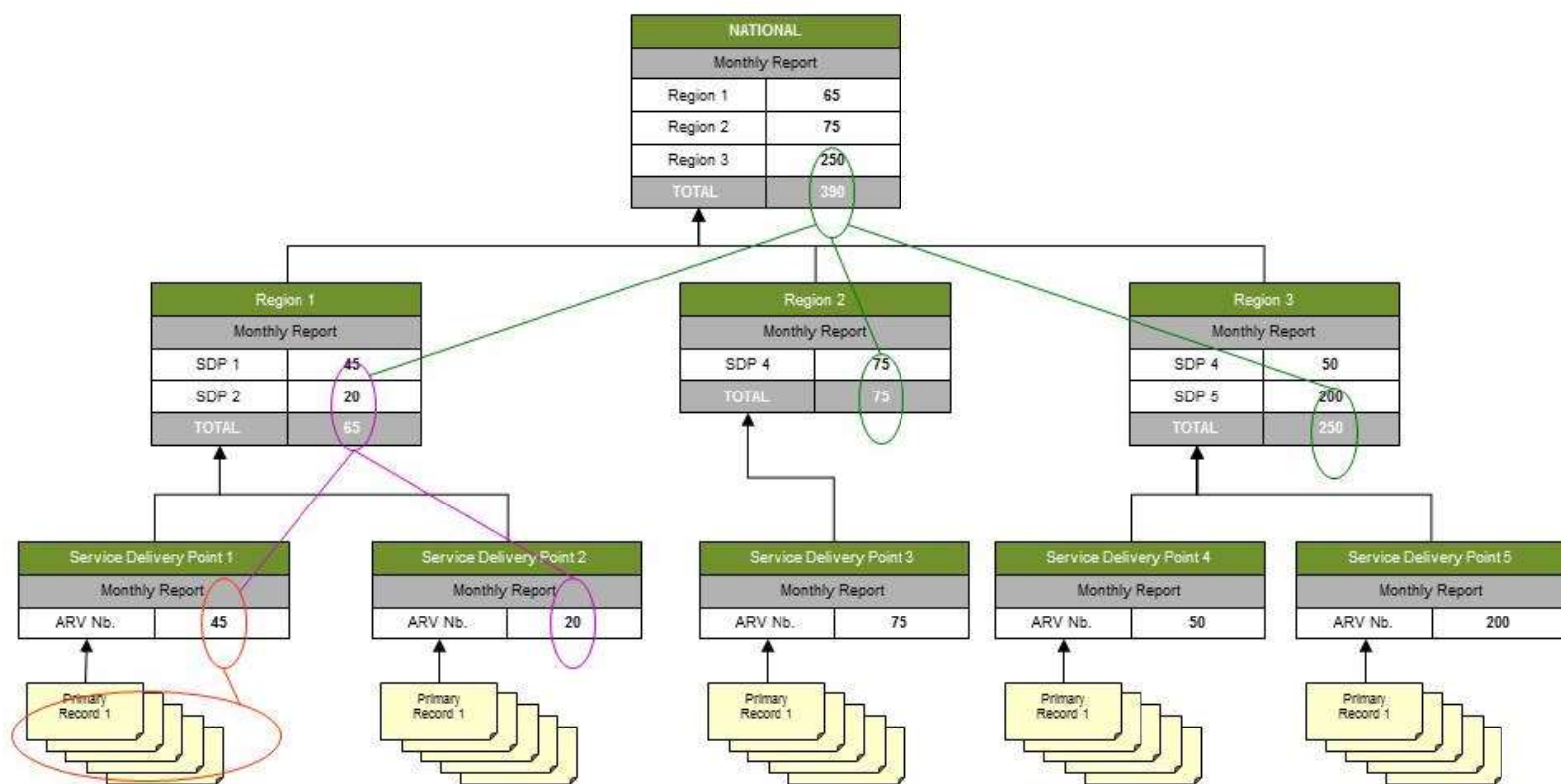
SESSION 8

Recounting Confirmed Malaria Cases

Data Verification Schema

SESSION 8

Recounting Confirmed Malaria Cases

Verification of reporting

Source documents: facility registers (ANC, ART, OPD, TB) & immunization tally sheet

Data verification module

- Recommended maximum 5 indicators for review
  - ANC1, Penta 3/DTP3, Confirmed Malaria Cases, TB cases, malaria cases (confirmed) (adapt to country implementation)
  - Include country indicator definitions
- Select a time period for the verification
  - e.g. : End of March 2019 (end of 1st trimester)
- For each indicator:
  - Documentation review
  - Recount the number of events
  - Reported number of events
  - Reasons for discrepancies

Source Documents and Reports

SOURCE DOCUMENTS AND REPORTS—Confirmed Malaria Cases

- Outpatient department (OPD) register, and/or laboratory register, inpatient register (hospitals)
- HMIS or Program-specific facility quarterly report for the quarter under review

AS6   this slide is still Tb and needs to be updated to Malaria
Ashley Sheffel, 12/9/2019

AS7   From the facilitators guide, need to add Understand which sources documents are used to record service
delivery for malaria – depending on
the type of health facility.
Ashley Sheffel, 12/9/2019

D.B.1   note added in "Notes" section - okay?
David Boone, 4/23/2020

Potential Source Documents

- Example OPD register with malaria test result field

No.	Date	Name	Residence (village, neighbourhood)	Sex	Age in years	Provisional diagnosis	New visit?	Malaria test result	Final diagnosis	Treatment
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

- Example discharge register for inpatient departments in health centers, and hospitals

No.	Date	Name	Residence (village, neighbourhood)	Sex	Age	YMD	Diagnosis	Length of stay (days)	Reason for leaving
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

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Recounting Confirmed Malaria Cases

Potential Source Documents

- Example Malaria Case Register

Monthly line list of malaria cases								Malaria prevention			Antimalarial treatment				
No.	Date admitted	Name	Residence (village, suburb)	Sex	Age	Type of test (RDT/micr.)	Species	ITN owned by household (Y/N)?	ITN used in 2 weeks before admission (all nights/some/none)?	House received IRS (Y/N)?	Date of onset of symptoms	Date contacted health system	Received antimalarial treatment (Y/N)	Date started	Type of treatment (ACT, CQ, others)
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															

- Pay attention to the indicator definition. If we are counting confirmed malaria cases we need a source document that indicates there was laboratory confirmation of the case, i.e. diagnostic testing, either by rapid diagnostic test (RDT) or microscopy.

- If the laboratory register is available this should be the preferable source document for confirmed malaria cases.

Recounting

Confirmed Malaria Cases
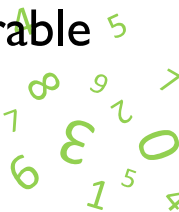
- Recorded positive cases in the laboratory register

HMIS FORM 055a1: HEALTH CENTER II & III DAILY ACTIVITY REGISTER FOR GENERAL ANALYSIS

Check dates

Malaria parasite testing Malaria RDTs

SESSION 8

Recounting Confirmed Malaria Cases

Count the number of positive cases for RDTs and microscopy for the selected period, sum them and enter the total in the questionnaire

AS4   need to add a slide on the common pitfalls in compilation of data for malaria
Ashley Sheffel, 12/9/2019

AS8   this example is from the lab register. do we have an example from the OPD register?
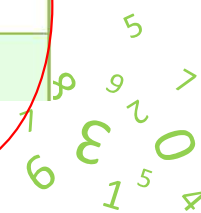Ashley Sheffel, 12/9/2019

Recounting

- Record the recounted values in the appropriate cells on the data collection form

REVIEW SOURCE DOCUMENT FOR CONFIRMED MALARIA CASE RATE AND ANSWER THE FOLLOWING QUESTIONS				
DV_503	Please confirm the availability of the **main source document** used for reporting of **confirmed malaria cases** for Month1 to Month 3. If available and information on confirmed **malaria cases** is recorded, please **recount** the number of confirmed **malaria cases** visits for Month1 to Month3.	(A) SOURCE DOCUMENT AVAILABLE		(B) RECOUNT NUMBER OF CONFIRMED MALARIA CASES IN SOURCE DOCUMENT
		YES, SOURCE DOCUMENT AVAILABLE WITH INFORMATION RECORDED FOR CONFIRMED MALARIA CASES*	NO, SOURCE DOCUMENT NOT AVAILABLE OR INFORMATION ON CONFIRMED MALARIA CASES NOT RECORDED	
01	Month1	1 → B	2 02 ↵	
02	Month2	1 → B	2 03 ↵	
03	Month3	1 → B	2 DV_504 ↵	

Confirmed Malaria Cases

For the NUMBER OF TESTED CASES THAT WERE POSITIVE for:

- Malaria microscopy, and
- Malaria Rapid Diagnostic Tests (RDTs)

take the sum of number of tests done for both age groups

6. LABORATORY TESTS

Laboratory Tests	Number Done		Number Positive	
	0-4 years	5 and over	0-4 years	5 and over
Haematology (Blood)				
01 HB				
02 WBC Total				
03 WBC Differential				
04 Film Comment				
05 ESR				
06 RBC				
07 Bleeding time				
08 Prothrombin time				
09 Clotting time				
10 Others				
Blood Transfusion				
11 ABO Grouping				
12 Coombs				
13 Cross Matching				
Parasitology				
14 Malaria microscopy				
15 Malaria RDTs				
16 Other Haemoparasites				
17 Stool Microscopy				

Reported Values

- Record the reported values from monthly facility reports in the appropriate cells on the data collection form

REVIEW MONTHLY REPORT FOR CONFIRMED MALARIA CASE RATE AND ANSWER THE FOLLOWING QUESTIONS					
DV_504	Please confirm the availability of the **monthly report** form in which confirmed **malaria cases** are recorded and sent to the district or next level administrative unit for Month1 to Month3. If available, please **record** the number of confirmed **malaria cases** entered in the **monthly report form** for Month1 to Month3.	(A) MONTHLY REPORT AVAILABLE			(B) RECORD NUMBER OF CONFIRMED MALARIA CASES IN MONTHLY REPORT
		YES, MONTHLY REPORT AVAILABLE WITH INFORMATION ON CONFIRMED MALARIA CASES RECORD	YES, MONTHLY REPORT AVAILABLE BUT INFORMATION ON CONFIRMED MALARIA CASES NOT RECORDED	NO, MONTHLY REPORT NOT AVAILABLE	
01	Month1	1 → B	2 ⤶ 02	3 ⤶ 02	
02	Month2	1 → B	2 ⤶ 03	3 ⤶ 03	
03	Month3	1 → B	2 ⤶ DV_505	3 ⤶ DV_505	

Potential Cross Checks

- Cross checks are verifications of service delivery across data sources which can help identify data quality problems.

- If time permits, the following cross checks can be conducted for confirmed malaria cases.

  - Verify patients' diagnostic information between the laboratory register and the OPD (or inpatient) register.

  - Compare the number of patients treated in a given reporting period to the number of patients prescribed medication in the pharmacy log book.

  - Compare patients treated against consumption of drugs in the drugs stock management logs.

Keep in mind…

- Pay attention to the indicator definition to know what should be counted and what should not.

- Pay attention that the dates on the source documents correspond to the reporting period selected for review.

- The recount should be conducted on the OPD register (if updated with laboratory results) or the laboratory register (or both) at the health facility.

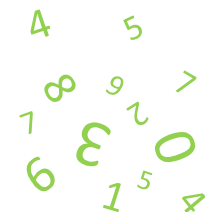**SESSION 8**

Recounting Confirmed
Malaria Cases

Questions

- What is the source document for the indicator Confirmed Malaria Cases?

- What constitutes "confirmation" of a malaria case?

- When counting positive malaria tests from the laboratory register or monthly report, should you count positives for microscopy, rapid diagnostic tests (RDT), or both?

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Recounting Confirmed
Malaria Cases

Practice

Practice with example Laboratory Register

- Work in small groups to conduct the recount (2-4 participants, depending on the number of available registers).

- The facilitator will provide example source documents for you to work with.

- Your instructor will give you the reporting period (quarter) to be verified. With this you can begin counting the number of Confirmed Malaria Cases.

- You have 60 mins.