

Procedures Manual

For

District Health Information System

(DHIS)



National Health Information Resource Center (NHIRC)
Ministry of Health, Pakistan



DHIS 
DISTRICT HEALTH
INFORMATION SYSTEM

District Health Information System (DHIS) Cell:
Department of Health:
Government of Khyber Pakhtunkhwa Pakistan

**ENSURING DATA QUALITY
USING LOT QUALITY ASSURANCE SAMPLING (LQAS) TECHNIQUE
JOB AID Self-assessment for Checking and Monitoring Data Accuracy at Facility level**

1. Checking Data Accuracy of Monthly Report, Using LQAS Table

1. Selection of data elements is random, which means select data elements without any preference. A broad representation of the data elements from different sections of the monthly report form is required to assure all data elements are given equal opportunity for selection. A sample of 12 data elements is required based on LQAS table.
2. Select randomly one data element from each section of the previous monthly report. Write the selected data element in the first column of the data accuracy check sheet given below. Repeat the procedure till all data elements from different sections are entered in first column.
3. Copy the figures of the selected data elements as reported on the monthly report form in second column of data quality check sheet, under the heading of "figures from monthly report form".
4. Pick the register which has the selected data element. Count the actual entries in the register related to a specific selected data element. Put the figure you counted in third column of check sheet, under the heading "figure from register". Repeat this procedure for all data elements.
5. If the figures in column 2 and 3 are same, put a cross under YES in column four. If they are not the same (does not match), put a cross under NO in column four. Repeat this procedure for all data elements.
6. Count total crosses under "YES" and write in row of total of "YES". Repeat the procedure for "NO" column. Both YES and NO total should be equal to sample size 12.

Data Accuracy Check Sheet checked		Write down month for which data accuracy is		
Randomly Selected Data Elements from the monthly reporting form	Figures from the Monthly report form	Figures counted from registers	Do figures from column 2 & 3 match?	
1	2	3	YES	NO
1. OPD monthly report section				
2. OPD monthly report section				
3. EPI monthly report section				
4. Family planning monthly report section				
5. Mother health monthly report section				
6. LHW monthly report section				
7. Community meeting monthly report section				
8. Stock monthly report section				
9.				
10.				
11.				
12.				
Total				

7. Total in "Yes" column corresponds to the percentage of level of data accuracy in the following LQAS table. For example, if total "yes" number is 2, the accuracy level is between 30-35%; if total "yes" number is 7, the accuracy level is between 65-70%.
8. Circle the data accuracy percentage and write it in Section II of the Monthly Report and submit to the district office.

LQAS Table: Decisions Rules for Sample Sizes of 12 and Coverage Targets/Average of 20-95%																	
Sample Size	Average Coverage (Baselines)/ Annual Coverage Targets (Monitoring and Evaluation)																
	Less than 20%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%
12	N/A	1	1	2	2	3	4	5	5	6	7	7	8	8	9	10	11

2. Monitoring the Data Accuracy Using LQAS Table

- You could set a target for achievement in a specified period and use it for monitoring progress. The target can be broken down on monthly basis. For example, if data accuracy is improving by 5% on monthly basis, the correct match number should increase accordingly as shown in the LQAS table. As the correct match number increases compared to previous months, it reflects improvement in level of data accuracy.
- Achievement of data accuracy level at 95% means high level of accuracy and needs to be maintained at that level.

Note: Please note that with sample size of 12 data elements, the data accuracy ranges $\pm 15\%$. That means that if the data accuracy is 30%, the range is between 15% and 45%.

3. Frequency of Data Accuracy Monitoring

District supervisors will conduct the assessment quarterly. Facility in-charge will conduct similar exercise every month and include the results in Section II of the monthly report.