Every Newborn-Measurement Improvement for Newborn & Stillbirth Indicators EN-MINI-PRISM Tools for Routine Health Information Systems

Tanzania Pilot Study Report



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Abbreviations

D4I	Data for Impact
DHIS 2	District Health Information Software version 2
ENAP	Every Newborn Action Plan
EN-BIRTH	Every Newborn Birth Indicator Research Tracking in Hospitals study
EN-BIRTH-2	Every Newborn Birth Indicator Research Tracking in Hospitals Every Newborn 2 study
EN-MINI Tools	Every Newborn-Measurement Improvement for Newborn and Stillbirth Indicators Tools
EN-MINI-PRISM Tools	Every Newborn-Measurement Improvement for Newborn and Stillbirth Indicators—Performance of Routine Information System Management Tools
eRHIS	Electronic Routine Health Information Systems
HMIS	Health Management Information Systems
IHI	Ifakara Health Institute
КМС	Kangaroo mother care
LSHTM	London School of Hygiene & Tropical Medicine
MAT	Management Assessment Tool (abbreviation for "Management Assessment EN-MINI-PRISM Tool 4")
МОН	Ministry of Health
OBAT	Organizational and Behavioral Assessment Tool (abbreviation for "Organizational and Behavioral Assessment EN- MINI-PRISM Tool 6")
PRISM	Performance of Routine Information System Management
RHIS	routine health information systems
USAID	United States Agency for International Development
WHO	World Health Organization

Executive Summary

EN-MINI-PRISM Tools at a Glance

- Designed to close the data gap for high-priority core newborn and stillbirth indicators for every newborn to survive and thrive.
- User-friendly practical tools to MAP, IMPROVE, and USE Newborn and stillbirth data for coverage and quality of care.
- Full and free access to digital data collection forms and automated analysis for reporting and synthesis provided on the <u>EN-MINI Tools website</u>.
- Includes adaptations of Performance Routine Information System Management (PRISM) tools already used in more than 40 countries.
- Facilitates implementation of existing routine health information systems (RHIS) guidance.
- Enables users to comprehensively assess RHIS for newborn and stillbirth data generating the detailed information needed to prioritize action to improve data quality and use.
- Flexibility for country contextualization with national priority indicators.
- Emphasizes subnational data and health facility routine source data documents.

Figure 1. Every Newborn-Measurement Improvement for Newborn & Stillbirth Indicators (EN-MINI) Tools infographic - for animated version of see EN-MINI Tools website

Every Newborn-Measurement Improvement for Newborn & Stillbirth Indicators

EN-MINI Tools for Routine Health Information Systems

EN-MINI 8



Overview of Actionable Findings

Newborn and stillbirth core indicator routine data assessment from the pilot EN-MINI-PRISM Tools assessment in the Tanga Region of the United Republic of Tanzania identified:

STRONG performance to recognize:

- Data use for decision making
 - Analysis and visualizations of newborn/stillbirth data at district level
 - Use of information for key performance targets at district level
- Improve data quality
 - RHIS Organizational factors at district office
 - o Good completeness of summary reports for newborn indicator denominators
 - Accurate data entry in electronic RHIS (District Health Information Software version 2 [DHIS 2]) from summary reports

GAPS for focused action:

- Data use for decision making
 - o Improve the "data/information culture" in health facilities
 - Strengthen newborn data analysis, reports, and visualizations at health facility level
 - Enable data use for newborn service coverage and quality improvement
 - Start using sex-disaggregated data at district office and health facility level
- Improve data quality
 - Express appreciation to frontline health facility professionals collecting RHIS data to overcome the very low motivation for RHIS tasks
 - o Train health facility staff to improve RHIS competencies for newborn data
 - Ensure feedback on newborn data reports from district level reaches health facilities
 - Improve actionable discussions at facility RHIS supervisory visits
 - Streamline RHIS processes to reduce data duplication burden on frontline health professionals
 - o Regularly verify completeness of routine register primary source newborn data
 - Supervise summary reports for completeness especially for indicator numerators
 - Enable timely monthly reporting
 - o Increase data quality assurance at both health facilities and district level

Introduction

Closing the Routine Data Gap for Newborns and Stillbirths

Every newborn has the right to survive and thrive, yet an estimated 4.2 million die globally each year as newborns and stillbirths.¹⁻³ Timely and accurate data on coverage, equity, and quality of care are essential to track progress towards ending preventable stillbirths, newborn deaths, and disabilities.⁴ However, the settings with the highest burden of deaths have the least data on coverage and quality of care—the "inverse data law."⁵

What are the EN-MINI Tools?

The purpose of the Every Newborn-Measurement Improvement for Newborn and Stillbirth Indicators (EN-MINI) tools for Routine Health Information Systems (RHIS) is to enable countries to have the right data at the right time and at the right level of the healthcare system (Figure 1).^{3,4} The EN-MINI Tools are free and have ready-to-use digital data collection platforms and generate automated reports. Improving newborn data is a priority of the Every Newborn Action Plan (ENAP) to accelerate progress and ensure every newborn survives and thrives.⁴

The tools are organized in three categories: (1) MAP newborn data availability, (2) assess USE of newborn data for decisions, and (3) identify how to IMPROVE newborn data quality (Figure 2). The USE and IMPROVE tools are adapted from the Performance of Routine Information System Management (PRISM) series.^{6,7}



Figure 2. Every Newborn-Measurement Improvement for Newborn & Stillbirth Indicators (EN-MINI) Tools categories

Why Focus on Core Indicator Data?

Core indicator data are vital to guide action and track progress for health workers, managers, and policy makers at all levels in the data pyramid, as illustrated by the central gold data point circles in Figure 2. EN-MINI Tools capture the data enabling environment for frontline health workers

documenting data elements, data transmission processes up the data pyramid, and use of data at all levels. The tools reinforce the dual focus needed to simultaneously strengthen USE of data, even though it is not perfect, with ongoing efforts to IMPROVE data quality (Figure 2).

The EN-MINI Tools are intended to identify gaps in newborn and stillbirth RHIS data availability, quality, and use. This report summarizes findings for the 2021 pilot of EN-MINI-PRISM Tools 1–6 in the Tanga Region of the United Republic of Tanzania in 2021. An accompanying Map Newborn Data EN-MINI Tool o report details data elements for newborn and stillbirth indicators.

How Were the EN-MINI Tools Developed?

Previous research, such as the EN-BIRTH study (2016–2020), assessed measurement coverage and quality of newborn and maternal care in Bangladesh, Nepal, and the United Republic of Tanzania.⁸⁻¹⁰ This EN-BIRTH study highlighted the potential for routine register newborn data but found newborn data quality in routine registers varied.

The novel EN-MINI Tools were designed and made available through collaborative implementation research, the EN-BIRTH 2 study (2020–2022). Research partners were The London School of Hygiene & Tropical Medicine (LSHTM) UK, Ifakara Health Institute (IHI) Tanzania, icddr,b Bangladesh, Data 4 Impact (D4I), and funded by United States Agency for International Development (USAID). An expert advisory group of colleagues from WHO, UNICEF, the national governments of Bangladesh and the United Republic of Tanzania, and additional program newborn, measurement experts and academics provided important guidance.

EN-MINI Tools comprehensively measure RHIS performance for core newborn and stillbirth indicators collected at health facilities. The seven tools are organized in the three categories: MAP newborn data availability, assess USE of newborn data for decisions and identify how to IMPROVE newborn data quality (Figure 3).

The novel MAPPING tool (EN-MINI Tool o) generates an automated report showing newborn data elements as they move up the data pyramid. The USE and IMPROVE Tools (EN-MINI-PRISM Tools 1–6) are adaptations of the Performance of Routine Information System Management (PRISM) tools designed by MEASURE Evaluation.^{6,7} More details of the EN-MINI-PRISM Tools are shown in Appendix 2 and on the <u>EN-MINI Tools website</u>.

Figure 3. Every Newborn-Measurement Improvement for Newborn & Stillbirth Indicators (EN-MINI) Tools



How Do the EN-MINI-PRISM Tools Link to the PRISM Series?

The EN-MINI-PRISM tools adaptation extends the reach of the <u>PRISM series</u> for newborn and stillbirth data.⁶ The PRISM Framework conceptualizes the broad context affecting RHIS performance designed to identify gaps for sustainable improvement (Figure 4). Three categories of determinants that affect RHIS performance:

- **Behavioral determinants**: The knowledge, skills, attitudes, values, and motivation of the people who collect, analyze, and use health data.
- **Technical determinants**: The RHIS design, data collection forms, processes, systems, and methods.
- **Organizational determinants**: Information culture, structure, resources, roles, and responsibilities of key contributors at each level of the health system

Figure 4. Performance of Routine Information Systems Management (PRISM) framework



EN-MINI-PRISM Tools Pilot Study in Tanzania

Methods

Location, Sampling, and Respondents

The EN-MINI-PRISM Tools pilot study was conducted at all levels of health facilities providing inpatient newborn health services to maximize learning for possible future scale-up nationally and beyond. Two districts in Tanga Region, Pangani District Council and Tanga City Councils, were selected. The sample frame listed all public government health facilities: hospitals, health centers, and dispensaries. Purposive sampling identified 51 health facilities providing delivery services for more than 20 births per year. Both hospitals (n=2) and a simple random sample of lower-level facilities from Tanga City council (n=8) and Pangani District Council (n=8) were selected. The respondents were all cadres involved in data recording/reporting/analysis and data use.

Training

EN-BIRTH 2 researchers trained data collectors over five days in September 2021 using the EN-MINI-PRISM Training materials available on the <u>EN-MINI Tools website</u>.

Data Collection and Management

A team of 6 data collectors conducted the EN-MINI-PRISM Tools assessment in 2 district offices and 16 health facilities during one week of September 2021. Version 1 of the EN-MINI Tools were used. Data quality was assessed using source and summary report data for April, May, and June 2021. All data were collected digitally using offline password protected tablets and uploaded to the General Data Protection Regulation (GDPR) compliant, secure Open Data Kit (ODK) server (SurveyCTO), using the customized EN-MINI-PRISM Tool forms available on the <u>EN-MINI</u> <u>Tools website</u>.

Analysis

The EN-MINI-PRISM Analysis Tool available on the <u>EN-MINI Tools website</u> was used for analysis following standard PRISM methodology.

RESULTS: USE Newborn Data for Decision Making



Evidence for Existing Data Use

The purpose of routine data is to be used for action for newborns, stillbirths, and their families. Data requires processing and interpretation to be meaningful as does information used for decision making. This pilot EN-MINI-PRISM Tools assessment found evidence of newborn and stillbirth core indicator use at both facility level and the two district level offices assessed (Figure 5). Examples included discussion on key performance targets, 100 percent district, 75 percent facility level. Evidence for data use was higher at district than facility level: analytical data reports (50 percent district, 19 percent facility) and data visualization (100 percent district, 25 percent facility). Use of data for quality improvement was reported only at district level. The full EN-MINI-PRISM Tools assessment findings are shown in the results tables (Appendix 1).

Figure 5. Evidence of existing data use from Tanzania EN-MINI-PRISM tools pilot (n=16 facilities, 2 facility offices)

	_	District	Facility
Organizational factors	Evidence data analysis taking place	38%	21%
-			
	Data Visualization	100%	25%
Khis processes	Use of data to produce narrative analytical reports	50%	19%
Use Newborn data for	Use information for discussion on key performance targets	100%	75%
decisions	Use information for coverage of services	0%	13%
	Use sex-disaggregated data	0%	0%
	Use information for human resources decisions	100%	25%
	Use information for quality improvement	100%	0%

Opportunities to Enable an Organizational Information Culture

A culture of information is defined as the capacity and control to promote values and beliefs among members of an organization for the collection, analysis, and use of information to achieve an organization's mission and goals. This EN-MINI-PRISM pilot assessment assessed information culture components from 47 respondents working in the 16 health facilities. Perceived information culture components promotion ranged from 44 percent to 77 percent (Figure 6).

Figure 6. Promotion of information culture, Tanzania EN-MINI-PRISM tools pilot (n=47 respondents, 16 facilities)



Opportunities to Develop RHIS Skills, Confidence, and Competence

The EN-MINI-PRISM Tools pilot captured 47 individual respondents' perceived confidence and measured competence on RHIS tasks through assessment with examples using newborn and stillbirth data (Figure 7). Confidence and competence matched for the task plotting chart/chart trend (65 percent to 66 percent). There was a confidence-competence gap for other RHIS skills. Respondents were over-confident in calculating indicators (47 percent gap), interpreting data (44 percent gap) and problem-solving (25 percent gap). Competence was 15 percent higher than confidence with use of information for decisions.

Figure 7. RHIS task self-reported confidence and skill-assessed competence, Tanzania EN-MINI-PRISM Tools pilot (n=47 respondents, 16 facilities)



RESULTS: IMPROVE Newborn Data Quality



Evidence for Existing Data Quality

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Accurate newborn/stillbirth indicator measurement requires both numerator and denominator data elements to be accurately captured. This EN-MINI-PRISM pilot assessed seven priority SDG and ENAP core indicators and one maternal indicator as the tracer for maternal measurement from the EN-BIRTH validation study.

Figure 8 illustrates the EN-MINI-PRISM Tools pilot assessment in 16 facilities of data quality at each level of the data pyramid for both denominators needed—total births and livebirths. The primary source data from the routine facility register at the base of the data pyramid was on average only 88 percent complete. Moving up the data pyramid, the assessment of three months of reports found: available 96 percent, complete 94 percent to 96 percent, and accurately matching the register 98 percent. At subnational district level among reports reviewed from fifty facilities: 100 percent expected were available, 89 percent to 91 percent were complete, and cross-check database entry matching summary report was 100 percent. Subnational, regional and national-central levels were not assessed during this pilot study.

Figure 8. Data quality domains for newborn and stillbirth denominators, Tanzania EN-MINI-PRISM Tools pilot (n=47 respondents, 16 facilities)

	Global						
2	CORE				Denomi	inators	Newborn Data Quality Criteria
S.			-		Total Birth	Live birth	
ALC: NO	National	National - Central	digital	eRHIS	not ass	essed	Accuracy - database entry exact match regional summary reports
44	CORE	Subnational - Regional	digital	eRHIS	not ass	essed	Accuracy - database entry exact match facility summary reports
o ^o	Subnationa	Subnational - District	digital	eRHIS	100%	100%	Accuracy - database entry exact match facility reports
					91%	89%	Completeness of facility monthly reports
	CORE		paper	Summary Form report	100%	100%	Availability of facility monthly reports
	Facility	Facility	paper	Summary Form report	98%	98%	Accuracy of monthly report exactly matches register data
	CORE				94%	96%	Completeness of monthly report submitted
1 1 1	dividual Le				96%	96%	Availability of monthly report
	COPE		paper	Register	88%	88%	Completeness of register primary source data
	COME						

Figure 9 shows the numerators and denominators for all eight core indicators for this EN-MINI-PRISM Tools pilot. At the facility, overall, the numerator and denominator quality were similar except register completeness for early initiation of breast feeding was only 81 percent, and report accuracy from register for low birth weight only 86 percent.

The district office assessment found reports were 100 percent available aside from Kangaroo mother care (KMC) which had a 64 percent availability rate. Report completeness across all numerators was very low at <30 percent except for early initiation of breast feeding 81 percent and uterotonics 88 percent.

Figure 9. District and facility level data quality domains for numerators and denominators for newborn/stillbirth/maternal indicator measurement, Tanzania EN-MINI-PRISM Tools pilot (n=16 facilities, 2 facility offices)

			Dist	rict review, n=2	offices	Facility review, n=16 visits			
				Monthly report n=50 facilities	s,	Monthly reports, n=3 months			Registers, n=3 months
			Availability	Completeness	Accuracy	Availability	Completeness	Accuracy	Completeness
			of facility monthly reports	of facility monthly reports	of database entry exactly matches facility reports	of monthly report	of monthly report	of monthly report from register	of register primary source data
Indicator domain	Select Core Indicator data	element							
IMPACT	Stillbirth Institutional neonatal deaths Low birth weight	Numerator Numerator Numerator	100% 100% 100%	10% 6% 20%	100% 100% 73%	96% 100% 96%	96% 100% 96%	97% 100% 86%	98% 100% 94%
COVERAGE: Every Newborn	Early initiation Breastfeeding	Numerator	100%	81%	100%	96%	94%	94%	81%
COVERAGE: Small or sick newborns	Bag-mask-ventilation N KMC Neonatal sepsis	Numerator Numerator Numerator	100% 64% 100%	13% 9% 23%	100% 100% 100%	96% 100% 100%	90% 100% 100%	93% 100% 100%	94% 100% 100%
Maternal Tracer	Uterotonics prevent PPH	Numerator	100%	88%	100%	96%	96%	97%	90%
Indicator denominators	Total Births I Live births I	Denominator Denominator	100% 100%	91% 89%	100% 100%	96% 96%	94% 96%	98% 98%	88% 88%

Opportunities to Improve Data Quality

This EN-MINI-PRISM Tools pilot assessment showed RHIS quality improvement activities were occurring in both district offices (100 percent) but only in 25 percent of the health facilities assessed. Overall, the quality assurance score was 83 percent at district level and only 41 percent at facility level. An overview of factors contributing to improving data quality is shown in Figure 10. At district level, "good governance structures" criteria measured 58 percent and planning 25 percent. At facility level, motivation for RHIS tasks was very low at 6 percent and knowledge regarding RHIS only 48 percent to 63 percent. Opportunities to improve the information culture are shown above in Figure 6.

		District	Facility
Organizational factors	Good governance structures	58%	
	Planning for RHIS	25%	
	Use of quality improvement standards	100%	
	Supervision quality	100%	83%
	Financial resources allocated	100%	
	Training plan costed	100%	
	Data quality assurance score	81%	41%
	Designated staff check report data quality	100%	88%
Behavioral Factors	Knowledge HIS	*	63%
	Knowledge data quality checking methods	*	48%
	Motivation among staff		6%
Improve Newborn Data	Use of routine data for RHIS quality improvement	100%	25%
Quality			

Figure 10. Factors to improve routine data quality from Tanzania EN-MINI-PRISM tools pilot (n=16 facilities, 2 facility offices)

* not assessed during this EN-MINI tools pilot study

Training

Despite district costing plans, large gaps in training for health professionals involved in collecting and reporting newborn routine data were identified, as shown in Figure 11.





Supervision

This EN-MINI-PRISM Tools pilot showed RHIS supervisory processes were established and among the 88 percent of facilities with a supervisory visit in the 3 months prior to the assessment and 93 precent of visits used a data quality checklist (Figure 12). Eighty-six percent of supervisory visits included a discussion regarding action points and 50% of facilities had received a report.





Feedback Loops

Despite 77 percent of facility respondents reporting that bidirectional feedback is promoted, only 25 percent of facilities had received a feedback report from district in the preceding 3 months and only 6 percent of facilities maintain feedback records to staff on data quality (Figure 13).

Figure 13. Feedback loops between levels, Tanzania EN-MINI-PRISM pilot (n=16 facilities, 2 facility offices)



Overview of EN-MINI-PRISM Findings of Pilot study in Tanga Region, Tanzania

Figure 14. EN-MINI-PRISM overview using PRISM conceptual framework, Tanzania pilot (n=16 facilities, 2 facility offices)



* not assessed during this EN-MINI tools pilot study

Conclusion

The EN-MINI-PRISM Tools pilot assessment in the Tanga Region of the United Republic of Tanzania identified strengths and weaknesses in RHIS performance for newborn and stillbirth core indicator data at both district office and health facility levels.

Routine data from health facilities are not reaching their full potential for action to enable newborns to survive and thrive. Improving data quality requires attention at every step as data passes up the data pyramid. This EN-MINI-PRISM Tools assessment highlights the urgent need to focus on the source data collected at health facility level. Investing in RHIS systems at higher levels in the data pyramid will not generate accurate data for use if the source data at the pyramid base remains poor quality.

Strengthening an information culture and data enabling environment in the health facility is vital for frontline health workers to feel motivated to capture high-quality data and use this data themselves. Duplicative reporting through parallel systems continues to overburden, compromise data quality, and reduce staff commitment. Streamlining reporting is urgently needed so health workers can focus on improving quality of patient care.

Core indicator data are important for subnational, national, and global use, but this EN-MINI-PRISM assessment showed a large gap in data use at the health facility level. RHIS knowledge and skills training are urgently needed for health facility staff collecting newborn and stillbirth data. This includes increasing capacity for health facility staff to generate reports from electronic RHIS in addition to district office use. As RHIS competencies rise, confidence in data use for evidence-based decisions will grow, and enabled by feedback and supervision, data quality will further increase.

Strengthening use of high-quality data for action at all levels—in health facilities, subnationally and nationally—can make a major contribution to ensuring every Tanzanian newborn survives and thrives.

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Appendix 1: Full EN-MINI-PRISM Results Tables

The full cross-cutting EN-MINI-PRISM Tanzania pilot assessment results are presented in the following tables arranged by themes:

- 1. Data quality indicators
- 2. Use of information indicators
- 3. Data management indicators
- 4. Technical factors
- 5. Organization factors
- 6. Gender indicators

For this pilot study, data were collected only at district and facility levels. Dummy tables for central and regional levels are shown for completeness to illustrate the potential for the EN-MINI-PRISM Tool assessment.

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1. RHIS performance: Data Quality Indicators

1A. Data Quality Indicators—Central Level

Section 1A Tables: Data Quality Indicators—Central Level

A. RHIS Performance: Data Quality Indicators- Central Level

Table 1A.1 Completeness of reported data—Central Level

Completeness of reported data

Indicator: % of expected monthly facility reports received at the central level (target=95%)

Total # of facility reports received at the central level X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Central Level)					
Health facilities (all types)	Numerator	Denominator	%	Target	
mm/yyyy	*	*	*	*	
mm/yyyy	*	*	*	*	
mm/yyyy	*	*	*	*	
All months	*	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 1A.2 Completeness of reported data—Central Level

Reasons for default of report completeness						
Data Source—Module II: RHIS Performance Diagnostic Tool						
Variables	#	%				
Storage or archiving problems	*	*				
Staffing issues	*	*				
Absence of reporting forms	*	*				
Transportation issues	*	*				
Internet connectivity issues	*	*				
Presence of other vertical reporting	*	*				
requirements						
Other (specify)	*	*				

* not collected during this EN-MINI-PRISM Tools pilot assessment
Table 1A.3 Timeliness of facility reporting—Central Level

Timeliness of facility reporting

Indicator: % of facilities submitting monthly reports on time to the aggregation site (target=100%)

Total # of facilities that submitted reports on time to the aggregation site

Total # of expected facility reports at the aggregation site

Data Source—Module IIa: RHIS Performance Diagnostic Tool							
Period for health facilities (all types) Numerator Denominator Value							
mm/yyyy	*	*	*				
mm/yyyy	*	*	*				
mm/yyyy * * *							
All months	*	*	*				

X 100

Table 1A.4 Accuracy of entered data—Central Level

Accuracy of entered data (only for manual compilation)

Indicator: % of accuracy between regional compiled data and the national data reported in the national database for selected indicators (target=100%)

— X 100

Sum of all region verification factor (VF) deviations

Total # of assessed site regions per selected indicator

The central global accuracy (CGA) = 100—Average central VF deviation

Data Source—Module IIa: RHIS Performance Diagnostic Tool						
Indicator	Period	Numerator	Denominator	Value	CGA	
Total births	mm/yyyy	*	*	*	*	
	mm/yyyy	*	*	*	*	
	mm/yyyy	*	*	*	*	
	All months	*	*	*	*	
Live births	mm/yyyy	*	*	*	*	
	mm/yyyy	*	*	*	*	
	mm/yyyy	*	*	*	*	
	All months	*	*	*	*	
Stillbirths	mm/yyyy	*	*	*	*	
	mm/yyyy	*	*	*	*	
	mm/yyyy	*	*	*	*	
	All months	*	*	*	*	
Low birthweight	mm/yyyy	*	*	*	*	
	mm/yyyy	*	*	*	*	
	mm/yyyy	*	*	*	*	
	All months	*	*	*	*	
Early initiation of	mm/yyyy	*	*	*	*	
breastfeeding	mm/yyyy	*	*	*	*	
	mm/yyyy	*	*	*	*	
	All months	*	*	*	*	
Bag-mask	mm/yyyy	*	*	*	*	
ventilation	mm/yyyy	*	*	*	*	
	mm/yyyy	*	*	*	*	
	All months	*	*	*	*	
Uterotonics for	mm/yyyy	*	*	*	*	
postpartum	mm/yyyy	*	*	*	*	
hemorrhage	mm/yyyy	*	*	*	*	
	All months	*	*	*	*	
KMC	mm/yyyy	*	*	*	*	
	mm/yyyy	*	*	*	*	
	mm/yyyy	*	*	*	*	
	All months	*	*	*	*	
Institutional	mm/yyyy	*	*	*	*	
neonatal deaths	mm/yyyy	*	*	*	*	
	mm/yyyy	*	*	*	*	
	All months	*	*	*	*	
Neonatal sepsis	mm/yyyy	*	*	*	*	
	mm/yyyy	*	*	*	*	
	mm/yyyy	*	*	*	*	
	All months	*	*	*	*	

set criteria for data accuracy													
					Α						В		
		، <9	% 0%	% 90%<=%<110% %		%>=	110%	% <80%		80%<=%<120%		%>=120%	
Indicator	Period	#	%	#	%	#	%	#	%	#	%	#	%
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Total birtha	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Total births	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Live birthe	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Live births	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Ctillbirtho	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Sumpirtus	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Low birthweight	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
Early initiation of	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
breastfeeding	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Bag-mask	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
ventilation	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Uterotonics for	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
postpartum	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
nemorriage	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
KNO	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
KMC	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Institutional	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
neonatal deaths	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Negenetal	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Neonatal sepsis	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*

Extent to which regional reported data and data recorded for selected indicators in the database are meeting the

Table 1A.5 Reasons for observed discrepancies—Central Level

Reasons for observed discrepancies

Indicator: Top three reasons that were given as possible reasons for observed discrepancy during the assessment

In this table, DQ026 corresponds to the first month, DQ027 to the second month, and DQ028 to the third month

Data Source—Module IIa: RHIS Performance Diagnostic Tool						
Indicator	Data entry errors	Arithmetic errors	Information from submitted reports incorrectly compiled	Monthly reports unavailable	Other reason(s)	
Total births	*	*	*	*	*	
Live births	*	*	*	*	*	
Stillbirths	*	*	*	*	*	
Low birthweight	*	*	*	*	*	
Early initiation of breastfeeding	*	*	*	*	*	
Bag-mask ventilation	*	*	*	*	*	
Uterotonics for postpartum hemorrhage	*	*	*	*	*	
KMC	*	*	*	*	*	
Institutional neonatal deaths	*	*	*	*	*	
Neonatal sepsis	*	*	*	*	*	

1B. Data Quality Indicators—Regional level

Section 1B Tables: Data Quality Indicators—Regional Level

Table 1B.1 Completeness of reported data—Regional Level

Completeness of facility reporting

Indicator: % of expected monthly reports received at the region level (target=95%)

 Total # of facility reports received at the region level
 X100

 Total # of expected facility reports at the region level
 X100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Region Level)							
Health facilities (all types)	Numerator	Denominator	%	Target			
4/2021	*	*	*	*			
5/2021	*	*	*	*			
6/2021	*	*	*	*			
All months	*	*	*	*			

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 1B.2 Completeness of reported data—Regional Level

Reasons for default of report completeness

Data Source—Module II: RHIS Performance Diagnostic Tool (Region Level)							
Variables	#	%					
Storage or archiving problems	*	*					
Staffing issues	*	*					
Absence of reporting forms	*	*					
Transportation issues	*	*					
Internet connectivity issues	*	*					
Presence of other vertical reporting requirements	*	*					
Other (specify)	*	*					

Table 1B.3 Timeliness of facility reporting—Regional Level

Timeliness of facility reporting

Indicator: % of facilities submitting monthly reports on time to the aggregation site (target=100%)

Total # of facilities that submitted reports on time to the aggregation site

Total # of expected facility reports at the aggregation site

X100

Data Source—Module lia: RHIS Performance Diagnostic Tool (Region Level)							
Period for health facilities (all types) Numerator Denominator Value							
mm/yyyy	*	*	*				
mm/yyyy	*	*	*				
mm/yyyy	*	*	*				
All months	*	*	*				

Table 1B.4 Accuracy of entered data—Regional Level

Accuracy of entered data (only for manual compilation)

Indicator: % of accuracy between data entered in the region (or national) database and the facility monthly report for selected indicators (target=100%)

Sum of all region verification factor (VF) deviations Total # of assessed site regions per selected indicator

____ X 100

Data Source-	Data Source—Module iia: RHIS Performance Diagnostic Tool (Region Level)								
Indicator	Period	Numerator	Denominator	Value	CGA				
Total births	Mm/yyyy	*	*	*	*				
	Mm/yyyy	*	*	*	*				
	Mm/yyyy	*	*	*	*				
	All months	*	*	*	*				
Live births	Mm/yyyy	*	*	*	*				
	Mm/yyyy	*	*	*	*				
	Mm/yyyy	*	*	*	*				
	All months	*	*	*	*				
Stillbirths	Mm/yyyy	*	*	*	*				
	Mm/yyyy	*	*	*	*				
	Mm/yyyy	*	*	*	*				
	All months	*	*	*	*				
Low birthweight	Mm/yyyy	*	*	*	*				
	Mm/yyyy	*	*	*	*				
	Mm/yyyy	*	*	*	*				
	All months	*	*	*	*				
Early initiation of	Mm/yyyy	*	*	*	*				
breastfeeding	Mm/yyyy	*	*	*	*				
	Mm/yyyy	*	*	*	*				
	All months	*	*	*	*				
Bag-mask	Mm/yyyy	*	*	*	*				
ventilation	Mm/yyyy	*	*	*	*				
	Mm/yyyy	*	*	*	*				
	All months	*	*	*	*				
Uterotonics for	Mm/yyyy	*	*	*	*				
postpartum	Mm/yyyy	*	*	*	*				
hemorrhage	Mm/yyyy	*	*	*	*				
	All months	*	*	*	*				
KMC	Mm/yyyy	*	*	*	*				
	Mm/yyyy	*	*	*	*				
	Mm/yyyy	*	*	*	*				
	All months	*	*	*	*				
Institutional	Mm/yyyy	*	*	*	*				
neonatal deaths	Mm/yyyy	*	*	*	*				
	Mm/yyyy	*	*	*	*				
	All months	*	*	*	*				
Neonatal sepsis	Mm/yyyy	*	*	*	*				
-	Mm/yyyy	*	*	*	*				
	Mm/yyyy	*	*	*	*				
	All months	*	*	*	*				

* not collected during this EN-MINI-PRISM Tools pilot assessment

(Table continues on next page)

1	ndicators in the	A				B							
		% <90% 90%<=%<110% %>=110%			، 8>	% 0%	80%<=	%<120%	%>=	120%			
Indicator	Period	#	%	#	%	#	%	#	%	#	%	#	%
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
I otal births	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Live births	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
O (100) in the	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Stillbirths	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
Low birthweight	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Early initiation of	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
breastfeeding	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Bag-mask	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
ventilation	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Uterotonics for	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
hemorrhage	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
lienneige	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
KMC	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
NWC	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Institutional	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
neonatal deaths	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*
	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Noonatal consis	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
Neonalal sepsis	mm/yyyy	*	*	*	*	*	*	*	*	*	*	*	*
	All months		*		*		*		*		*		*

Indicator: % of regions where districts data reported in monthly reports and the data recorded for selected indicators in the database are meeting the set criteria for data accuracy

Table 1B.5 Reasons for observed discrepancies—Regional Level

Reasons for observed discrepancies

Indicator: Top three reasons that were given as possible reasons for observed discrepancy during the assessment

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Region Level)						
Indicator	Data entry errors	Arithmetic errors	Information from submitted reports incorrectly compiled	Monthly reports unavailable	Other reason(s)	
Total births	*	*	*	*	*	
Live births	*	*	*	*	*	
Stillbirths	*	*	*	*	*	
Low birthweight	*	*	*	*	*	
Early initiation of breastfeeding	*	*	*	*	*	
Bag-mask ventilation	*	*	*	*	*	
Uterotonics for postpartum hemorrhage	*	*	*	*	*	
KMC	*	*	*	*	*	
Institutional neonatal deaths	*	*	*	*	*	
Neonatal sepsis	*	*	*	*	*	

C. RHIS Performance: Data Quality Indicators- District Level

Section 1C Tables: Data Quality Indicators—District Level

Table 1C.1 Completeness of reported data—District Level

I. RHIS Performance: Data Quality Indicators

Completeness of reported data

Indicator: % of monthly reports completely filled with data for selected indicators (i.e., reports contain the data relevant to the selected indicators) (target=100%) X100

Total # of facilities that submitted a complete report on the selected indicators

Total # of facilities expected to report on the selected indicators

At this level, the denominator is all those facilities expected to report on the selected data

Scenario 1

This scenario is valid when facilities are randomly sampled in a sampled district.

Data Source—Module iia: RHIS Performance Diagnostic Tool (District Level)

Indicator	Period	Numerator	Denominator	Value
Total births	4/2021	45	50	90%
	5/2021	46	50	92%
	6/2021	46	50	92%
	All months	137	150	91%
Live births	4/2021	41	50	82%
	5/2021	45	50	90%
	6/2021	47	50	94%
	All months	133	150	89%
Stillbirths	4/2021	4	50	8%
	5/2021	7	50	14%
	6/2021	4	50	8%
	All months	15	150	10%
Low birthweight	4/2021	9	50	18%
	5/2021	11	50	22%
	6/2021	10	50	20%
	All months	30	150	20%
Early initiation of	4/2021	41	50	82%
breastfeeding	5/2021	41	50	82%
	6/2021	39	50	78%
	All months	121	150	81%
Bag-mask	4/2021	7	50	14%
ventilation	5/2021	8	50	16%
	6/2021	5	50	10%
	All months	20	150	13%

Uterotonics for	4/2021	39	50	78%
postpartum	5/2021	46	50	92%
hemorrhage	6/2021	47	50	94%
	All months	132	150	88%
KMC	4/2021	4	50	8%
	5/2021	6	50	12%
	6/2021	4	50	8%
	All months	14	150	9%
Institutional	4/2021	3	50	6%
neonatal deaths	5/2021	4	50	8%
	6/2021	2	50	4%
	All months	9	150	6%
Neonatal sepsis	4/2021	0	50	0%
	5/2021	17	50	34%
	6/2021	18	50	36%
	All months	35	150	23%

Table 1C.2 Reason for missing data—District Level

Reasons for missing data

Data Source—Module II: RHIS Performance Diagnostic Tool (District Level)							
Variables	#	%					
Staffing issue(s)	2	29%					
Not understanding the data element(s)	2	29%					
Presence of other vertical reporting requirements	2	29%					
Other	1	14%					

Table 1C.3 Completeness of facility reporting—District Level—reports received

Completeness of facility reporting

Indicator: % of expected monthly reports received at the district level (target=95%)

Total # of facility reports received at the district level

Total # of expected facility reports at the district level

Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)							
Health Facilities (all types)	Numerator	Denominator	%	Target			
4/2021	77	77	100%	95%			
5/2021	77	77	100%	95%			
6/2021	77	77	100%	95%			
All months	231	231	100%	95%			

X 100

Table 1C.4 Completeness of facility form reporting—District level—reasons for default

Completeness of facility form reporting Reasons for default of report completeness

Data Source—Module II: RHIS Performance Diagnostic Tool (District Level)						
Variables	#	%				
Storage or archiving problems	*	*				
Staffing issues	*	*				
Absence of reporting forms	*	*				
Transportation issues	*	*				
Internet connectivity issues	*	*				
Presence of other vertical reporting requirements	*	*				
Other (specify)	*	*				

Table 1C.5 Completeness of facility form reporting—District Level % of expected monthly reports available

Completeness of facility form reporting

Indicator: % of expected monthly reports of selected indicators that are available at the district level (target=95%)

Total # of facility reports on the selected indicators received at the district level

Total # of expected facility reports on the selected indicators at the district level

Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)							
Indicator	Period	Numerator	Denominator	Value			
Total births	4/2021	50	50	100%			
	5/2021	50	50	100%			
	6/2021	50	50	100%			
	All months	150	150	100%			
Live births	4/2021	50	50	100%			
	5/2021	50	50	100%			
Live births	6/2021	50	50	100%			
	All months	150	150	100%			
	4/2021	50	50	100%			
Ctillbirtha	5/2021	50	50	100%			
Stilbirths	6/2021	50	50	100%			
	All months	150	150	100%			
	4/2021	50	50	100%			
Low birthwoight	5/2021	50	50	100%			
Low birthweight	6/2021	50	50	100%			
	All months	150	150	100%			
	4/2021	50	50	100%			
Early initiation of	5/2021	50	50	100%			
breastfeeding	6/2021	50	50	100%			
breastreeding	All months	150	150	100%			
	4/2021	50	50	100%			
Pag mask ventilation	5/2021	50	50	100%			
Bag-mask ventilation	6/2021	50	50	100%			
	All months	150	150	100%			
literatorias for	4/2021	50	50	100%			
Dierotonics for	5/2021	50	50	100%			
bemorrhage	6/2021	50	50	100%			
nemorriage	All months	150	150	100%			
	4/2021	32	50	64%			
KMC	5/2021	32	50	64%			
RIVIC	6/2021	32	50	64%			
	All months	96	150	64%			
	4/2021	50	50	100%			
Institutional neonatal	5/2021	50	50	100%			
deaths	6/2021	50	50	100%			
	All months	150	150	100%			
	4/2021	50	50	100%			
Neonatal sensis	5/2021	50	50	100%			
neonalai sepsis	6/2021	50	50	100%			
	All months	150	150	100%			

X 100

Table 1C.6 Timeliness of facility reporting—District Level—% of facilities submitting reports on time

<i>Timeliness of facility reporting</i> Indicator: % of facilities submitting monthly reports on time to the aggregation site (target=100%)						
Total # of facilities that submit	ted reports on time to	o the aggregation site	X 100			
Total # of expected facility rep	orts at the aggregation	on site				
Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)						
Health facilities (all types)	Numerator	Denominator	Value			
4/2021	2	77	3%			
5/2021	9	77	12%			
6/2021	5	77	6%			

16

All months

231

7%

Table 1C.7 Accuracy of entered data—District Level

Indicator: % of accuracy between data entered in the district (or national) database and the facility monthly report for selected indicators (target=100%)

X 100

Sum of all district VF deviations

Total # of assessed site districts per selected indicator

The district global accuracy = 100—Average district VF

deviation

Not relevant for systems using DHIS2

Data Sour	rict Level)	District global accuracy			
Indicator	Period	Numerator	Denominator	Value	CGA
Total births	4/2021	0.00	2	0%	100%
	5/2021	0.00	2	0%	100%
	6/2021	0.00	2	0%	100%
	All months	0.00	6	0%	100%
Live births	4/2021	0.00	2	0%	100%
	5/2021	0.00	2	0%	100%
	6/2021	0.00	2	0%	100%
	All months	0.00	6	0%	100%
Stillbirths	4/2021	0.00	2	0%	100%
	5/2021	0.00	2	0%	100%
	6/2021	0.00	2	0%	100%
	All months	0.00	6	0%	100%
Low	4/2021	0.53	2	26%	74%
birthweight	5/2021	0.47	2	24%	76%
_	6/2021	0.60	2	30%	70%
	All months	1.61	6	27%	73%
Early initiation	4/2021	0.00	2	0%	100%
of	5/2021	0.00	2	0%	100%
breastfeeding	6/2021	0.00	2	0%	100%
	All months	0.00	6	0%	100%
Bag-mask	4/2021	0.00	2	0%	100%
ventilation	5/2021	0.00	2	0%	100%
	6/2021	0.00	2	0%	100%
	All months	0.00	6	0%	100%
Uterotonics for	4/2021	0.00	2	0%	100%
postpartum	5/2021	0.00	2	0%	100%
hemorrhage	6/2021	0.00	2	0%	100%
-	All months	0.00	6	0%	100%
KMC	4/2021	0.00	2	0%	100%
	5/2021	0.00	2	0%	100%
	6/2021	0.00	2	0%	100%
	All months	0.00	6	0%	100%
Institutional	4/2021	0.00	2	0%	100%
neonatal	5/2021	0.00	2	0%	100%
deaths	6/2021	0.00	2	0%	100%
	All months	0.00	6	0%	100%
Neonatal	4/2021	0.00	2	0%	100%
sepsis	5/2021	0.00	2	0%	100%
•	6/2021	0.00	2	0%	100%
	All months	0.00	6	0%	100%

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Indicator: % of districts where data reported in monthly reports and data recorded in monthly reports and the data recorded for selected indicators in the database are meeting the set criteria for accuracy

		А			В								
		%	<90%	90%<	<=%<110%	%	>=110%	%	<80%	80%<	<=%<120%	%>=	=120%
Indicator	Period	#	%	#	%	#	%	#	%	#	%	#	%
	4/2021	0	0%	1	50%	1	50%	0	0%	1	50%	1	50%
Total hirtha	5/2021	0	0%	1	50%	1	50%	0	0%	1	50%	12	50%
Total Dirths	6/2021	0	0%	1	50%	1	50%	0	0%	1	50%	1	50%
	All months		0%		50%		50%		0%		50%		50%
	4/2021	0	0%	1	50%	1	50%	0	0%	1	50%	1	50%
Live birthe	5/2021	0	0%	1	50%	1	50%	0	0%	1	50%	1	50%
Live birtins	6/2021	0	0%	1	50%	1	50%	0	0%	1	50%	1	50%
	All months		0%		50%		50%		0%		50%		50%
	4/2021	0	0%	1	50%	1	50%	0	0%	1	50%	1	50%
Stillbirtho	5/2021	0	0%	1	50%	1	50%	0	0%	1	50%	1	50%
Sumpruns	6/2021	0	0%	1	50%	1	50%	0	0%	1	50%	1	50%
	All months		0%		50%		50%		0%		50%		50%
	4/2021	0	0%	1	50%	1	50%	0	0%	0	0%	0	0%
Low birthwoight	5/2021	0	0%	1	50%	1	50%	0	0%	0	0%	0	0%
Low birthweight	6/2021	0	0%	1	50%	1	50%	0	0%	0	0%	0	0%
	All months		0%		50%		50%		0%		0%		0%
	4/2021	0	0%	1	50%	1	50%	0	0%	1	50%	1	50%
Early initiation of	5/2021	0	0%	1	50%	1	50%	0	0%	1	50%	1	50%
breastfeeding	6/2021	0	0%	1	50%	1	50%	0	0%	1	50%	1	50%
	All months		0%		50%		50%		0%		50%		50%
	4/2021	0	0%	1	50%	1	50%	0	0%	1	50%	1	50%
Bag-mask	5/2021	0	0%	1	50%	1	50%	0	0%	1	50%	1	50%
ventilation	6/2021	0	0%	1	50%	1	50%	0	0%	1	50%	1	50%
	All months		0%		50%		50%		0%		50%		50%
literation for	4/2021	0	0%	1	50%	1	50%	0	0%	0	0%	0	0%
Uterotonics for	5/2021	0	0%	1	50%	1	50%	0	0%	0	0%	0	0%
hemorrhage	6/2021	0	0%	1	50%	1	50%	0	0%	0	0%	0	0%
g.	All months		0%		50%		50%		0%		0%		0%
	4/2021	0	0%	1	50%	1	50%	0	0%	0	0%	0	0%
KMC	5/2021	0	0%	1	50%	1	50%	0	0%	0	0%	0	0%
NWC	6/2021	0	0%	1	50%	1	50%	0	0%	0	0%	0	0%
	All months		0%		50%		50%		0%		0%		0%
	4/2021	0	0%	0	0%	2	100%	0	0%	0	0%	0	0%
Institutional	5/2021	0	0%	0	0%	2	100%	0	0%	0	0%	0	0%
neonatal deaths	6/2021	0	0%	0	0%	2	100%	0	0%	0	0%	0	0%
	All months		0%		0%		100%		0%		0%		0%
	4/2021	0	0%	0	0%	2	100%	0	0%	0	0%	0	0%
Neonatal consis	5/2021	0	0%	0	0%	2	100%	0	0%	0	0%	0	0%
Neonatal Sepsis	6/2021	0	0%	0	0%	2	100%	0	0%	0	0%	0	0%
	All months		0%		0%		100%		0%		0%		0%

Table 1C.8 Reasons for observed discrepancies—District Level

Reasons for observed discrepancies

Indicator: Top three reasons that were given as possible reasons for observed discrepancy during the assessment

In this next table, **DQ026** corresponds to the first month, **DQ027** to the second month, and **DQ028** to the third month.

Data Source—Module lia: RHIS Performance Diagnostic Tool (District Level)								
Indicator	Data entry errors	Arithmetic errors	Information from submitted reports incorrectly compiled	Monthly reports unavailable	Other reason(s)			
Total births	0	0	0	0	0			
Live births	0	0	0	0	0			
Stillbirths	0	0	0	0	0			
Low birthweight	0	0	0	0	0			
Early initiation of breastfeeding	0	0	0	0	0			
Bag-mask ventilation	0	0	0	0	0			
Uterotonics for postpartum hemorrhage	0	0	0	0	0			
КМС	0	0	0	0	0			
Institutional neonatal deaths	0	0	0	0	0			
Neonatal sepsis	0	0	0	0	0			

D. RHIS Performance: Data Quality Indicators- Facility Level

Table 1D.1. Completeness of source documents—Facility Level

Completeness of source documents

Indicator: % of facilities with completely filled primary source documents, such as registers, patient records, etc. for selected indicators (i.e., source documents contain the data relevant to the selected indicators)

Total # of assessed facilities with a completely filled primary source document

Total # of assessed facilities expected to report on the selected indicators

Indicator	Period	Numerator	Denominator	Value
Total births	4/2021	14	16	88%
	5/2021	14	16	88%
Total births	6/2021	14	16	88%
	All months	42	48	88%
	4/2021	14	16	88%
F	5/2021	14	16	88%
Live births	6/2021	14	16	88%
	All months	42	48	88%
	4/2021	16	16	100%
F	5/2021	16	16	100%
Stillbirths	6/2021	15	16	94%
-	All months	47	48	98%
	4/2021	15	16	94%
	5/2021	15	16	<u> </u>
Low birthweight	6/2021	15	16	94%
-	All months	45	/8	94%
	//2021	1/	16	88%
Farly initiation of	5/2021	17	16	75%
breastfeeding	6/2021	12	16	81%
biouotioounig	All months	39	48	81%
	4/2021	15	16	94%
Bag-mask	5/2021	15	16	94%
ventilation	6/2021	15	16	94%
Vontiliation	All months	45	48	94%
	4/2021	14	16	88%
Uterotonics for	5/2021	14	16	88%
postpartum	6/2021	15	16	94%
hemorrhage	All months	43	48	90%
	4/2021	1	1	100%
	5/2021	1	1	100%
KMC	6/2021	1	1	100%
	All months	3	3	100%
	4/2021	9	9	100%
Institutional	5/2021	9	9	100%
neonatal deaths	6/2021	9	9	100%
	All months	27	27	100%
	4/2021	1	1	100%
	5/2021	1	1	100%
Neonatal sepsis	6/2021	1	1	100%
	All months	3	3	100%

X 100

Table 1D.2 Completeness of reported data—Facility level

Completeness of reported data

Total # of assessed facilities that submitted a complete report for selected indicators X 100

Total # of assessed facilities expected to report on the selected indicators

Scenario 2

This scenario is valid either: (1) when the assessment happens at health facility level only, or (2) when the sampled health facilities are located outside of the sampled woredas.

Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)							
Indicator	Period	Numerator	Denominator	Value			
Total births	4/2021	15	16	94%			
	5/2021	15	16	94%			
	6/2021	15	16	94%			
	All months	45	48	94%			
	4/2021	16	16	100%			
	5/2021	15	16	94%			
Live births	6/2021	15	16	94%			
	All months	46	48	96%			
	4/2021	16	16	100%			
Ctillh inth a	5/2021	15	16	94%			
Stillbirths	6/2021	15	16	94%			
	All months	46	48	96%			
	4/2021	16	16	100%			
Loui birthuaiaht	5/2021	15	16	94%			
Low birthweight	6/2021	15	16	94%			
	All months	46	48	96%			
	4/2021	16	16	100%			
Early initiation of	5/2021	14	16	88%			
breastfeeding	6/2021	15	16	94%			
	All months	45	48	94%			
	4/2021	15	16	94%			
Bag-mask	5/2021	14	16	88%			
ventilation	6/2021	14	16	88%			
	All months	43	48	90%			
	4/2021	16	16	100%			
Uterotonics for	5/2021	15	16	94%			
hemorrhage	6/2021	15	16	94%			
noniornago	All months	46	48	96%			
	4/2021	1	1	100%			
KMC	5/2021	1	1	100%			
NWC	6/2021	1	1	100%			
	All months	3	3	100%			
	4/2021	9	9	100%			
Institutional	5/2021	9	9	100%			
neonatal deaths	6/2021	9	9	100%			
	All months	27	27	100%			
	4/2021	1	1	100%			
Neonatal sensis	5/2021	1	1	100%			
incollardi sepsis	6/2021	1	1	100%			
	All months	3	3	100%			

Table 1D.3 Reasons for lack of availability of data sources—Facility level

Reasons for no availability of data sources									
Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)									
Indicator	Storage or archiving problems	Staffing issue(s)	Not understanding the data element(s)	Presence of other vertical reporting requirements	Other (specify):				
Total births	2	2	0	0	0				
Low birthweight	1	2	1	0	0				
Stillbirths	1	1	0	0	0				
Live births	1	1	0	0	0				
Early initiation of breastfeeding	2	4	0	1	0				
Bag-mask ventilation	1	1	0	0	0				
Uterotonics for postpartum hemorrhage	2	3	0	1	0				
KMC	0	0	0	0	0				
Institutional neonatal deaths	0	0	0	0	0				
Neonatal sepsis	0	0	0	0	0				
Overall	10	14	1	2	0				

Availability of facility reports

Indicator: % of expected monthly reports of selected indicators that are available at the facility level

Total # of available facility reports containing the selected indicator(s) at the assessed facilities – X 100 Total # of assessed facilities expected to report on the selected indicator(s)

Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)							
Indicator	Period	Numerator	Denominator	Value			
Total births	4/2021	16	16	100%			
	5/2021	15	16	94%			
	6/2021	15	16	94%			
	All months	46	48	96%			
Live birthe	4/2021	16	16	100%			
	5/2021	15	16	94%			
Live births	6/2021	15	16	94%			
	All months	46	48	96%			
	4/2021	16	16	100%			
	5/2021	15	16	94%			
Stilibirths	6/2021	15	16	94%			
	All months	46	48	96%			
	4/2021	16	16	100%			
Low birthwaight	5/2021	15	16	94%			
Low birthweight	6/2021	15	16	94%			
	All months	46	48	96%			
	4/2021	16	16	100%			
Early initiation of	5/2021	15	16	94%			
breastfeeding	6/2021	15	16	94%			
	All months	46	48	96%			
	4/2021	16	16	100%			
Bag maak vantilation	5/2021	15	16	94%			
Bag-mask ventilation	6/2021	15	16	94%			
	All months	46	48	96%			
literatoriae for	4/2021	16	16	100%			
	5/2021	15	16	94%			
postpartum	6/2021	15	16	94%			
nemorriage	All months	46	48	96%			
	4/2021	1	1	100%			
KMC	5/2021	1	1	100%			
NIVIC	6/2021	1	1	100%			
	All months	3	3	100%			
	4/2021	9	9	100%			
Institutional neonatal	5/2021	9	9	100%			
deaths	6/2021	9	9	100%			
	All months	27	27	100%			
	4/2021	1	1	100%			
Noonotol consis	5/2021	1	1	100%			
iveonatai sepsis	6/2021	1	1	100%			
	All months	3	3	100%			

Table 1D.5. Accuracy of facility reporting

Accuracy of reported data

Indicators:

% of facilities where data recorded in source documents are exactly matching reported data of selected indicator (target=95%)

% of facilities that scored VF between 95%–105% for selected indicator

% of facilities that scored VF between 90%-110% for selected indicator

% of facilities that over-reported the selected indicator (<90%)

% of facilities that under-reported the selected indicator (>110%)

Sum of all Facility Verification Factors X 100

Total # of assessed facilities

The facility global accuracy = 100—Average facility VF deviation

Data can be arranged according to the different indicators in the data analysis phase.

Data Sour	ce—Module IIb: F	RHIS Performance	e Diagnostic Tool (H	IF Level)	Facility global Accuracy
Indicator	Period	Numerator	Denominator	Value	CGA
	4/2021	0.41	16	3%	97%
Total birtha	5/2021	0.61	16	4%	96%
Total births	6/2021	0.07	16	0%	100%
	All months	1.09	48	2%	98%
	4/2021	0.44	16	3%	97%
Live birthe	5/2021	0.56	16	4%	96%
Live births	6/2021	0.08	16	0%	100%
	All months	1.08	48	2%	98%
	4/2021	0.43	16	3%	97%
Stillbirtbo	5/2021	0.48	16	3%	97%
Sumpliturs	6/2021	0.50	16	3%	97%
	All months	1.41	48	3%	97%
	4/2021	1.89	16	12%	88%
Low birthwoight	5/2021	2.36	16	15%	85%
Low birthweight	6/2021	2.25	16	14%	86%
	All months	6.50	48	14%	86%
	4/2021	0.91	16	6%	94%
Early initiation of	5/2021	1.28	16	8%	92%
breastfeeding	6/2021	0.84	16	5%	95%
	All months	3.03	48	6%	94%
	4/2021	0.33	16	2%	98%
Bag-mask	5/2021	1.54	16	10%	90%
ventilation	6/2021	1.60	16	10%	90%
	All months	3.48	48	7%	93%
literatonias for	4/2021	0.10	16	1%	99%
Diterotonics for	5/2021	1.40	16	9%	91%
bemorrhage	6/2021	0.15	16	1%	99%
nemorriage	All months	1.64	48	3%	97%
	4/2021	0.00	16	0%	100%
КМС	5/2021	0.00	16	0%	100%
NWC	6/2021	0.00	16	0%	100%
	All months	0.00	48	0%	100%
	4/2021	0.00	16	0%	100%
Institutional	5/2021	0.00	16	0%	100%
neonatal deaths	6/2021	0.00	16	0%	100%
	All months	0.00	48	0%	100%
	4/2021	0.00	16	0%	100%
Neonatal sonsis	5/2021	0.00	16	0%	100%
Neonalai sepsis	6/2021	0.00	16	0%	100%
	All months	0.00	48	0%	100%

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				_	Α			В				_	
		%	<90%	90%<	=%<110%	%>=	110%	%	<80%	80%<=	=%<120%	%>=	120%
Indicator	Period	#	%	#	%	#	%	#	%	#	%	#	%
	4/2021	2	13%	13	81%	1	6%	2	13%	13	81%	1	6%
	5/2021	3	19%	13	81%	0	0%	3	19%	13	81%	0	0%
Total births	6/2021	2	13%	14	88%	0	0%	2	13%	14	88%	0	0%
	All months		15%		83%		2%		15%		83%		2%
	4/2021	1	6%	14	88%	1	6%	1	6%	14	88%	1	6%
Line births	5/2021	3	19%	13	81%	0	0%	3	19%	13	81%	0	0%
Live births	6/2021	2	13%	14	88%	0	0%	2	13%	14	88%	0	0%
	All months	1	13%		85%		2%		13%		85%		2%
	4/2021	2	13%	3	19%	11	69%	2	13%	3	19%	11	69%
Ctillbirth a	5/2021	2	13%	4	25%	10	63%	2	13%	4	25%	10	63%
Stilibirths	6/2021	0	0%	3	19%	13	81%	0	0%	3	19%	13	81%
	All months		8%		21%		71%		8%		21%		71%
	4/2021	1	6%	4	25%	11	69%	0	0%	6	38%	10	63%
Low hirthwoight	5/2021	2	13%	4	25%	10	63%	2	13%	4	25%	10	63%
Low birthweight	6/2021	1	6%	4	25%	11	69%	1	6%	4	25%	11	69%
	All months		8%		25%		67%		6%		29%		65%
	4/2021	3	19%	12	75%	1	6%	2	13%	13	81%	1	6%
Early initiation of	5/2021	5	31%	10	63%	1	6%	4	25%	12	75%	0	0%
breastfeeding	6/2021	3	19%	12	75%	1	6%	2	13%	13	81%	1	6%
	All months		23%		71%		6%		17%		79%		4%
	4/2021	2	13%	4	25%	10	63%	2	13%	4	25%	10	63%
Bag-mask	5/2021	2	13%	3	19%	11	69%	2	13%	3	19%	11	69%
ventilation	6/2021	1	6%	3	19%	12	75%	1	6%	3	19%	12	75%
	All months		10%		21%		69%		10%		21%		69%
l ltanataniaa fan	4/2021	0	0%	14	88%	2	13%	0	0%	14	88%	2	13%
Uterotonics for	5/2021	4	25%	11	69%	1	6%	3	19%	12	75%	1	6%
hemorrhage	6/2021	2	13%	13	81%	1	6%	2	13%	14	88%	0	0%
j-	All months		13%		79%		8%		10%		83%		6%
	4/2021	0	0%	1	6%	15	94%	0	0%	1	6%	15	94%
KMC	5/2021	0	0%	1	6%	15	94%	0	0%	1	6%	15	94%
	6/2021	0	0%	1	6%	15	94%	0	0%	1	6%	15	94%
	All months		0%		6%		94%		0%		6%		94%
	4/2021	0	0%	2	13%	14	88%	0	0%	2	13%	14	88%
Institutional	5/2021	0	0%	2	13%	14	88%	0	0%	2	13%	14	88%
neonatal deaths	6/2021	0	0%	3	19%	13	81%	0	0%	3	19%	13	81%
	All months		0%		15%		85%		0%		15%		85%
	4/2021	0	0%	1	6%	15	94%	0	0%	1	6%	15	94%
Neonatal consis	5/2021	0	0%	1	6%	15	94%	0	0%	1	6%	15	94%
Neonalai sepsis	6/2021	0	0%	1	6%	15	94%	0	0%	1	6%	15	94%
	All months		0%		6%		94%		0%		6%		94%

Indicator: % of facilities where data recorded in source documents and reported data of selected indicator are meeting the set criteria for data accuracy

1E. Summary Tables for Data quality indicators

			Central			Regional			District			Facility		
Domain	Ind	icator	Numerator	Denminator	%	Numerator	Denminator	%	Numerator	Denomnator	%	Numerator	Denomiator	%
Completeness of facility	% of expected mor received at the leve	thly facility reports	*	*	*	*	*	*	231	231	100%			
reporting	Reasons for default of report	Storage or archiving problems	*	*	*	*	*	*	0					
	completeness	Staffing issues	*	*	*	*	*	*	0					
		Absence of reporting forms	*	*	*	*	*	*	0					
		Transportation issues	*	*	*	*	*	*	0					
		Internet connectivity issues	*	*	*	*	*	*	0					
		Presence of other vertical reporting requirements	*	*	*	*	*	*	0					
		Other (specify)	*	*	*	*	*	*	0					
% of expected monthly reports of selected	% of expected	Total births							150	150	100%	46	48	96%
	Live births							150	150	100%	46	48	96%	
	indicators available at the	Stillbirths							150	150	100%	46	48	96%
	level	Low birthweight							150	150	100%	46	48	96%
		Early initiation of breastfeeding							150	150	100%	46	48	96%
		Bag-mask ventilation							150	150	100%	46	48	96%
		Uterotonics for postpartum hemorrhage							150	150	100%	46	48	96%
		KMC							96	150	64%	3	3	100%
		Institutional neonatal deaths							150	150	100%	27	27	100%
		Neonatal sepsis							150	150	100%	3	3	100%
Completeness	% of monthly	Total births							137	150	91%	45	48	94%
of reported data	completely filled	Live births							133	150	89%	46	48	96%

				Central			Regional	jional District			Facility			
Domain	Ind	icator	Numerator	Denminator	%	Numerator	Denminator	%	Numerator	Denomnator	%	Numerator	Denomiator	%
	with data for	Stillbirths							15	150	10%	46	48	96%
	indicators	Low birthweight							30	150	20%	46	48	96%
		Early initiation of breastfeeding							121	150	81%	45	48	94%
		Bag-mask ventilation							20	150	13%	43	48	90%
		Uterotonics for postpartum hemorrhage							132	150	88%	46	48	96%
		KMC							14	150	9%	3	3	100%
		Institutional neonatal deaths							9	150	6%	27	27	100%
		Neonatal sepsis				•	•	•	35	150	23%	3	3	100%
	Reasons for missing data	Staffing issue(s)							2	7	29%	14	27	52%
		Not understanding the data element(s)					•	• •	2	7	29%	1	27	4%
		Presence of other vertical reporting requirements							2	7	29%	2	27	7%
		Storage or archiving problems										10	27	37%
		Other							1	7	14%	0	27	0%
Completeness	% of facilities	Total Births										42	48	88%
ot source documents	with completely filled primary	Live births										42	48	88%
	source	Stillbirths						•				47	48	98%

				Central			Regional			District			Facility	
Domain	Ind	icator	Numerator	Denminator	%	Numerator	Denminator	%	Numerator	Denomnator	%	Numerator	Denomiator	%
	documents, such as registers.	Low birthweight										45	48	94%
	patient records, etc. for selected	Early initiation of breastfeeding										39	48	81%
	source	Bag-mask ventilation										45	48	94%
	documents contain the data relevant to the selected	Uterotonics for postpartum hemorrhage										43	48	90%
	indicators)	KMC										3	3	100%
		Institutional neonatal deaths										27	27	100%
		Neonatal sepsis										3	3	100%
Timeliness of facility reporting	Timeliness of facility reporting	% of facilities submitting monthly reports on time to the aggregation site	*	*	*	*	*	*	16	231	7%			
Accuracy of	% of accuracy	Total Births									100%			
reported data between data entered in the	Live births									100%				
	region (or national) database	Stillbirths									100%			
	and the facility	Low birthweight									100%			
	selected	Early initiation of breastfeeding									100%			
	(target=100%)	Bag-mask ventilation		、							100%			
		Uterotonics for postpartum hemorrhage									100%			
		KMC					1				100%		1	
		Institutional neonatal deaths			•			•			100%			
		Neonatal sepsis			•						100%			
	Reasons for	Data entry errors									0			
	observed discrepancies	Arithmetic errors									0			
, ui		Information from submitted reports incorrectly compiled									0			
		Monthly reports unavailable									0			

			Central			Regional			District			Facility		
Domain	Ind	icator	Numerator	Denminator	%	Numerator	Denminator	%	Numerator	Denomiator	%	Numerator	Denomiator	%
		Other reasons									0			
Accuracy of	% of facilities	Total Births												98%
reported data	recorded in	Live births												98%
source documents are exactly matching reported data of selected indicator (target=95%)	Stillbirths												97%	
	matching reported data of selected indicator (target=95%)	Low birthweight												86%
		Early initiation of breastfeeding												94%
		Bag-mask ventilation		× .										93%
		Uterotonics for postpartum hemorrhage												97%
		KMC												100%
		Institutional neonatal deaths												100%
		Neonatal sepsis												100%

2. RHIS Performance: Use of Information Indicators

2A. Use of Information Indicators—Central level

A. RHIS Performance: Use of Information Indicator- Central Level

Section 2A Tables: Use of Information Indicators—Central Level

Table 2A.1 Use of data to produce narrative analytical reports

Use of data to produce narrative analytical reports	
Indicator: % of sites producing analytical reports	
Total # of sites producing analytical reports	
	x 100
Total # of sites assessed (=1)	X 100
Keep in mind that at the central level, the number of sites is 1.	

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Central Level)								
Indicator	Numerator	Denominator	%					
Central office produces any report or bulletin based on analysis of RHIS data	*	*	*					

Table 2A.2 Use of information for performance review

Use of information for performance review

Indicator: Mean score on the use of routine data for RHIS quality improvement, performance review, and evidence-based decision making

Sum of each site's score

Total # of sites assessed (1) x 5 x 100

Data	a Source—Module IIa: R	HIS Performance Diag	nostic Tool (Central Leve	el)
	Indicator	Numerator	Denominator	%
Average score of use	Use of routine data for RHIS quality improvement, performance review, and evidence-based decision making	*	*	*
	Discussion on RHIS management	*	*	*
	Decisions made on RHIS issues	*	*	*
Individual scores of use	Follow-up of the decisions	*	*	*
	Discussion on key performance targets	*	*	*
	Decision made on health facility (HF) performance	*	*	*

Table 2A.2a Indicator: Mean scores on discussions held to review key performance targets

Indicator: Mean scores on discussions held to review key performance targets

Were discussions held to review key performance targets (tracking progress against targets) based on RHIS data? Such as:

Indicator	Numerator	Denominator	%
1. Coverage of services, like ANC, delivery,	*	*	*
EPI, or TB			
2. Hospital/health center performance	*	*	*
indicators			
3. Major neonatal morbidity diagnoses (e.g., top	*	*	*
ten diseases: retinopathy, growth faltering,			
kernicterus, jaundice)			
4. Identification of emerging issues/epidemics	*	*	*
5 5 1			
5. Medicine stock outs	*	*	*
6. Human resource management	*	*	*
7. Sex-disaggregated data, e.g., total births	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 2A.2b Indicator: Mean scores for any decisions made based on health facility performance

Indicator: Mean scores for any decisions made based on health facility's performance

Decisions made based on the disc	ussion of the district a	nd/or health facility's pe	erformance
Indicator	Numerator	Denominator	%
1. Formulation of plans	*	*	*
2. Budget preparation	*	*	*
3. Budget reallocation	*	*	*
4. Medicine supply and drug management	*	*	*
5. Human resource management (training, reallocation, etc.)	*	*	*
6. Advocacy for policy, programmatic, or strategic decisions from higher levels	*	*	*
7. Health services (preventive, promotive, clinical, rehabilitative) planning	*	*	*
8. Promotion of service quality/improvement	*	*	*
9. Reducing the gender gap in the provision of health services	*	*	*
10. Involvement of the community and local government	*	*	*
11. No action required at this time	*	*	*

Table 2A.3 Types of issues covered in annual plans demonstrating RHIS data use

Type of issues covered in annual plans demonstrating RHIS data use

Presence of specific issue area via activities or targets contained in annual plan
Total # of sites that have an annual plan for the current year (=1)
X 100

Data S	Source—Module IIa: RHIS Pe	rformance Diagnostic To	ol (Central Level)	
	Indicator	Numerator	Denominator	%
	Service coverage	*	*	*
	Health facility performance	*	*	*
Annual plan contains	Neonatal morbidity diagnoses	*	*	*
activities and/or targets related to improving or	Emerging issues/epidemics	*	*	*
addressing:	Medicine stock outs	*	*	*
	HR management	*	*	*
	Gender disparity	*	*	*

Table 2A.4 Data dissemination outside the health sector

Data dissemination outside the health sector

Indicator: % of sites disseminating RHIS information to stakeholders outside of the health sector

Total # of sites with health indicator performance reports X 100

Total # of sites assessed (=1)

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Central Level)				
Indicator	Numerator	Denominator	%	
Central level has to submit/present health indicator performance reports to a central council of public representatives/civil administration	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 2A.5 Proportion of sites using/sharing data from the health indicators performance report

Indicator: Proportion of sites using/sharing data from the health indicators performance report

Total # of sites with data shared or used Total # of sites with health indicator performance reports

X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Central Level)					
Indicators	Numerator	Denominator	%		
Reports/presentations use data from the RHIS to report on the health sector's progress	*	*	*		
Website is updated at least annually for accessing the central level's RHIS data by the general public	*	*	*		
Central level performance data shared with the general public via bulletin board chalkboard, and/or local publication	*	*	*		

2B. Use of Information Indicators—Regional level

Section 2B. Tables: Use of information indicator-Regional Level

B. RHIS Performance: Use of Information Indicator- Regional Level

Table 2B.1. Use of data to produce narrative analytical reports-Region level diagnostic

Use of data to produce narrative analytical reports Indicator: % of sites producing analytical reports Total # of sites producing analytical reports Total # of sites assessed

— X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Region Level)				
Indicator	Numerator	Denominator	%	
Regional office produces any report or bulletin based on analysis of RHIS data	*	*	*	

Table 2B.2. Use of information for performance review—Region level diagnostic

Use of information for performance review

Indicators: Individuals and average scores on the use of routine data for RHIS quality improvement, performance review, and evidence-based decision making

Sum of each site's score

Total # of sites assessed x 5

X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Region Level)							
		Use of information among all regions		Use for information among regions with meeting minutes			
	Indicator	Numerator	Denominator	%	Numerator	Denominator	%
Average score of use	Use of routine data for RHIS quality improvement, performance review, and evidence-based decision making	*	*	*	*	*	*
Individual scores of	Discussion on RHIS management	*	*	*	*	*	*
use	Decisions made on RHIS issues	*	*	*	*	*	*
	Follow-up of the decisions	*	*	*	*	*	*
	Discussion on key performance targets	*	*	*	*	*	*
	Decision made on HF performance	*	*	*	*	*	*
Table 2B.3 Indicator: Discussions held to review key performance targets

Indicator: Score individuals on discussions held to review key performance targets

Were discussions held to review key performance targets (tracking progress against targets) based on RHIS data, such as:

Indicator	Numerator	Denominator	%
1. Coverage of services, like ANC, delivery, EPI, or TB	*	*	*
 Hospital/health center performance indicators 	*	*	*
 Major neonatal morbidity diagnoses (e.g., top ten diseases: retinopathy, growth faltering, kernicterus, jaundice) 	*	*	*
 Identification of emerging issues/epidemics 	*	*	*
5. Medicine stock outs	*	*	*
6. Human resource management	*	*	*
 Sex-disaggregated data, e.g., total births 	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 2B.4 Indicator: Decisions made based on health facility's performance

Indicator: Scores individuals on any decisions made based on health facility's performance

Decisions made based on the discussions of the health facility's performance, such as:					
Indicator	Numerator	Denominator	%		
1. Formulation of plans	*	*	*		
2. Budget preparation	*	*	*		
3. Budget reallocation	*	*	*		
4. Medicine supply and drug management	*	*	*		
5. Human resource management (training, reallocation, etc.)	*	*	*		
 Advocacy for policy, programmatic, or strategic decisions from higher levels 	*	*	*		
 Health services (preventive, promotive, clinical, rehabilitative) planning 	*	*	*		
8. Promotion of service quality/improvement	*	*	*		
 Reducing the gender gap in the provision of health services 	*	*	*		
10. Involvement of the community and local government	*	*	*		
11. No action required at this time	*	*	*		

Table 2B.5 Types of issues covered in annual plans demonstrating RHIS data use-Region level diagnostic

Type of issues covered in annual plans demonstrating RHIS data use

Presence of specific issue area via activities or targets contained in current year annual plan X 100 Total # of sites that have an annual plan for the current year

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Region Level)					
Indicator Numerator Denominator %					
	Service coverage	*	*	*	
Annual plan contains activities and/or targets related to improving or addressing:	Health facility performance	*	*	*	
	Neonatal morbidity diagnoses	*	*	*	
	Emerging issues/epidemics	*	*	*	
	Medicine stock outs	*	*	*	
	HR management	*	*	*	
	Gender disparity	*	*	*	

Table 2B.6 Data dissemination outside the health sector—Region level diagnostic for RHIS performance

Data dissemination outside the health sector

Indicator: % of sites disseminating RHIS information to stakeholders outside of the health sector

Total # of sites with health indicator performance reports X 100 Total # of sites assessed

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Region Level)					
Indicator Numerator Denominator %					
Region has to submit/present health indicator performance reports to a regional council of public representatives/civil administration	*	*	*		

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 2B.7 Proportion of sites using/sharing data from the health indicators performance report

Indicator: Proportion of sites using/sharing data from the health indicators performance report

Total # of sites with data shared or used

Total # of sites with health indicator performance reports X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Region Level)					
Indicators	Numerator	Denominator	%		
Reports/presentations use data from the RHIS to report on the health sector's progress	*	*	*		
Website is updated at least annually for accessing the region's RHIS data by the general public	*	*	*		
Region performance data are shared with the general public via bulletin board or chalkboard, and/or local publication	*	*	*		

2C. Use of Information Indicators—District level

Section 2C. Tables: RHIS performance: use of information indicator-District Level

A. RHIS Performance: Use of Information Indicator- District Level

Table 2C.1. Use of data to produce narrative analytical reports—District level RHIS Performance Diagnostic

Use of data to produce narrative analytical reports Indicator: % of sites producing analytical reports	
Total # of sites producing analytical reports	X 100
Total # of sites assessed	- X 100
Data Source—Module IIa: RHIS Perfo	rmance Diagnostic Tool (District Level)

Indicator	Numerator	Denominator	%		
District office produces any report or bulletin based on analysis of RHIS data	1	2	50%		

Table 2C.2 Use of information for performance review—District level

Use of information for performance review

Indicator: Average score on the use of routine data for RHIS quality improvement, performance review, and evidence-based decision making

Sum of each site's scoreX 100Total # of sites assessed x 5

Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)							
		Use of in	formation amon districts	g all	Use for information among districts with meeting minutes		
Ir	ndicator	Numerator	Denomator	%	Numerator	Denominaor	%
Average score of use	Use of routine data for RHIS quality improvement, performance review, and evidence-based decision making	10	10	100%	10	10	100%
	Discussion on RHIS management	2	2	100%	2	2	100%
	Decisions made on RHIS issues	2	2	100%	2	2	100%
Individual scores of	Follow-up of the decisions	2	2	100%	2	2	100%
use	Discussion on key performance targets	2	2	100%	2	2	100%
	Decision made on health facility (HF) performance	2	2	100%	2	2	100%

Table 2C.3 Indicator for tracking progress against targets

Were discussions held to review key performance targets (tracking progress against targets) based on RHIS data, such as:					
Indicator	Numerator	Denominator	%		
1. Coverage of services, like early initiation of breastfeeding, bag-mask ventilation, birthweight/low birthweight, etc.	0	2	0%		
2. Hospital/health center performance indicators	2	2	100%		
3. Major neonatal morbidity diagnoses (e.g., top ten diseases: retinopathy, growth faltering, kernicterus, jaundice)	2	2	100%		
4. Identification of emerging issues/epidemics	2	2	100%		
5. Medicine stock outs	2	2	100%		
6. Human resource management	2	2	100%		
7. Sex-disaggregated data, e.g., total births	0	2	0%		

Table 2C.4. Indicator for discussions of health facility performance

Decisions made based on the discussions of the health facility's performance, such as:					
Indicator	Numerator	Denominator	%		
1. Formulation of plans	2	2	100%		
2. Budget preparation	2	2	100%		
3. Budget reallocation	2	2	100%		
4. Medicine supply and drug management	2	2	100%		
 Human resource management (training, reallocation, etc.) 	2	2	100%		
 Advocacy for policy, programmatic, or strategic decisions from higher levels 	1	2	50%		
 Health services (preventive, promotive, clinical, rehabilitative) planning 	2	2	100%		
8. Promotion of service quality/improvement	2	2	100%		
 Reducing the gender gap in the provision of health services 	0	2	0%		
10. Involvement of the community and local government	2	2	100%		
11. No action required at this time	1	2	50%		

Table 2C.5 Types of issues covered in the annual plans demonstrating RHIS data use

Indicator: Type of issues covered in the annual plans demonstrating RHIS data use

Presence of specific issue area via activities or targets contained in current year annual plan

Total # of sites that have an annual plan for the current year

X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)					
Indicator Numerator Denominator %					
	Service coverage	0	2	0%	
	Health facility performance	2	2	100%	
activities and/or	Diseases	2	2	100%	
targets related to improving or addressing:	Emerging issues/epidemics	2	2	100%	
	Medicine stock outs	2	2	100%	
	HR management	2	2	100%	
	Gender disparity	0	2	0%	

Table 2C.6.	Data dissemination	outside the health	sector—District lev	vel diagnostic for	RHIS performance
	Data dissemination	outside the neutri		ver alagnostic for	number periormanie

Data dissemination outside the health sector

Indicator: % of sites disseminating RHIS information to stakeholders outside of the health sector

Total # of sites with health indicator performance reportsX 100Total # of sites assessedX 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)									
Indicator	Numerator	Denominator	%						
District has to submit/present health indicator performance reports to a district council of public representatives/civil administration	2	2	100%						

Table 2C.7. Proportion of sites using/sharing data from the health indicators performance reports—District level

Indicator: Proportion of sites using/sharing data from the health indicators performance report

Total # of sites with data shared or used

Total # of sites with health indicator performance reports X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)										
Indicators	Numerator	Denominator	%							
Reports/presentations use data from the RHIS to report on the health sector's progress	2	2	100%							
Website is updated at least annually for accessing the district's RHIS data by the general public	1	2	50%							
District performance data shared with the general public via bulletin board or chalkboard and/or local publication	2	2	100%							

2D. Use of Information Indicators—Facility level

Section 2D Tables: RHIS performance: Use of information indicator—Facility level

B. RHIS Performance: Use of Information Indicator- Facility Level

Table 2D.1 Use of data to produce narrative analytical reports—RHIS performance—Facility level

Use of data to produce narrative analytical reports Indicator: % of sites producing analytical reports Total # of sites producing analytical reports X 100									
Data Source—Module IIt	: RHIS Performance D	agnostic Tool (HF Leve	el)						
Indicator	Numerator	Denominator	%						
Health facility produces any report or bulletin based on the analysis of RHIS data	3	16	19%						

 Table 2D.2 Use of information for performance review—Facility level

Use of information for performance review

Indicators: Average score on the use of routine data for RHIS quality improvement, performance review, and evidence-based decision making

Sum of each site's score X 100 Total # of sites assessed x 5

We consider the sum of FU016e = 1 to be the number of respondents who answered "yes" to any—but at least 1—of the 7 sub-questions under FU016e. The same weight is attributed to a respondent who answered "yes" to 1 or 7 of the sub-questions.

We consider the sum of FU017 = 1 to be the number of respondents who answered "yes" to any—but at least 1—of the 9 sub-questions under FU017. The same weight is attributed to a respondent who answered "yes" to 1 or 9 of the subquestions.

Data	Data Source—Module IIa: RHIS Performance Diagnostic Tool, use of information for all facilities												
		Use of inf	ormation for all f	acilities	Use of information for facilities having meeting minutes								
I	ndicator	Numerator	Denominaor	%	Numerator	Denominator	%						
Average score of use	Use of routine data for RHIS quality improvement, performance review, and evidence-based decision making	18	80	23%	18	40	45%						
	Discussion of RHIS management	2	16	13%	2	8	25%						
	Decisions made on RHIS issues	2	16	13%	2	8	25%						
Individual scores of	Follow-up on the decisions	2	16	13%	2	8	25%						
use	Discussion of key performance targets	6	16	38%	6	8	75%						
	Decision made on health facility (HF) performance	6	16	38%	6	8	75%						

Table 2D.3 Indicator: Tracking progress against targets

Were discussions held to review key performance targets (tracking progress against targets) based on RHIS data, such as:										
Indicator	Numerator	Denominator	%							
 Coverage of services, like early initiation of breastfeeding, bag-mask ventilation, birthweight/low birthweight, etc. 	2	16	13%							
2. Hospital/health center performance indicators	6	16	38%							
3. Major neonatal morbidity diagnoses (e.g., top ten diseases: retinopathy, growth faltering, kernicterus, jaundice)	2	16	13%							
4. Identification of emerging issues/epidemics	2	16	13%							
5. Medicine stock outs	5	16	31%							
6. Human resource management	5	16	31%							
7. Sex-disaggregated data, e.g., total births	0	16	0%							

Table 2D.4 Indicator: Decisions made based on discussions of health facility performance

Were any decisions made based on the di	Were any decisions made based on the discussions of the health facility's performance, such as:											
Indicator	Numerator	Denominator	%									
1. Formulation of plans	2	16	13%									
2. Budget preparation	2	16	13%									
3. Budget reallocation	2	16	13%									
4. Medicine supply and drug management	3	16	19%									
5. Human resource management (training, reallocation, etc.)	4	16	25%									
6. Advocacy for policy, programmatic, or strategic decisions from higher levels	1	16	6%									
7. Promotion of service quality/improvement	6	16	38%									
8. Reducing the gender gap in the provision of health services	0	16	0%									
9. No action required at this time	0	16	0%									

Table 2D.5 Issues covered in annual plans demonstrating RHIS data use—Facility level

 Type of issues covered in the annual plans demonstrating RHIS data use

 Presence of specific issue area via activities or targets contained in current year annual plan

 Total # of sites that have an annual plan for the current year

Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)											
India	cator	Numerator	Denominator	%							
	Service coverage	7	7	100%							
Annual plan	Health facility performance	7	7	100%							
contains activities	Diseases	7	7	100%							
and/or targets related to	Emerging issues/epidemics	5	7	71%							
improving or addressing:	Medicine stock outs	6	7	86%							
addressing:	HR management	7	7	100%							
	Gender disparity	4	7	57%							

Table 2D.6 Data dissemination outside the health sector—Facility level

Data dissemination outside the health sector

Indicators: % of sites disseminating RHIS information to stakeholders outside the health sector

Total # of sites with health indicator performance reports X 100

Total # of sites assessed

Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)										
Indicator	Numerator	Denominator	%							
Health facility has to submit/present performance reports to a council/district administration	16	16	100%							

Table 2D.7 Proportion of sites using/sharing data from the health indicators performance report—Facility level

Indicator: Proportion of sites using/sharing data from the health indicators performance report Total # of sites with data shared or used X 100

Total # of sites with health indicator performance reports

Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)											
Indicators	Numerator	Denominator	%								
Reports/presentations use data from the RHIS to report on the health sector's	12	16	75%								
progress											
Website is updated at least annually for accessing the health facility's RHIS data by the general public	0	16	0%								
Health facility performance data are shared with the general public via bulletin boards chalkboard, and/or local publications	13	16	81%								

2E. Summary Tables for Use of Information indicators

				Central			Regional			District			Facility		
Domain	In	dicator	Numerator	Deinator	%	Numerator	Deinator	%	Numerator	Denomnator	%	Numerator	Denomnator	%	
Use of data to produce narrative analytical reports Use of information for performance review	Produces any report or bulletin based on analysis of RHIS data	% of sites producing analytical reports	*	*	*	*	*	*	1	2	50%	3	16	19%	
	Use of routine data for RHIS quality improvement, performance review, and evidence- based decision making	Discussion on RHIS management	*	*	*	*	*	*	2	2	100%	2	8	25%	
review		Decisions made on RHIS issues	*	*	*	*	*	*	2	2	100%	2	8	25%	
		evidence- based decision making	Follow-up of the decisions	*	*	*	*	*	*	2	2	100%	2	8	25%
			Discussion on key performance targets	*	*	*	*	*	*	2	2	100%	6	8	75%
		Decision made on health facility (HF) performance	*	*	*	*	*	*	2	2	100%	6	8	75%	
		Average score of use	*	*	*	*	*	*	10	10	100%	18	40	45%	

			Central			Regional			District			Facility		
Domain	In	dicator	Numerator	Deinator	%	Numerator	Deinator	%	Numerator	Denomnator	%	Numerator	Denomnator	%
	Mean scores on discussions held to review key performance targets based	1. Coverage of services, like early initiation of breastfeeding, bag- mask ventilation, birthweight/low birthweight, etc.	*	*	*	*	*	*	0	2	0%	2	16	13%
	on RHIS data?	2. Hospital/health center performance indicators	*	*	*	*	*	*	2	2	100%	6	16	38%
		3. Major neonatal morbidity diagnoses (e.g., top ten diseases: retinopathy, growth faltering, kernicterus, jaundice)	*	*	*	*	*	*	2	2	100%	2	16	13%
		4. Identification of emerging issues/epidemics	*	*	*	*	*	*	2	2	100%	2	16	13%
		5. Medicine stock outs	*	*	*	*	*	*	2	2	100%	5	16	31%
		6. Human resource management	*	*	*	*	*	*	2	2	100%	5	16	31%
		7. Sex- disaggregated data, e.g., total births	*	*	*	*	*	*	0	2	0%	0	16	0%

			Central			F	Regional			District			Facility		
Domain	In	dicator	Numerator	Deinator	%	Numerator	Deinator	%	Numerator	Denomnator	%	Numerator	Denomnator	%	
	Mean scores for any	1. Formulation of plans	*	*	*	*	*	*	2	2	100%	2	16	13%	
	decisions made based	2. Budget preparation	*	*	*	*	*	*	2	2	100%	2	16	13%	
on the discussion of performance	3. Budget reallocation	*	*	*	*	*	*	2	2	100%	2	16	13%		
	4. Medicine supply and drug management	*	*	*	*	*	*	2	2	100%	3	16	19%		
	5. Human resource management (training, reallocation, etc.)	*	*	*	*	*	*	2	2	100%	4	16	25%		
	6. Advocacy for policy, programmatic, or strategic decisions from higher levels	*	*	*	*	*	*	1	2	50%	1	16	6%		
		7. Health services (preventive, promotive, clinical, rehabilitative) planning	*	*	*	*	*	*	2	2	100%	6	16	38%	
		8. Promotion of service quality/ improvement	*	*	*	*	*	*	2	2	100%	0	16	0%	
	9. Reducing the gender gap in the provision of health services	*	*	*	*	*	*	0	2	0%	0	16	0%		
		10. Involvement of the community and local government	*	*	*	*	*	*	2	2	100%	0	0	0%	
		11. No action required at this time	*	*	*	*	*	*	1	2	50%	0	0	0%	

				Central		F	Regional			District			Facility	
Domain	In	dicator	Numerator	Deinator	%	Numerator	Deinator	%	Numerator	Denomnator	%	Numerator	Denomnator	%
Type of issues	Annual plan contains	Service coverage	*	*	*	*	*	*	0	2	0%	7	7	100 %
covered in annual	activities and/or	Health facility performance	*	*	*	*	*	*	2	2	100%	7	7	100 %
plans demonstrati	targets related to	Neonatal morbidity diagnoses	*	*	*	*	*	*	2	2	100%	7	7	100 %
ng RHIS data use	improving or addressing:	Emerging issues/epidemics	*	*	*	*	*	*	2	2	100%	5	7	71%
		Medicine stock outs	*	*	*	*	*	*	2	2	100%	6	7	86%
		HR management	*	*	*	*	*	*	2	2	100%	7	7	100 %
		Gender disparity	*	*	*	*	*	*	0	2	0%	4	7	57%
Data disseminati on outside the health sector	Need to submit indicator perfor central council representatives administration	/present health mance reports to a of public // civil	*	*	*	*	*	*	2	2	100%	16	16	100 %
	Proportion of sites using/sharing data from the health	Reports/presentatio ns use data from the RHIS to report on the health sector's progress	*	*	*	*	*	*	2	2	100%	12	16	75%
	indicators performance report	Website is updated at least annually for accessing the central level's RHIS data by the general public	*	*	*	*	*	*	1	2	50%	0	16	0%
		Central level performance data shared with the general public via bulletin board chalkboard, and/or local publication	*	*	*	*	*	*	2	2	100%	13	16	81%

3. RHIS Performance: Data Management Indicators

3A. Data Management Indicators—Central level

Section 3A Tables: Data management indicators—Central level

A. RHIS Performance: Data Management Indicators- Central Level

Fable 3A.1. Data quality assurance in place at Central level					
Data quality assurance in place					
Indicator: Mean score for data quality control standards in place Sum of data quality control scores X 100 8					
Data Source—Module IIa: RHIS Performance Diagnostic Tool (Central Level)					
Indicator	Numerator	Denominator	%		
Site data quality score	*	*	*		

Table 3A.2 Individual scores for indicators related to data quality control standards—Central level

Indicator: Individual scores for indicators related to data quality control standards in place

Total score for each item of DQ control standards in place X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Central Level)				
Indicator	Numerator	Denominator	%	
Central has a designated person to review the quality of compiled data prior to submission to the next level	*	*	*	
Central has written guidelines for data review and quality control	*	*	*	
Designated staff are trained on data review and quality control	*	*	*	
Central has written guidelines on routine health data quality assessment/assurance	*	*	*	
Central conducts data quality assessments at health facilities	*	*	*	
Central uses data quality assessment tools (e.g., lot quality assurance sampling [LQAS], routine data quality assessment [RDQA], in- built electronic data quality validation rules/system)	*	*	*	
Central maintains a record of health facility data quality assessments conducted in the past 12 months	*	*	*	
Central maintains a record of feedback to health facilities on data quality assessment findings	*	*	*	

Table 3A.3 Evidence of data analysis taking place at the Central level

Evidence of data analysis taking place

Indicator: Mean score and individual scores for data analysis practice

Sum of the site's score for carrying out data analysis

Total # of sites assessed x 8

Data Source—Module lia: RHIS Performance Diagnostic Tool (Central Level)				
Indicator	Numerator	Denominator	%	
AVERAGE SCORE FOR DATA ANALYSIS PRACTICE	*	*	*	
DATA AGGREGATION	*	*	*	
DEMOGRAPHIC DATA FOR CATCHMENT AREA (CE)	*	*	*	
CALCULATE COVERAGE INDICATORS FOR EACH CATCHMENT AREA	*	*	*	
COMPARISON BY REGIONS	*	*	*	
COMPARISON WITH REGIONS AND CENTRAL TARGETS	*	*	*	
COMPARISON OF DATA OVER TIME	*	*	*	
COMPARISON OF SEX DISAGGREGATION	*	*	*	
COMPARISON OF SERVICE COVERAGE	*	*	*	

— X 100

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 3A.4 Data visualization at the Central level

Data visualization	
Indicator: Existence of use of raw RHIS data to produce data visuals	
Score of the existence of proof of using raw RHIS data to produce data visuals	X 100
Total # of sites assessed (=1)	X 100

Data Source—Module lia: RHIS Performance Diagnostic Tool (Central Level)					
Indicator	Numerator	Denominator	%		
Central office prepares data visuals showing achievements toward targets	*	*	*		

Table 3A.5 Feedback mechanisms in place—Central level

Feedback mechanism in place

Indicators: Proof of existence of written feedback to the lower level based on reported RHIS data

Existence of proof of written feedback to lower level based on reported RHIS data X 100 Total # of sites assessed (=1)

Data Source—Module lia: RHIS Performance Diagnostic Tool (Central Level)					
Indicator	Numerator	Denominator	%		
Central level sent feedback reports using RHIS information to health facilities in the past 3 months	*	*	*		

3B. Data Management Indicators—Regional level

Section 3B. Tables: Data Management Indicators—Regional Level

B. RHIS Performance: Data Management Indicators- Regional Level

Table 3B.1 Data quality assurance in place—Regional level

Data quality assurance in place	
Indicator: Average score for data quality cont	rol standards in place
Sum of the site's data quality control score	—— X 100
I otal # of sites assessed x 8	
Dete Course Mediale lies DU	

Data Source—Module lia: RHIS Performance Diagnostic Tool (Region Level)					
Indicator	Numerator	Denominator	%		
Site data quality score	*	*	*		

Table 3B.2 Individual scores for indicators related to data quality control standards—Regional level

Indicator: Individual scores for indicators related to data quality control standards in place

Total # of regions assessed with data quality control standards in place

Total # of regions assessed

Data Source—Module lia: RHIS Performance Diagnostic Tool (Region Level)				
Indicator	Numerator	Denominator	%	
Region has a designated person to review the quality of compiled data prior to submission to the next level	*	*	*	
Region has written guidelines for data review and quality control	*	*	*	
Designated staff are trained on data review and quality control	*	*	*	
Region has written guidelines on routine health data quality assessment/assurance	*	*	*	
Region conducts data quality assessments at health facilities	*	*	*	
Region uses data quality assessment tools (e.g., lot quality assurance sampling [LQAS], routine data quality assessment [RDQA], in- built electronic data quality validation rules/system)	*	*	*	
Region maintains a record of health facility data quality assessments conducted in the past 12 months	*	*	*	
Region maintains a record of feedback to health facilities on data quality assessment findings	*	*	*	

— X 100

Table 3B.3 Evidence of data analysis—Regional level

Evidence of data analysis taking place

Indicator: Average score for level of data analysis practice

Sum of the site's score for carrying out data analysis Total # of sites assessed x 8 X 100

Data Source—Module lia: RHIS Performance Diagnostic Tool (Region Level) Indicator Numerator Denominator % AVERAGE SCORE FOR DATA ANALYSIS PRACTICE * * * DATA AGGREGATION DEMOGRAPHIC DATA FOR CATCHMENT * * * AREA (CE) CALCULATE COVERAGE INDICATORS FOR * * * EACH CATCHMENT AREA * COMPARISON BY DISTRICT COMPARISON WITH REGIONS AND * * * **REGIONAL TARGETS** * * * COMPARISON OF DATA OVER TIME * * COMPARISON OF SEX DISAGGREGATION COMPARISON OF SERVICE COVERAGE

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 3B.4 Data visualization—Regional level

Data visualization

Indicator: % of sites assessed that are using raw RHIS data to produce data visuals

Total # of sites assessed that are using raw RHIS data to produce data visuals Total # of sites assessed X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Region Level)					
Indicator	Numerator	Denominator	%		
Region office prepares data visuals showing achievements toward targets	*	*	*		

Table 3B.5 Feedback mechanisms in place—Regional level

Feedback mechanism in place

Indicator: % of regions assessed providing written feedback to the lower level based on reported RHIS data

 Total # of regions providing written feedback to lower level based on reported RHIS data

 Total # of sites assessed
 X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Region Level)					
Indicator	Numerator	Denominator	%		
Region sent feedback reports using RHIS information to health facilities in the last 3 months	*	*	*		

3C. Data Management Indicators—District level

Section 3C. Tables: Data Management Indicators—District Level

C. RHIS Performance: Data Management Indicators- District Level

Table 3C.1 Data quality assurance in place—average score for data quality control

Data quality assurance in place Indicator: Average score for data quality control standards in place

Sum of the site's data quality control score Total # of sites assessed x 8 X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)						
Indicator	Numerator	Denominator	%			
Site data quality score	13	16	81%			

Table 3C.2 Data quality assurance in place—individual scores for indicators

Indicator: Individual scores for indicators related to data quality control standards in place

Total # of districts assessed with data quality control standards in place X 100 Total # of districts assessed

Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)									
Indicator	Numerator	Denominator	%						
District has a designated person to review the quality of compiled data prior to submission to the next level	2	12	17%						
District has written guidelines for data review and quality control	1	2	50%						
Designated staff are trained on data review and quality control	1	2	50%						
District has written guidelines on routine health data quality assessment/assurance	1	2	50%						
District conducts data quality assessments at health facilities	2	2	100%						
District uses data quality assessment tools (e.g., lot quality assurance sampling [LQAS], routine data quality assessment [RDQA], in- built electronic data quality validation rules/system)?	2	2	100%						
District maintains a record of health facility data quality assessments conducted in the past 12 months	2	2	100%						
District maintains a record of feedback to health facilities on data quality assessment findings	2	2	100%						

Table 3C.3 Evidence of data analysis taking place

Evidence of data analysis taking place

Indicator: Average score for level of data analysis practice

Sum of the site's score for carrying out data analysis Total # of sites assessed x 8 X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)								
Indicator	Numerator	Denominator	%					
Average score for data analysis practice	6	16	38%					
Data aggregation	2	2	100%					
Demographic data for catchment areas	2	2	100%					
Calculate coverage indicators for each catchment area	1	2	50%					
Comparison by regions or districts	0	2	0%					
Comparison with regions and district targets	1	2	50%					
Comparison of data over time	0	2	0%					
Comparison of sex disaggregation	0	2	0%					
Comparison of service coverage	0	2	0%					

Table 3C.4 Data visualization

achievements toward targets

Data visualization									
Indicator: % of sites that are using raw RHIS data to produce data visuals									
Total # of sites that are using raw RHIS data to produce data visuals X 100									
Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)									
Indicator	Numerator	Denominator	%						
District office prepares data visuals showing	2	2	100%						

Table 3C.5 Feedback mechanism in place

Feedback mechanism in place

Indicator: % of districts providing written feedback to the lower level based on reported RHIS data

Total # of districts providing written feedback to lower level based on reported RHIS data X 100 Total # of sites assessed

Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)									
Indicator Numerator Denominator %									
District sent feedback reports using RHIS information to health facilities in the last 3 months	2	2	100%						

3D. Data Management Indicators—Facility level

Section 3D. Tables: Data Management Indicators—Facility Level

D. RHIS Performance: Data Management Indicators- Facility Level

Table 3D.1 Data quality assurance in place—average score for data quality

Data quality assurance in place							
Indicator: Average score for data quality control standards in place							
Sum of the site's data quality control score Total # of sites assessed x 7	- X 100						
Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)							
		, 	,	[

Indicator	Numerator	Denominator	%
Site data quality score	46	112	41%

Table 3D.2 Data quality assurance in place—individual scores

Indicator: Individual scores for indicators related to data quality control standards in place
Total # of facilities with data quality control standards in place
Total # of facilities assessed
X 100

Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)									
Indicator	Numerator	Denominator	%						
Facility has designated person to review the quality of compiled data prior to submission to the next level	14	16	88%						
Staff trained in data quality review or data quality check	0	16	0%						
Facility has written instructions/guidelines on how to perform a data quality review or data quality check	7	16	44%						
Facility conducts regular data accuracy checks (data quality self- assessment)	13	16	81%						
Facility has access to data quality self-assessment tools (paper or electronic)	7	16	44%						
Facility maintains a record of health facility data accuracy self- assessments conducted in the past three months	4	16	25%						
Facility maintains records of feedback to staff on data quality self- assessment findings	1	16	6%						

Table 3D.3 Evidence of data analysis taking place at site

Evidence of data analysis taking place

Indicator: Average score for level of data analysis practice

Sum of the site's score for carrying out data analysis X 100 Total # of sites assessed x 7

Health facility prepares data visuals showing achievements toward

targets

Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)									
Indicator	Numerator	Denominator	%						
Site data analysis score	23	112	21%						
Data aggregation	12	16	75%						
Demographic data for catchment areas	2	16	13%						
Calculate coverage indicators for each catchment area	3	16	19%						
Comparison with regions and district targets	2	16	13%						
Comparison of data over time	0	16	0%						
Sex disaggregation	3	16	19%						
Service coverage	1	16	6%						

Table 3D.4 Data visualization

Data visualization								
Indicator: % of sites that are using raw RHIS data to produce data visuals								
Total # of sites that are using raw RHIS data to produce data visuals Total # of sites assessed	X 100							
Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)								
Indicator	Numerator	Denominator	%					

4

16

25%

Table 3D.5 Feedback mechanism in place

Feedback mechanism in place

Indicator: % of facilities confirming receiving feedback on the reported RHIS data from the district or higher level

Total # of facilities confirmed receiving feedback on reported RHIS data from district or higher level X 100 Total # of sites assessed

Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)									
Indicator	Numerator	Denominator	%						
Health facility received feedback reports from the district office/MOH based on RHIS information in the last 3 months	4	16	25%						

3E. Summary of data management indicators

			Central			Regional District				Facility			
Domain	Indicator	Numerator	Denominator	%	Numerator	Denominator	%	Numerator	Denominator	%	Numerator	Denominator	%
Data quality assurance in place	Designated person to review the quality of compiled data prior to submission to the next level	*	*	*	*	*	*	2	12	17%	14	16	88%
	Written guidelines for data review and quality control	*	*	*	*	*	*	1	2	50%	0	16	0%
	Designated staff are trained on data review and quality control	*	*	*	*	*	*	1	2	50%	7	16	44%
	Written guidelines on routine health data quality assessment/assurance	*	*	*	*	*	*	1	2	50%	13	16	81%
	Conducts data quality assessments at health facilities	*	*	*	*	*	*	2	2	100%	7	16	44%
	Uses data quality assessment tools (e.g., lot quality assurance sampling [LQAS], routine data quality assessment [RDQA], in-built electronic data quality validation rules/system)	*	*	*	*	*	*	2	2	100%	4	16	25%
	Maintains a record of health facility data quality assessments conducted in the past 12 months	*	*	*	*	*	*	2	2	100%	1	16	6%
	Maintains a record of feedback to health facilities on data quality assessment findings	*	*	*	*	*	*	2	2	100%	0	0	0%
	Mean score for data quality control standards in place	*	*	*	*	*	*	13	16	81%	46	112	41%

		Central			Regional			District			Facility		
Domain	Indicator	Numerator	Denominator	%	Numerator	Denominator	%	Numerator	Denominator	%	Numerator	Denominator	%
Evidence of data analysis taking place	Data aggregation	*	*	*	*	*	*	2	2	100%	23	112	21%
	Demographic data for catchment area (ce)	*	*	*	*	*	*	2	2	100%	12	16	75%
	Calculate coverage indicators for each catchment area	*	*	*	*	*	*	1	2	50%	2	16	13%
	Comparison by regions	*	*	*	*	*	*	0	2	0%	3	16	19%
	Comparison with regions and central targets	*	*	*	*	*	*	1	2	50%	2	16	13%
	Comparison of data over time	*	*	*	*	*	*	0	2	0%	0	16	0%
	Comparison of sex disaggregation	*	*	*	*	*	*	0	2	0%	3	16	19%
	Comparison of service coverage	*	*	*	*	*	*	0	2	0%	1	16	6%
	Average score for level of data analysis practice	*	*	*	*	*	*	6	16	38%	23	112	21%
	Indicator	Numerator	Denominator	%	Numerator	Denominator	%	Numerator	Denominator	%	Numerator	Denominator	%
Data Visualizati on	Prepares data visuals showing achievements toward targets	*	*	*	*	*	*	2	2	100%	4	16	25%
	Indicator	Numerator	Denominator	%	Numerator	Denominator	%	Numerator	Denominator	%	Numerator	Denominator	%
Feedback mechanis m in place	Sent feedback reports using RHIS information to health facilities in the past 3 months	*	*	*	*	*	*	2	2	100%	4	16	25%

4. RHIS Performance Determinants—Technical Factors

4A. Technical Factors—Central level

Section 4A. Tables: Technical Factors—Central Level

A. RHIS Performance Determinants: Technical Factors—Central Level

Table 4A.1 Existing information system overlaps and distinction

Existing information system overlaps and distinction Indicator: Linkage or overlap of existing RHIS						
Data Source—Module I: Overview Tool						
Indicators	Facility					
Number of different names of reports generated by community/health facility/district	*					
Paper, electronic, or both	*					
Type of electronic tool (e.g., Excel, Access, DHIS2)	*					
Number of different recipients of reports generated by community/health facility/district	*					

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 4A.2 Standardization of RHIS tools-number and type parallel reports

Standardization of RHIS tools						
Indicator: Number and type of parallel reports that are produced at each level of the health system						
Data Source—Module I: Overview Tool						
	Facility					
Number of differer	*					
	Maternal health services—Labour and delivery	*				
	Maternal health services—Operation theatre	*				
	Maternal health services—Postnatal ward	*				
-	Child health services—Postnatal ward	*				
Type of data	Child health services—Kangaroo mother care ward/corner	*				
reported	Child health services—Neonatal inpatient care ward	*				
	Child health services—Special care newborn ward	*				
	Child health services—Intensive care newborn ward	*				
	Other (specify)	*				

Table 4A.3 Standardization of RHIS tools—number and type of report recipient

Indicator: Number and type of report recipient						
Data Source—Module I: Overview Tool						
Indicators	Facility					
	MOH (standardized national HIS tool)	*				
	MOH (program—specific name)	*				
	UN agency (name)	*				
Organization that introduced the report generated by community/health facility/district	Regional/state government	*				
community/nearth facility/district	Other partner/donor (name)	*				
	Locally customized/developed	*				
	Other (specify)	*				
	MOH (standardized national HIS tool)	*				
	MOH (program—specific name)	*				
Organization that introduced the new related date	UN agency (name)	*				
Organization that introduced the paper-based data	Regional/state government	*				
	Other partner/donor (name)	*				
	Locally customized/developed	*				
	MOH (standardized national HIS tool) MOH (program—specific name) UN agency (name) Regional/state government Other partner/donor (name) Locally customized/developed Other (specify) MOH (program—specific name) UN agency (name) MOH (standardized national HIS tool) MOH (program—specific name) UN agency (name) Regional/state government Other partner/donor (name) Locally customized/developed Other specify) MOH (standardized national HIS tool) MOH (program—specific name) UN agency (name) Regional/state government UN agency (name) Regional/state government Other partner/donor (name) Locally customized/developed Other partner/donor (name) Locally customized/developed Other partner/donor (name) Locally customized/developed	*				
	MOH (standardized national HIS tool)	*				
	MOH (program—specific name)	*				
Opposite that introduce data also to via data	UN agency (name)	*				
Organization that introduced the electronic data	Regional/state government	*				
	Other partner/donor (name)	*				
	Locally customized/developed	*				
	Other (specify)	*				
RHIS SOFTWARE FUNCTIONALITY (ONLY FOR CENTRAL LEVEL)

Table 4A.4 eRHIS reporting capability

eRHIS reporting capability

Indicator: eRHIS allows for the tracking of reporting completeness and timeliness

Data Source—Module III:	eRHIS Assessment Tool	
Indicators	Value (0 or 1)	Outcome
RHIS software allows users to determine the number and percentage of monthly reports received of a total number of expected reports	*	*
System allows users to analyze the trend in reporting completeness for a year by facility	*	*
System allows users to determine the number and percentage of reports which were received on time	*	*

Table 4A.5 eRHIS generating a summary report by administrative levels

Indicator: eRHIS generating a summary report by administrative levels				
	Data Source—Moc	lule III: eRHIS Assessme	nt Tool	
Indicators Value (0 or 1) Outcome				
		National	*	*
		Regional	*	*
	Monthly	District	*	*
		Health facility	*	*
		Community-level SPD	*	*
		National	*	*
		Regional	*	*
Quarterly	Quarterly	District	*	*
	Quarterry	Health Facility	*	*
		Community-level SDP	*	*
RHIS Software		National	*	*
reports		Regional	*	*
	Annual	District	*	*
		Health Facility	*	*
		Community-level SDP	*	*
		National	*	*
		Regional	*	*
	Customized reporting period	District	*	*
		Health Facility	*	*
		Community-level SDP	*	*

Table 4A.6 Population estimates and coverage

Population estimates and coverage			
Indicator: eRHIS enables the calculation of service coverage by administrative levels			
Data Source—Module III: eRHIS Assessment Tool			
Indicator Value (0 or 1) Outcome			
	Region	*	*
Level of which DUIC activers has nonvelation	District	*	*
estimates to calculate denominators	Facility	*	*
	Community-level SDP	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 4A.7 System capturing age and sex disaggregated data

System capturing age and sex disaggregated data		
Indicator: eRHIS capturing data disaggregated by age group		
Data Source—Module III: eRHIS Assessment Tool		
Indicator	Value (0 or 1)	Outcome
RHIS software captures data disaggregated by age	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 4A.8 eRHIS capturing data disaggregated by sex

Indicator: eRHIS capturing data disaggregated by sex		
Data Source—Module III: eRHIS Assessment Tool		
Indicator	Value (0 or 1)	Outcome
RHIS software captures data disaggregated by sex	*	*

Table 4A.9 Data integration and interoperability-eRHIS with other systems

Data integration and interoperability			
Indicator: Interoperability of eRHIS with other disease or program-specific parallel systems			
Data Source—Module III: eRHIS Assessment Tool			
Indicator Value (0 or 1) Outcome			
RHIS software interoperates with parallel disease or program-specific software applications in use	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 4A.10 Data integration and interoperability-eRHIS with other systems-details

Indicator: Integration or interoperability of eRHIS with other program specified/parallel electronic information systems			
Data Source—Module III: eRHIS Assessment Tool			
Indicators	Value (0 or 1)	Outcome	
RHIS software has human resources information or integrates with a human resource information system	*	*	
RHIS software has or integrates with logistics information	*	*	
RHIS software has financial information	*	*	
RHIS software has or integrates with integrated disease surveillance and response (IDSR)	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 4A.11 Unique identifiers and master facility list

Unique identifiers and master facility list			
Indicator: Availability of unique facility and district identifiers			
Data Source—Module III: eRHIS Assessment Tool			
Indicator Value (0 or 1) Outcome			
RHIS software uses unique identifiers for districts and regions * *			

Table 4A.12 Unique identifiers and master facility list-eRHIS using geographical coordinates

Indicator: eRHIS using master facility list with geographical coordinates				
Data Source—Module III:	Data Source—Module III: eRHIS Assessment Tool			
Indicator Value (0 o) Outcome				
Health facilities have geographic coordinates attached to them	None	*	*	
	1–25%	*	*	
	26–50%	*	*	
	51–75%	*	*	
	76–100%	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 4A.13 Unique identifiers and master facility list-use by other programs

Indicator: Use of unique facility and district identifiers by other programs				
Data Source—Module III: eRHIS Assessment Tool				
Indicator Value (0 or 1) Outcome				
A framework or agreement is in place such that those unique identifier lists are available for general use y other programs				

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 4A.14 Data analysis—eRHIS generate top causes of morbidity and mortality by administrative levels

<i>Data analysis</i> Indicator: Capability of eRHIS to generate top causes of morbidity and mo levels	ortality by adminis	trative	
Data Source—Module III: eRHIS Assessment 1	lool		
Indicators Value (0 or 1) Outcome			
RHIS software generates the major causes of institution-based (inpatient, emergency) neonatal mortality (preterm, birth asphyxia, sepsis)	*	*	
RHIS software generates the major morbidity diagnoses for inpatient and outpatient services (e.g., top ten diseases: retinopathy, growth faltering, kernicterus, jaundice)	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 4A.15 Data visualization—eRHIS presents data in graphs, charts, and tables

Data visualization Indicator: eRHIS software allows user to present data in	n graphs, charts, a	ind tables	
Data Source—Module III: eR	HIS Assessment	ΓοοΙ	
Indicators Value (0 o) Outcome			
RHIS software generates tabular data arranged in	Indicator 1	*	*
	Indicator 2	*	*
	Indicator 3	*	*
	Indicator 1	*	*
trend graphs	Indicator 2	*	*
	Indicator 3	*	*
RHIS software allows users to visualize data using graphs for comparing facilities/districts/regions	Indicator 1	*	*
	Indicator 2	*	*
	Indicator 3	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 4A.16 Data visualization—eRHIS presents data using thematic maps

Indicator: eRHIS software allows user to visualize data using thematic maps					
Data Source—Module III: eRHIS Assessment Tool					
Indicator Central Outcome					
	Region	*	*		
RHIS software allows users to visualize data using thematic maps	District	*	*		
	Facility	*	*		
	Community-level SDP	*	*		

Central Level RHIS—Software Usability tables

RHIS SOFTWARE USABILITY

Table 4A.17 RHIS reporting capability—track completeness using eRHIS

RHIS reporting capability Indicator: % of staff able to track report completeness using eRHIS						
Total # of staff able to track report comple	eteness using RHIS	X 100				
Total # of sites assessed						
Data Source—Module III: eRHIS Assessment Tool						
Indicator	Numerator	Denominator	%			
User can carry out the following						
function: RHIS software produces a	function: RHIS software produces a					
report on the number and percentage * * *						
report on the number and percentage						
of reports received of the total number						

Table 4A.18 RHIS reporting capability—generate summary reports using eRHIS

Indicator: % of staff demonstrating capacity to generate summary reports using eRHIS Total # of staff demonstrating capacity to generate summary reports using eRHIS Total # of sites assessed X 100								
	Dat	a Source—M	odule III: eRHIS	S Assessment Tool				
	Indicators Numerator Denominator %							
User can	Netional/menional	Monthly	*	*	*			
carry out the	National/regional	Quarterly	*	*	*			
	Summary	Annually	*	*	*			
following		Monthly	*	*	*			
RHIS	District summary	Quarterly	*	*	*			
software		Annually	*	*	*			
generates	Lloolth fooility	Monthly	*	*	*			
summary		Quarterly	*	*	*			
reports for aggregate levels and	Summary	Annually	*	*	*			
		Monthly	*	*	*			
	Community-level	Quarterly	*	*	*			
periods	SDP summary	Annually	*	*	*			

Table 4A.19 Ability to calculate coverage indicators with eRHIS

Ability to calcul Indicator: % of Total # of staff a	late coverage indu staff able to calcu ble to calculate cov	icators late coverage indica	ntors using eRHIS	X 100	
Total # of respon	idents in sites asse	essed	9 01 11 0	_ X 100	
	Da	ta Source—Module I	II: eRHIS Assessme	ent Tool	
	Indicators		Numerator	Denominator	%
		National	*	*	*
		Region	*	*	*
	Indicator 1	District	*	*	*
		Health facility	*	*	*
		Community-level SDP	*	*	*
		National	*	*	*
		Region	*	*	% * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
User can calculate	Indicator 2	District	*	*	
coverage for		Health facility	*	*	*
		Community-level SDP	*	*	*
		National	*	*	*
		Region	*	*	*
	Indicator 3	District	*	*	*
		Health facility	*	*	% * * * * * * * * * * * * * * * * * * * * * * * * * * * *
		Community-level SDP	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 4A.20 Data analysis features eRHIS used

Data analysis						
Indicator: % of staff demonstrating the use of data analysis features of the eRHIS						
Total # of staff demonstrating the use of data anal	ysis features of the eRH	IIS	X 100			
Total # of respondents in sites assessed			X 100			
Data Source—	Module III: eRHIS Ass	essment Tool				
Indicators	Numerator	Denominator	%			
User can generate major causes of institution-						
based (in-patient, emergency) mortality (e.g.,	*	*	*			
preterm birth, birth asphyxia, sepsis)						
User can generate major morbidity diagnoses						
for inpatient and outpatient services (e.g., top * * *						
ten diseases)? (e.g., retinopathy, growth						
faltering, kernicterus, jaundice)						

Table 4A.21 Data visualization—eRHIS present data in graphs and maps

Data visualiz Indicator: % and maps	ation of staff able to use	the data visualization	features of the eR	HIS to analyze and pr	esent data in graphs
Total # of staf	f able to use data vi	sualization features to a	analyze and present	data X 100	
Total # of site:	s assessed			7,100	
		Data Source—Module	e III: eRHIS Assess	ment Tool	
	Indicators		Numerator	Denominator	%
		Time trend graphs	*	*	*
Indicator	Indicator 1	Bar graphs for comparing facilities, districts, or regions	*	*	*
		Thematic maps, by region, district, or health facility	*	*	*
generate		Time trend graphs	*	*	*
	Indicator 2	Bar graphs for comparing facilities, districts, or regions	cts, * *	*	
		Thematic maps, by region, district, or health facility	*	*	*

4B. Technical Factors—Regional level

Section 4B. Tables: Technical Factors—Regional Level

B. RHIS Performance Determinants: Technical Factors- Regional Level

Table 4B.1 Existing information system overlaps and distinction

RHIS Performance Determinants: Technical Factors Existing information system overlaps and distinction Indicator: Linkage or overlap of existing RHIS	
Data Source—Module I: Overview Tool	
Indicators	Facility
Number of different names of reports generated by community/health facility/district	*
Paper, electronic, or both	*
Type of electronic tool (e.g., Excel, Access, DHIS2)	*
Number of different recipients of reports generated by community/health facility/district	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 4B.2 Standardization of RHIS tools-number and type parallel reports

Standardization of RHIS tools

Indicator: Number and type of parallel reports that are produced at each level of the health system							
	Data Source—Module I: Overview Tool						
	Indicators	Facility					
Number of different names of rep	Number of different names of reports generated by community/health facility/district *						
	Maternal health services—Labour and delivery	*					
	Maternal health services—Operation theatre	*					
	Maternal health services—Postnatal ward	*					
	Child health services—Postnatal ward	*					
Type of data reported	Child health services—Kangaroo mother care ward/corner	*					
	Child health services—Neonatal inpatient care ward	*					
	Child health services—Special care newborn ward	*					
	Child health services—Intensive care newborn ward	*					
	Other (specify)	*					

Indicator: Number and type of report recipient					
Data Source—Module I: Overview Tool					
	Indicators	Facility			
	MOH (standardized national HIS tool)	*			
	MOH (program—specific name)	*			
Organization that introduced	UN agency (name)	*			
the report generated by community/health facility/	Regional/state government	*			
district	Other partner/donor (name)	*			
	Locally customized/developed	*			
	Other (specify)	*			
	MOH (standardized national HIS tool)	*			
	MOH (program—specific name)	*			
Organization that introduced	UN agency (name)	*			
the paper-based data	Regional/state government	*			
recording tools	Other partner/donor (name)	*			
	Locally customized/developed	*			
	Other (specify)	*			
	MOH (standardized national HIS tool)	*			
	MOH (program—specific name)	*			
Organization that introduced	UN agency (name)	*			
the electronic data recording	Regional/state government	*			
toois	Other partner/donor (name)	*			
	Locally customized/developed	*			
	Other (specify)	*			

Table 4B.3 Standardization of RHIS tools-number and type of report recipient

Table 4B.4 RHIS reporting capability—track completeness using eRHIS

RHIS reporting capability

Indicator: % of staff able to track report completeness using eRHIS

Total # of staff able to track report completeness using RHIS X 100

Total # of sites assessed

Data Source—Module III: eRHIS Assessment Tool

Indicator	Numerator	Denominator
User can carry out the following function: RHIS software produces a report on the number and percentage of reports received of the total number of expected reports	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 4B.5 RHIS reporting capability—generate summary reports using eRHIS

Indicator: % of staff demonstrating capacity to generate summary reports using eRHIS Total # of staff demonstrating capacity to generate summary reports using eRHIS Total # of respondents X 100								
	Data Source—Module III: eRHIS Assessment Tool							
	Indicators		Numerator	Denominator	%			
		Monthly	*	*	*			
	Region summary	Quarterly	*	*	*			
User can carry		Annually	*	*				
function: RHIS		Monthly	*	*	*			
generates	Health facility summary	Quarterly	*	*	*			
summary reports for aggregate levels and time periods	,	Annually	*	*	*			
		Monthly	*	*	*			
	Community-level SDP summary	Quarterly	*	*	*			
		Annually	*	*	*			

Table 4B.6 Ability to calculate coverage indicators with eRHIS

Ability to calculate coverage indicators

Indicator: % of staff able to calculate coverage indicators using eRHIS

Total # of staff able to calculate coverage indicators using eRHIS

Total # of sites assessed

X 100

Data Source—Module III: eRHIS Assessment Tool

			-		
				Region	
	Indicators		Numerator	Denominator	%
		National	*	*	*
		Region	*	*	*
	Indicator 1	Region	*	*	*
		Health facility	*	*	*
		Community-level SDP	*	*	*
	Nationa	National	*	*	*
User can		Region	*	*	*
calculate coverage for	Indicator 2	Region	*	*	*
-		Health facility	*	*	*
		Community-level SDP	*	*	*
		National	*	*	*
		Region	*	*	*
	Indicator 3	Region	*	*	*
		Health facility	*	*	* * * * * * * * * * * * *
		Community-level SDP	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 4B.7 Data analysis features eRHIS used

Data analysis						
Indicator: % of staff demonstrating the use of data analysis features of the eRHIS						
Total # of staff demonstrating the use of data analysis features of the eRHIS X 100						
Data Source—Module III: eRHIS Assessment Tool						
Indicators	Numerator	Denominator	%			
User can generate major causes of institution-based (in- patient, emergency) mortality (e.g., preterm birth, birth asphyxia, sepsis)	*	*	*			
User can generate major morbidity diagnoses for inpatient and outpatient services (e.g., top ten diseases)? (e.g., retinopathy, growth faltering, kernicterus, jaundice)	*	*	*			

Table 4B.8 Data visualization—eRHIS present data in graphs and maps

Data visualization Indicator: % of staff able to use the data visualization features of the eRHIS to analyze and present data in graphs and maps							
	Indicators		Numerator	Denominator	%		
Indicator ·		Time trend graphs	*	*	*		
	Indicator 1	Bar graphs for comparing facilities, regions, or regions	*	*	*		
User can		Thematic maps, by region, region, or health facility	*	*	*		
generate		Time trend graphs	*	*	*		
	Indicator 2 Indicator 2 Indica	*	*	*			
		Thematic maps, by region, region, or health facility	*	*	*		

4C. Technical Factors—District level

Section 4C. Tables: Technical Factors—District Level

C. RHIS Performance Determinants: Technical Factors- District Level

Table 4C.1 Existing information system overlaps and distinction

I. RHIS Performance Determinants: Technical Factors Existing information system overlaps and distinction

Indicator: Linkage or overlap of existing RHIS

Data Source—Module I: Overview Tool					
Indicators Value					
Number of different names of reports generated by community/health facility/district	*				
Paper, electronic, or both	*				
Type of electronic tool (e.g., Excel, Access, DHIS2)	*				
Number of different recipients of reports generated by community/health facility/district	*				

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 4C.2 Standardization of RHIS tools—number and type parallel reports

Standardization of RHIS tools								
Indicator: Number and type of parallel reports	Indicator: Number and type of parallel reports that are produced at each level of the health system							
Data Sour	ce—Module I: Overview Tool							
In	dicators	District						
Number of different names of reports generated by community/health facility/district								
	Maternal health services—Labour and delivery	*						
	Maternal health services—Operation theatre	*						
	Maternal health services—Postnatal ward	*						
	Child health services—Postnatal ward	*						
Type of data reported	Child health services—Kangaroo mother care	*						
Type of data reported	ward/corner							
	Child health services—Neonatal inpatient care ward	*						
	Child health services—Special care newborn ward	*						
	Child health services—Intensive care newborn ward	*						
	Other (specify)	*						

Indicator: Number and type of report recipie	ent				
Data So	ource—Module I: Overview Tool				
Indicators Facility					
	MOH (standardized national HIS tool)	*			
	MOH (program—specific name)	*			
Organization that introduced the report	UN agency (name)	*			
generated by community/ health facility/ district	Regional/state government	*			
	Other partner/donor (name)	*			
	Locally customized/developed	*			
	Other (specify)	*			
	MOH (standardized national HIS tool)	*			
	MOH (program—specific name)	*			
	UN agency (name)	*			
Organization that introduced the paper-	Regional/state government	*			
based data recording tools	Other partner/donor (name)	*			
	Locally customized/developed	*			
	Other (specify)	*			
	MOH (standardized national HIS tool)	*			
	MOH (program—specific name)	*			
Organization that introduced the electronic data recording tools	UN agency (name)	*			
	Regional/state government	*			
	Other partner/donor (name)	*			
	Locally customized/developed	*			
	Other (specify)	*			

Table 4C.3 Standardization of	RHIS tools-	-number and	type of re	port reci	pient

Table 4C.4 RHIS reporting capability—track completeness using eRHIS

RHIS reporting capability Indicator: % of staff able to track report completeness using eRHIS Total # of staff able to track report completeness using RHIS						
Total # of sites assessed		X 100				
Data Source—Module III: eRHIS Assessment Tool						
Indicator	Numerator	Denominator	%			
User can carry out the following function: RHIS software produces a report on the number and percentage of reports received out of the total number of expected reports	2	2	100%			

Table 4C.5 RHIS reporting capability—generate summary reports using eRHIS

Г

Indicator: % of staff demonstrating capacity to generate summary reports using eRHIS Total # of staff demonstrating capacity to generate summary reports using eRHIS Total # of respondents X 100						
	Data	Source—Module III	: eRHIS Assessmen	t Tool		
Indicators Numerator Denominator %						
User can carry		Monthly	2	2	100%	
out the	District summary	Quarterly	2	2	100%	
function: RHIS		Annually	2	2	100%	
software		Monthly	2	2	100%	
generates	Health facility	Quarterly	2	2	100%	
summary	Summary	Annually	2	2	100%	
reports for		Monthly	0	2	0%	
and time	Community-level	Quarterly	0	2	0%	
periods	Summary	Annually	0	2	0%	

Table 4C.6 Ability to calculate coverage indicators with eRHIS

Ability to calculate coverage indicators

Indicator: % of staff able to calculate coverage indicators using eRHIS

Total # of staff able to calculate coverage indicators using eRHIS Total # of sites assessed X 100

Data Source—Module III: eRHIS Assessment Tool					
				District	
	Indicators		Numerator	Denominator	%
		National	0	2	0%
		Region	0	2	0%
	Indicator 1	District	0	2	0%
		Health facility	0	2	0%
		Community-level SDP	0	2	0%
		National	1	2	50%
lisor con		Region	1	2	50%
	Indicator 2	District	1	2	50%
coverage for		Health facility	0	2	0%
coverage for		Community-level SDP	0	2	0%
		National	0	2	0%
		Region	0	2	0%
	Indicator 3	District	1	2	50%
		Health facility	0	2	0%
		Community-level SDP	0	2	0%

Table 4C.7 Data analysis features eRHIS used

Data analysis Indicator: % of staff demonstrating the use of data analysis features of the eRHIS Total # of staff demonstrating the use of data analysis features of the eRHIS						
Total # OF Sites assessed		X 100				
Data Source—Module III: eRHIS Assessment Tool						
Indicators	%					
User can generate major causes of institution- based (inpatient, emergency) mortality (e.g., preterm birth, birth asphyxia, sepsis)	2	2	100%			
User can generate major morbidity diagnoses for inpatient and outpatient services (e.g., top ten diseases)	2	2	100%			

Table 4C.8 Data visualization—eRHIS present data in graphs and maps

Data visualization

Indicator: % of staff able to use the data visualization features of the eRHIS to analyze and present data in graphs and maps

Total # of staff able to use data visualization features to analyze and present data X 100 Total # of sites assessed

Data Source—Module III: eRHIS Assessment Tool					
	Indicato	rs	Numerator	Denominator	%
User can	Jser can generate Indicator 2	Time trend graphs	0	2	0%
		Bar graphs for comparing facilities, districts, or regions	0	2	0%
		Thematic maps, by region, district, or health facility	0	2	0%
generate		Time trend graphs	0	2	0%
		Bar graphs for comparing facilities, districts, or regions	0	2	0%
		Thematic maps, by region, district, or health facility	0	2	0%

4D. Technical Factors—Facility level

Section 4D. Tables: Technical Factors—Facility Level

D. RHIS Performance Determinants: Technical Factors—Facility Level

Table 4D.1 Existing information system overlaps and distinction

Existing information system overlaps and distinction

Indicator: Linkage or overlap of existing RHIS

Data Source—Module I: Overview Tool				
Indicators	Value			
Number of different names of reports generated by community/health facility/district	34			
Paper, electronic, or both	34			
Type of electronic tool (e.g., Excel, Access, DHIS2)	19			
Number of different recipients of reports generated by community/health facility/district	33			

Table 4D.2 Standardization of RHIS tools—number and type parallel reports

Standardization of RHIS tools										
Indicator: Number and type of parallel reports that are produced at each level of the health system										
Data Source—Module I: Overview Tool										
Indicators Facility										
Number of different names of reports generated by community/health facility/district										
	Maternal health services—Labour and delivery	17								
	Maternal health services—Operation theatre	0								
	Maternal health services—Postnatal ward	16								
	Child health services—Postnatal ward	15								
Type of data reported	Child health services—Kangaroo mother care ward/corner	0								
	Child health services—Neonatal inpatient care ward	1								
	Child health services—Special care newborn ward	1								
	Child health services—Intensive care newborn ward	1								
	Other (specify)	0								

Indicator: Number and type of report	recipient							
Data Source—Module I: Overview Tool								
Indicators								
	MOH (standardized national HIS tool)	0						
	MOH (program—specific name)	0						
Organization that introduced the	UN agency (name)	0						
report generated by community/	Regional/state government	0						
health facility/ district	Other partner/donor (name)	0						
	Locally customized/developed	2						
	Other (specify)	0						
	MOH (standardized national HIS tool)	92						
	MOH (program—specific name)	0						
Organization that introduced the	UN agency (name)	0						
Diganization that introduced the	Regional/state government	0						
paper-based data recording tools	Other partner/donor (name)	0						
	Locally customized/developed	82						
	Other (specify)	1						
	MOH (standardized national HIS tool)	11						
	MOH (program—specific name)	0						
Organization that introduced the	UN agency (name)	0						
oloctronic data recording tools	Regional/state government	0						
electronic data recording tools	Other partner/donor (name)	0						
	Locally customized/developed	0						
	Other (specify)	0						

Table 4D.4 RHIS reporting capability—Track completeness using eRHIS

Ē

RHIS reporting capability Indicator: % of staff able to track report completeness using electronic RHIS (eRHIS) Total # of staff able to track report completeness using RHIS Total # of sites assessed										
Data Source—Module III: eRHIS Assessment Tool										
User can carry out the following function: RHIS software produces a report on the number and percentage of reports received of the total number of expected reports	7	8	88%							

Table 4D.5 RHIS reporting capability—Generate summary reports using eRHIS

Indicator: % of staff demonstrating capacity to generate summary reports using eRHIS								
Total # of staff demonstrating capacity to generate summary reports using eRHIS	_							
Total # of respondents	X 100							

Data Source—Module III: eRHIS Assessment Tool											
	Indicators		Numer	Denominator	%						
		Monthly	8	8	100%						
User can carry out the following	Health facility summary	Quarterly	8	8	100%						
function: RHIS software		Annually	8	8	100%						
summary reports	Community-level SDP summary	Monthly	0	8	0%						
levels and periods		Quarterly	0	8	0%						
		Annually	0	8	0%						

Table 4D.6 Ability to calculate coverage indicators with eRHIS

 Ability to calculate coverage indicators

 Indicator: % of staff able to calculate coverage indicators using eRHIS

 Total # of staff able to calculate coverage indicators using eRHIS

 Total # of sites assessed

Data Source—Module III: eRHIS Assessment Tool											
	Indicators		Numerato	Denominator	%						
		Health facility	5	8	63%						
	Indicator 1	Community-level SDP	0	8	0%						
User can	Indicator 2	Health facility	5	8	63%						
calculate coverage for		Community-level SDP	0	8	0%						
	Indiantan 2	Health facility	5	8	63%						
	indicator 3	Community-level SDP	0	8	0%						

Table 4D.7 Data analysis features used

Data analysis Indicator: % of staff demonstrating the use of o Total # of staff demonstrating the use of data analy	of the eRHIS S	- X 400								
Total # of sites assessed		X 100								
Data Source—Module III: eRHIS Assessment Tool										
Indicators	Numerator	Denominator	%							
User can generate major causes of institution- based mortality	4	8	50%							
User can generate major morbidity diagnoses for inpatient and outpatient services	4	8	50%							

Table 4D.8 Data visualization—eRHIS present data in graphs and maps

Data visualization

Indicator: % of staff able to use the data visualization features of the eRHIS to analyze and present data in graphs and maps

Total # of staff able to use data visualization features to analyze and present data Total # of sites assessed

- X 100

		Data Source—Module III: eF	RHIS Assessment Te	ool	
	In	dicators	Numerato	Denominator	%
		Time trend graphs	4	8	50%
	Indicator 1	Bar graphs for comparing facilities, districts, or regions	3	8	38%
User can		Thematic maps, by region, district, or health facility	1	8	13%
generate	Indicator 2	Time trend graphs	4	8	50%
		Bar graphs for comparing facilities, districts, or regions	3	8	38%
		Thematic maps, by region, district, or health facility	1	8	13%

4E. Summary Table for technical factors

			С	entral	R	egional	District		Facility	
Domain	Ir	ndicator	Number		Number		Number		Number	
Existing informatio n system overlaps and	Linkage or overlap of existing RHIS	Number of different names of reports generated by community/health facility/district	*		*		0		34	
distinction		Paper, electronic, or both	*		*		0		34	
		Type of electronic tool (e.g., Excel, Access, DHIS2)			*		0		19	
		Number of different recipients of reports generated by community/health facility/district	*		*		0		33	
Standardiz ation of RHIS tools	Number and type of parallel reports that are produced at each level of the health system	Number of different names of reports generated by community/health facility/district	*		*		0		34	

			Central			Regional			District			Facility		
Domain	Indic	ator	Numerator	Denom nator	%	Numerator	Denoi nator	%	Numerator	Denom nator	%	Numerator	Denom nator	%
RHIS reporting capability	% of staff able completeness u RHIS (e	to track report sing electronic RHIS)	*	*	*	*	*	*	2	2	100%	7	8	88%
	% of staff demonstrating capacity to	Region summary— monthly	*	*	*	*	*	*						
	generate sum- mary reports using eRHIS	Region summary— quarterly	*	*	*	*	*	*						
		Region summary— annually	*	*	*	*	*	*						
		District summary— monthly	*	*	*				2	2	100%			
		District summary— quarterly	*	*	*				2	2	100%			
		District summary— annually	*	*	*				2	2	100%			
		Health facility summary— monthly	*	*	*	*	*	*	2	2	100%	8	8	100%
		Health facility summary— quarterly	*	*	*	*	*	*	2	2	100%	8	8	100%
		Health facility summary— annually	*	*	*	*	*	*	2	2	100%	8	8	100%

				Central			Regional			District			Facility	
Domain	Indica	ator	Numerator	Denoi nator	%	Numerator	Denom nator	%	Numerator	Denom nator	%	Numerator	Denominator	%
Ability to	% of staff able	National	*	*	*	*	*	*	0	2	0%			
calculate	to calculate	coverage—												
indicators	indicators using	Regional	*	*	*	*	*	*	0	2	0%			
maloutoro	eRHIS	coverage-							Ŭ	2	070			
		indicator 1												
		District	*	*	*	*	*	*	0	2	0%			
		coverage-												
		indicator 1				+								
		Health facility	*	*	*	*	*	*	0	2	0%	5	8	63%
		indicator 1												
		National	*	*	*	*	*	*	0	2	0%			
		coverage-							Ŭ	-	0,10			
		indicator 2												
		Regional	*	*	*	*	*	*	1	2	50%			
		coverage												
		indicator 2	*		*	*		*			500/			
		District	*	*	*	*	*	*	1	2	50%			
		indicator 2												
		Health facility	*	*	*	*	*	*	1	2	50%	5	8	63%
		coverage-								-	0070	Ŭ	Ŭ	0070
		indicator 2												
		National	*	*	*	*	*	*	0	2	0%			
		coverage-												
		Indicator 3	*	*	*	*	*	*	0	0	00/			
		Regional					-	-	0	2	0%			
		indicator 3												
		District	*	*	*	*	*	*	0	2	0%			
		coverage-							-					
		indicator 3												
		Health facility	*	*	*	*	*	*	0	2	0%	5	8	63%
		coverage-												
Data	% of stoff	Indicator 3	*	*	*	*	*	*	2	2	100%	4	0	50%
analysis	76 OF Stati	generate							2	2	100%	4	0	50%
anaryois	the use of data	major causes												
	analysis	of institution-												
	features of the	based												
	eRHIS	mortality												

				Central			Regional		District		Facility			
Domain	Indic	ator	Numerator	Denominator	%	Numerator	Denominator	%	Numerator	Denominator	%	Numerator	Denominator	%
		User can generate major morbidity diagnoses for inpatient and outpatient services	*	*	*	*	*	*	2	2	100%	4	8	50%
Data visualizati on	% of staff able to use the data visualization	Time trend graphs— Indicator 1	*	*	*	*	*	*	0	2	0%	4	8	50%
	features of the eRHIS to analyze and present data in graphs and maps	Bar graphs for comparing facilities, districts, or regions— Indicator 1	*	*	*	*	*	*	0	2	0%	3	8	38%
		Thematic maps, by region, district, or health facility— Indicator 1	*	*	*	*	*	*	0	2	0%	1	8	13%
		Time trend graphs— Indicator 2	*	*	*	*	*	*	0	2	0%	4	8	50%
		Bar graphs for comparing facilities, districts, or regions— Indicator 2	*	*	*	*	*	*	0	2	0%	3	8	38%

			Central			Regional			District			Facility	
Domain	Indicator	Numerator	Denom nator	%	Numerator	Denom nator	%	Numerator	Denom nator	%	Numerator	Denom nator	%
	Thematic maps, by region, district, or health facility— Indicator 2	*	*	*	*	*	*	0	2	0%	1	8	13%

5. RHIS Performance Determinants—Organizational Factors

5A. Organizational Factors—Central level

Section 5A. Tables: Organizational Factors—Central Level

A. RHIS Performance Determinants: Organizational Factors—Central Level

Table 5A.1 RHIS Governance—Structures

RHIS governance

Indicator: Good RHIS governance structures in place

Total # of sites with good RHIS governance structures in place X 100 Total # of sites assessed (=1)

Data Source—Module IV: MAT					
Indicators	Numerator	Denominator	%		
Has a written document describing the RHIS mission, roles, and responsibilities that are related to strategic and policy decisions at central and higher levels	*	*	*		
Has current health service organizational and staff charts showing positions related to health information	*	*	*		
Has overall framework and plan for information and communication technology (ICT), (e.g., describing the required equipment and plans for training in the use of ICT for RHIS)	*	*	*		
Office maintains documentation of the dissemination of the RHIS monthly/ quarterly reports to the various health program staff at the central level, the community, local administration, NGOs, etc.	*	*	*		

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.2 RHIS Governance—Data management guidelines

Indicator: Existence of RHIS data management guidelines	
Total # of sites with RHIS data management guidelines	X 100
Total # of sites assessed (=1)	× 100

Data Source—Module IV: MAT						
Indicators	Numerator	Denominator	%			
Has written SOPs and procedural guidelines for RHIS with data definition, data collection and reporting, data aggregation, processing, and transmission, data analysis, dissemination and use, data quality assurance, MFL, ICD classification, data security, and performance improvement process (Completely)	*	*	*			
Has written SOPs and procedural guidelines for RHIS with data definition, data collection and reporting, data aggregation, processing, and transmission, data analysis, dissemination and use, data quality assurance, MFL, ICD classification, data security, and performance improvement process (Partially)	*	*	*			

Table 5A.3 RHIS planning—national documents

RHIS planning

Indicator: % of sites with copies of national HIS documents

Total # of sites with copies of national HIS documents Total # of sites assessed (=1)

Data Source—Module IV: MAT						
Indicators	Numerator	Denominator	%			
Has a copy of the national HIS situation analysis/assessment report that is less than three years old	*	*	*			
Has a copy of the national three or five-year HIS strategic plan	*	*	*			

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.4 Use of quality improvement standards

Use of quality improvement standards

Indicator: % of Centrals that have RHIS quality improvement standards

RHIS quality improvement standards X 100 Total # of sites assessed (=1)

Data Source—Module IV: MAT						
Indicator	Numerator	Denominator	%			
Has set RHIS performance targets RHIS performance targets for data accuracy for their respective administrative areas	*	*	*			
Has set RHIS performance targets RHIS performance targets for data completeness for their respective administrative areas	*	*	*			
Has set RHIS performance targets RHIS performance targets for data timeliness for their respective administrative areas	*	*	*			

Table 5A.5 Supervision quality

Supervision quality

Indicator: Existence effective supportive supervision practices /tools availability to improve RHIS performance

 Total # of sites with documents related to supervision
 X 100

 Total # of sites assessed (=1)
 X 100

Data Source—Module IV: MAT						
		Central				
Indicators	Numerator	Denominator	%			
Office has copies of RHIS supervisory guidelines and checklists	*	*	*			
Office maintains a schedule for RHIS supervisory visits	*	*	*			
Office has copies of the reports from RHIS supervisory visits conducted during the current fiscal year	*	*	*			
HFa that received a supervisory visit have copies of the report from latest supervisory visit and commonly agreed action points are listed	*	*	*			

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.6 Financial resources to support RHIS activities

Financial resources to support RHIS activities

Indicator: Existence of financial resource allocation for RHIS activities

Existence of financial resource allocation at central level for RHIS activities

Total # of sites assessed (=1)

Data Source—Module IV: MAT						
	Central					
Indicator	Numerator	Denominator	%			
Office has a copy of the long-term financial plan for supporting RHIS activities	*	*	*			

* not collected during this EN-MINI-PRISM Tools pilot assessment

- X 100

Table 5A.7 Infrastructure for RHIS data management

Infrastructure for RHIS data management	
Indicator: Existence of Internet connectivity at the central level	
Existence of Internet connectivity at the central level Total # of sites assessed (=1)	—— X 100

Data Source—Module V: Facility/Office Checklist						
Indicator	Numerator Denominator		%			
Access to an Internet network	*	*	*			

Table 5A.8 RHIS supplies for data collection and aggregation—total recording and reporting forms

RHIS supplies for data collection and aggregation

Indicator: Existence of adequate supply of RHIS recording/ reporting forms at the central level

Availability of RHIS recording/ reporting forms at central level X 100

Total # of sites assessed (=1)

Data Source: Module 5. Facility/Office Checklist							
Tool Availability	Tools ID	Numerator	Denominator	%			
Maternal health services							
Maternal health services—Labour and delivery printed register	5.1	*	*	*			
Maternal health services—Operation theatre printed register	5.2	*	*	*			
Maternal health services—Postnatal ward printed register	5.3	*	*	*			
Maternal health services—Printed death register	5.4	*	*	*			
Child health services							
Child health services—Postnatal ward printed register	6.1	*	*	*			
Child health services—Kangaroo mother care ward/corner printed register	6.2	*	*	*			
Child health services—Neonatal inpatient care ward printed register	6.3	*	*	*			
Child health services—Special care newborn ward printed register	6.4	*	*	*			
Child health services—Intensive care newborn ward printed register	6.5	*	*	*			
Child health services—Printed death register	6.6	*	*	*			

Table 5A.9 RHIS supplies for data collection and aggregation—standard recording and reporting forms

Indicator: % of sites with an adequate supply of standard RHIS recording and reporting forms

Total # of standard RHIS tools available at central level office

Total # of sites assessed (=1)

X100

Data Source: Module 5. Facility/Office Checklist						
Standard RHIS tool	Tools ID	Numerator	Denominator	%		
Maternal health services						
Maternal health services—Labour and delivery printed register	5.1	*	*	*		
Maternal health services—Operation theatre printed register	5.2	*	*	*		
Maternal health services—Postnatal ward printed register	5.3	*	*	*		
Maternal health services—Printed death register	5.4	*	*	*		
Child health services						
Child health services—Postnatal ward printed register	6.1	*	*	*		
Child health services—Kangaroo mother care ward/corner printed register	6.2	*	*	*		
Child health services—Neonatal inpatient care ward printed register	6.3	*	*	*		
Child health services—Special care newborn ward printed register	6.4	*	*	*		
Child health services—Intensive care newborn ward printed register	6.5	*	*	*		
Child health services—Printed death register	6.6	*	*	*		

Table 5A.10 Facilities or offices with no stock-outs of recording and reporting tools within the past six months

Indicator: % of facilities or offices with no stock-outs of recording and reporting tools within the past six months	
Total # of offices that experienced stockouts in last 6 months	X 100
Total # of offices assessed	_

Data Source: Module 5. Facility/Office Checklist						
Stockout	Tools ID	Numerator	Denominator	%		
Maternal health services						
Maternal health services—Labour and delivery printed register	5.1	*	*	*		
Maternal health services—Operation theatre printed register	5.2	*	*	*		
Maternal health services—Postnatal ward printed register	5.3	*	*	*		
Maternal health services—Printed death register	5.4	*	*	*		
Child health services						
Child health services—Postnatal ward printed register	6.1	*	*	*		
Child health services—Kangaroo mother care ward/corner printed register	6.2	*	*	*		
Child health services—Neonatal inpatient care ward printed register	6.3	*	*	*		
Child health services—Special care newborn ward printed register	6.4	*	*	*		
Child health services—Intensive care newborn ward printed register	6.5	*	*	*		
Child health services—Printed death register	6.6	*	*	*		

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.11 Availability of staff-designated to compile and analyze data

Availability of staff to compile and analyze data			
Indicator: Existence of designated staff responsible for compiling reports at the central level			
Existence of designated staff responsible for report compiling 1	_ X 100		

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Central Level)				
Indicator	Numerator	Denominator	%	
Central level has a designated person responsible for entering data/compiling reports from health facilities	*	*	*	
Table 5A.12 Availability of staff-designated for internal data quality review

Indicator: Existence of designated staff for internal data quality review at the central level	
Existence of designated staff for internal data quality review at the central level	
Total # of sites assessed (=1)	X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Central Level)							
Indicator	Numerator	Denominator	%				
Central level has a designated person to review the quality of compiled data prior to submission to the next level (Yes)	*	*	*				
Central level has a designated person to review the quality of compiled data prior to submission to the next level (Partially)	*	*	*				

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.13 Availability of staff—designated for data analysis and dissemination

Indicator: Existence of designated staff for data analysis and dissemination at the central level					
Total # of sites that have designated staff for data analysis and dissemination	X 100				
Total # of sites assessed	X 100				

	Data Source—Module V: Facility/Office Checklist										
Staf f Cod e	Title	Responsible for data compilation of reports submitted that are coming from the lower levels			Respons the qu submitte	Responsible for checking the quality of reports submitted from the lower levels			Responsible for data analysis (producing comparison tables, graphs, dashboards)		
		Numera	Denomina	Rati	Numera	Denomina	Rati	Numera	Denomina	Rati	
		tor	tor	0	tor	tor	0	tor	tor	0	
1	Head of central health office	*	*	*	*	*	*	*	*	*	
2	Program officer	*	*	*	*	*	*	*	*	*	
3	Disease surveilla nce officer	*	*	*	*	*	*	*	*	*	
4	M&E/HM IS officer	*	*	*	*	*	*	*	*	*	
5	Data clerk	*	*	*	*	*	*	*	*	*	
96	Other (specify)	*	*	*	*	*	*	*	*	*	
Any c	designated staff	0	*	*	*	*	*	*	*	*	

Table 5A.14 Ratio designated staff for data analysis and dissemination per site

Any designated staff							
Variables		Numerator	Denominaor	Ratio			
Responsible for data compilation of reports submitted that are coming from the lower levels	Any designated staff	*	*	*			
Responsible for checking the quality of reports from the lower level	Any designated staff	*	*	*			
Responsible for data analysis	Any designated staff	*	*	*			

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.15 RHIS capacity development—plan

RHIS capacity development	
Indicator: Existence of staff capacity development plan at the central level	
Existence of staff capacity development plan at the central level (=1 if yes)	¥ 400
Total # of sites assessed (=1)	X 100

Data Source—Module IV: MAT							
Indicator	Numerator	Denominator	%				
Has a costed training and capacity development plan that has benchmarks, timelines, and mechanism for on-the-job RHIS training, RHIS workshops, and orientation for new staff	*	*	*				

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.16 RHIS capacity development—RHIS training

Indicator: % of staff who have received RHIS training (among those who are responsible for perfo	orming various
RHIS tasks)	
Total # of staff who have received RHIS training	

Total # of staff who are responsible for RHIS tasks (one of three denominators possible)

X 100

	Data Source—Module V: Facility/Office Checklist (Central)								
Staff Code	Staff	Numerator	Among tho responsible fo compilation of r from the lower	se r data reports levels	Among tho responsible checking the qu reports from th levels	ese for lality of e lower	Among those responsible for data analysis (producing comparison tables, graphs, dashboards)		
			Denominator	%	Denominator	%	Denominator	%	
1	Head of central health office	*	*	*	*	*	*	*	

2	Program officer	*	*	*	*	*	*	*
3	Disease surveillance officer	*	*	*	*	*	*	*
4	M&E/HMIS officer	*	*	*	*	*	*	*
5	Data clerk	*	*	*	*	*	*	*
96	Other (specify)	*	*	*	*	*	*	*

Table 5A.17 RHIS capacity development—received training by type

Indicator: % of staff who have received training, by type of training

Total # of staff receiving training by type of training	X 100
Total # of staff who are responsible for RHIS tasks (one of three denominators possible)	

	Data Source—Module V: Facility/Office Checklist Central										
Variables		Responsible of reports f	e for data comp rom the lower	oilation levels	Responsible for checking the quality of reports from the lower level			Responsible for data analysis			
		Numerator	Denominato	%	Numerator	Denominator	%	Numerator	Denominator	%	
Subject of last training	Data entry	*	*	*	*	*	*	*	*	*	
	Check and verify quality of data	*	*	*	*	*	*	*	*	*	
	Generating aggregate reports	*	*	*	*	*	*	*	*	*	
	Data analysis and interpretation	*	*	*	*	*	*	*	*	*	
	Using data for decision making	*	*	*	*	*	*	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.18 Commitment and support for high-quality data

Commitment and support for high-quality data

Indicator: Mean score of respondents who perceive that the organization gives due emphasis to data quality

Sum of 3 respondent scores on perceived organizational emphasis on data quality X 100 (Total # of respondents x 5) x 3

5 being the highest possible score on every answer.

3 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions S2, S6, and S8.

Data Source—Module VI: OBAT			
	Central		
Indicator	Numerator	Denominator	%
Respondent perceives that the organization gives due emphasis to data quality	*	*	*

Table 5A.19 Commitment and support of information use

Commitment and support of information use	
Indicator: Mean score of respondents who perceive that the organization supports	s information use
Sum of 4 respondent scores on perceived organizational support of information use	
(Total # of respondents x 5) x 4	
	X 100
5 being the highest possible score on every answer.	
4 being the number of questions asked to calculate this specific indicator.	

We assume that the same number of people answered questions S4, S7, P5, and P8.

Data Source—Module VI: OBAT			
Central			
Indicator	Numerator	Denominator	%
Respondent perceives that the			
organization supports	*	*	*
information use			

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.20 Evidence-based decision making

 Evidence-based decision making

 Indicator: Mean score of respondents who perceive that the organization promotes a culture of evidence-based decision making

 Sum of 9 respondent scores on perceived organizational culture of evidence-based decision making

 (Total # of respondents x 5) x 9

 5 being the highest possible score on every answer.

 9 being the number of questions asked to calculate this specific indicator.

 We assume that the same number of people answered questions D1 through D9.

Data Source—Module IV: OBAT			
Central			
Indicator	Numerator	Denominator	%
Respondent perceives the organization as promoting a culture of evidence-based decision making	*	*	*

Table 5A.21 Promotion of problem solving

Promotion of problem solving

Indicator: Mean score of respondents who perceive that the organization promotes a culture of problem solving

Sum of 4 respondent scores on perceived organizational promotion of a problem-solving culture

Total # of respondents x 5 x 4

5 being the highest possible score on every answer.

4 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions S5, P6, P7, and P9.

Data Source—Module IV: OBAT			
	Central		
Indicator	Numerator	Denominator	%
Respondent perceives that the organization promotes a culture of problem solving	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.22 Sharing information between levels

Sharing information between levels Indicator: Mean score of respondents who perceive that the organization promotes bidirectional flow of feedback

Sum of 2 respondent scores on perceived organizational promotion of bidirectional flow of feedback

(Total # of respondents x 5) x 2

X 100

X 100

5 being the highest possible score on every answer.

2 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions S1 and S3.

Data Source—Module IV: OBAT			
Central			
Indicator	Numerator	Denominator	%
Respondent perceives that the organization promotes bidirectional flow of feedback	*	*	*

Table 5A.23 Sense of responsibility

Sense of responsibility

Indicator: Mean score of respondents who perceive that the organization has a culture that instills a sense of responsibility

Sum of 5 respondent scores on perceived organizational culture of instilling a sense of responsibility

(Total # of respondents x 5) x 5

5 being the highest possible score on every answer.

5 being the number of questions asked to calculate this specific indicator.

We assume the same number of people answered questions P1, P2, P3, P4, and P12.

Data Source—Module IV: OBAT			
	Central		
Indicator	Numerator	Denominator	%
Respondent perceives that the organization has	*	*	*
a culture that instills a sense of responsibility			

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.24 Empowerment and accountability

Empowerment and accountability Indicator: Mean score of respondents who perceive that the organization empowers people to ask questions, seek improvement, learn, and improve quality through useful information

Sum of 2 respondent scores on perceived organizational empowering for learning and improvement

(Total # of respondents x 5) x 2

5 being the highest possible score on every answer.

X 100

X 100

2 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions P10 and P11.

Data Source—Module IV: OBAT			
	Central		
Indicator	Numerator	Denominator	%
Respondent perceives that the organization empowers people to ask questions, seek improvement, learn, and improve quality through useful information	*	*	*

Table 5A.25 Rewarding good performance

Rewarding good performance

Indicator: Mean score of respondents who perceive that the organization recognizes and rewards good performance

Sum of respondent scores on perceived organizational recognition and reward of performance

Total # of respondents x 5

X 100

X 100

5 being the highest possible score on every answer

Data Source—Module IV: OBAT			
	Central		
Indicator	Numerator	Denominator	%
Respondent perceives that the organization recognizes and rewards good performance	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.26 Data quality assurance

Data quality assurance	
Indicator: Mean score of level of perceived ability to perform data quality checks	
Sum of all self-ratings from 0–10 on ability to perform data quality checks Total # of respondents X10	X 100

Data Source—Module IV: OBAT			
Central			
Numerator	Denominator	%	
*	*	*	
r	*	ta Source—Module IV: OBA I Central Numerator Denominator * * *	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.27 Calculating indicators

Calculating indicators	
Indicator: Mean score of level of perceived ability to calculate indicators	

Sum of all self-ratings from 0-10 on ability to calculate indicators

Total # of respondents X10

Data Source—Module IV: OBAT			
Central			
Indicator	Numerator	Denominator	%
Respondent believes that they can calculate percentages/rates correctly	*	*	*

Table 5A.28 Data presentation

Data presentation

Indicator: Mean score of level of perceived ability to prepare data visuals

Sum of all self-ratings from 0-10 on ability to prepare data visuals

Total # of respondents x10

 Data Source—Module IV: OBAT

 Central

 Indicator
 Numerator
 Denominator
 %

 Respondent believes that they can plot a trend on a chart
 *
 *
 *
 *

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.29 Data interpretation

Data interpretation

Indicator: Mean score of level of perceived ability to interpret data

Sum of all self-ratings from 0–10 on ability to interpret data X 100 Total # of respondents x10

Data Source—Module IV: OBAT			
Central			
Indicator	Numerator	Denominator	%
Respondent believes that they can explain the implication of the results of the data analysis	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.30 Use of information

Use of information

Indicator: Mean scores of level of perceived ability to use information for problem-solving or making decisions

Sum of all self-ratings from 0–10 on ability to use information for problem-solving or decision making

Total # of respondents x10

* not collected during this EN-MINI-PRISM Tools pilot assessment

Data Source—Module IV: OBAT			
	Central		
Indicator	Numerator	Denominator	%
Respondent believes that they can use data for identifying service performance gaps and setting performance targets	*	*	*
Respondent believes that they can use data for making operational/ management decisions	*	*	*
Combined score			*

* not collected during this EN-MINI-PRISM Tools pilot assessment

- X 100

– X 100

Table 5A.31 Motivation among staff

The motivation among staff

Indicator: Mean score of Staff motivation level to perform RHIS tasks

Sum of 5 respondent scores on perceived staff motivation to perform RHIS tasks

(Total # of respondents x 5) x 7

– X 100

5 being the highest possible score on every answer.

5 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions BC1 through BC5.

Indicator	Numerator	Denominator	%
Respondent's motivation to perform RHIS tasks	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.32 Knowledge—Rationale for RHIS data

Knowledge	
Indicator: Mean scores of knowledge of the rationale for RHIS data	
Sum of respondent scores on the selected different items	
Sum of respondent scores on the selected different items	V 400
Total # of respondents x 3	X 100
rotal # or respondents x 5	

Data Source—Module IV: OBAT				
Central				
Numerator Denominator				
	Indicator			
	Newborn diseases/ conditions/ diagnoses on a monthly basis	*	*	*
Describe at least three reasons for collecting or	Newborn Immunization	*	*	*
	Maternal age	*	*	*
using the	Age of newborn	*	*	*
following data on a monthly basis	Geographical data or residence of families	*	*	*
	Why population data is needed	*	*	*
Knowledge of the rationale for RHIS data			*	

Table 5A.33 Knowledge—data quality checking methods

Indicator: Mean scores of knowledge of data quality checking methods

Sum of respondent scores on the selected different items

Total # of respondents x 3

Data Source—Module IV: OBAT			
	Central		
Questions	Numerator	Denominator	%
Describe at least three aspects of data quality	*	*	*
Describe at least three ways of ensuring data quality relevant to your job classification/responsibilities	*	*	*
Knowledge of data quality checking methods		*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.34 Actual skills to perform RHIS tasks—competence level in calculating indicators

Actual skills to perform RHIS tasks

Indicator: Mean scores of competency level in calculating indicators

Sum of respondent scores on the selected different items

Total # of respondents

Data Source—Module IV: OBAT			
	Central		
Questions	Numerator	Denominator	%
Calculate the percentage of pregnant mothers at the central level attending antenatal care in the current period	*	*	*
What is the neonatal mortality rate?	*	*	*
Calculate the number of newborns who died.	*	*	*
Competence level in calculating indicators			*

* not collected during this EN-MINI-PRISM Tools pilot assessment

- X 100

- X 100

Table 5A.35 Actual skills to perform RHIS tasks—competence level in plotting data/preparing charts

Indicator: Mean score of competency level in plotting data/preparing charts

Sum of respondent scores on the selected different items

Total # of respondents

Data Source—Module IV: OBAT			
Central			
Questions	Numerator	Denominator	%
Develop a bar chart depicting the distribution across the maternal ages of newborns with a low birthweight at the four facilities.	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.36 Actual skills to perform RHIS tasks—competence level in interpreting data

Indicator: Mean scores of competency level in interpreting data

Sum of respondent scores on the selected different items

Total # of respondents x2

Data Source—Module IV: OBAT Central Denominator % Scoring Numerator Scoring for CD2b: Interpret the graph * * * presented in CD2b Scoring for CD2c (CD2c1 +CD2c2): Does the central level have the coverage rate (80%) by the end of 2020 for CD2c1? What guidance could you provide on these data for CD2C2? * Competence level in interpreting data

* not collected during this EN-MINI-PRISM Tools pilot assessment

X 100

X 100

Table 5A.37 Actual skills to perform RHIS tasks—competence level in problem solving

Indicator: Mean scores of competency level in problem solving

Sum of respondent scores on the selected different items Total # of respondents x n (n=2, 3, or 5)

_____ X 100

X 100

Data Source—Module IV: OBAT Central Denominator % Scoring Numerator Scoring for PSa: Description of data quality * * * problem Scoring for **PSb:** Potential reasons for data * * * quality problem Scoring for PSc: Major activities to improve * * * the data quality * Competence level in problem solving

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5A.38 Actual skills to perform RHIS tasks—competence level in use of information

Indicator: Mean scores of competency level in use of information

Sum of respondent scores on the selected different items

Total # of respondents

Data Source—Module IV: OBAT			
	Central		
Scoring	Numerator	Denominator	%
Scoring for CD2d1 : Provide at least one use of the chart findings at the facility level	*	*	*
Scoring for CD2d2 : Provide at least one use of the chart findings at the community level	*	*	*
Scoring for CD2d3 : Provide at least one use of the chart findings at the central level	*	*	*
Competence level in use of information			*

5B. Organizational Factors—Regional level

Section 5B. Tables: Organizational Factors—Regional Level

B. RHIS Performance Determinants: Organizational Factors- Regional Level

 Table 5B.1 RHIS governance—structures

RHIS governance

Indicator: % of sites with good RHIS governance structures in place

Total # of sites with good RHIS governance structures in place

Total # of sites assessed

Data Source—Module IV: MAT			
Indicators	Numerator	Denominator	%
Has written document describing the RHIS mission, roles, and responsibilities that are related to strategic and policy decisions at the region and higher levels	*	*	*
Has current health service organizational and staff chart showing positions related to health information	*	*	*
Office has an overall framework and plan for information and communication technology (ICT), for example, describing the required equipment and plans for training in the use of ICT for RHIS	*	*	*
Office maintains a list/documentation of the dissemination of the RHIS monthly/quarterly reports to the various health program staff in the region, the community, local administration, nongovernmental organizations (NGOs), etc.	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.2 RHIS governance—Data management guidelines

Indicator: % of sites with RHIS data management guidelines

Total # of sites with RHIS data management guidelines

Total # of sites assessed

Data Source—Module IV: MAT				
Indicators	Numerator	Denominator	%	
Has written SOPs and procedural guidelines for RHIS with data definition, data collection and reporting, data aggregation, processing, and transmission, data analysis, dissemination and use, data quality assurance, MFL, ICD classification, data security, and performance improvement process (Completely)	*	*	*	
Has written SOPs and procedural guidelines for RHIS with data definition, data collection and reporting, data aggregation, processing, and transmission, data analysis, dissemination and use, data quality assurance, MFL, ICD classification, data security, and performance improvement process (Partially)	*	*	*	

– X 100

* not collected during this EN-MINI-PRISM Tools pilot assessment

X 100

Table 5B.3 RHIS planning

RHIS planning

Indicator: % of sites with copies of national HIS documents

Total # of sites with copies of national HIS documents

Total # of sites assessed

Data Source—Module IV: MAT					
Indicators	Numerator	Denominator	%		
Has a copy of the national HIS situation analysis/assessment report that is less than three years old	*	*	*		
Has a copy of the national three or five-year HIS strategic plan	*	*	*		

– X 100

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.4 Use of quality improvement standards

Use of quality improvement standards

Indicator: % of regions that have RHIS quality improvement standards

Total # of regions that have RHIS quality improvement standards X 100 Total # of sites assessed

Data Source—Module IV: MAT					
Indicator	Numerator	Denominator	%		
Has set RHIS performance targets RHIS					
performance targets for data accuracy for	*	*	*		
their respective administrative areas					
Has set RHIS performance targets RHIS					
performance targets for data completeness	*	*	*		
for their respective administrative areas					
Has set RHIS performance targets RHIS					
performance targets for data timeliness for	*	*	*		
their respective administrative areas					

Table 5B.5 Supervision quality

Supervision quality

Indicator: % of regions that have effective supportive supervision practices /tools available to improve RHIS performance

 Total # of sites with documents related to supervision
 X 100

 Total # of sites assessed
 X 100

Data Source—Module IV: MAT				
	Region			
Indicators	Numerator	Denominator	%	
Office has copies of RHIS supervisory guidelines and checklists	*	*	*	
Office maintains a schedule for RHIS supervisory visits	*	*	*	
Office has copies of the reports from RHIS supervisory visits conducted during the current fiscal year	*	*	*	
HFs that received a supervisory visit have copies of the report from latest supervisory visit and commonly agreed action points are listed	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.6 Financial resources to support RHIS activities

Financial resources to support RHIS activities				
Indicator: % of regions that allocated financial resources for RHIS activities				
Total # of regions that allocated financial resources for RHIS activities				
Total # of sites assessed			X 100	
Data Source—Module IV: MAT				
		Region		
Indicator	Numerator	Denominator	%	
Office has a copy of the long-term financial plan for supporting RHIS activities	*	*	*	

Table 5B.7 Infrastructure for RHIS data management

Infrastructure for RHIS data management

Indicator: % of sites with Internet connectivity

Total number of sites with available recording and reporting forms

Total # of sites assessed

Data Source—Module V: Facility/Office Checklist					
Indicator Numerator Denominator %					
Access to an Internet network	*	*	*		

- X 100

- X 100

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.8 RHIS supplies for data collection and aggregation—total recording and reporting forms

RHIS supplies for data collection and aggregation

Indicator: Indicator: % of sites with an adequate supply of RHIS recording and reporting forms

Total # of sites assessed

Data Source: Module 5. Facility/Office Checklist				
Tool Availability	Tools ID	Numerator	Denominator	%
Maternal health services			•	
Maternal health services—Labour and delivery printed register	5.1	*	*	*
Maternal health services—Operation theatre printed register	5.2	*	*	*
Maternal health services—Postnatal ward printed register	5.3	*	*	*
Maternal health services—Printed death register	5.4	*	*	*
Child health services				
Child health services—Postnatal ward printed register	6.1	*	*	*
Child health services—Kangaroo mother care ward/corner printed register	6.2	*	*	*
Child health services—Neonatal inpatient care ward printed register	6.3	*	*	*
Child health services—Special care newborn ward printed register	6.4	*	*	*
Child health services—Intensive care newborn ward printed register	6.5	*	*	*
Child health services—Printed death register	6.6	*	*	*

Table 5B.9 RHIS supplies for data collection and aggregation—standard recording and reporting forms

Indicator: % of sites with an adequate supply of standard RHIS recording	
and reporting forms	
	X 100

Total # of standard RHIS tools available at the facility or office Total # of tools available at the facility or office

Data Source: Module 5. Facility/Office Checklist				
Standard RHIS tool	Tools ID	Numerator	Denominator	%
Maternal health services				
Maternal health services—Labour and delivery printed register	5.1	*	*	*
Maternal health services—Operation theatre printed register	5.2	*	*	*
Maternal health services—Postnatal ward printed register	5.3	*	*	*
Maternal health services—Printed death register	5.4	*	*	*
Child health services				
Child health services—Postnatal ward printed register	6.1	*	*	*
Child health services—Kangaroo mother care ward/corner printed register	6.2	*	*	*
Child health services—Neonatal inpatient care ward printed register	6.3	*	*	*
Child health services—Special care newborn ward printed register	6.4	*	*	*
Child health services—Intensive care newborn ward printed register	6.5	*	*	*
Child health services—Printed death register	6.6	*	*	*

Table 5B.10 Facilities or offices with no stock-outs of recording and reporting tools within the past six months

Indicator: % of facilities or offices with no stock-outs of recording and reporting tools within the past six months	
Total # of offices that experienced stockouts in last 6 months	X 100
Total # of offices assessed	-

Data Source: Module 5. Facility/Office Checklist					
Stockout	Tools ID	Numerator	Denominator	%	
Maternal health services					
Maternal health services—Labour and delivery printed register	5.1	*	*	*	
Maternal health services—Operation theatre printed register	5.2	*	*	*	
Maternal health services—Postnatal ward printed register	5.3	*	*	*	
Maternal health services—Printed death register	5.4	*	*	*	
Child health services	•			•	
Child health services—Postnatal ward printed register	6.1	*	*	*	
Child health services—Kangaroo mother care ward/corner printed register	6.2	*	*	*	
Child health services—Neonatal inpatient care ward printed register	6.3	*	*	*	
Child health services—Special care newborn ward printed register	6.4	*	*	*	
Child health services—Intensive care newborn ward printed register	6.5	*	*	*	
Child health services—Printed death register	6.6	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.11 Availability of staff-designated to compile and analyze data

Availability of staff to compile and analyze data	
Indicator: % of sites that have designated staff responsible for entering data/compiling report	s
Total # of sites with designated staff responsible for entering data/compiling reports	X 100
Total # of sites assessed	X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Region Level)				
Indicator	Numerator	Denominator	%	
Region has a designated person responsible				
for entering data/compiling reports from	*	*	*	
health facilities				

Table 5B.12 Availability of staff-designated for internal data quality review

Indicator: % of sites that have designated staff for internal data quality review						
I otal number of sites that have designated stat	t for internal data quality	review	X 100			
Total # of sites assessed			X 100			
Data Source—Module IIa:	RHIS Performance Diag	nostic Tool (Region Leve	el)			
Indicator	Numerator	Denominator	%			
Region level has a designated person to						
review the quality of compiled data prior to	*	*	*			
submission to the next level (Yes)						
Region level has a designated person to						
review the quality of compiled data prior to	*	*	*			
submission to the next level (Partially)						

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.13 Availability of staff-designated for data analysis and dissemination

Indicator: % of sites that have designated staff for data analysis and dissemination	
Total # of sites that have designated staff for data analysis and dissemination	X 100
Total # of sites assessed	X 100

Data Source—Module V: Facility/Office Checklist										
Staff Code	Title	Responsible for data compilation of reports submitted that are coming from the lower levels			Responsible for checking the quality of reports submitted from the lower levels			Responsible for data analysis (producing comparison tables, graphs, dashboards)		
		Numerator	Denomnator	Ratio	Numerator	Denomnator	Ratio	Numerator	Denomnator	Ratio
1	Head of regional health office	*	*	*	*	*	*	*	*	*
2	Program officer	*	*	*	*	*	*	*	*	*
3	Disease surveillance officer	*	*	*	*	*	*	*	*	*
4	M&E/HMIS officer	*	*	*	*	*	*	*	*	*
5	Data clerk	*	*	*	*	*	*	*	*	*
96	Other (specify)	*	*	*	*	*	*	*	*	*
Any	designated staff	0	*	*	*	*	*	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.14 Ratio designated staff for data analysis and dissemination per site

Any designated staff				
Variables		Numerator	Denominator	Ratio
Responsible for data compilation of reports submitted that are coming from the lower levels	Any designated staff	*	*	*
Responsible for checking the quality of reports from the lower level	Any designated staff	*	*	*
Responsible for data analysis	Any designated staff	*	*	*

Table 5B.15 RHIS capacity development—plan

RHIS capacity development

Indicator: % of regions with staff capacity development plan

Total # of regions with staff capacity development plan

Total # of sites assessed

Data Source—Module IV: MAT							
Indicator	Numerator	Denominator	%				
Has a costed training and capacity development plan that has benchmarks, timelines, and mechanism for on-the-job RHIS training, RHIS workshops, and orientation for new staff	*	*	*				

– X 100

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.16 RHIS capacity development—RHIS training

Indicator: % of staff who have received RHIS training (among those who are responsible for performing various RHIS tasks)

Total # of staff who have received RHIS training

Total # of staff who are responsible for RHIS tasks (one of three denominators X 100 possible)

Data Source—Module V: Facility/Office Checklist (Region)									
Staff Code Staff		Among those responsible for data compilation of reports from the lower levels			Among those respon for checking the qua of reports from the lo levels	Among those responsible for data analysis (producing comparison tables, graphs, dashboards)			
		Numerator	Denominator	%	Denominator	%	Denominator	%	
1	Head of regional health office	*	*	*	*	*	*	*	
2	Program officer	*	*	*	*	*	*	*	
3	Disease surveillance officer	*	*	*	*	*	*	*	
4	M&E/HMIS officer	*	*	*	*	*	*	*	
5	Data clerk	*	*	*	*	*	*	*	
96	Other (specify)	*	*	*	*	*	*	*	

Table 5B.17 RHIS capacity development—received training by type

Indicator: % of staff who have received RHIS training (among those who are responsible for	
performing various RHIS tasks)	

 Total # of staff receiving training by type of training

 Total # of staff who are responsible for RHIS tasks (one of three denominators possible)

Data Source—Module V: Facility/Office Checklist (Region)										
Variables		Respo compilation lo	nsible for data of reports from wer levels	the	Responsible for checking the quality of reports from the lower level		Responsible for data analysis			
		Numerator	Deinator	%	Numerator	Deinator	%	Numerator	Denomnator	%
	Data entry	*	*	*	*	*	*	*	*	*
	Check and verify quality of data	*	*	*	*	*	*	*	*	*
Subject of last training	Generating aggregate reports	*	*	*	*	*	*	*	*	*
J	Data analysis and interpretation	*	*	*	*	*	*	*	*	*
	Using data for decision making	*	*	*	*	*	*	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.18 Commitment and support for high-quality data

Commitment and support for high-quality data

Indicator: Mean score of respondents who perceive that the organization gives due emphasis to data quality

Sum of 3 respondent scores on perceived organizational emphasis on data quality

(Total # of respondents x 5) x 3

X 100

X 100

5 being the highest possible score on every answer. 3 being the number of questions asked to calculate this specific indicator. We assume that the same number of people answered questions S2, S6, and S8.

Data Source—Module VI: OBAT							
Region							
Indicator	Numerator	Denominator	%				
Respondent perceives that the organization gives due emphasis to data quality	*	*	*				

Table 5B.19 Commitment and support of information use

Commitment and support of information use	
Indicator: Mean score of respondents who perceive that the organization supports inform	ation use
Sum of 4 respondent scores on perceived organizational support of information use	
(Total # of respondents x 5) x 4	
5 being the highest possible score on every answer. 4 being the number of questions asked to calculate this specific indicator. We assume that the same number of people answered questions S4, S7, P5, and P8.	X 100

Data Source—Module VI: OBAT						
Region						
Indicator	Numerator	Denominator	%			
Respondent perceives that the organization supports information use	*	*	*			

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.20 Evidence-based decision making

Evidence-based decision making

Indicator: Mean score of respondents who perceive that the organization promotes a culture of evidence-based decision making

Sum of 9 respondent scores on perceived organizational culture of evidence-based decision making

(Total # of respondents x 5) x 9

X 100

5 being the highest possible score on every answer.

9 being the number of questions asked to calculate this specific indicator.
 We assume that the same number of people answered questions D1 through D9.

Data Source—Module IV: OBAT						
	Region					
Indicator	Numerator	Denominator	%			
Respondent perceives the organization as promoting a culture of evidence-based decision making	*	*	*			

Table 5B.21 Promotion problem solving

Promotion of problem solving

Indicator: Mean score of respondents who perceive that the organization promotes a culture of problem solving

Sum of 4 respondent scores on perceived organizational promotion of a problem-solving culture Total # of respondents x 5 x 4

5 being the highest possible score on every answer.

4 being the number of questions asked to calculate this specific indicator. We assume that the same number of people answered questions S5, P6, P7, and P9.

Data Source—Module IV: OBAT Region Indicator Denominator Numerator % Respondent perceives that the organization promotes a , * culture of problem solving

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.22 Sharing information between levels

Sharing information between levels

Indicator: Mean score of respondents who perceive that the organization promotes bidirectional flow of feedback

Sum of 2 respondent scores on perceived organizational promotion of bidirectional flow of feedback (Total # of respondents x 5) x 2

5 being the highest possible score on every answer.

2 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions S1 and S3.

Data Source-Module IV: OBAT

	Region		
Indicator	Numerator	Denominator	%
Respondent perceives that the organization promotes bidirectional flow of feedback	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

X 100

X 100

Table 5B.23 Sense of responsibility

Sense of responsibility

Indicator: Mean score of respondents who perceive that the organization has a culture that instills a sense of responsibility

Sum of 5 respondent scores on perceived organizational culture of instilling a sense of responsibility (Total # of respondents x 5) x 5

(Total # of respondents x 5) x 5

X 100

5 being the highest possible score on every answer.5 being the number of questions asked to calculate this specific indicator.We assume the same number of people answered questions P1, P2, P3, P4, and P12.

Data Source—Module IV: OBAT				
		Region		
Indicator	Numerator	Denominator	%	
Respondent perceives that the organization has a culture that instills a sense of responsibility	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.24 Empowerment and accountability

Empowerment and accountability

Indicator: Mean score of respondents who perceive that the organization empowers people to ask questions, seek improvement, learn, and improve quality through useful information

Sum of 2 respondent scores on perceived organizational empowering for learning and improvement

(Total # of respondents x 5) x 2

X 100

5 being the highest possible score on every answer.2 being the number of questions asked to calculate this specific indicator.We assume that the same number of people answered questions P10 and P11.

Data Source—Module IV: OBAT				
		Region		
Indicator	Numerator	Denominator	%	
Respondent perceives that the organization empowers people to ask questions, seek improvement, learn, and improve quality through useful information	*	*	*	

Table 5B.25 Rewarding good performance

Rewarding good performance

Indicator: Mean score of respondents who perceive that the organization recognizes and rewards good performance

Sum of respondent scores on perceived organizational recognition and reward of performance X 100 Total # of respondents x 5

5 being the highest possible score on every answer.

Data Source—Module IV: OBAT				
	Region			
Indicator	Numerator	Denominator	%	
Respondent perceives that the organization recognizes and rewards good performance	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.26 Data quality assurance

Data quality assurance

Indicator: Mean score of level of perceived ability to perform data quality checks

Sum of all self-ratings from 0–10 on ability to perform data quality checks Total # of respondents X10

X 100

Data Source—Module IV: OBAT			
	Region		
Indicator	Numerator	Denominator	%
Respondent believes that they can check data accuracy	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.27 Calculating indicators

Calculating indicators Indicator: Mean score of level of perceived ability to calculate indicators	
Sum of all self-ratings from 0–10 on ability to calculate indicators Total # of respondents X10	X 100

Data Source—Module IV: OBAT				
Region				
Indicator	Numerator	Denominator	%	
Respondent believes that they can calculate percentages/rates correctly	*	*	*	

Table 5B.28 Data presentation

Data presentation

Indicator: Mean score of level of perceived ability to prepare data visuals

Sum of all self-ratings from 0–10 on ability to prepare data visuals

Total # of respondents x10

Data Source—Module IV: OBAT			
	Region		
Indicator	Numerator	Denominator	%
Respondent believes that they can plot a trend on a chart	*	*	*

X 100

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.28 Data interpretation

Data interpretation Indicator: Mean score of level of perceived ability to interpret data Sum of all self-ratings from 0–10 on ability to interpret data — X 100 Total # of respondents x10

Data Source—Module IV: OBAT				
Region				
Indicator	Numerator	Denominator	%	
Respondent believes that they can explain the implication of the results of the data analysis	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.29 Use of information

Use of information Indicator: Mean scores of levels of perceived ability to use information for problem-solving or making decisions Sum of all self-ratings from 0-10 on ability to use information for problem-solving or decision making X 100

Total # of respondents x10

Data Source—Module IV: OBAT Region Denominator Indicator Numerator % Respondent believes that they can use data for * * identifying service performance gaps and setting performance targets Respondent believes that they can use data for making * * * operational/ management decisions * **Combined score**

Table 5B.30 Motivation among staff

The motivation among staff

Indicator: Mean score of Staff motivation level to perform RHIS tasks

Sum of 5 respondent scores on perceived staff motivation to perform RHIS tasks

(Total # of respondents x 5) x 7

5 being the highest possible score on every answer.

5 being the number of questions asked to calculate this specific indicator. We assume that the same number of people answered questions BC1 through BC5.

Data Source—Module IV: OBAT				
Region				
Indicator	Numerator	Denominator	%	
Respondent's motivation to perform RHIS tasks	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.31 Knowledge of the rationale for RHIS data

Knowledge	
Indicator: Mean scores of Knowledges of the rationale for RHIS dat	a
Sum of respondent scores on the selected different items	× 100
Total # of respondents x 3	X 100

	Data Source—Module IV: OBA	г		
	Re	gion		
		Numerator	Denominator	%
	Indicator			
Describe at least three reasons for collecting or using the following data on a monthly basis	Newborn diseases/conditions/diagnoses on a monthly basis	*	*	*
	Newborn Immunization	*	*	*
	Maternal age	*	*	*
	Age of newborn	*	*	*
	Geographical data or residence of families	*	*	*
	Why population data is needed	*	*	*
			Knowledge of the rationale for RHIS data	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

X 100

Table 5B.32 Knowledge of data quality checking methods

Indicator: Mean scores of Knowledge of data quality checking methods

Sum of respondent scores on the selected different items

Total # of respondents x 3

Data Source—Module IV: OBAT				
	Region			
Questions	Numerator	Denominator	%	
Describe at least three aspects of data quality	*	*	*	
Describe at least three ways of ensuring data quality relevant to your job classification/responsibilities	*	*	*	
Knowledge of data quality checking methods			*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.33 Actual skills to perform RHIS tasks—competence level in calculating indicators

Actual skills to perform RHIS tasks Indicator: Mean scores of competency level in calculating	g indicators
Sum of respondent scores on the selected different items Total # of respondents	- X 100

Data Source—Module IV: OBAT			
		Region	
Questions	Numerator	Denominator	%
Calculate the percentage of pregnant mothers at the region level attending antenatal care in the current period	*	*	*
What is the neonatal mortality rate?	*	*	*
Calculate the number of newborns who died.	*	*	*
Competence level in calculating indicators			*

* not collected during this EN-MINI-PRISM Tools pilot assessment

- X 100

Table 5B.34 Actual skills to perform RHIS tasks—competence level in plotting data/preparing charts

Indicator: Mean score of competency level in plotting data/preparing charts

Sum of respondent scores on the selected different items Total # of respondents

X 100

Data Source—Module IV: OBAT			
Region			
Questions	Numerator	Denominator	%
Develop a bar chart depicting the distribution across the maternal ages of newborns with a low birthweight at the four facilities	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.35 Actual skills to perform RHIS tasks—competence level in interpreting data

Indicator: Mean scores of competency level in interpreting data Sum of respondent scores on the selected different items – X 100 Total # of respondents x2

Data Source—Module IV: OBAT			
	Region		
Scoring	Numerator	Denominator	%
Scoring for CD2b : Interpret the graph presented in CD2b	*	*	*
Scoring for CD2c (CD2c1 +CD2c2): Does the region level have the coverage rate (80%) by the end of 2020 for CD2c1? What guidance could you provide on these data for CD2C2?	*	*	*
Competence level in interpreting data			*

Table 5B.36 Actual skills to perform RHIS tasks—competence level in problem solving

Indicator: Mean scores of competency level in problem solving

Sum of respondent scores on the selected different items

Total # of respondents x n (n=2, 3, or 5)

X 100

Data Source—Module IV: OBAT			
	Region		
Scoring	Numerator	Denominator	%
Scoring for PSa : Description of data quality problem	*	*	*
Scoring for PSb: Potential reasons for data quality problem	*	*	*
Scoring for PSc: Major activities to improve the data quality	*	*	*
Competence level in problem solving			*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5B.37 Actual skills to perform RHIS tasks—competence level in use of information

Indicator: Mean scores of competency level in use of information	
Sum of respondent scores on the selected different items	X 100
Total # of reasonandanta	

Total # of respondents

Data Source—Module IV: OBAT			
		Region	
Scoring	Numerator	Denominator	%
Scoring for CD2d1 : Provide at least one use of the chart findings at the facility level	*	*	*
Scoring for CD2d2 : Provide at least one use of the chart findings at the community level	*	*	*
Scoring for CD2d3 : Provide at least one use of the chart findings at the region level	*	*	*
Competence level in use of information			*

Section 5C. Tables: Organizational Factors—District level

C. RHIS Performance Determinants: Organizational Factors- District Level

Table 5C.1 RHIS governance—structures

RHIS governance

Indicator: % of sites with good RHIS governance structures in place

Total # of sites with good RHIS governance structures in place X 100

Total # of sites assessed

Data Source—Module IV: MAT				
Indicators	Numerator	Denominator	%	
Has written document describing the RHIS mission, roles, and responsibilities that are related to strategic and policy decisions at the district and higher levels	2	2	100%	
Has current health service organizational and staff chart showing positions related to health information	2	2	100%	
Office has an overall framework and plan for information and communication technology (ICT), for example, describing the required equipment and plans for training in the use of ICT for RHIS	1	2	50%	
Office maintains a list/documentation of the dissemination of the RHIS monthly/quarterly reports to the various health program staff in the district, the community, local administration, nongovernmental organizations (NGOs), etc.	0	2	0%	

Table 5C.2 RHIS governance—data management guidelines

Indicator: % of sites with RHIS data management guidelines

Total # of sites with RHIS data management guidelines X 100 Total # of sites assessed

Data Source—Module IV: MAT				
Indicators	Numerator	Denominator	%	
Has written SOPs and procedural guidelines for RHIS with data definition, data collection and reporting, data aggregation, processing, and transmission, data analysis, dissemination and use, data quality assurance, MFL, ICD classification, data security, and performance improvement process (Completely)	0	2	0%	
Has written SOPs and procedural guidelines for RHIS with data definition, data collection and reporting, data aggregation, processing, and transmission, data analysis, dissemination and use, data quality assurance, MFL, ICD classification, data security, and performance improvement process (Partially)	2	2	100%	

Table 5C.3 RHIS planning

RHIS planning	
Indicator: % of sites with copies of national HIS docum	ients
Total # of sites with copies of national HIS documents	
Total # of sites assessed	X 100

Data Source—Module IV: MAT				
Indicators	Numerator	Denominator	%	
Has a copy of the national HIS situation analysis/assessment report that is less than three years old	0	2	0%	
Has a copy of the national three or five-year HIS strategic plan	1	2	50%	

Table 5C.4 Use of quality improvement standards

Use of quality improvement standards

Indicator: % of districts that have RHIS quality improvement standards

Total # of districts that have RHIS quality improvement standards

Total # of sites assessed

Data Source—Module IV: MAT			
Indicator	Numerator	Denominator	%
Has set RHIS performance targets RHIS performance targets for data accuracy for their respective administrative areas	2	2	100%
Has set RHIS performance targets RHIS performance targets for data completeness for their respective administrative areas	2	2	100%
Has set RHIS performance targets RHIS performance targets for data timeliness for their respective administrative areas	2	2	100%

– X 100

Table 5C.5 Supervision quality

Supervision quality

Indicator: % of districts that have effective supportive supervision practices /tools available to improve RHIS performance

 Total # of sites with documents related to supervision
 X 100

 Total # of sites assessed
 X 100

Data Source—Module IV: MAT				
	District			
Indicators	Numerator	Denominator	%	
Office has copies of RHIS supervisory guidelines and checklists	2	2	100%	
Office maintains a schedule for RHIS supervisory visits	2	2	100%	
Office has copies of the reports from RHIS supervisory visits conducted during the current fiscal year	2	2	100%	
HFs that received a supervisory visit have copies of the report from latest supervisory visit and commonly agreed action points are listed	2	2	100%	

Table 5C.6 Financial resources to support RHIS activities

Financial resources to support RHIS activities

Indicator: % of districts that allocated financial resources for RHIS activities

Total # of districts that allocated financial resources for RHIS activities

Total # of sites assessed

Data Source—Module IV: MAT			
	District		
Indicator	Numerator	Denominator	%
Office has a copy of the long-term financial plan for supporting RHIS activities	2	2	100%

- X 100

Table 5C.7 Infrastructure for RHIS data management

Infrastructure for RHIS data management	
Indicator: % of sites with Internet connectivity	
Total number of sites with available recording and reporting forms	(100
Total # of sites assessed	(100

Data Source—Module V: Facility/Office Checklist			
Indicator	Numerator	Denominator	%
Access to an Internet network	*	*	*

Table 5C.8 RHIS supplies for data collection and aggregation—total recording and reporting forms

RHIS supplies for data collection and aggregation

Indicator: Indicator: % of sites with an adequate supply of RHIS recording and reporting forms

- X 100

Total number of sites with available recording and reporting forms

Total # of sites assessed

Data Source: Module 5. Facility/Office Checklist				
Tool Availability	Tools ID	Numerator	Denominator	%
Maternal health services				
Maternal health services—Labour and delivery printed register	5.1	*	*	*
Maternal health services—Operation theatre printed register	5.2	*	*	*
Maternal health services—Postnatal ward printed register	5.3	*	*	*
Maternal health services—Printed death register	5.4	*	*	*
Child health services				
Child health services—Postnatal ward printed register	6.1	*	*	*
Child health services—Kangaroo mother care ward/corner printed register	6.2	*	*	*
Child health services—Neonatal inpatient care ward printed register	6.3	*	*	*
Child health services—Special care newborn ward printed register	6.4	*	*	*
Child health services—Intensive care newborn ward printed register	6.5	*	*	*
Child health services—Printed death register	6.6	*	*	*
Table 5C.9 RHIS supplies for data collection and aggregation—standard recording and reporting forms

Total # of standard RHIS tools available at the facility or office X 100

Total # of tools available at the facility or office

Data Source: Module 5. Facility/Office Checklist							
Standard RHIS tool	Tools ID	Numerator	Denominator	%			
Maternal health services							
Maternal health services—Labour and delivery printed register	5.1	*	*	*			
Maternal health services—Operation theatre printed register	5.2	*	*	*			
Maternal health services—Postnatal ward printed register	5.3	*	*	*			
Maternal health services—Printed death register	5.4	*	*	*			
Child health services							
Child health services—Postnatal ward printed register	6.1	*	*	*			
Child health services—Kangaroo mother care ward/corner printed register	6.2	*	*	*			
Child health services—Neonatal inpatient care ward printed register	6.3	*	*	*			
Child health services—Special care newborn ward printed register	6.4	*	*	*			
Child health services—Intensive care newborn ward printed register	6.5	*	*	*			
Child health services—Printed death register	6.6	*	*	*			

Table 5C.10 Facilities or offices with no stock-outs of recording and reporting tools within the past six months

Indicator: % of facilities or offices with no stock-outs of recording and reporting tools within the past six months

Total # of offices that experienced stockouts in last 6 months X 100

Total # of offices assessed

Data Source: Module 5. Facility/Office Checklist								
Stockout	Tools ID	Numerator	Denominator	%				
Maternal health services								
Maternal health services—Labour and delivery printed register	5.1	*	*	*				
Maternal health services—Operation theatre printed register	5.2	*	*	*				
Maternal health services—Postnatal ward printed register	5.3	*	*	*				
Maternal health services—Printed death register	5.4	*	*	*				
Child health services								
Child health services—Postnatal ward printed register	6.1	*	*	*				
Child health services—Kangaroo mother care ward/corner printed register	6.2	*	*	*				
Child health services—Neonatal inpatient care ward printed register	6.3	*	*	*				
Child health services—Special care newborn ward printed register	6.4	*	*	*				
Child health services—Intensive care newborn ward printed register	6.5	*	*	*				
Child health services—Printed death register	6.6	*	*	*				

Table 5C.11 Availability of staff-designated to compile and analyze data

Availability of staff to compile and analyze data

Indicator: % of sites that have designated staff responsible for entering data/compiling reports

Total # of sites with designated staff responsible for entering data/compiling reports X 100

Total # of sites assessed

Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)						
Indicator	Numerator	Denominator	%			
District has a designated person responsible for entering data/compiling reports from health facilities	2	2	100%			

Table 5C.12 Availability of staff-designated for internal data quality review

Indicator: % of sites that have designated staff for internal data quality review				
Total number of sites that have designated staff for internal data quality review				
Total # of sites assessed				

Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)							
Indicator	Numerator	Denominator	%				
District level has a designated person to review the quality of compiled data prior to submission to the next level (Yes)	2	2	100%				
District level has a designated person to review the quality of compiled data prior to submission to the next level (Partially)	0	2	0%				

Table 5C.13 Availability of staff-designated for data analysis and dissemination

Indicator: % of sites that have designated staff for data analysis and dissemination

Total # of sites that have designated staff for data analysis and dissemination Total # of sites assessed X 100

Data Source—Module V: Facility/Office Checklist										
Staff Code	Title	Responsible for data compilation of reports submitted that are coming from the lower 			Responsible for checking the quality of reports submitted from the lower levels			or data ducing s, graphs, ds)		
		Nume rator	Denomi nator	Ratio	Numer ator	Denomi nator	Ratio	Nume rator	Denomi nator	Ratio
1	Head of district health office	*	*	*	*	*	*	*	*	*
2	Program officer	*	*	*	*	*	*	*	*	*
3	Disease surveillance officer	*	*	*	*	*	*	*	*	*
4	M&E/HMIS officer	*	*	*	*	*	*	*	*	*
5	Data clerk	*	*	*	*	*	*	*	*	*
96	Other (specify)	*	*	*	*	*	*	*	*	*
Any des	signated staff	0	*	*	*	*	*	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Any designated staff							
Varia	Numerator	Denomintor	Ratio				
Responsible for data compilation of reports submitted that are coming from the lower levels	Any designated staff	*	*	*			
Responsible for checking the quality of reports from the lower level	Any designated staff	*	*	*			
Responsible for data analysis	Any designated staff	*	*	*			

Table 5C.14 RHIS capacity development—plan

RHIS capacity development

Indicator: % of districts with staff capacity development plan

Total # of districts with staff capacity development plan

Total # of sites assessed

Data Source—Module IV: MAT						
Indicator	Numerator	Denominator	%			
Has a costed training and capacity development plan that has benchmarks, timelines, and mechanism for on-the-job RHIS training, RHIS workshops, and orientation for new staff	2	2	100%			

– X 100

Table 5C.15 RHIS capacity development—RHIS training

Indicator: % of staff who have received RHIS training (among those who are responsible for performing various RHIS tasks)

Total # of staff who have received RHIS training

Total # of staff who are responsible for RHIS tasks (one of three denominators possible) X 100

Data Source—Module V: Facility/Office Checklist (District)								
Staff Code	Staff Staff Numerator report Code		Among the responsible fo compilation reports from lower leve	ose or data n of n the els	Among those responsible for checking the quality of reports from the lower levels		Among those responsible for data analysis (producing comparison tables, graphs, dashboards)	
			Denominator	%	% Denominator %		Denominator	%
1	Head of district health office	*	*	*	*	*	*	*
2	Program officer	*	*	*	*	*	*	*
3	Disease surveillance officer	*	*	*	*	*	*	*
4	M&E/HMIS officer	*	*	*	*	*	*	*
5	Data clerk	*	*	*	*	*	*	*
96	Other (specify)	*	*	*	*	*	*	*

Table 5C.16 RHIS capacity development—Received training by type

Total # of staff receiving training by type of training

Total # of staff who are responsible for RHIS tasks (one of three denominators possible) X 100

Data Source—Module V: Facility/Office Checklist (District)										
Variables		Responsible for data compilation of reports from the lower levels		Responsible for checking the quality of reports from the lower level			Responsible for data analysis			
		Numer ator	Denom nator	%	Nume rator	Deni na	%	Nume rator	Den ina	%
Subject of last training	Data entry	*	*	*	*	*	*	*	*	*
	Check and verify quality of data	*	*	*	*	*	*	*	*	*
	Generating aggregate reports	*	*	*	*	*	*	*	*	*
	Data analysis and interpretation	*	*	*	*	*	*	*	*	*
	Using data for decision making	*	*	*	*	*	*	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5C.17 Commitment and support for high-quality data

Commitment and support for high-quality data

Indicator: Mean score of respondents who perceive that the organization gives due emphasis to data quality

Sum of 3 respondent scores on perceived organizational emphasis on data quality

(Total # of respondents x 5) x 3

5 being the highest possible score on every answer.

X 100

3 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions S2, S6, and S8.

Data Source—Module VI: OBAT							
	District						
Indicator	Numerator	Denominator	%				
Respondent perceives that the organization gives due emphasis to data quality	*	*	*				

Table 5C.18 Commitment and support of information use

Commitment and support of information use

Indicator: Mean score of respondents who perceive that the organization supports information use

Sum of 4 respondent scores on perceived organizational support of information use

(Total # of respondents x 5) x 4

5 being the highest possible score on every answer. 4 being the number of questions asked to calculate this specific indicator. We assume that the same number of people answered questions S4, S7, P5, and P8.

Data Source—Module VI: OBAT							
	District						
Indicator	Numerator	Denominator	%				
Respondent perceives that the organization supports information use	*	*	*				

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5C.19 Evidence-based decision making

Evidence-based decision making

Indicator: Mean score of respondents who perceive that the organization promotes a culture of evidencebased decision making

Sum of 9 respondent scores on perceived organizational culture of evidence-based decision making

(Total # of respondents x 5) x 9

X 100

5 being the highest possible score on every answer.

9 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions D1 through D9.

Data Source—Module IV: OBAT				
District				
Indicator	Numerator	Denominator	%	
Respondent perceives the organization as promoting a culture of evidence-based decision making	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

X 100

Table 5C.20 Promotion of problem solving

Promotion of problem solving

Indicator: Mean score of respondents who perceive that the organization promotes a culture of problem solving

Sum of 4 respondent scores on perceived organizational promotion of a problem-solving culture Total # of respondents x 5 x 4

5 being the highest possible score on every answer.

4 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions S5, P6, P7, and P9.

Data Source—Module IV: OBAT				
	District			
Indicator	Numerator Denominator %			
Respondent perceives that the organization promotes a culture of problem solving	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5C.21 Sharing information between levels

Sharing information between levels

Indicator: Mean score of respondents who perceive that the organization promotes bidirectional flow of feedback

Sum of 2 respondent scores on perceived organizational promotion of bidirectional flow of feedback

(Total # of respondents x 5) x 2

5 being the highest possible score on every answer.

X 100

2 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions S1 and S3.

Data Source—Module IV: OBAT				
	District			
Indicator	Numerator	Denominator	%	
Respondent perceives that the organization promotes bidirectional flow of feedback	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

X 100

Table 5C.22 Sense of responsibility

Sense of responsibility

Indicator: Mean score of respondents who perceive that the organization has a culture that instills a sense of responsibility

Sum of 5 respondent scores on perceived organizational culture of instilling a sense of responsibility (Total # of respondents x 5) x 5

X 100

X 100

5 being the highest possible score on every answer. 5 being the number of questions asked to calculate this specific indicator. We assume the same number of people answered questions P1, P2, P3, P4, and P12.

Data Source—Module IV: OBAT			
District			
Indicator	Numerator	Denominator	%
Respondent perceives that the organization has a culture that instills a sense of responsibility	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5C.23 Empowerment and accountability

Empowerment and accountability

Indicator: Mean score of respondents who perceive that the organization empowers people to ask questions, seek improvement, learn, and improve quality through useful information

Sum of 2 respondent scores on perceived organizational empowering for learning and improvement

(Total # of respondents x 5) x 2

5 being the highest possible score on every answer.

2 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions P10 and P11.

Data Source—Module IV: OBAT			
		District	
Indicator	Numerator	Denominator	%
Respondent perceives that the organization empowers people to ask questions, seek improvement, learn, and improve quality through useful information	*	*	*

Table 5C.24 Rewarding good performance

Rewarding good performance

Indicator: Mean score of respondents who perceive that the organization recognizes and rewards good performance

Sum of respondent scores on perceived organizational recognition and reward of performance

Total # of respondents x 5

5 being the highest possible score on every answer.

Data Source—Module IV: OBAT			
	District		
Indicator	Numerator	Denominator	%
Respondent perceives that the organization recognizes and rewards good performance	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5C.25 Data quality assurance

Data quality assurance

Indicator: Mean score of level of perceived ability to perform data quality checks

Sum of all self-ratings from 0–10 on ability to perform data quality checks Total # of respondents X10 X 100

Total # of respondents X10

Data Source—Module IV: OBAT			
	District		
Indicator	Numerator	Denominator	%
Respondent believes that they can check data accuracy	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5C.26 Calculating indicators

Calculating indicators Indicator: Mean score of level of perceived ability to calculate indicators Sum of all self-ratings from 0–10 on ability to calculate indicators Total # of respondents X10 X 100

Data Source—Module IV: OBAT				
	District			
Indicator	Numerator Denominator %			
Respondent believes that they can calculate percentages/rates correctly	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

X 100

Table 5C.27 Data presentation

Data presentation

Indicator: Mean score of level of perceived ability to prepare data visuals

Sum of all self-ratings from 0–10 on ability to prepare data visuals

Total # of respondents x10

Data Source—Module IV: OBAT			
	District		
Indicator	Numerator	Denominator	%
Respondent believes that they can plot a trend on a chart	*	*	*

— X 100

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5C.28 Data interpretation

Data interpretation Indicator: Mean score of level of perceived ability to interpre	t data
Sum of all self-ratings from 0–10 on ability to interpret data Total # of respondents x10	- X 100

Data Source—Module IV: OBAT			
	District		
Indicator	Numerator	Denominator	%
Respondent believes that they can explain the implication of the results of the data analysis	*	*	*

Table 5C.29 Use of information

Use of information

Indicator: Mean scores of level of perceived ability to use information for problem-solving or making decisions

Sum of all self-ratings from 0–10 on ability to use information for problem-solving or decision making Total # of respondents x10 X 100

Data Source—Module IV: OBAT			
		District	
Indicator	Numerator	Denominator	%
Respondent believes that they can use data for identifying service performance gaps and setting performance targets	*	*	*
Respondent believes that they can use data for making operational/ management decisions	*	*	*
Combined score			*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5C.30 Motivation among staff

The motivation among staff	
Indicator: Mean score of Staff motivation level to perform RHIS tasks	
Sum of 5 respondent scores on perceived staff motivation to perform RHIS tasks	
(Total # of respondents x 5) x 7	X 100
5 being the highest possible score on every answer.	
5 being the number of questions asked to calculate this specific indicator.	
We assume that the same number of people answered questions BC1 through BC5.	

Indicator	Numerator	Denominator	%
Respondent's motivation to perform RHIS tasks	*	*	*

Table 5C.31 Knowledge of the rationale for RHIS data

Knowledge

Indicator: Mean scores of knowledge of the rationale for RHIS data

Sum of respondent scores on the selected different items

Total # of respondents x 3

Data Source—Module IV: OBAT				
District				
	Numerator Denominator %			
Indicator				
Describe et	Newborn diseases/conditions/diagn oses on a monthly basis	*	*	*
least three	Newborn Immunization	*	*	*
collecting or	Maternal age	*	*	*
using the following data	Age of newborn	*	*	*
on a monthly basis	Geographical data or residence of families	*	*	*
	Why population data is needed	*	*	*
Knowledge of the rationale for RHIS data			*	

– X 100

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5C.32 Knowledge of data quality checking methods

Indicator: Mean scores of knowledge of data quality checking methods		
	Sum of respondent scores on the selected different items X 100	
	Total # of respondents x 3	

Data Source—Module IV: OBAT			
District			
Questions Numerator Denominator		Denominator	%
Describe at least three aspects of data quality	*	*	*
Describe at least three ways of ensuring data quality relevant to your job classification/responsibilities	*	*	*
Knowledge of data quality checking methods			*

Table 5C.33 Actual skills to perform RHIS tasks—competence level in calculating indicators

Actual skills to perform RHIS tasks

Indicator: Mean scores of competency level in calculating indicators

Sum of respondent scores on the selected different items

Total # of respondents

Data Source—Module IV: OBAT			
	District		
Questions	Numerator	Denominator	%
Calculate the percentage of pregnant mothers at the district level attending antenatal care in the current period	*	*	*
What is the neonatal mortality rate?	*	*	*
Calculate the number of newborns who died	*	*	*
Competence level in calculating indicators			*

- X 100

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5C.34 Actual skills to perform RHIS tasks—competence level in plotting data/preparing charts

Indicator: Mean score of competency level in plotting data/preparing charts

Sum of respondent scores on the selected different items Total # of respondents X 100

Data Source—Module IV: OBAT			
District			
Questions Numerator Denon			%
Develop a bar chart depicting the distribution across the			
maternal ages of newborns with a low birthweight at the four	*	*	*
facilities			

Table 5C.35 Actual skills to perform RHIS tasks—interpreting data

Indicator: Mean scores of competency level in interpreting data

Sum of respondent scores on the selected different items X 100

Total # of respondents x2

Data Source—Module IV: OBAT			
	District		
Scoring	Numerator	Denominator	%
Scoring for CD2b: Interpret the graph presented in CD2b	*	*	*
Scoring for CD2c (CD2c1 +CD2c2): Does the district level have the coverage rate (80%) by the end of 2020 for CD2c1? What guidance could you provide on these data for CD2C2?	*	*	*
Competence level in interpreting data			*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5C.36 Actual skills to perform RHIS tasks—competence level in problem solving

Indicator: Mean scores of competency level in problem solving

Sum of respondent scores on the selected different items X 100 Total # of respondents x n (n=2, 3, or 5)

Data Source—Module IV: OBAT			
	District		
Scoring	Numerator	Denominator	%
Scoring for PSa : Description of data quality problem	*	*	*
Scoring for PSb: Potential reasons for data quality problem	*	*	*
Scoring for PSc: Major activities to improve the data quality * *			*
Competence level in problem solving			

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 5C.37 Actual skills to perform RHIS tasks—competence level in use of information

Indicator: Mean scores of competency level in use of information		
Sum of respondent scores on the selected different items	¥ 400	
Total # of respondents	X 100	

Data Source—Module IV: OBAT			
	District		
Scoring	Numerator	Denominator	%
Scoring for CD2d1 : Provide at least one use of the chart findings at the facility level	*	*	*
Scoring for CD2d2 : Provide at least one use of the chart findings at the community level	*	*	*
Scoring for CD2d3: Provide at least one use of the chart findings at the district level	*	*	*
Competence level in use of information			*

5D. Organizational Factors—Facility level

Section 5D. Tables: Organizational Factors—Facility Level

D. RHIS Performance Determinants: Organizational Factors-Facility Level

Table 5D.1 Supervision quality

Supervision quality

Indicator: % of districts that have effective supportive supervision to improve RHIS performance Indicator: % of districts that have effective supportive supervision practices /tools to improve RHIS performance

Sum of site's points X 100 Total # of sites assessed x 6

The method to calculate a site's score is outlined below. Add the number of points based on the respondent's answers. These point are your numerator. Numerator scores can range from 1 to 6.

Frequency of district's supervision visits at facilities

Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)				
Indicators		Numerator	Denominator	Global score of quality of supervision
Frequency of district	>4 times	0	16	0%
supervisor's visit(s) over the past three months,	4 times	0	16	0%
	3 times	3	16	19%
received supervision	2 times	4	16	25%
visit(s)	1 time	7	16	44%
Facility did not receive a supervision visit		2	16	13%
% of facilities supervised at least once		14	16	88%

Table 5D.2 Supervision quality—overall score

Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)					
Indicators Points to add to numerator Denominator					
Overall quality of supervision	58	70	83%		

Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)						
Indicators	Denominator	%				
Supervisor checked the data quality	13	14	93%			
Supervisor used checklist to assess data quality	13	14	93%			
During visit, district supervisor discussed health facility's performance based on RHIS information	13	14	93%			
Supervisor helped respondent make a decision or take corrective action based on the discussion	12	14	86%			
Supervisor sent a report/written feedback on the last supervisory visit(s)	7	14	50%			
Global quality of supervision						

Table 5D.3 Supervision quality at facility level—individual and mean scores

Table 5D.4 Infrastructure for RHIS—data management

Infrastructure for RHIS data management

Indicator: % of sites with Internet connectivity

Total number of sites with available recording and reporting forms X 100 Total # of sites assessed

Data Source—Module V: Facility/Office Checklist						
Indicator Numerator Denominator						
Access to an internet network	11	16	69%			

Table 5D.5 RHIS supplies for data collection and aggregation—total recording and reporting forms

— X 100

RHIS supplies for data collection and aggregation

Indicator: % of sites with an adequate supply of RHIS recording and reporting forms

Total # of sites with available recording and reporting forms Total # of sites assessed

Data Source: Module 5. Facility/Office Checklist							
Tool Availability	Tools ID	Numerator	Denominator	%			
Maternal health services							
Maternal health services—Labour and delivery printed register	5.1	16	16	100%			
Maternal health services—Operation theatre printed register	5.2	4	16	25%			
Maternal health services—Postnatal ward printed register	5.3	16	16	100%			
Maternal health services—Printed death register	5.4	4	16	25%			
Child health services							
Child health services—Postnatal ward printed register	6.1	16	16	100%			
Child health services—Kangaroo mother care ward/corner printed register	6.2	1	16	6%			
Child health services—Neonatal inpatient care ward printed register	6.3	1	16	6%			
Child health services—Special care newborn ward printed register	6.4	1	16	6%			
Child health services—Intensive care newborn ward printed register	6.5	1	16	6%			
Child health services—Printed death register	6.6	1	16	6%			

Table 5D.6 RHIS supplies for data collection and aggregation—standard recording and reporting forms

Indicator: % of sites with an adequate supply of standard RHIS recording and reporting forms

 Total # of standard RHIS tools available at the facility or office
 X 100

 Total # of tools available at the facility or office
 X 100

Data Source: Module 5. Facility/Office Checklist					
Standard RHIS tool	Tools ID	Numerator	Denominator	%	
Maternal health services					
Maternal health services—Labour and delivery printed register	5.1	16	16	100%	
Maternal health services— Operation theatre printed register	5.2	0	4	0%	
Maternal health services—Postnatal ward printed register	5.3	16	16	100%	
Maternal health services—Printed death register	5.4	2	4	50%	
Child health services					
Child health services—Postnatal ward printed register	6.1	16	16	100%	
Child health services—Kangaroo mother care ward/corner printed register	6.2	1	1	100%	
Child health services—Neonatal inpatient care ward printed register	6.3	1	1	100%	
Child health services—Special care newborn ward printed register	6.4	0	1	0%	
Child health services—Intensive care newborn ward printed register	6.5	0	1	0%	
Child health services—Printed death register	6.6	2	3	67%	

Table 5D.7 Facilities or offices with no stock-outs of recording and reporting tools within the past six months

Indicator: % of facilities or offices with no stock-outs of recording and reporting tools within the past six months

Total # of offices that experienced no stockouts (always available) in last 6 months Total # of offices assessed X 100

Data Source: Module 5. Facility/Office Checklist								
Stock available	Tools ID	Numerator	Denominator	%				
Maternal health services								
Maternal health services—Labour and delivery printed register	5.1	0	16	0%				
Maternal health services—Operation 5.2		0	16	0%				
Maternal health services—Postnatal ward 5.3		1 16		6%				
Maternal health services—Printed death register	5.4	5.4 0 16		0%				
Child health services								
Child health services—Postnatal ward printed register	6.1	1	16	6%				
Child health services—Kangaroo mother care ward/corner printed register	6.2	0	16	0%				
Child health services—Neonatal inpatient care ward printed register	6.3	0	16	0%				
Child health services—Special care newborn ward printed register	6.4	0	16	0%				
Child health services—Intensive care newborn ward printed register	6.5	0	16	0%				
Child health services—Printed death register	6.6	0	16	0%				

Table 5D.8 Availability of staff—Designated to compile and analyze data

Availability of staff to compile and analyze data Indicator: % of sites that have designated staff responsible for entering data/compiling reports

Total # of sites with designated staff responsible for entering data/compiling reports X 100 Total # of sites assessed

Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)					
Indicator Numerator Denominator %					
A designated person enters data/compiles reports from the different units in the health facility	15	16	94%		

Table 5D.9 Availability of staff—designated for internal data quality review

Indicator: % of sites that have designated staff for internal data quality review

Total number of sites that have designated staff for internal data quality review X 100 Total # of sites assessed

Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)						
Indicator	Numerator	Denominator	%			
District level has a designated person to review the quality of compiled data prior to submission to the next level (Yes)	14	16	88%			
District level has a designated person to review the quality of compiled data prior to submission to the next level (Partially)	1	16	6%			

Table 5D.10 Availability of staff-designated for data analysis and dissemination

Indicator: % of sites that have designated staff for data analysis and dissemination

 Total # of sites that have designated staff for data analysis and dissemination
 X 100

 Total # of sites assessed
 X 100

Data Source: Module 5. Facility/Office Checklist							
Staff	Title	Fillir	ng out registers		For preparir	ng or completing	reports
Code	Title	Numerator	Denominator	%	Numerator	Denominator	%
1	Medical officer	9	16	56%	9	16	56%
2	Comprehensive nurse registered	11	16	69%	11	16	69%
3	Comprehensive nurse enrolled	14	16	88%	14	16	88%
4	Nursing assistant	7	16	44%	4	16	25%
5	Clinical officer	13	16	81%	13	16	81%
6	Laboratory assistant	9	16	56%	2	16	13%
7	Health assistant	1	16	6%	0	16	0%
8	Dispenser	1	16	6%	1	16	6%
9	Health information assistant	0	16	0%	1	16	6%
10	Health educator	0	16	0%	0	16	0%
11	Health inspector	0	16	0%	0	16	0%
12	Laboratory technician	7	16	44%	8	16	50%
13	Public health dental assistant	4	16	25%	2	16	13%
14	Anesthetic officer	1	16	6%	1	16	6%
15	Midwife	0	16	0%	0	16	0%
16	Support staff	0	16	0%	0	16	0%
96	Other (specify)	6	16	38%	4	16	25%

Data Source—Module V: Facility/Office Checklist						
		Facility				
Variables		Numerator	Denomator	Ratio		
Someone responsible for filling out registers	Any designated staff	83	16	5.19		
Someone responsible for preparing or completing the HMIS monthly reports	Any designated staff	70	16	4.38		

Table 5D.11 Ratio designated staff for data analysis and dissemination per facility

Table 5D.12 RHIS capacity development—RHIS training

RHIS capacity development

Indicator: % of staff who have received RHIS training (among those who are responsible for performing various RHIS tasks)

Total # of staff received RHIS training among those responsible for RHIS tasksX 100Total # of staff who are responsible for RHIS tasks (one of two denominators possible)X 100

Data Source—Module V: Facility/Office Checklist							
			Among those r for filling out r facilit	esponsible egisters at y	Among those r for preparing/ monthly HMI	Among those responsible for preparing/ completing monthly HMIS reports	
Staff Code	Staff	Numerator	Denominator 1	%	Denominator 2	%	
1	Medical officer	8	83	10%	70	11%	
2	Comprehensive nurse registered	3	83	4%	70	4%	
3	Comprehensive nurse enrolled	5	83	6%	70	7%	
4	Nursing assistant	1	83	1%	70	1%	
5	Clinical officer	6	83	7%	70	9%	
6	Laboratory assistant	0	83	0%	70	0%	
7	Health assistant	1	83	1%	70	1%	
8	Dispenser	0	83	0%	70	0%	
9	Health information assistant	1	83	1%	70	1%	
10	Health educator	0	83	0%	70	0%	
11	Health inspector	0	83	0%	70	0%	
12	Laboratory technician	2	83	2%	70	3%	
13	Public health dental assistant	0	83	0%	70	0%	
14	Anesthetic officer	1	83	1%	70	1%	
15	Midwife	0	83	0%	70	0%	
16	Support staff	0	83	0%	70	0%	
96	Other (specify)	3	83	4%	70	4%	

Table 5D.13 RHIS capacity development—received training by type

Indicator: % of staff who have received training, by type of training

Total # of staff receiving training, by type of training

Total # of staff who are responsible for RHIS tasks (one of two denominators possible) X 100

Data Source—Module V: Facility/Office Checklist							
		Responsible for filling out the registers			Responsil completing the	ole for preparing HMIS monthly	l or reports
v	ariables	Numerator	Denomator	%	Numerator Denomator %		
Subject of last training	Data collection	27	83	33%	27	70	39%
	Data analysis	13	83	16%	13	70	19%
	Data display	6	83	7%	6	70	9%
	Data reporting	16	83	19%	16	70	23%
	Using data for decision making	13	83	16%	13	70	19%

Table 5D.14 Commitment and support for high-quality data

Commitment and support for high-quality data

Indicator: Mean score of respondents who perceive that the organization gives due emphasis to data quality

Sum of 3 respondent scores on perceived organizational emphasis on data quality (Total # of respondents x = 5) x = 3

- X 100

5 being the highest possible score on every answer.

3 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions S2, S6, and S8.

Data Source—Module VI: OBAT				
Health Facility				
Indicator	Numerator Denominator %			
Respondent perceives that the organization gives due emphasis to data quality	650	840	77%	

Table 5D.15 Commitment and support of information use

 Commitment and support of information use

 Indicator: Mean score of respondents who perceive that the organization supports information use

 Sum of 4 respondent scores on perceived organizational support of information use
 X 100

 (Total # of respondents x 5) x 4
 X 100

 5 being the highest possible score on every answer.
 4 being the number of questions asked to calculate this specific indicator.

 We assume that the same number of people answered questions S4, S7, P5, and P8.
 P8.

See additional instructions above in section J.

Data Source—Module VI: OBAT				
Health Facility				
Indicator	Numerator Denominator			
Respondent perceives that the organization supports information use	763	1120	68%	

Table 5D.16 Evidence-based decision making

Evidence-based decision making

Indicator: Mean score of respondents who perceive that the organization promotes a culture of evidencebased decision making

Sum of 9 respondent scores on perceived organizational culture of evidence-based decision making (Total # of respondents x 5) x 9

5 being the highest possible score on every answer.

9 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions D1 through D9.

Data Source—Module IV: OBAT				
Health Facility				
Indicator	Numerator	Denominator	%	
Respondent perceives the organization as promoting a culture of evidence-based decision making	1230	2800	44%	

Table 5D.17 Promotion of problem solving

Promotion of problem solving

Indicator: Mean score of respondents who perceive that the organization promotes a culture of problem solving

Sum of 4 respondent scores on perceived organizational promotion of a problem-solving culture X 100 Total # of respondents x 5 x 4

5 being the highest possible score on every answer.

4 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions S5, P6, P7, and P9.

See additional instructions above in section J.

Data Source—Module IV: OBAT				
	Health Facility			
Indicator	Numerator Denominator %			
Respondent perceives that the organization promotes a culture of problem solving	772	1120	69%	

Table 5D.18 Sharing information between levels

Sharing information between levels Indicator: Mean score of respondents who perceive that the organization promotes bidirectional flow of feedback Sum of 2 respondent scores on perceived organizational promotion of bidirectional flow of feedback X 100 (Total # of respondents x 5) x 2 5 being the highest possible score on every answer.

2 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions S1 and S3.

See additional instructions above in section J.

Data Source—Module IV: OBAT				
Health Facility				
Indicator	Numerator Denominator %			
Respondent perceives that the organization promotes bidirectional flow of feedback	432	560	77%	

Table 5D.19 Sense of responsibility

Sense of responsibility

Indicator: Mean score of respondents who perceive that the organization has a culture that instills a sense of responsibility

Sum of 5 respondent scores on perceived organizational culture of instilling a sense of responsibility X 100 (Total # of respondents x 5) x 5

5 being the highest possible score on every answer.

5 being the number of questions asked to calculate this specific indicator.

We assume the same number of people answered questions P1, P2, P3, P4, and P12.

Data Source—Module IV: OBAT				
	Health Facility			
Indicator	Numerator Denominator %			
Respondent perceives that the organization has a culture that instills a sense of responsibility	989	1400	71%	

Table 5D.20 Empowerment and accountability

Empowerment and accountability

Indicator: Mean score of respondents who perceive that the organization empowers people to ask questions, seek improvement, learn, and improve quality through useful information

Sum of 2 respondent scores on perceived organizational empowering for learning and improvement X 100

(Total # of respondents x 5) x 2

5 being the highest possible score on every answer.

2 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions P10 and P11.

Data Source	ce—Module IV: OBAT

	Health Facility		
Indicator	Numerator	Denominator	%
Respondent perceives that the organization empowers people to ask questions, seek improvement, learn, and improve quality through useful information	388	560	69%

Table 5D.21 Rewarding good performance

Rewarding good performance

Indicator: Mean score of respondents who perceive that the organization recognizes and rewards good performance

Sum of respondent scores on perceived organizational recognition and reward of performance Total # of respondents x 5

5 being the highest possible score on every answer.

Data Source—Module IV: OBAT				
Health Facility				
Indicator	Numerator Denominator %			
Respondent perceives that the organization recognizes and rewards good performance	166	280	59%	

Table 5D.22 Data quality assurance

Data quality assurance

Indicator: Mean score of level of perceived ability to perform data quality checks

Sum of all self-ratings from 0–10 on ability to perform data quality checks
Total # of respondents X10
X 100

Data Source—Module IV: OBAT				
Health Facility				
Indicator	Numerator	Denominator	%	
Respondent believes that they can check data accuracy	403	560	66%	

Table 5D.23 Calculating indicators

Calculating indicators Indicator: Mean score of level of perceived ability to calculate indicators	
Sum of all self-ratings from 0–10 on ability to calculate indicators Total # of respondents x10	X 100
Data Source—Module IV: OBAT	

Data Source—Module IV: OBAT				
	Health Facility			
Indicator	Numerator Denominator %			
Respondent believes that they can calculate percentages/rates correctly	372	560	66%	

Table 5D.24 Data presentation

Data presentation

Indicator: Mean score of level of perceived ability to prepare data visuals

Sum of all self-ratings from 0–10 on ability to prepare data visuals X 100 Total # of respondents x10

Data Source—Module IV: OBAT					
Health Facility					
Indicator	Numerator Denominator %				
Respondent believes that they can plot a trend on a chart	362	560	65%		

Table 5D.25 Data interpretation

Data interpretation		
Indicator: Mean score of level of perceived ability to interpret data		
Sum of all self-ratings from 0–10 on ability to interpret data	X 100	
Total # of respondents x10		

Data Source—Module IV: OBAT					
	Health Facility				
Indicator	Numerator Denominator %				
Respondent believes that they can explain the implication of the results of the data analysis	392	560	70%		

Table 5D.26 Use of information

Use of information

Indicator: Mean scores of level of perceived ability to use information for problem-solving or making decisions

Sum of all self-ratings from 0–10 on ability to use information for problem-solving or decision making Total # of respondents x10 X 100

Data Source—Module IV: OBAT				
		Health Facility		
Indicator	Numerator	Denominator	%	
Respondent believes that they can use data for identifying service performance gaps and setting performance targets	393	560	70%	
Respondent believes that they can use data for making operational/ management decisions	225	560	40%	
Combined score			55%	

Table 5D.27 The motivation among staff

The motivation among staff

Indicator: Mean score of Staff motivation level to perform RHIS tasks

Sum of 5 respondent scores on perceived staff motivation to perform RHIS tasks (Total # of respondents x 5) x 7

_ X 100

5 being the highest possible score on every answer. 5 being the number of questions asked to calculate this specific indicator.

We assume that the same number of people answered questions BC1 through BC5.

Indicator	Numerator	Denominator	%
Respondent's motivation to perform RHIS tasks	116	1960	6%

Table 5D.28 Knowledge

Knowledge	
Indicator: Mean scores of knowledge of the rationale for RHIS data	
Sum of respondent scores on the selected different items Total # of respondents x 3	———— X 100

Data Source—Wodule IV: OBAT				
		Health Facility		
		Numerator	Deninator	%
	Indicator			
	Newborn diseases/ conditions/ diagnoses on a monthly basis	118	168	70%
Describe at least	Newborn Immunization	106	168	63%
collecting or	Maternal age	110	168	65%
using the following data on	Age of newborn	98	168	58%
a monthly basis	Geographical data or residence of families	105	168	63%
	Why population data is needed	100	168	60%
Knowledge of the ra	Knowledge of the rationale for RHIS data 63			

Table 5D.29 Knowledge of data quality checking methods

Indicator: Mean scores of knowledge of data quality checking methods

Sum of respondent scores on the selected different items Total # of respondents x 3

— X 100

Data Source—Module IV: OBAT				
	Health Facility			
Questions	Numerator	Denominator	%	
Describe at least three aspects of data quality	78	168	46%	
Describe at least three ways of ensuring data quality relevant to your job classification/ responsibilities	82	168	49%	
Knowledge of data quality checking methods			48%	

Table 5D.30 Actual skills to perform RHIS tasks—competence level in calculating indicators

Actual skills to perform RHIS tasks Indicator: Competence level in calculating indicators

Data Source—Module VI: OBAT			
	Health Facility		
	Numerator	Denominator	%
Calculate the % of eligible newborns receiving KMC (head of the facility)	4	56	7%
What is the neonatal mortality rate—boys? (head of the facility)	2	56	4%
What is the neonatal mortality rate—girls? (head of the facility)	2	56	4%
What is the neonatal mortality rate? (agents)	23	56	41%
Calculate the number of newborns who died (agent)	22	56	39%
Competence level in calculating indicators			19%

Table 5D.31 Actual skills to perform RHIS tasks—competence level in plotting data/preparing charts

Indicator: Competence level in plotting data/preparing charts

Scoring for CS2a: Correct presentation of the line graph gets one point. Wrong answers (or no answers) get a score of zero.

Data Source—Module VI: OBAT			
		Facility	
Question	Numerator	Denominator	%
Develop a line graph depicting the trend over one year of KMC coverage among eligible babies born at X health facility	37	56	66%

Table 5D.32 Actual skills to perform RHIS tasks—competence level interpreting data

Indicator: Competence level in interpreting data

Data Source—Module VI: OBAT			
	Numerator	Denominator	%
Scoring for CF2b : What the graph tells you	6	112	5%
Scoring for CF2c: Calculate target	8	112	7%
Scoring for CS2b : Interpret a graph	51	96	53%
Scoring for CS2c : Pointing out specificity of a graph, trend, or irregularity	36	96	38%
Competence level in interpreting data			26%

Table 5D.33 Actual skills to perform RHIS tasks—competence level in problem solving (individual)

Indicator: Competence level in problem solving (individual)

Data Source—Module VI: OBAT			
	Numerator	Denominator	%
Scoring for PSa : Description of data quality problem	58	112	52%
Scoring for PSb: Potential reasons for data quality problem	76	168	45%
Scoring for PSc: Major activities to improve the data quality	105	280	38%
Competence level in problem solving			45%

Table 5D.34 Actual skills to perform RHIS tasks—competence level in problem solving (group)

Indicator: Competence level in problem solving (group)

Data Source—Module VI: OBAT										
	Numerator	merator Denominator								
Scoring for PSb-X1 : Potential reasons for data quality problem	24	168	14%							
Scoring for PSc-X2: Major activities to improve the data quality	34	280	12%							
Competence level in problem solving										

Table 5D.35 Actual skills to perform RHIS tasks—competence level in use of information

Indicator: Competence level in use of information

Data Source—Module VI: OBAT											
	Numerator	Denominator	%								
Scoring for CS2d1 : Provide at least one use of chart findings at the facility level.	31	56	55%								
Scoring for CS2d2 : Provide at least one use of chart findings at the community level.	31	56	55%								
Competence level in use of information	55%										

5E. Summary Tables for Organizational factors

Table 5E.1 Summary tables for Organizational Factors—overall

			Central			Regional			District			Facility		
Domain		Indicator	Numerator	Denoinator	%	Numerator	Denoinator	%	Numerator	Denomnator	%	Numerator	Denominor	%
RHIS governance	Good RHIS governance structures in place	Has a written document describing the RHIS mission, roles, and responsibilities that are related to strategic and policy decisions at central and higher levels	*	*	*	*	*	*	*	*	*			
		Has current health service organizational and staff charts showing positions related to health information	*	*	*	*	*	*	*	*	*			
		Has overall framework and plan for information and communication technology (ICT), (e.g., describing the required equipment and plans for training in the use of ICT for RHIS)	*	*	*	*	*	*	*	*	*			
		Office maintains documentation of the dissemination of the RHIS monthly/ quarterly reports to the various health program staff at the central level, the community, local administration, NGOs, etc.	*	*	*	*	*	*	*	*	*			
	Existence of RHIS data managemen t guidelines	Has written SOPs and procedural guidelines for RHIS with data definition, data collection and reporting, data aggregation, processing, and transmission, data analysis, dissemination and use, data quality assurance, MFL, ICD classification, data security, and performance improvement process (Completely)	*	*	*	*	*	*	0	2	0%			

				Central			Regional			District	Facility			
Domain		Indicator	Numerator	Denomnator	%	Numerator	Denomnator	%	Numerator	Denoinator	%	Numerator	Denomnator	%
		Has written SOPs and procedural guidelines for RHIS with data definition, data collection and reporting, data aggregation, processing, and transmission, data analysis, dissemination and use, data quality assurance, MFL, ICD classification, data security, and performance improvement process (Partially)	*	*	*	*	*	*	2	2	100%			
RHIS planning	% of sites with copies of national HIS documents	Has a copy of the national HIS situation analysis/assessment report that is less than three years old	*	*	*	*	*	*	0	2	0%			
		Has a copy of the national three or five-year HIS strategic plan	*	*	*	*	*	*	1	2	50%			
Use of quality improvement standards	% of sites that have RHIS quality improvement standards	Has set RHIS performance targets RHIS performance targets for data accuracy for their respective administrative areas	*	*	*	*	*	*	2	2	100%			
		Has set RHIS performance targets RHIS performance targets for data completeness for their respective administrative areas	*	*	*	*	*	*	2	2	100%			
		Has set RHIS performance targets RHIS performance targets for data timeliness for their respective administrative areas	*	*	*	*	*	*	2	2	100%			

				Central Regional District					Facility					
Domain		Indicator	Numerator	Denoinator	%	Numerator	Denoinator	%	Numerator	Denoinator	%	Numerator	Denomnator	%
Supervision quality	Existence effective supportive	Office has copies of RHIS supervisory guidelines and checklists	*	*	*	*	*	*	2	2	100%			
	practices /tools	Office maintains a schedule for RHIS supervisory visits	*	*	*	*	*	*	2	2	100%			
	improve RHIS performance	Office has copies of the reports from RHIS supervisory visits conducted during the current fiscal year	*	*	*	*	*	*	2	2	100%			
		HFa that received a supervisory visit have copies of the report from latest supervisory visit and commonly agreed action points are listed	*	*	*	*	*	*	2	2	100%			
	% of districts that have effective supportive supervision to improve RHIS performance	Frequency of district supervisor's visit(s) over the past three months, among the facilities that received supervision visit(s) >4 times										0	16	0%
		Frequency of district supervisor's visit(s) over the past three months, among the facilities that received supervision visit(s) 4 times										0	16	0%
		Frequency of district supervisor's visit(s) over the past three months, among the facilities that received supervision visit(s) 3 times										3	16	19%
		Frequency of district supervisor's visit(s) over the past three months, among the facilities that received supervision visit(s) 2 times										4	16	25%
				Central			Regional			District			Facility	
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Domain		Indicator	Numerator	Denoinator	%	Numerator	Denminator	%	Numerator	Denomnator	%	Numerator	Denomnator	%
		Frequency of district supervisor's visit(s) over the past three months, among the facilities that received supervision visit(s) 1 time										7	16	44%
		Facility did not receive a supervision visit										2	16	13%
		% of facilities supervised at least once										14	16	88%
	Quality of Supervision	Supervisor checked the data quality										13	14	93%
		Supervisor used checklist to assess data quality										13	14	93%
		During visit, district supervisor discussed health facility's performance based on RHIS information										13	14	93%
		Supervisor helped respondent make a decision or take corrective action based on the discussion										12	14	86%
		Supervisor sent a report/written feedback on the last supervisory visit(s)										7	14	50%
		Overall quality of supervision										58	70	83%

				Central			Regional			District			Facility	
Domain		Indicator	Numerator	Denomnator	%	Numerator	Denoinator	%	Numerator	Denoinator	%	Numerator	Denomiator	%
Financial resources to support RHIS activities	Existence of financial resource allocation for RHIS activities	Office has a copy of the long- term financial plan for supporting RHIS activities	*	*	*	*	*	*	2	2	100%			
Infrastructur e for RHIS data management	Existence of Internet connectivity	Access to an Internet network	*	*	*	*	*	*	0	0		11	16	69%
RHIS supplies for data	Existence of adequate supply of	Maternal health services— Labour and delivery printed register	*	*	*	*	*	*	*	*	*	16	16	100%
and aggregation	recording/ reporting forms at the	Maternal health services— Operation theatre printed register	*	*	*	*	*	*	*	*	*	4	16	25%
		Maternal health services— Postnatal ward printed register	*	*	*	*	*	*	*	*	*	16	16	100%
		Maternal health services— Printed death register	*	*	*	*	*	*	*	*	*	4	16	25%
		Child health services— Postnatal ward printed register	*	*	*	*	*	*	*	*	*	16	16	100%
		Child health services— Kangaroo mother care ward/corner printed register	*	*	*	*	*	*	*	*	*	1	16	6%
		Child health services— Neonatal inpatient care ward printed register	*	*	*	*	*	*	*	*	*	1	16	6%

				Central			Regional			District			Facility	
Domain		Indicator	Numerator	Denomnator	%	Numerator	Denoinator	%	Numerator	Denoinator	%	Numerator	Denomiator	%
		Child health services—Special care newborn ward printed register	*	*	*	*	*	*	*	*	*	1	16	6%
		Child health services— Intensive care newborn ward printed register	*	*	*	*	*	*	*	*	*	1	16	6%
		Child health services—Printed death register	*	*	*	*	*	*	*	*	*	1	16	6%
	Existence of adequate supply of standard	Maternal health services— Labour and delivery printed register	*	*	*	*	*	*	*	*	*	16	16	100%
	RHIS recording/ reporting	Maternal health services— Operation theatre printed register	*	*	*	*	*	*	*	*	*	0	4	0%
	central level	Maternal health services— postnatal ward printed register	*	*	*	*	*	*	*	*	*	16	16	100%
		Maternal health services— Printed death register	*	*	*	*	*	*	*	*	*	2	4	50%
		Child health services— Postnatal ward printed register	*	*	*	*	*	*	*	*	*	16	16	100%
		Child health services— Kangaroo mother care ward/corner printed register	*	*	*	*	*	*	*	*	*	1	1	100%
		Child health services— Neonatal inpatient care ward printed register	*	*	*	*	*	*	*	*	*	1	1	100%
		Child health services—Special care newborn ward printed register	*	*	*	*	*	*	*	*	*	0	1	0%

				Central			Regional			District			Facility	
Domain		Indicator	Numerator	Denoinator	%	Numerator	Denoinator	%	Numerator	Denoinator	%	Numerator	Denomiator	%
		Child health services— Intensive care newborn ward printed register	*	*	*	*	*	*	*	*	*	0	1	0%
		Child health services—Printed death register	*	*	*	*	*	*	*	*	*	2	3	67%
	Experienced no stock- outs in last 6	Maternal health services— Labour and delivery printed register	*	*	*	*	*	*	*	*	*	16	16	100%
	monuns	Maternal health services— Operation theatre printed register	*	*	*	*	*	*	*	*	*	5	16	31%
		Maternal health services— Postnatal ward printed register	*	*	*	*	*	*	*	*	*	15	16	94%
	Materna Operati register Materna Postnat Materna Printed	Maternal health services— Printed death register	*	*	*	*	*	*	*	*	*	4	16	25%
		Child health services— Postnatal ward printed register	*	*	*	*	*	*	*	*	*	15	16	94%
		Child health services— Kangaroo mother care ward/corner printed register	*	*	*	*	*	*	*	*	*	1	16	6%
	Ch Kai Wa Chi Neo prir	Child health services— Neonatal inpatient care ward printed register	*	*	*	*	*	*	*	*	*	1	16	6%
		Child health services—Special care newborn ward printed register	*	*	*	*	*	*	*	*	*	1	16	6%
		Child health services— Intensive care newborn ward printed register	*	*	*	*	*	*	*	*	*	1	16	6%

				Central			Regional			District			Facility	
Domain		Indicator	Numerator	Denomnator	%	Numerator	Denomnator	%	Numerator	Denoinator	%	Numerator	Denominor	%
		Child health services—Printed death register	*	*	*	*	*	*	*	*	*	3	16	19%
Availability of staff to compile and analyze data	Existence of designated staff responsible for compiling reports	Site level has a designated person responsible for entering data/compiling reports from health facilities	*	*	*	*	*	*	2	2	100%	15	16	94%
	Existence of designated staff for internal data quality review	Site level has a designated person to review the quality of compiled data prior to submission to the next level (Yes)	*	*	*	*	*	*	2	2	100%	14	16	88%
		Site level has a designated person to review the quality of compiled data prior to submission to the next level (Partially)	*	*	*	*	*	*	0	2	0%	1	16	6%

				Central			Regional			District			Facility	
Domain		Indicator	Numerator	Denomnator	Ratio	Numerator	Denomnator	Ratio	Numerator	Denomnator	Ratio	Numerator	Denomnato r	Ratio
Availability	Existence of	Responsible for data analysis	*	*	*	*	*	*	*	*	*			
analyze and disseminate data	staff for data analysis and disseminatio	stence of ignated f for data lysis and eminatio the level Responsible for data analysi Responsible for checking the quality of reports from the lower level Responsible for data	*	*	*	*	*	*	*	*	*			
	ate analysis and c disseminatio n at the level – S	Responsible for data compilation of reports submitted that are coming from the lower levels	*	*	*	*	*	*	*	*	*			
		for preparing or completing the RHIS monthly reports										70	16	4.38

	Responsible for filling out registers					83	16	5.19
	registers							

				Central			Regional			District			Facility	
	Indicator		Numerator	Denominator	%	Numerator	Denominator	%	Numerator	Denominator	%	Numerator	Denominato r	%
RHIS capacity development	Existence of staff capacity development plan at the site level	Has a costed training and capacity development plan that has benchmarks, timelines, and mechanism for on-the-job RHIS training, RHIS workshops, and orientation for new staff	*	*	*	*	*	*	2	2	100%			
	% of staff	Received any RHIS training										31	83	37%
	responsible for filling out registers who have received RHIS training	Received training on data collection										27	83	33%
		Received any RHIS training										31	70	44%

			Central			Regional			District			Facility	
Indicator		Numerator	Denomnator	%	Numerator	Denomnator	%	Numerator	Denomnator	%	Numerator	Denomnato r	%
% of staff responsible for preparing or completing the RHIS monthly reports who have received RHIS training	Received training on data reporting										16	70	23%
% of staff	Received any RHIS training	*	*	*	*	*	*	*	*	*			
for data compilation of reports from the lower levels who have received RHIS training	Received training on data aggregation	*	*	*	*	*	*	*	*	*			
	Received any RHIS training	*	*	*	*	*	*	*	*	*			

			Central			Regional			District			Facility	
Indicator		Numerator	Denomnator	%	Numerator	Denomnator	%	Numerator	Denomnator	%	Numerator	Denomnato r	%
% of staff responsible for checking the quality of reports from the lower levels from the lower levels who have received RHIS training	Received training on check and verify quality of data f	*	*	*	*	*	*	*	*	*			
% of staff	Received any RHIS training	*	*	*	*	*	*	*	*	*			
for data analysis (producing comparison tables, graphs, dashboards who have received RHIS training	Received training on data analysis and interpretation	*	*	*	*	*	*	*	*	*			

Promotion of an information culture

			Central			Regional			District			Facility	
Domain	Indicator	Numerator	Denominator	%	Numerator	Denominator	%	Numerator	Denominator	%	Numerator	Denomin ator	%
Commitment and support for high- quality data	Respondent perceives that the organization gives due emphasis to data quality	*	*	*	*	*	*	*	*	*	650	840	77%
Commitment and support of information use	Respondent perceives that the organization supports information use	*	*	*	*	*	*	*	*	*	763	1120	68%
Evidence-based decision making	Respondent perceives the organization as promoting a culture of evidence- based decision making	*	*	*	*	*	*	*	*	*	1229.8	2800	44%
Promotion of problem solving	Respondent perceives that the organization promotes a culture of problem solving	*	*	*	*	*	*	*	*	*	772	1120	69%
Sharing information between levels	Respondent perceives that the organization promotes bidirectional flow of feedback	*	*	*	*	*	*	*	*	*	432	560	77%
Sense of responsibility	Respondent perceives that the organization has a culture that instills a sense of responsibility	*	*	*	*	*	*	*	*	*	989	1400	71%
Empowerment and accountability	Respondent perceives that the organization empowers people to ask questions, seek improvement, learn, and improve quality through useful information	*	*	*	*	*	*	*	*	*	388	560	69%
Rewarding good performance	Respondent perceives that the organization recognizes and rewards good performance	*	*	*	*	*	*	*	*	*	166	280	59%

Individual skills and behaviour

Self-perception	confidence in RHI	S tasks		Central		1	Regional			District			Facility	
Domain	Inc	dicator	Numerator	Denomnator	%	Numerator	Denomnato r	%	Numerato r	Deinator	%	Numerato r	Denomior	%
Data quality assurance	Respondent believ data accuracy	ves that they can check	*	*	*	*	*	*	*	*	*	403	560	72%
Calculating indicators	Respondent believ calculate percenta	ves that they can ges/rates correctly	*	*	*	*	*	*	*	*	*	372	560	66%
Data presentation	Respondent believ trend on a chart	ves that they can plot a	*	*	*	*	*	*	*	*	*	362	560	65%
Data interpretation	Respondent believe explain the implication the data analysis	ves that they can attion of the results of	*	*	*	*	*	*	*	*	*	392	560	70%
Use of information	Mean scores of level of perceived ability to use information for problem-solving or making	Respondent believes that they can use data for identifying service performance gaps and setting performance targets	*	*	*	*	*	*	*	*	*	393	560	70%
	aecisions	Respondent believes that they can use data for making operational/ management decisions	*	*	*	*	*	*	*	*	*	225	560	40%
		Combined score	*	*	*	*	*	*	*	*	*			55%

Knowledge of th	e RHIS			Central			Regional			District			Facility	
Domain	Indic	ator	Numerator	Denminator	%	Numerator	Denminator	%	Numerator	Denminator	%	Numerator	Denomnator	%
Knowledge rationale RHIS Data	Describe at least three reasons for collecting or using the following data on a monthly basis	Newborn diseases/ conditions/ diagnoses on a monthly basis	*	*	*	*	*	*	*	*	*	118	168	70%
	0000	Newborn Immunization	*	*	*	*	*	*	*	*	*	106	168	63%
		Maternal age	*	*	*	*	*	*	*	*	*	110	168	65%
		Age of newborn	*	*	*	*	*	*	*	*	*	98	168	58%
		Geographical data or residence of families	*	*	*	*	*	*	*	*	*	105	168	63%
		Why population data is needed	*	*	*	*	*	*	*	*	*	100	168	60%
	Mean score of knowledge of the rationale for RHIS data	Combined score	*	*	*	*	*	*	*	*	*			63%
Knowledge Data quality	Describe at least the quality	ree aspects of data	*	*	*	*	*	*	*	*	*	78	168	46%
methods	Describe at least the ensuring data qualit job classification/ re	ree ways of y relevant to your sponsibilities	*	*	*	*	*	*	*	*	*	82	168	49%
	Mean scores of kn quality checking m	owledge of data nethods	*	*	*	*	*	*	*	*	*			48%

Skills to perform RHIS tasks			Central			Regional			District			Facility		
Domain	Ind	licator	Numerator	Denminator	%	Numerator	Denminator	%	Numerator	Denoinator	%	Numerator	Denomnator	%
Actual skills to perform RHIS tasks	Competence level in calculating indicators	Calculate the percentage of pregnant mothers at the central level attending antenatal care in the current period	*	*	*	*	*	*	*	*	*			
		Calculate the % of eligible newborns receiving KMC (head of the facility)	*	*	*	*	*	*	*	*	*	4	56	7%
		What is the neonatal mortality rate— boys? (head of the facility)	*	*	*	*	*	*	*	*	*	2	56	4%
		What is the neonatal mortality rate— girls? (head of the facility)	*	*	*	*	*	*	*	*	*	2	56	4%
		What is the neonatal mortality rate? (agents)	*	*	*	*	*	*	*	*	*	23	56	41%
		Calculate the number of newborns who died (agent)	*	*	*	*	*	*	*	*	*	22	56	39%
		Combined score	*	*	*	*	*	*	*	*	*			19%

Skills to perform RHIS tasks			Central			Regional			District			Facility		
Domain	Ind	icator	Numerator	Denminator	%	Numerator	Denminator	%	Numerator	Denoinator	%	Numerator	Denomiator	%
	Competence level in plotting data/preparin g charts	Develop a bar chart depicting the distribution across the maternal ages of newborns with a low birthweight at the four facilities.	*	*	*	*	*	*	*	*	*			
		Develop a line graph depicting the trend over one year of KMC coverage among eligible babies born at X health facility										37	56	66%
	Competence level in interpreting data	Scoring for graph 2b: What the graph tells you	*	*	*	*	*	*	*	*	*	6	112	5%
		Scoring for graph 2c: Calculate target	*	*	*	*	*	*	*	*	*	8	112	7%
		Scoring for graph 2b: Interpret a graph										51	96	53%
		Scoring for graph 2c: Pointing out specificity of a graph, trend, or irregularity										36	96	38%

Skills to perform RHIS tasks		Central			Regional			District			Facility			
Domain	Ind	icator	Numerator	Denminator	%	Numerator	Denminator	%	Numerator	Denoinator	%	Numerator	Denomnator	%
		Combined score	*	*	*	*	*	*	*	*	*			26%
	Competence level in problem solving	Scoring for PSa: Description of data quality problem	*	*	*	*	*	*	*	*	*	58	112	52%
		Scoring for PSb: Potential reasons for data quality problem	*	*	*	*	*	*	*	*	*	76	168	45%
		Scoring for PSc: Major activities to improve the data quality	*	*	*	*	*	*	*	*	*	105	280	38%
		Combined score	*	*	*	*	*	*	*	*	*			45%
	Competence level in use of information	Scoring for 2d1: Provide at least one use of chart findings at the facility level.	*	*	*	*	*	*	*	*	*	31	56	55%
		Scoring for 2d2: Provide at least one use of chart findings at the community level.	*	*	*	*	*	*	*	*	*	31	56	55%
		Scoring for 2d2: Provide at least one use of chart findings at the central/ district level.	*	*	*	*	*	*	*	*	*			

Skills to perform RHIS tasks			Central			Regional			District			Facility		
Domain	Indicator	Numerator	Denminator	%	Numerator	Denminator	%	Numerator	Denoinator	%	Numerator	Denomiator	%	
	Combined score	*	*	*	*	*	*	*	*	*			55%	

Motivation	Motivation		Central			Regional			District			Facility		
Domain	Indicator	Numera tor	Denominat or	%	Numerato r	Denomina tor	%	Numera tor	Denomina tor	%	Numera tor	Denomin ator	%	
The motivation among staff	Respondent's motivation to perform RHIS tasks	*	*	*	*	*	*	*	*	*	116	1960	6%	

Table 5E.2 Summary tables for Organizational Factors—use of information

	Indicator	Numerator	Denominator	%
	Respondent believes that they can use data for identifying service performance gaps and setting performance targets	393	560	70%
Use of information	Respondent believes that they can use data for making operational/ management decisions	225	560	40%
	Combined score			55%

	Indicator	Numerator	Denominator	%
The motivation among staff	Respondent's motivation to perform RHIS tasks	116	1960	6%

Table 5E.3 Summary tables for Organizational Factors—knowledge rationale RHIS Data

	Indicator		Numerator	Denomintor	%
	Describe at least three reasons for collecting or using the following data on a monthly basis	Newborn diseases/ conditions/ diagnoses on a monthly basis	118	168	70%
		Newborn Immunization	106	168	63%
		Maternal age	110	168	65%
Knowledge rationale RHIS Data		Age of newborn	98	168	58%
		Geographical data or residence of families	105	168	63%
		Why population data is needed	100	168	60%
	Mean scores of knowledge of the rationale for RHIS data	Combined score			63%

	Indicator		Numerato	Denominator	%
	Describe at least three aspects of data quality		78	168	46%
Knowledge Data quality checking methods	Describe at least three ways of ensuring data quality relevant to your job classification/ responsibilities		82	168	49%
incurous	Mean scores of knowledge of data quality checking methods	Combined score			48%

Table 5E.4 Summary tables for Organizational Factors—knowledge Data quality checking methods

	Indicator		Numerator	Denominator	%
		Calculate the % of eligible newborns receiving KMC (head of the facility)	4	56	7%
		What is the neonatal mortality rate—boys? (head of the facility)	2	56	4%
	in calculating indicators	What is the neonatal mortality rate—girls? (head of the facility)	2	56	4%
		What is the neonatal mortality rate? (agents)	23	56	41%
		Calculate the number of newborns who died (agent)	22	56	39%
		Combined score			19%
	Competence level in plotting data/preparing charts	Develop a trend line graph) depicting coverage of fully immunized children 12–23 months, by year	37	56	66%
		Scoring for CF2b: What the graph tells you	6	112	5%
Actual skills		Scoring for CF2c: Calculate target	8	112	7%
to perform RHIS tasks	Competence level in interpreting data	Scoring for CS2b: Interpret a graph	51	96	53%
		Scoring for CS2c: Pointing out specificity of a graph, trend, or irregularity	36	96	38%
		Combined score			26%
		Scoring for PSa: Description of data quality problem	58	112	52%
	Competence level	Scoring for PSb: Potential reasons for data quality problem	76	168	45%
	In problem solving	Scoring for PSc: Major activities to improve the data quality	105	280	38%
		Combined score			45%
		Scoring for CS2d1. Provide			
	Compositores la col	at least one use of chart findings at the facility level.	31	56	55%
	in use of information	Scoring for CS2d2: Provide at least one use of chart findings at the community level.	31	56	55%
		Combined score			55%

Table 5E.5 Summary tables for Organizational Factors—actual skills to perform RHIS tasks

6. Gender Indicators

6A. Gender Factors—Central level

Section 6A. Tables: Gender Factors—Central Level

Gender Indicators: Central Level

Table 6A.1: System capturing gender disaggregated data

A. System capturing gender disaggregated data

Indicator: eRHIS capturing data disaggregated by sex

Data Source—Module III	: eRHIS Assessment Tool Numerator Denominator % * * * *				
Indicator	Numerator	Denominator	%		
RHIS software captures data disaggregated by sex	*	*	*		

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 6A.2: Analysis of data by gender

B. Analysis of data by gender		
Indicator: existence of practice of carrying out gender analysis		
Total # of sites (0 or 1) carrying out gender analysis) Total # of sites assessed (=1)	- X 100	

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Central Level)				
Indicator Numerator Denominator %				
Up-to-date documents containing comparisons of sex-disaggregated data were shown	*	*	*	

Table 6A.3: Use of gender disaggregated data for decision making and planning

C. Use of gender disaggregated data for decision making and planning Indicator: % of sites using gender disaggregated data for decision making Total # of sites (0 or 1) using gender disaggregated data for decision-making X 100 Total # of sites assessed (=1)

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Central Level)				
Indicators	Numerator	Denominator	%	
Reports and/or bulletins contain discussions and decisions based on key performance targets based on RHIS sex-disaggregated data	*	*	*	
Discussions were held to review key performance targets based on RHIS sex disaggregated data	*	*	*	
Decisions were made based on the discussion of the district and/or health facility's performance regarding reducing the gender gap in the provision of health services	*	*	*	
Annual plan exists and contains activities and/or targets related to improving or addressing gender disparity in health services coverage	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 6A.4: Use of gender disaggregated data—identify and address gender disparities in service delivery

Indicator: % of respondents who perceive that the organization emphasizes the need to use RHIS to identify and address gender disparities in service delivery

Sum of respondent score on perceived emphasis in data use to address gender inequity X 100

5 being the highest possible score on every answer

Data Source—Module VI: OBAT				
Indicators	Numerator	Denominator	%	
Respondent perceives that superiors in the health department emphasize the need to use RHIS data to identify potential gender-related disparities in service delivery or use	*	*	*	
Respondent perceives that staff in the health department use sex-disaggregated or gender-sensitive RHIS data to identify and/or solve gender-related problems in service delivery	*	*	*	

Table 6A.5: Percentage of respondents able to show age and sex disaggregation for an indicator

Indicator: % of respondents able to show age and sex disaggregation for an indicator

Total # of respondents able to show age- and sex-disaggregation for an indicator X 100 Total # of respondents

Data Source: Module 3. eRHIS Assessment Tool			
Indicator	Numerator	Denominator	%
Respondent can show age and sex disaggregation for the selected indicator	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 6A.6: Percentage of respondents describe importance of age and sex disaggregation for an indicator

Data Source—Module VI: OBAT				
Indicators	Numerator	Denominator	%	
Describes information acquired by disaggregating the data by sex and how it helps in planning/improving service delivery	*	*	*	
Describe at least three reasons for collecting, or uses of, data on a monthly basis on sex of patients	*	*	*	

6B. Gender Factors-Regional level

Section 6B. Tables: Gender Factors—Regional Level

Gender Indicators: Regional Level

Table 6B.1: System capturing gender disaggregated data

A. System capturing gender-disaggregated data

Indicator: eRHIS capturing data disaggregated by sex

Data Source—Module III: eRHIS Assessment Tool				
Indicator	Numerator	Denominator	%	
RHIS software captures data disaggregated by sex	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 6B.2: Analysis of data by gender

B. Analysis of data by gender	
Indicator: % of sites carrying out gender analysis	
Total # of sites carrying out gender analysis	X 100
Total # of sites assessed	X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Region Level)				
Indicator Numerator Denominator %				
Up-to-date documents containing comparisons of sex-disaggregated data were shown	*	*	*	

Table 6B.3: C. Use of gender-disaggregated data for decision making and planning

C. Use of gender-disaggregated data for decision making and planning

Indicator: % of sites using gender-disaggregated data for decision making

Total # of sites using gender-disaggregated data for decision making Total # of sites assessed

– X 100

- X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (Region Level)				
Indicators	Numerator	Denominator	%	
Reports and/or bulletins contain discussions and decisions based on key performance targets based on RHIS sex-disaggregated data	*	*	*	
Discussions were held to review key performance targets based on RHIS sex disaggregated data	*	*	*	
Decisions were made based on the discussion of the district and/or health facility's performance regarding reducing the gender gap in the provision of health services	*	*	*	
Annual plan exists and contains activities and/or targets related to improving or addressing gender disparity in health services coverage	*	*	*	

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 6B.4: Use of gender-disaggregated data to identify and address gender disparities in service delivery

Indicator: % of respondents who perceive that the organization emphasizes the need to use RHIS to identify and address gender disparities in service delivery

Sum of respondents' score on perceived emphasis in data use to address gender inequity

Total # of respondents x 5

5 being the highest possible score on every answer

Data Source—Module VI: OBAT				
Indicators	Numerator	Denominator	%	
Respondent perceives that superiors in the health department emphasize a need to use RHIS data to identify potential gender related disparities in service delivery or use	*	*	*	
Respondent perceives that staff in the health department use sex disaggregated or gender sensitive RHIS data to identify and/or solve gender related problems in service delivery	*	*	*	

Table 6B.5 Knowledge of the rationale for disaggregating data by gender

D. Knowledge

Indicator: Health workers' knowledge of the rationale for disaggregating data by gender Indicator: % of respondents able to show age- and sex-disaggregation for an indicator

Total # of respondents able to show age- and sex- disaggregation for an indicator X 100

Total # of respondents x (1 or 3)

Data Source: Module III. eRHIS Assessment Tool			
Indicator	Numerator	Denominator	%
Respondent can show age and sex disaggregation for the selected indicator	*	*	*

* not collected during this EN-MINI-PRISM Tools pilot assessment

Table 6B.6 Percentage of respondents describe importance of age and sex disaggregation for an indicator

Data Source—Module VI: OBAT					
Indicators	Numerator	Denominator	%		
Describes information acquired t by disaggregating the data by sex and how it helps in planning/improving service delivery	*	*	*		
Describe at least three reasons for collecting, or uses of, data on a monthly basis on sex of patients	*	*	*		

6C. Gender Factors—District level

Section 6C. Tables: Gender Factors—District Level

Gender Indicators: District Level

Table 6C.1: System capturing gender-disaggregated data

A. System capturing gender-disaggregated data

Indicator: eRHIS capturing data disaggregated by sex

Data Source—Module III: eRHIS Assessment Tool					
Indicator Numerator Denominator %					
RHIS software captures data disaggregated by sex	2	2	100%		

Table 6C.2: System capturing gender-disaggregated data

B. Analysis of data by gender

Indicator: % of sites carrying out gender analysis

 Total # of sites carrying out gender analysis
 X 100

 Total # of sites assessed
 X 100

Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)				
Indicator	Numerator	Denominator	%	
Up-to-date documents containing comparisons of sex- disaggregated data were shown	0	2	0%	

Table 6C.3: Use of gender-disaggregated data for decision making and planning

C. Use of gender-disaggregated data for decision making and planning

Indicator: % of sites using gender-disaggregated data for decision making

Total # of sites using gender disaggregated data for decision-making X 100

Total # of sites assessed

Data Source—Module IIa: RHIS Performance Diagnostic Tool (District Level)			
Indicators	Numerator	Denominator	%
Reports and/or bulletins contain discussions and decisions based on key performance targets based on RHIS sex-disaggregated data	0	2	0%
Discussions were held to review key performance targets based on RHIS sex disaggregated data	0	2	0%
Decisions were made based on the discussion of the district and/or health facility's performance regarding reducing the gender gap in the provision of health services	0	2	0%
Annual plan exists and contains activities and/or targets related to improving or addressing gender disparity in health services coverage	0	2	0%

Table 6C.4: Use of gender-disaggregated data to identify and address gender disparities in service delivery

Indicator: % of respondents that perceive that the organization emphasizes the need to use RHIS to identify and address gender disparities in service delivery

Sum of respondent score on perceived emphasis in data use to address gender inequity Total # of respondents x 5

X 100

5 being the highest possible score on every answer

Data Source—Module VI: OBAT				
Indicators	Numerator	Denominator	%	
Respondent perceives that superiors in the health department emphasize a need to use RHIS data to identify potential gender related disparities in service delivery or use	*	*	*	
Respondent perceives that staff in the health department use sex disaggregated or gender sensitive RHIS data to identify and/or solve gender related problems in service delivery	*	*	*	

Table 6C.5: Indicator: Health workers' knowledge of the rationale for disaggregating data by gender

D. Knowledge Indicator: Health workers' knowledge of the rationale for disaggregating data by gender

 Total # of respondents able to show age and sex disaggregation for an indicator
 X 100

 Total # of districts or facilities assessed
 X 100

Data Source: Module III. eRHIS Assessment Tool			
Indicator	Numerator	Denominator	%
Respondent can show age and sex disaggregation for the selected indicator	1	2	50%

Table 6C.6: Percentage of respondents describe importance of age and sex disaggregation for an indicator

Data Source—Module VI: OBAT				
Indicators	Numerator	Denominator	%	
Describes information acquired by disaggregating the data by sex and how it helps in planning/improving service delivery	*	*	*	
Describe at least three reasons for collecting, or uses of, data on a monthly basis on sex of patients	*	*	*	

6D. Gender Factors—Facility level

Section 6D. Tables: Gender Factors—Facility Level

Gender Indicators: Facility Level

Table 6D.1: Analysis of data by gender

B. Analysis of data by gender

Indicator: % of sites carrying out gender analysis

Total # of sites carrying out gender analysisX 100Total # of sites assessed

Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)				
Indicator	Numerator	Denominator	%	
Up-to-date documents containing comparisons of sex-disaggregated data were shown	3	16	19%	

Table 6D.2: Use of gender-disaggregated data for decision making and planning

C. Use of gender-disaggregated data for decision making and planning

Indicator: % of sites using gender disaggregated data for decision making

Total # of sites using gender disaggregated data for decision making X 100 Total # of sites assessed

Data Source—Module IIb: RHIS Performance Diagnostic Tool (HF Level)				
Indicators	Numerator	Denominator	%	
Reports and/or bulletins contain discussions and decisions based on key performance targets based on RHIS sex-disaggregated data	1	16	6%	
Discussions were held to review key performance targets based on RHIS sex disaggregated data	0	16	0%	
Decisions were made based on the discussion of the district and/or health facility's performance regarding reducing the gender gap in the provision of health services	0	16	0%	
Annual plan exists and contains activities and/or targets related to improving or addressing gender disparity in health services coverage	4	16	25%	

Table 6D.3: Use of gender-disaggregated data for decision making and planning

Indicator: % of respondents who perceive that the organization emphasizes the need to use RHIS to identify and address gender disparities in service delivery

Sum of respondent score on perceived emphasis in data use to address gender inequity X 100 Total # of respondents x 5

Data Source—Module VI: OBAT				
Indicators	Numerator	Denominator	%	
Respondent perceives that superiors in the health department emphasize a need to use RHIS data to identify potential gender related disparities in service delivery or use	210	280	75%	
Respondent perceives that staff in the health department use sex disaggregated or gender sensitive RHIS data to identify and/or solve gender related problems in service delivery	187	280	67%	

Table 6D.4: Health workers knowledge of the rationale for disaggregating data by gender

D. Knowledge Indicator: Health workers knowledge of the rationale for disaggregating data by gender Total # of respondents able to show age and sex disaggregation for an indicator Total # of districts or facilities assessed

Data Source: Module III. eRHIS Assessment Tool				
Indicator Numerator Denominator %				
Respondent can show age and sex disaggregation for the selected indicator	4	8	50%	

Table 6D.5 Percentage of respondents describe importance of age and sex disaggregation for an indicator

Data Source—Module VI: OBAT				
Indicators	Numerator	Denominator	%	
Describes information acquired by disaggregating the data by sex and how it helps in planning/improving service delivery	2	168	1%	
Describe at least three reasons for collecting, or uses of, data on a monthly basis on sex of patients	98	168	58%	

6E. Summary Table for gender indicators

			Central			Regional			District			Facility		
Domain	Indicator		Numerator	Denminator	%	Numerator	Denomiator	%	Numerator	Denomnator	%	Numerator	Denomnator	%
System capturing gender disaggregated data	eRHIS capturing data disaggregated by sex		*	*	*	*	*	*	2	2	100%			
Analysis of data by gender	% of sites carrying out gender analysis	Up-to-date documents containing comparisons of sex- disaggregat ed data were shown	*	*	*	*	*	*	0	2	0%	3	16	19%
Use of gender disaggregated data for decision making and planning	% of sites using gender disaggregat ed data for decision making	Reports and/or bulletins contain discussions and decisions based on key performance targets based on RHIS sex- disaggregat ed data	*	*	*	*	*	*	0	2	0%	1	16	6%
		Discussions were held to review key performance targets based on RHIS sex disaggregat ed data	*	*	*	*	*	*	0	2	0%	0	16	0%
		Decisions were made based on the discussion of the district and/or	*	*	*	*	*	*	0	2	0%	0	16	0%

		Central			Regional			District			Facility			
Domain	Indicator		Numerator	Denminator	%	Numerator	Denomnator	%	Numerator	Denomnator	%	Numerator	Denomiator	%
		health facility's performance regarding reducing the gender gap in the provision of health services												
		Annual plan exists and contains activities and/or targets related to improving or addressing gender disparity in health services coverage	*	*	*	*	*	*	0	2	0%	4	16	25%
	% of respondents who perceive that the organization emphasizes the need to use RHIS to identify and address gender disparities in service delivery	Respondent perceives that superiors in the health department emphasize the need to use RHIS data to identify potential gender- related disparities in service delivery or use	*	*	*	*	*	*	*	*	÷	210	280	75%

		Central			Regional			District			Facility			
Domain	Indicator		Numerator	Denoinator	%	Numerator	Denomnator	%	Numerator	Denomnator	%	Numerator	Denomnator	%
		Respondent perceives that staff in the health department use sex- disaggregat ed or gender- sensitive RHIS data to identify and/or solve gender- related problems in service delivery		*	*	*	*	*	*	*	*	187	280	67%
	% of respondents able to show age and sex disaggregati on for an indicator	Respondent can show age and sex disaggregati on for the selected indicator	*	*	*	*	*	*	1	2	50%	4	8	50%
		Describes information acquired by disaggregati ng the data by sex and how it helps in planning/imp roving service delivery	*	*	*	*	÷	*	*	*	*	2	168	1%
		Describe at least three reasons for collecting, or uses of, data on a monthly basis on sex of patients	*	*	*	*	*	*	*	*	*	98	168	58%

Appendix 2 Overview: The EN-MINI-PRISM Tools



RHIS Overview EN-MINI-PRISM Tool 1

This tool examines technical determinants including the structure and design of existing information systems for newborns, information flows, and interaction of different information systems. It looks at the extent of RHIS fragmentation and redundancy and helps to initiate discussion of data integration and use.

RHIS Performance Diagnostic EN-MINI-PRISM Tool 2

This tool determines the overall level of RHIS performance: the level of data quality and use of information. This tool also captures technical and organizational determinants such as indicator definitions and reporting guidelines; the level of complexity of data collection tools and reporting forms; and the existence of data-quality assurance mechanisms, RHIS data use mechanisms, and supervision and feedback mechanisms.

Electronic RHIS Functionality and Usability Assessment EN-MINI-PRISM Tool 3

This tool examines the functionality and user-friendliness of the technology employed for generating, processing, analyzing, and using routine health data.

Management Assessment EN-MINI-PRISM Tool 4

The Management Assessment Tool (MAT) takes rapid stock of RHIS management practices and supports the development of action plans for better management.

Facility/Office Checklist EN-MINI-PRISM Tool 5

This checklist assesses the availability and status of resources needed for RHIS implementation at supervisory levels.

Organizational and Behavioral Assessment Tool EN-MINI-PRISM Tool 6

The Organizational and Behavioral Assessment Tool (OBAT) questionnaire identifies behavioral and organizational determinants such as motivation, RHIS self-efficacy, task competence, problem-solving skills, and the organizational environment promoting a culture of information.

Organizational and Behavioral Assessment EN-MINI-PRISM Tool 6

The Organizational and Behavioral Assessment Tool (OBAT) questionnaire identifies behavioral and organizational determinants such as motivation, RHIS self-efficacy, task competence, problem-solving skills, and the organizational environment promoting a culture of information.

Data for Impact

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