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PRISM: Performance of Routine Information System Management

PRISM Tools for Assessing, Monitoring, and Evaluating RHIS Performance





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Glossary								
PRISM	Performance of Routine Information System Management							
RHIS	Routine Health Information System							
OBAT	Organizational and Behavioural Assessment Tool							
MAT	Management Assessment Tool							

1. Acknowledgements

1.1. PRISM Tool version 3.0

PRISM Framework and its tools applications have expanded since 2004. Now it has been applied in Pakistan, Uganda, South Africa, Mexico, Paraguay, Honduras, Haiti, China and Cote d'Ivore for assessment and evaluation. It has been applied in diverse countries of Africa, Asia, Latin America and Carribean continents. While these applications showed the strengths and appropriateness of PRISM Framework and its tools in identifying strengths and weaknesses of the routine information systems, they brought some challenges to attention. First, to make a distinction between RHIS performance indicators – accuracy, timeliness and completeness, from their counterpart processes. Second, to keep minimum variables in various tools for triangulation of information to avoid respondent's burden of filling the details. Third, better measurement of use of information. Thus, there was a need to revise the PRISM tools. Uganda PRISM evaluation in 2007 for testing its reliability and validity also helped to make the revisions.

PRISM tools version 3.0 meets old and new challenges in assessing, monitoring and evaluation of RHIS. The authors would like to thank and acknowledge the contributions by the following individuals for revision of PRISM version 2.0.

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1.2. PRISM Tool version 2.0

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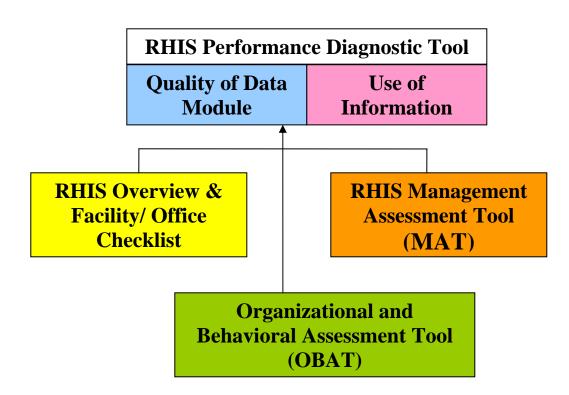
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2. PRISM Tools Summary

PRISM TOOLS



3. RHIS Performance Diagnostic Tool

- 3.1. Data Quality Assessment at District or Higher level
- **3.2. Use of Information Assessment at District or Higher level**
- 3.3. Data Quality Assessment at Facility Level
- 3.4. Use of Information Assessment at Facility Level

	(IS Perform f Data Asse						orm	1	
Name	of the district	C		Date							
	of the Assess								n In	terviewe	d:
			Data	Transm	issio	n					
DQ 1	Does the distri by health facili						sent	1.Ye	s	0.No	
DQ 2	What is the nu to be reporting	mber of fac		listrict that	it are s	suppo	sed				
DQ 3	What is the nu reporting to (en	mber of fac	cilities in the d	listrict that	it are a	actual	ly				
DQ 4	Count number available at the	of monthly	reports for th	ne last two	o mont	ths		a.mo	nth	b.month	
DQ 5	What is the deareport by facili	adline for t		of the Rl	HIS m	onthl	у				If no deadline is set, write no and go to O8
DQ 6	Does the distri report?						-	1.Ye		0.No	If receipt dates are not recorded, go to Q8
	If DQ6 yes, ch		_		st two	mont	ths (sa	ame as	in Ç	Q4).	
		a. Month (specify) b. Month						(speci	ify)		
	Item		1. Before deadline2. After deadline3. Before deadline								
DQ 7	Number of fac										
DQ 8 DQ 9	Does district h report data by from the facilit Does district h	a certain de ties?	eadline after re	eceiving r	nonthl	ly rep	ort	1.Ye		0.No 0.No	
2.47	regional/nation		a of s a onnan					1110		01110	
			Dat	a Accu	racy						
			nber of follow . Compare the								
	Item	a. Month	(specify)		b. M	Ionth	(specif	ý)			
DQ 10		Manual count	Computer	Match	n Manual Com count		mputer		Match		
DQ A											
DQ B											
DQ C											
			Data Pr	ocessin	g/An	alys	is				
DQ 11	data?		enter and proc		0. N	0	1. Y man	es, by ual		2. Yes, by computer	7
DQ 12	Does the dat	abase prod	uce the follow	ving?							
DQ 12/	DQ 12A Calculate indicators for each facility catchment area 1.Yes 0		0.No								
DQ 121	3		Data sum	mary rep	ort for	the d	listric	t 1.Y	les	0.No	
DQ 120	C		Co	mparisons	s amor	ng fac	cilities	s 1.Y	les	0.No	
DQ 12I			omparisons w				-			0.No	
DQ 12I		1	risons among	•			-		es	0.No	
DQ 12I	F Co	mparisons	of data over ti	me (moni	itoring	g over	time)) 1.Y	es	0.No	

DQ13	Do you think that RHIS procedure manual is user-friendly?	1.Yes	0.No	
DQ 14	Do you think that monthly report form is complex and difficult to follow?	0.yes	1.no	
DQ 15	Do you find the data software user-friendly?	1.Yes	0.No	
DQ 16	Do you find that information technology is easy to manage?	1.Yes	0.No	
DQ 17	Do you think that information system design provide comprehensive picture of health system performance?	1.Yes	0.No	
DQ 18	Do you think RHIS has information that is spread over in different information system?	1.Yes	0.No	
DQ 19	Does the RHIS software integrate data from different information systems?	1.Yes	0.No	
DQ 20	Does the information technology (LAN) exist to provides access to information to all district managers and senior management	1.Yes partially	2.Yes completely	0.No
DQ 21				
DQ 22				
DQ 23				
DQ 24				
DQ 25				

	RHIS	Performance Dia	gnostic T	ool		
	Use of Info	rmation District A	Assessme	nt For	m	
		Name of assessor:				
District		Name of respondent and	l title:			
		RHIS report production				
DU1	Does this district office compile	e RHIS Data submitted by	v facilities?	1.Yes	0.No	
DU2	Does the district issue any repo	rt containing RHIS inform	nation?	1.Yes	0.No	If no , go to DU4
DU3	If yes, Please list reports that co	ontain data/information ge	nerated throu	gh RHIS	. Please	
	indicate frequency of reports ar					
	the last 12 months. Please confi					
	1. Title of the report		2.No. of		times that	
			times this report is supposed to be issued per year	-	e actually r the last 12	
DU3a			Jour			
DU3b						
DU3c						
DU3d						
DU3e						
DU4					0.No	
	information to racintics for the	Display of informati	ion			
DU5	Does the district office display and whether the data are update	the following data? Pleas	e indicate typ	es of dat	a displays	If no go to DU6
	1.Indicator	2.Type of display (Plea		3. Upda	nted	
DU5a	Related to mother health	Table		1.Yes	0.No	
		Graph/Chart				
		Map/other				
DU5b	Related to child health	Table		1.Yes	0.No	
		Graph/Chart		1		
		Map/other		1		
DU5c	Facility Utilization	Table		1.Yes	0.No	
		Graph/Chart		1		
		Map/other		1		
DU5d	Disease surveillance	Table		1.Yes	0.No	
		Graph/Chart		1		
		Map/other		1		
DU6	Does the office have a map of c			1.Yes	0.No	
DU7	Does the office display a summ	ary of demographic inform	mation such	1.Yes	0.No	
	as population by target groups?					

DU8	Is feedback, quarterly, yearly or any other report on RHIS of available, which provides guidelines/ recommendations for actions?	1.Ye	es	0.No	If no go to DU10	
DU9	If yes to DU8, what kinds of decisions are made in reports RHIS data/information for actions? Please check types of a based on types of analysis present in reports.					
	Types of decisions based on types of analysis					
DU9a	Appreciation and acknowledgement based on Number/per	centage	1.Ye	26	0.No	
DOJU	of facilities showing performance within control limits or		1.1	00	0.110	
	(month to month comp					
DU9b		acilities	1.Ye	es	0.No	
DU9c	Advocacy for more resources by comparing performance (sub-districts, cities, villages), human resources and l		1.Ye	es	0.No	
DU9d	Development of policies by comparing types of	services	1.Ye	es	0.No	
	Discussion and decisions on use of information		1.Ye	es	0.No	
DU10	Does the district office have routine meetings for reviewing managerial or administrative matters?	5	1.Ye	es	0.No	
DU11	How frequently is the meeting supposed to take place?					
DU12	How many times did the meeting take place during the last months?	three				
DU13	Is an official record of management meetings maintained?	1.Y	es	0.N		no, go U15
DU14	If yes, please check the meeting records for the last three m following topics were discussed:	onths to	see if	the		
DU14a	Management of RHIS, such as data quality, reporting, or timeliness of reporting	1.Yes, ob	served		0. No	
DU14b	Discussion on RHIS findings such as patient utilization, disease data, or service coverage, medicine stock out	1.Yes, ob	served		0. No	
DU14c	Have they made any decisions based on the above discussions?	1.Yes, ob			0. No	
DU14d	Has any follow-up action taken place on the decisions made during the previous meetings?	1.Yes, ob			0. No	
DU14e	Are there any RHIS related issues/problems referred to regional/national level for actions?	1.Yes, ob	served		0. No	
	Promotion and Use of RHIS information at district/high		-			
DU15	Did district annual action plan showed decisions based on I information?		1.Ye	es	0.No	
DU16	Did records of district office of last three months show that district/senior management issued directives on use of information of the second		1.Ye	es	0.No	
DU17	Did district/national RHIS office publish newsletter/report three months showing success stories of use of information		1.Ye	es	0.No	
DU18	Does documentation of use information for various types o advocacy exist?	f	1.Ye	es	0.No	
DU19	Does the district staff meeting records show attendance of p in charge of the facilities for discussion on RHIS performan		1.Ye	es	0.No	
DU20: P manager	lease describe examples of how the district office uses RHIS nent 0. No exa					

DU21	
DU22	
DU23	
DU24	
DU25	

	Onality			ance Diag ment: Hea			orm			
Date o	of Assessment:	Name of				Name an Interviev	d Title	of pers	on	
Distric	rt	Facility				Гуре				
Distil		1 donity	Data l	Recording		JP•				
FQ1	Does this facility kee	p copy of R		0	nt to	1.Yes	0.1	No	If no, go	
- 2-	the district office?	p copy of it		ing reports se				to FQ5		
FQ 2	Count the number of facility for the last 12		hly reports	s that are kept	t at the	e				
FQ 3	Does this facility kee		_			1.Yes	0.N		f no, go o FQ5	
	Γ			curacy Che						
	Find the following in does not keep the cop complete the exercise	by of the mo	nthly repo	rt, obtain the	copy at	the district	office a			
	Item		a. Month			nth (specify)				
FQ 4		-	# from register	# from report	# fron	n register	# from	n report		
4A			register							
4B										
4C										
4D										
FQ 5	Did you receive a dir	ective from	the Senior	· Managemen	t/district	t office to:				
- (-	5A Check the data			-		1.Y	es, served	0. No		
	5B Fill the month	ly report for	m complet	tely		1.Y		0. No		
	5C Submit report	by declared	deadline			1.Y Obs	es, served	0. No		
FQ 6	Did you receive a dir will be consequences		the Senior	Managemen	t/district	t office tha	t there			
	6A if you do not c			·			served	0. No		
	6B If you do not f						served	0. No		
	6C If you do not s	submit the m		•			es, served	0. No		
FO 7	With set is the survey have	f data itama		ompletene		4 fo a:1:4				
FQ 7	What is the number of need to report? Exclu	ides the num								
FQ 8	provided by this heal Count the number of facility but left blank	data items t								
1				Data Proce						
FQ 9	Does data processing				<u> </u>	. Yes, Obser	ved	0. No		
FQ 10	Does the facility proc	-			-	.,		5.110		
FQ A	2 ses the facility prot			acility catchm	nent area	1. Yes (Observed	0. No		
FQ B				istrict/nationa			Observed	0. No		
FQC	Cor			s of services of			Observed	0. No		
FQ D				monitoring ov) 1. Yes, 0	Observed	0. No		
FQ 11	Does the procedure n	nanual for d	ata collect	ion/definition	ns exist?	1. Yes, 0	Observed	0. No		

FQ 12	
FQ 13	
FQ 14	
FQ 15	
FQ 16	

	RHIS Use of Info				gnostic T Assessme		·m			
Date:			Name c							
Facility	Name:					le				
	acility Name: Name of respondent and title: Acility Type: District:									
1 acmity		RHIS rep			n					
FU1	Does this facility compile RH		011 p10	uucno		1.Yes	0.No			
FU2	Does the facility compile any		aining P	DUIS in	formation?	1.Yes	0.No	If no, go to		
		-	-					FU4		
FU3	If yes, Please list reports that									
	indicate frequency of reports						issued for			
	the last 12 months. Please con	nfirm the iss	uance o	of the re						
	1. Title of the report				2. No. of times this report is supposed to be issued per year	report are	times that e actually r the last 12			
FU3a										
FU3b										
FU3c										
FU3d										
FU4	Did the facility receive any fe their performance for the last			distric	t office on	1.Yes	0. No			
		Display o		mation	l	1				
FU5	Does the facility display the f whether the data are updated	for the last r	eporting	g perio	d.	data disp	plays and	If no go to FU6		
	1. Indicator	2. Type of	display (F	Please tic	k)	3. Upda	ated			
FU5a	Related to mother health	Table Graph/Cha Map/other	rt			1.Yes	0.No			
FU5b	Related to child health	Table Graph/Cha Map/other	rt			1.Yes	0.No			
FU5c	Facility Utilization	Table Graph/Cha Map/other	rt			1.Yes	0.No			
FU5d	Disease surveillance	Table Graph/Cha Map/other	rt			1.Yes	0.No			
FU6	Does the facility have a map	of catchmen	t area?			1.Yes	0.No			
FU7	Does the office display a sum such as population by target g	nmary of den		nic info	rmation	1.Yes	0.No			
FU8	Is feedback, quarterly, yearly available, which provides gui					1.Yes	0.No	If no go to FU10		

	actions? Please check on types of decision based on types of analyses present in reports.								
	Types of decisions based on types of analyses								
FU9a	Review strategy by examining service performance target and 1.Yes 0.No								
	actual performance on month to month con	0							
FU9b	Review facility personnel responsibilities by examining	1.Yes	0.No						
	target and actual performance on month to month con								
FU9c	Mobilization/shifting of resources based on comparison b	y services	1.Yes	0.No					
FU9d		by targets wing gaps	1.Yes	0.No					
	Discussion and Decision on RHIS information								
FU10	Does the facility have routine meetings for reviewing man	agerial or	1.Yes	0.No	If no, go to				
	administrative matters?				UI15				
FU11	How frequently is the meeting supposed to take place?								
FU12	How many times did the meeting take place during the las months?								
FU13	Is an official record of management meetings maintained?		1.Yes	0.No	If no, go to UI15				
FU14	If yes, please check the meeting records for the last three following topics were discussed:	months to	see if the	;					
FU14a	Management of RHIS, such as data quality, reporting, or timeliness of reporting	1.Yes, obs	served	0. No					
FU14b	Discussion on RHIS findings such as patient utilization, disease data, or service coverage, medicine stock out	1.Yes, obs	served	0. No					
FU14c	Have they made any decisions based on the above discussions?	1.Yes, obs	served	0. No					
FU14d	Has any follow-up action taken place on the decisions made during the previous meetings?	1.Yes, obs	served	0. No					
FU14e	Are there any RHIS related issues/problems referred to regional/national level for actions?	1.Yes, obs	served	0. No					
	Promotion and Use of RHIS information by the distric	t/higher lev	vel						
FU15	Observed facility received annual/monthly planned targets RHIS information		1.Yes	0.No					
FU16	Did records of facility of last three months show that distrimanagement issued directives on use of information	ict/senior	1.Yes	0.No					
FU17	Did facility receive district/national RHIS office newslette in last three months showing success stories of use of info		1.Yes	0.No					
FU18	Did documentation exist to show use information for vario of advocacy exist?		1.Yes	0.No					
FU19	Did the person in charge of the facility participate in meeti district level to discuss RHIS performance for the last thre months?		1.Yes	0.No					
FU20: F	Please describe examples of how the facility uses RHIS infor				agement ails follows)				

	Supervision by the district health office			
FU21	How many times did the district supervisor visit your facility during the last three months? (check the answer)	0. 1. 2 3. 4.>3		If zero, go to FU26
FU22	Did you observe supervisor having a checklist to assess the data quality?	1.Yes	0.No	
FU23	Did supervisor check the data quality?	1.Yes	0.No	
FU24	Did the district supervisor discuss performance of health facilities based on RHIS information when he/she visited your facility?	1.Yes	0.No	
FU25	Did the supervisor help you make a decision based on RHIS information?	1.Yes	0.No	
FU26	Did the supervisor send a report/feedback/note on the last two supervisory visits?	1.Yes	0.No	
FU27				
FU28				
FU29				
FU30				
FU31				

4. Information Systems Overview and Resources

- 4.1. Information System Mapping
- 4.2. Facility/Office checklist

Routine Health Information System Overview Overview of Information Systems in Health Sector

(Interview HIS Manager at district and sub-national level)

Level:

□ Sub-national (district, province, etc)

Name (of district, province, etc)

Respondent's Name:

Function/Title:

Institution:

Department:

Mapping existing routine information systems in health sector (OPTIONAL)

Using the sheet 1: "Information system mapping", list all routine information systems existing in the country/region/district.

This exercise will help you to understand types of health sector information that are included (or not included) by information systems. It will also help to identify duplication of information systems.

- 1) Write down specific names of the information systems.
- 2) Identify types of information covered by each system and check relevant boxes. You may also write comments in the box. For example, an information system for EPI may handle information on drug supplies but it might be limited to vaccines. You can indicate "vaccine only" in the box. Similarly, MCH specific information systems may collect information on service utilization of MCH services only.
- 3) Please describe how information from different information systems are shared. For example, between TB programs and HIV/AIDS programs

1: Information System Mapping (OPTIONAL)											
				Types of Infor				ns			
Type of information system	Specific name if any	Service Utilization	Occurrence of selected disease(s)	Disease Outbreak (Immediate report)	Financial Information	Drug, contraceptive vaccine, stock	Human resources	Equipment/ Building	Vital Events	Others	Others
Routine service based reporting system											
Epidemiological surveillance for notifiable infectious diseases											
Special program reporting systems (EPI)											
Special program reporting systems (TB)											
Special program reporting systems (Malaria)											
Special program reporting systems (HIV/AIDS)											
Special program reporting systems (MCH)											
Special program reporting systems (specify)											
Special program reporting systems (specify)											
Special program reporting systems (specify)											
Community Base information system											
Administrative system (Finance)											
Administrative system (human resource)											
Administrative system (Training)											
Administrative system (drugs, contraceptive, vaccine, logistics)											
Administrative system (Infrastructure, equipment, transport)											
Vital Registration											
Other system											

2. Data collection and transmission	
Please list all data collection tools/forms that are used a If space is not enough, please add an additional sheet of	
Facility-based data collection tools: (such as patient registers)	Comments on tools. Is the form easy to use? Enough space to record data? Takes too much time?
•	
•	
•	
•	
•	
•	
Data transmission/reporting forms	Comments on forms. Is the form easy to use? Enough space to record data? Takes too much time?
•	
•	
•	
•	
•	
•	
3. Information flowchart	

3. Information flowchart

Using the chart provided on the next page, illustrate the flow of information from community to health facility, health facility to district level, district level to regional level, regional level to the central/national level. For each level, please indicate specific departments/job titles which should receive and process information received from a lower level.

This exercise will help you to clarify information flows in existing information systems and identify potential problems, which affect the performance of the information systems.

- 1) If some levels, e.g. community level and regional level are not relevant to systems that you are examining, please omit them from the exercise.
- 2) Please be as specific in identifying information sources and data transmission points as possible. For example, if different types of facilities have different reporting units at district level, you will want to indicate these different paths of information.
- 3) Add more than one information system to see interactions between information systems and how complicated or simple information flows are in your health system. You can see how basic routine health information system's information flow interacts with special program information systems such as EPI, HIV/AIDS, and Malaria.
- 4) You can be creative in indicating different information flows in different colors. For example, you can indicate the data aggregation process in red and the information feedback process in blue color. Or General RHIS in green and EPI in pink, etc.

Information flowchart

Information Howchart Information Flow Sheet										
Levels		Types of Information Systems								
	SIMH	IdH	TB	Malaria	SQIV/AIH	МСН	Contraceptive	Administrative system (Finance)	Community information system	
Central/national Level										
Regional Level (Province)										
District Level										
Facility Level										
Community Level										

Facility/Office Checklist (Interview Facility Manager or person in charge of RHIS at the office)

Person Interviewed (name, title, organization)

Facility/Office Name

Facility/Office Address

Facility Type (Hospital/Clinic/District office/Region office/Ministry RHIS unit, etc.)

Ownership (Public/Private/Mixed)

(Interviewer: Please verify if the following equipment is available in the facility)

1. Equipment									
Hardware Equipment	Total Quan	lity	How many are in working condition?						
a. Computer									
b. Data Back-up Unit (e.g. floppy, CD, zip)	0. No	1. Yes							
c. Printers									
d. Modems									
e. UPS									
f. Generators									
g. Regular telephone									
h. Radio telephone									
i. Access to the internet	0. No	1. Yes	·						
j. Calculator									

2. Utilities							
a. Is there a continuous electricity supply?	1. Yes	0. No					
b. How often is the electricity supply interrupted?							
0. Never/occasionally 1. Once a month	2. Twice a month	3. Weekly	4. Daily				
c. Is the room, where the computer hardware is kept, air-condition	0. No						
d. Is running water available in the facility?	1. Yes	0. No					

3. Availability of registers, forms	
Type of record, report or register	Have you run out of this form in the past 12 months? If so, why?
a.	0.No 1. Yes
b.	0.No 1. Yes
с.	0.No 1. Yes
d.	0.No 1. Yes
е.	0.No 1. Yes

	B. Or	rganizati	ion of the health fa	acility		
B.1. Please describe tot situation)	tal number of pe	ersons und	er each category belo	ow: (Adapt according to th	e country	
B.2. Title/ post		Number	Number			
1. Medical officer			10. Health educa	ator		
2. Comprehensive nurse	e registered		11. Health inspe	ector		
3. Comprehensive nurse	e enrolled		12. Laboratory	technician		
4. Nursing Assistance			13. Public health	h dental assistant		
5. Clinical officer			14. Anesthetic o	officer		
6. Laboratory Assistant			15. Midwife			
7. Health Assistant			16. Support staf	f		
8. Dispenser			17. Other (speci	17. Other (specify)		
9. Health information as	ssistant					
B.3. Who fills in the HM	MIS monthly rep	orts? Spe	cify the codes from Q	<i>B.2.</i>		
				ng, processing, or reportinged, and the year of the lates		
B.4.a. Title or Post (Coding from QB.2)	B.4.b. How r trainings courses/sessi this person re	B.4.b. How many trainings courses/sessions did this person received in the past three		B.4.d. Subjects of las 1. data collection 2. data analysis 3. Data display/re 4. 1&2 5. 1&3 6. 2&3 7. 1,2 & 3	st training:	
1.						
2.						
3.						
4.						
5.						

BB1. Only for District or Higher level						
Staffing						
BB.1 Total number of persons working in district HMIS office including sub-districts?						
BB.2 Total number of persons working in district HMIS office excluding sub-districts?						
BB.3 Total number of district staff in district HMIS office trained to collect, verify and						
analyze information?						

5. Management Assessment Tool

RHIS Management Assessment Tool										
(Observation at facility and higher levels)										
MAT1. N	lame of the facility	MAT2. Nan	ne of the Asse	sser						
	lame of the district	MATA Jaka	of assessmen	4						
MAIS. N	tame of the district	MA14: date	or assessmen	τ						
MATG1	Presence of RHIS Mission displayed	at prominen	t position(s)		0 No	1 Yes				
MATG2	Presence of management structure for	r dealing wit	h RHIS relate	ed	0 No	1 Yes				
	strategic and policy decisions at distr	rict and highe	er levels							
MATG3	Presence of an updated (last year) dis				0 No	1 Yes				
	organizational chart, showing function	ons related to	RHIS/health							
MARGA	information	•	DING		0.33	4.87				
MATG4	Presence of distribution list and docu monthly/quarterly report distribution				0 No	1 Yes				
MATP1	Presence of RHIS situation analysis				0 No	1 Yes				
MATP2	Presence of RHIS 5 year plan at district or higher level					1 Yes				
MATP3	Presence of RHIS targets at facility and higher level					1 Yes				
MATQ1	Presence of a copy of RHIS standards at district or higher levels					1 Yes				
MATQ2	Presence of a copy of RHIS standard				0 No	1 Yes				
MATQ3	Presence of performance improveme	nt tools (flov	v chart, contro	ol	0 No	1 Yes				
	chart etc.) at the facility									
MATT1	Does facility/district have a RHIS tra	ining manua	1?		0 No	1 Yes				
MATT2	Presence of mechanisms for on-job F documentation)	RHIS training	g (see		0 No	1 Yes				
MATT3	Presence of schedule for planned	0 No	1. Yes, for	2.	Yes, 2 y	vears or				
	training		one year		ore					
MATS1	Presence of RHIS supervisory check	list	2		0 No	1 Yes				
MATS2	Presence of schedule for RHIS super				0 No	1 Yes				
MATS3	Presence of supervisory reports	•			0 No	1 Yes				
MATF1	Presence of RHIS related expense register					1 Yes				
MATF2	Presence of mechanisms for generati	ng funds for	RHIS		0 No	1 Yes				
MATF3	Presence of RHIS monthly/quarterly	financial rep	ort		0 No	1 Yes				
MATF4	Presence of long term financial plan activities	for supportin	g RHIS		0 No	1 Yes				
	401111105									

6. Organizational and Behavioral Assessment Tool

Organizational and Behavioural Assessment Tool (To be filled by staff and management at all levels)

Introduction

This survey is part of the______, to improve Management Information systems in the health sector. The objective of this survey to help develop interventions for improving information system and use of information. Please express your opinion honestly. Your responses will remain confidential and will not be shared with anyone, except for presented table forms. We appreciate your assistance and co-operation in completing this study.

Thank you.

- IDI. Name of facility
- ID2. District

DD1. Title of the person filling the questionnaire (circle answer)

(Make these categories appropriate to the host country)

- 1. Provincial DG
- 2. Provincial HMIS focal person
- 3. District HO

DD2. Age of the person

- 4. District HMIS focal person
- 5. Facility in charge
- 6. Other facility staff (specify) ------

DD3. Sex 1. Male 2.Female

DD6. Did you receive any training in HMIS related activities in last six months? 0. No 1.Yes

We would like to know your opinion about how strongly you agree with certain activities carried out by _______. There are no right or wrong answers, but only expression of your opinion on a scale. The scale is about assessing the intensity of your belief and ranges from strongly disagree (1) to strongly agree (7). You have to determine first whether you agree or disagree with the statement. Second decide about the intensity of agreement or disagreement. If you disagree with statement then use left side of the scale and determine how much disagreement that is – strongly disagree (1), somewhat disagree (2) or disagree (3) and circle the appropriate answer. If you are not sure of the intensity of belief or think that you neither disagree nor agree then circle 4. If you agree with the statement, then use right side of the scale and determine how much agreement that is – agree (5), somewhat agree (6) or strongly agree (7) and circle the appropriate answer. Please note that you might agree or disagree with all the statements and similarly you might not have the same intensity of agreement or disagreement and thus variations are expected in expressing your agreement or disagreement. We encourage you to express those variations in your beliefs.

This information will remain confidential and would not be shared with anyone, except presented as an aggregated data report. Please be frank and choose your answer honestly.

Strongly disagree	Somewhat disagree	Disagree	Neither disagree nor agree	Agree	Somewhat agree	Strongly agree
1	2	3	4	5	6	7

To what extent, do you agree with the following on a scale of 1-7?

In health department, decisions are based on

	Strongly disagree	Somewhat disagree	disagree	Neither disagree nor agree	Agree	Somewhat agree	Strongly agree
D1. Personal liking	1	2	3	4	5	6	7
D2. Superiors' directives	1	2	3	4	5	6	7
D3. Evidence/facts	1	2	3	4	5	6	7
D4. Political interference	1	2	3	4	5	6	7
D5. Comparing data with strategic health objectives	1	2	3	4	5	6	7
D6. Health needs	1	2	3	4	5	6	7
D7. Considering costs	1	2	3	4	5	6	7

	Strongly disagree	Somewhat disagree	disagree	Neither disagree nor agree	Agree	Somewhat agree	Strongly agree
In health department, superiors							
S1. Seek feedback from concerned persons	1	2	3	4	5	6	7
S2. Emphasize data quality in monthly reports	1	2	3	4	5	6	7
S3. Discuss conflicts openly to resolve them	1	2	3	4	5	6	7
S4. Seek feedback from concerned community	1	2	3	4	5	6	7
S5. Use HMIS data for setting targets and monitoring	1	2	3	4	5	6	7
S6. Check data quality at the facility higher level regularly	and 1	2	3	4	5	6	7
S7. Provide regular feedback to their regular report based on evidence	staff the 1	rough 2	3	4	5	6	7
S8. Report on data accuracy regularly	y 1	2	3	4	5	6	7
In health department, staff							
P1. Are punctual	1	2	3	4	5	6	7
P2. Document their activities and keep records	1	2	3	4	5	6	7
P3. Feel committed in improving health status of the target population	1	2	3	4	5	6	7
P4. Set appropriate and doable target of their performance	1	2	3	4	5	6	7
P5. Feel guilty for not accomplishing the set target/performance	g 1	2	3	4	5	6	7
P6. Are rewarded for good work	1	2	3	4	5	6	7

	Strongly disagree	Somewhat disagree	disagree	Neither disagree nor agree	Agree	Somewhat agree	Strongly agree
In health department, staff				I I			
P7. Use HMIS data for day to day management of the facility and district 1	2	3	4	5	6	7	
P8. Display data for monitoring their set target	1	2	3	4	5	6	7
P9. Can gather data to find the root cause(s) of the problem	1	2	3	4	5	6	7
P10. Can develop appropriate criteria interventions for a given problem	a for sele 1	ecting 2	3	4	5	6	7
P11. Can develop appropriate outcor for a particular intervention	nes 1	2	3	4	5	6	7
P12. Can evaluate whether the target or outcomes have been achieved	ts 1	2	3	4	5	6	7
P13. Are empowered to make decisions	1	2	3	4	5	6	7
P14. Able to say no to superiors and colleagues for demands/decisions not supported by evidence	1	2	3	4	5	6	7
P15. Are made accountable for poor performance	1	2	3	4	5	6	7
P16. Use HMIS data for community education and mobilization	1	2	3	4	5	6	7
P17. Admit mistakes for taking corrective actions	1	2	3	4	5	6	7
Personal							
BC1. Collecting information which i decision making discourages me	s not us 1	ed for 2	3	4	5	6	7
BC2. Collecting information makes me feel bored	1	2	3	4	5	6	7

	Strongly disagree	Somewhat disagree	disagree	Neither disagree nor agree	Agree	Somewhat agree	Strongly agree
BC3. Collecting information is meaningful for me	1	2	3	4	5	6	7
BC4. Collecting information gives me the feeling that data is needed for monitoring facility performance	1	2	3	4	5	6	7
BC5. Collecting information give me Feeling that it is forced on me	the 1	2	3	4	5	6	7
BC6. Collecting information is appre Co-workers and superiors	ciated b 1	у 2	3	4	5	6	7

U1.Describe at least three reasons for collecting data on monthly basis on the followings:

U1A. Diseases
1.
2.
3.
U1B. Immunization
1.
2.
3.
U1C. Why is population data of the target area needed?
1.
2.
3.

U2. Describe at least three ways of checking data quality.

- 1.
- 2.
- 3.

Dr. Akram, EDO Health, read a recent district report on data quality and felt very disturbed by it. "I need to take actions", he said aloud. He paced back and forth thinking about his next steps to improve data quality. After some time, he calmed down and wrote his action plan. Please describe how Dr. Akram defined the problem and what major activities Dr. Akram must have included in his action plan for improving data quality...

PSa. Definition of the problem

PSb. Major activities 1. 2. 3. 4. 5. 6. 7. 8. 9.

10.

SELF-EFFICACY

This part of the questionnaire is about your perceived confidence in performing tasks related to health information systems. High Confidence indicates that person could perform the task, while low confidence means room for improvement or training. We are interested in knowing how confident you feel in performing HMIS-related tasks. Please be frank and rate your confidence honestly.

Please rate your confidence in percentages that you can accomplish the HMIS activities.

Rate your confidence for each situation with a percentage from the following scale

0	10	20	30	40	50	60		70)	80	0	9	0	1	00	
SE1. I	can che	eck data	accurac	У		0	10	20	30	40	50	60	70	80	90	100
SE2. I	can cal	culate p	ercentag	es/rates	correctly	0	10	20	30	40	50	60	70	80	90	100
SE3. I	can plo	t data by	y months	s or year	'S	0	10	20	30	40	50	60	70	80	90	100
SE4. I	can con	npute tr	end fron	n bar cha	arts	0	10	20	30	40	50	60	70	80	90	100
SE5. I	can ex	plain fi	ndings &	their												
in	nplicatio	ons				0	10	20	30	40	50	60	70	80	90	100
SE6. I	can use	e data foi	r identif	ying gap)S											
	and sett	ing targe	ets			0	10	20	30	40	50	60	70	80	90	100
			-	-	s types of											
	decisior	ns and pr	oviding	feedbac	k	0	10	20	30	40	50	60	70	80	90	100

We would like you to solve these problems about calculating percentages, rates and plotting and interpreting information.

C1. The estimated number of pregnant mothers is 340. Antenatal clinics have registered 170 pregnant mothers. Calculate the percentage of pregnant mothers in the district attending antenatal clinics.

C2.The full immunization coverage for 12-23 month-old children were found 60%, 50%, 30%, 40%, 40% for years 1997, 1998, 1999, 2000 and 2001 respectively.

22a. Develop a bar chart for coverage percentages by years														

C2a. Develop a bar chart for coverage percentages by years

C2b. Explain the findings of bar chart

C2c. Did you find a trend in the data? If yes or no, explain reason for your answer

2d. Provide at least one use of above chart findings at:

UD1. Facility level

UD2. District level

UD3. Policy Level

UD4. Community level

C3. A survey in a district found 500 children under five years old that were malnourished. The total population of children less than five years old was 5000. What is the malnutrition rate?

C4. If the malnutrition rate in children less than 2 years old was 20% and the number of total children less than 2 years old was 10,000, then calculate number of children who are malnourished.