

Africa Regional Workshop on Improving Routine Data for Child Health in National Health Information Systems

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aternal and Child Survival Program

In collaboration with





Review of Child Health and Nutrition Data Elements in HMIS

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Background & Purpose

Background

- Routine measurement (HMIS)
- International guidance on child health and nutrition indicators for HMIS?

Purpose

- Document the data elements related to child health and nutrition
- Identify common data elements/indicators and gaps at the facility and community levels
- Provide technical assistance to help countries to improve routine child health and nutrition data

Scope of review

- Technical scope
 - Child health, including prevention and management of child illness
 - Child nutrition, including prevention and management
 - Includes service delivery and health systems (e.g. HRH, stock, supervision) indicators
 - Excludes immunization and HIV/AIDS
- Health system scope
 - Facility-based services
 - Community-based services
- Geographic Scope
 - Afghanistan Bangladesh Burma DRC Ethiopia Ghana – Haiti – India – Indonesia –Kenya – Liberia – Madagascar – Malawi – Mali – Mozambique – Nepal – Nigeria – Pakistan – Rwanda – Senegal – Tanzania – Uganda – Zambia
 - Zimbabwe Guatemala Namibia

Steps in review

- I. Select data elements for review
 - I. Review of international child health & nutrition indicator guidance SDG, WHO, GAPPD, USAID, PMI, Countdown to 2015/30, iCCM, etc
- 2. Request, collect and catalogue forms from 26 countries*

Facility Level	Community Level
Sick child recording form / client form	Sick child recording form / client form
Registers (OPD, well child, logistics, etc)	Register (s)
Facility summary form	CHW/community summary form
District/sub-district summary form	

- 3. Use standardized data abstraction template to conduct review
- 4. Perform quality checks on form classification and data element extraction

*→ Also collected child cards, supervision forms, household registers, etc from some countries → not currently included in review

What types of data elements would you want?

• For IMNCI?

• For nutrition?

• Others?

What types of data elements would you want?

IMCI/iCCM						
Diarrhea cases Treatment with ORS & zinc						
Fast breathing pneumonia cases	Treatment with antibiotic					
RDT completed; RDT result +/-	Treatment with ACT/1 st line drug					
Referral in (facility)	Referral out (CHW/facility)					

Nutrition					
Breastfeeding counseling	Therapeutic food (RUTF)				
Feeding counseling					
Ot	her				
Child deaths	Stock of ORS, zinc, antibiotic, ACTS				
Danger signs	Human Resources				

Group Exercise

Data element	Register/sick child form (Y/N)	Summary form (Y/N)
Diarrhea classification/case		
Diarrhea case treated with ORS		
Diarrhea case treated with zinc		
Pneumonia (fast breathing) classification/cases		
Pneumonia (fast breathing) case treated with antibiotic		

Preliminary Findings





Number of cases of child diarrhea

Diarrhea classification / # of diarrhea cases seen

	CHW /	CHW / Community						
	Sick Child Recording Form	Register	Summary Form	Register	Summary Form			
DRC								
ΗΑΙΤΙ	ο		Only diarrhea cases treated	agnosis				
KENYA								
LIBERIA	0	Under	revis: 145					
NIGERIA			result		Only diarrhea trt with ORS & zinc			
MALI		Blank		Blank diagnosis				
MOZAMBIQUE	ο	Under Blank - Under I						
RWANDA			only includes diarrhea cases treated					
UGANDA	0							
ZAMBIA								
ZIMBABWE	0							

Number of cases of child diarrhea treated (with ORS & Zinc)

Diarrhea cases treated with ORS and Zinc

	CHW ,	CHW / Community					
	Sick Child Recording Form	Register	Summary Form	Register	Summary Form		
DRC					per nat'l norm		
HAITI	0			Blank for ceatment*			
KENYA							
LIBERIA	о	Under	re lits				
NIGERIA			esur	Blank for treatment			
MALI		Under Blaminary F Preliminary		Blank for treatment			
MOZAMBIQUE	0	pre					
RWANDA			Treatment not specified	Blank for treatment			
UGANDA	0						
ZAMBIA							
ZIMBABWE	0						

*included in proposed sick child recording g form

Gaps for diarrhea indicator

Number of cases of child diarrhea treated (with ORS & Zinc)

No counts for diarrhea cases seen	 Haiti - community Rwanda – community Nigeria - facility
No counts of diarrhea cases treated with ORS/zinc	 Mali – community & facility facility Rwanda – facility • Zimbabwe – facility Uganda - community Zambia community &
Blanks for diagnosis &/or treatment in register	 Haiti - facility Mali – community & facility Nigeria - facility Rwanda – facility

Example: Blank columns in registers

4 3	DE MORBIDITÉ Institution	6	a Mades Dagoostic	to ti	12 Evaluation				
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Number of cases of child pneumonia*

Pneumonia* classification / # of pneumonia cases seen

	CHW ,	Facility				
	Sick Child Recording Form	Sick Child RecordingSummaryFormRegisterForm				
DRC						
ΗΑΙΤΙ	o			liagnosis	ARI listed on form (unclear dx)	
KENYA				Blank diagnosis		
LIBERIA	0	Under	rev: 11ts			
NIGERIA			resur			
MALI		Under Blage eliminari Pretiminari		Blank diagnosis		
MOZAMBIQUE	0	pre.				
RWANDA			only includes cases treated			
UGANDA	0					
ZAMBIA				х		
ZIMBABWE	0					

*Pneumonia/suspected pneumonia definition also includes "fast breathing" per WHO IMCI algorithm

Number of cases of child pneumonia^{*} treated with antibiotics by trained facility worker or CHW

	CHW /	CHW / Community							
	Sick Child Recording	Decister	Summary	Decistor	Current Form				
	Form	Register	Form	Register	Summary Form				
DRC			Trt per national norm						
ΗΑΙΤΙ	о	Not	policy	Vank for					
KENYA				Blank for treatment					
LIBERIA	ο	Under	esults						
NIGERIA		inar	vre	Blank for treatment					
MALI		Not Policy Under Preliminar Preliminar		Blank for treatment					
MOZAMBIQUE	0								
RWANDA			Treatment not specified	Blank for treatment					
UGANDA	0								
ΖΑΜΒΙΑ				х					
ZIMBABWE	0	Not F	Policy						

Pneumonia treatment with antibiotics

*Pneumonia/suspected pneumonia definition also includes "fast breathing" per WHO IMCI algorithm

Gaps for pneumonia indicator Number of cases of child pneumonia treated with antibiotics by trained facility worker or CHW

No clear pneumonia classification

Haiti - facility

No counts of pneumonia cases treated with antibiotics

- Haiti facility
- Mali –facility
- Rwanda– facility

- Zambia facility
- Zimbabwe facility

Blanks for diagnosis &/or treatment in register

- Haiti facility
- Kenya facility
- Nigeria facility

- Mali community & facility
- Rwanda facility

What are the challenges?

- Lack of standardization across countries
- Lack of standardization across facility & community
- Treatment not captured in some summary forms
- Quality? (blanks in registers details in summary form)



Thank You



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Learn more at: -

www.mcsprogram.org

Credit: Karen Kasmauski/MCHIP

% of children in malaria endemic areas, aged 0-59 months with fever who were tested with RDT or microscopy

Fever cases seen

		CHW		Fac	ility
	Sick Child Recording Form	Register	Summary Form	Register	Summary Form
DRC					Recorded as "suspected" malaria cases"
ΗΑΙΤΙ	0		х	Blank diagnosis	
KENYA				Temperature recorded, not fever	
LIBERIA	0	Under re	evision?	Terrature recorded,	U5 fever treated with ACT collected
MADAGASCAR	о			u	
MALI			many results many results recorded as "Children from 6 months to 59 months treated for	Blank diagnosis (tracking of specific conditions)	
MOZAMBIQUE	0	Clinical cases malaria	ases malaria		
NIGERIA			inat	Blank diagnosis	
RWANDA			recorded as "Children from 6 months to 59 months treated for fever"		
ZAMBIA			Malaria (clinical) and confirmed collected	x	No record of fever, but tracking clinical cases of malaria"
ZIMBABWE	0				No fever but, "unconfirmed (Clinical)"

% of children in malaria endemic areas, aged 0-59 months with fever who were tested with RDT or microscopy **RDT performed**

		CHW	Fac	ility	
	Sick Child Recording Form	Register	Summary Form	Register	Summary Form
DRC				Blank lab diagnostic; RDT included on sick child form	
ΗΑΙΤΙ	Ο			Blank diagnosis; "suspected" and "confirmed" cases cted on sick child form	Not disaggregated by child only RDT tests
KENYA				 Clinical malaria "confirmed cases" 	DHIS2
LIBERIA	0	Under r	evision		
MADAGASCAR	0		Sult		
MALI			any results	blank diagnosis	
MOZAMBIQUE	0	min	9.		
NIGERIA		orelin			
RWANDA		ę.			
UGANDA	0		х		
ZAMBIA		nk diagnosis	"Clinical Malaria"		Lab tests done (inc. slide)
ZIMBABWE	0				

% of children aged 0-59 months with fever presenting to (facility or CHW) who were tested with RDT (or microscopy) and received a positive result

RDT +/-

	СНѠ			Facility	
	Sick Child Recording Form	Register	Summary Form	Register	Summary Form
DRC				Blank lab diagnostic; RDT+ note included on sick child form	
HAITI	0			Blank diagnosis; included in child r ling form	Not disaggregated by child
KENYA				B only positive	
LIBERIA	0	Under revision		« Malaria »	
MADAGASCAR	0		result		
MALI			evision irminary results	Blank diagnosis (tracking of specific conditions)	
MOZAMBIQUE	0	e la	im		
NIGERIA		Pre			
RWANDA					"Malaria simple confirmed"
ZAMBIA		oper count of RDT+ nied on bottom	"Malaria Confirmed" only	x	"Confirmed malaria"
ZIMBABWE	0			Blank diagnosis	

% of confirmed malaria cases in children aged 0-59 months that receive first line antimalarial treatment (ACT)

ACT treatment given

	CHW			Facility	
	Sick Child Recording Form	Register	Summary Form	Register	Summary Form
DRC			(DHIS2 summmary specifies politique national and not ACT)	Blank treatment	# of malaria cases treated according to national protocol
ΗΑΙΤΙ	о				"Confirmed malaria treated"
KENYA	"If RDT +, give Artemether- Lumefantrine)			P treatment	DHIS2
LIBERIA	0	Under revision			
MADAGASCAR	0			ank treatment	
MALI		Blank treatment	minaryresults	Blank treatment	
MOZAMBIQUE	0		res		
NIGERIA	Blank space for notes		inan		
RWANDA	Recorded as "Primo: Red/Yellow"	Recorded as "Co. preli	m	Blank treatment	
ΖΑΜΒΙΑ				х	
		2 treons listed: At etamol based on a oroups (6m-3y &			
ZIMBABWE	0	Зу-5у)		Blank treatment	

of children under-five referred to a higher-level health facility by CHW or primary health facility

Referral to higher facility

	CHW			Facility	
	Sick Child Recording Form	Register	Summary Form	Register	Summary Form
DRC					
ΗΑΙΤΙ	0			Blank to track evolution of disease; included on sick child recording form	
KENYA					
LIBERIA	0	Under revision			
MADAGASCAR	0				
MALI					
NIGERIA	Blank space for notes		minaryresults		Not disaggregated by child
RWANDA			ainal		
ZAMBIA		ali	T.	Х	
ZIMBABWE	0	Pro			