



# What Data Do National Health Management Information Systems Include?

## Findings for Maternal Newborn Health and Family Planning

**Wednesday, September 26, 2018**  
**9:00-10:30 a.m. EDT**

# Introduction

- MCSP works at the country and global levels to improve reproductive, maternal, newborn and child health (RMNCH) and nutrition services
- *Measurement and Data Use for Action and Accountability* is a key MCSP learning theme
- MCSP undertook this review to better understand maternal and newborn health (MNH) and family planning (FP)-related content (data elements) of routine HMIS across USAID-supported countries
- In SDG era, importance of routine health information systems emphasized\*



*Photo credit: Karen Kasmauski/MCSP. Wandu Village, Nigeria 2018*

*\*The Roadmap for Health Measurement and Accountability, 2015*  
([http://www.who.int/hrh/documents/roadmap4health\\_measurement\\_account/en/](http://www.who.int/hrh/documents/roadmap4health_measurement_account/en/))

# Why a multi-country HMIS review?

- Global actors can use it to understand:
  - Which countries already collect data elements recommended by WHO to track progress towards global RMNCAH health objectives?
  - What other data on content/quality of care and health outcomes do countries collect that could potentially be used for global tracking in the future (as new global indicator recommendations are forthcoming)?
- Country actors can use it to understand:
  - Which MNH/FP data elements are health facilities collecting and aggregating and how does this align with WHO recommendations?
  - What data elements should be added (or removed/revised) during the next round of HMIS revisions?
  - What data are available for assessing service delivery and tracking progress towards subnational and national RMNCAH goals?



# Presentation Outline

- Methods
- MNH Findings
- FP Findings
- Q&A



*Photo credit: Karen Kasmauski/MCSP. Anjro, Madagascar 2018*

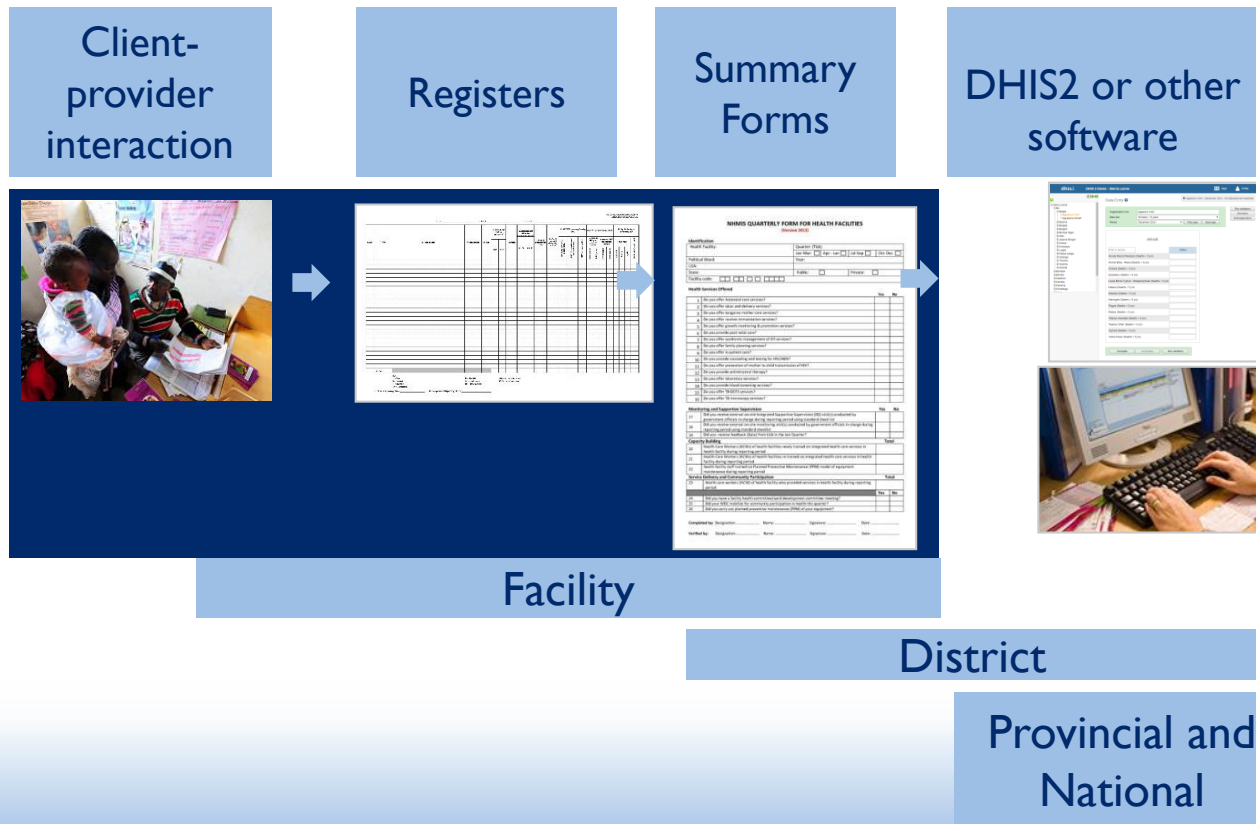
# Methods



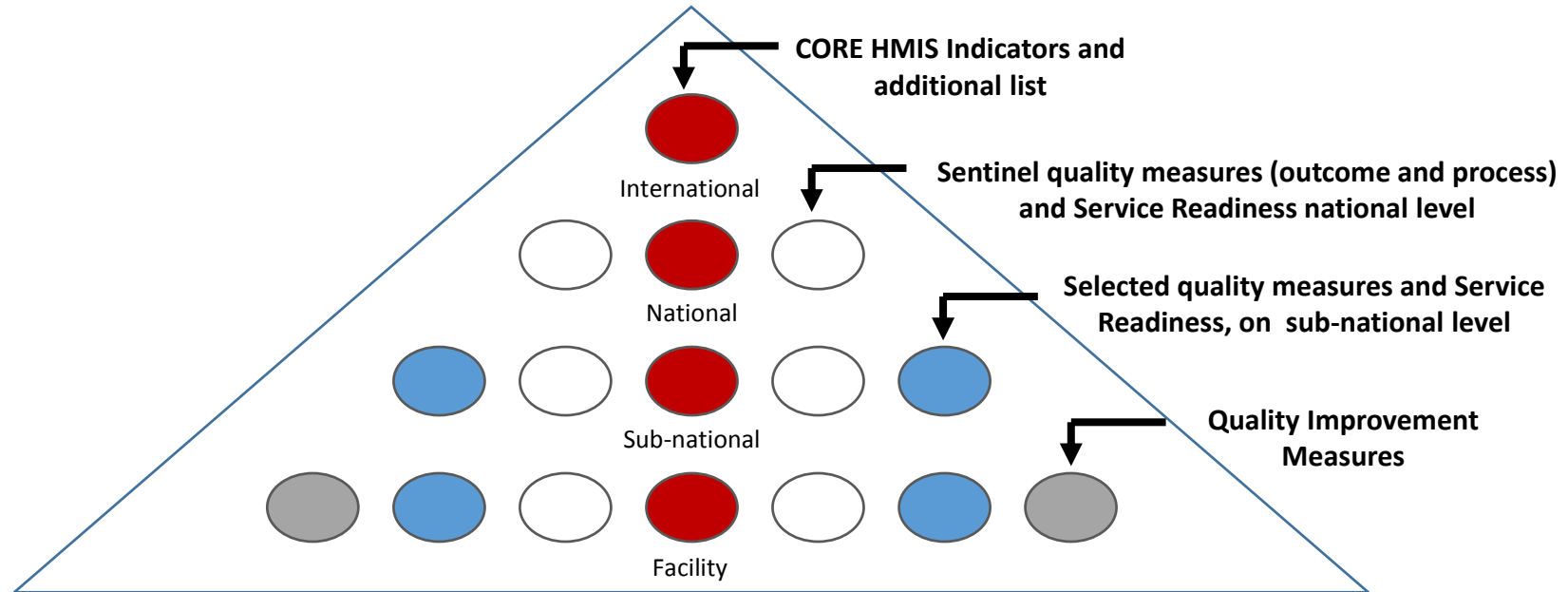


# Subnational HMIS:

## Common data flow from facility to district level



# Health Systems Data Flow and Data Needs



# Countries included in the review

	MNH	FP		MNH	FP
Afghanistan	◆	◆	Mozambique	◆	◆
Bangladesh	◆	◆*	Myanmar	◆	
DRC	◆	◆	Namibia		
Ethiopia	◆	◆	Nepal	◆	
Ghana	◆		Nigeria	◆	◆
Haiti	◆	◆	Pakistan	◆	◆
India	◆	◆	Rwanda	◆	◆
Indonesia	◆		Senegal	◆	
Kenya	◆	◆	South Sudan	◆	
Liberia	◆	◆	Tanzania	◆	◆
Madagascar	◆	◆	Uganda	◆	◆
Malawi	◆	◆	Zambia	◆	◆
Mali	◆	◆	Zimbabwe		

MNH review:

**24** countries

FP review:

**18** countries

*\*included in review, but still undergoing analysis*



# Methods, Part I

1. Developed list of data elements of interest based on global indicator recommendations and clinical algorithms
2. Collected standardized HMIS facility registers and monthly facility summary forms from countries

[illegible]

# **NMHMS MONTHLY SUMMARY FORM FOR HEALTH FACILITIES**

(Version 2013)

## **Identification**

Health Facility:	Month:		
Political Ward:	Year:		
LGA:	Public:	<input type="checkbox"/>	Private:
State:	Beds:		
Facility code:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## **Health Facility Attendance**

	Facility Attendance	Male						Female						Total
		0	25d	51	77	103	129	0	25d	51	77	103	129	
1		28d	11.5%	22.5%	33.5%	44.5%	55.5%	28d	11.5%	22.5%	33.5%	44.5%	55.5%	
2	OPO Attendance													

## **Maternal Health (Ante & Post Natal Care)**

		Total
3	Antenatal attendance - total	
4	Antenatal first visit before 20 weeks	
5	Antenatal first visit 20 weeks or later	
6	Antenatal first visit - total	
7	Pregnant women that attended antenatal clinic for 4 <sup>th</sup> visit during the month	
8	ANC syphilis test done	
9	ANC syphilis test positive	
10	ANC syphilis case treated	
11	Pregnant women who received malaria IPT1	
12	Pregnant women who received malaria IPT2	
13	Pregnant women who received LLIN	
14	Pregnant women who received Haematronics <sup>1</sup> (IFAs - Iron and Folic Acid supplements)	
15	Postnatal attendance - total	
16	Postnatal clinic visits within 1 day of delivery	
17	Postnatal clinic visits within 3 days of delivery	
18	Postnatal clinic visits ≥7 days of delivery	

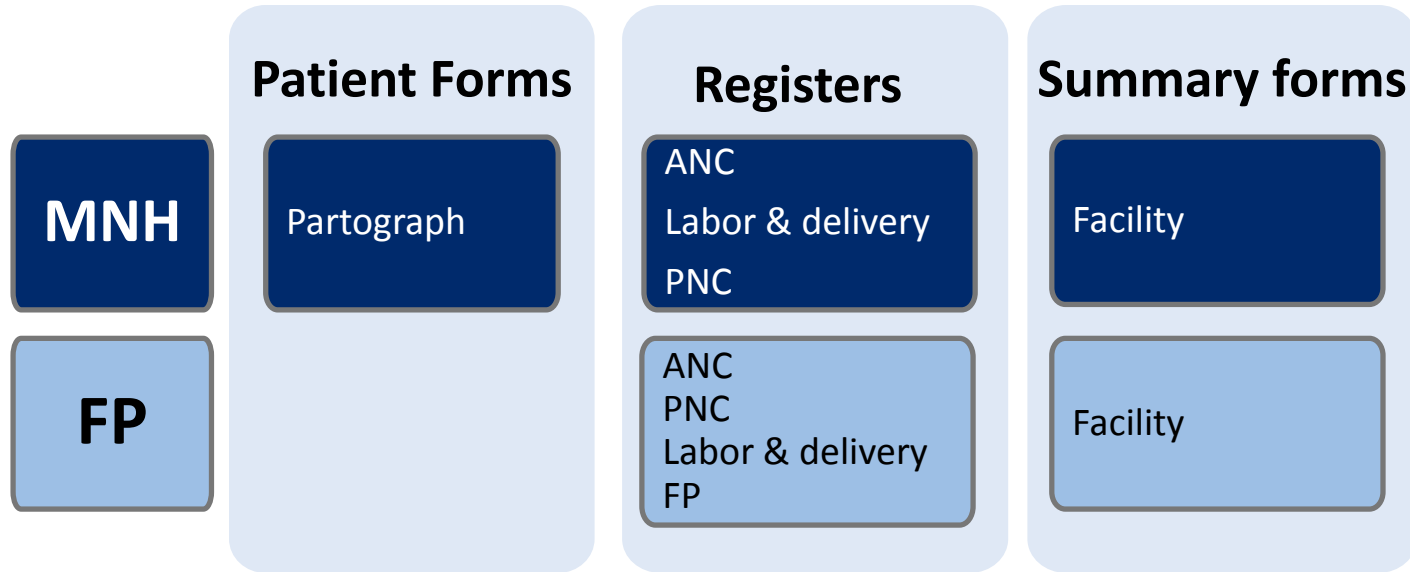
## **Maternal Health (Labour and Delivery)**

		Total
19	Deliveries - total	
20	Deliveries - SVD (Spontaneous Vaginal Delivery)	
21	Deliveries - assisted	
22	Deliveries - caesarean section	
23	Deliveries - complications	
24	Deliveries - preterm	
25	Deliveries by HIV positive women	
26	Live birth by HIV positive women	
27	Deliveries amongst HIV positive women - Booked	
28	Deliveries amongst HIV positive women - Unbooked	
29	Deliveries monitored using a partograph	
30	Deliveries taken by a skilled birth attendant	

## **Tetanus Toxoid (Women of child bearing age)**

		Pregnant	Non Pregnant
31	TT1		
32	TT2		
33	TT3		
34	TT4		

# Health facility forms and registers included in the review



# Methods, Part 2

### 3) Used standardized data abstraction template to conduct review

#### 4) Multiple rounds of data quality assurance

## 5) Analysis in Excel pivot tables

[illegible]

# Maternal and Newborn Health Findings





# Ministry of Health-Level Needs

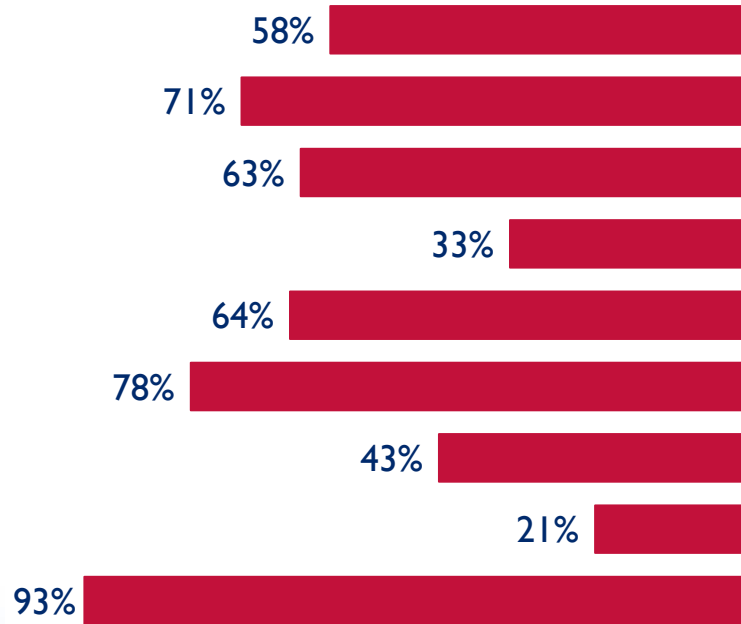
- Are recommended MNH screening/diagnostic tests and high impact interventions being provided consistently for every woman and newborn?
- What complications are women and babies having and how well are they being managed?
- Are health outcomes getting better?



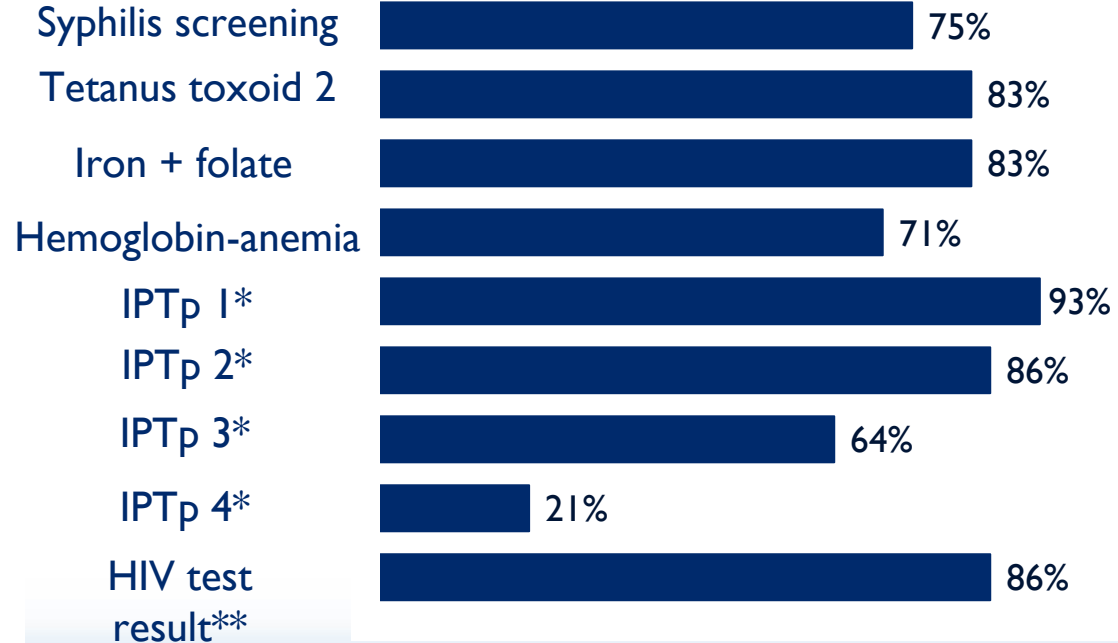
*Photo credit: Karen Kasmauski/MCSP. Lokoja, Nigeria 2018*

# Antenatal care: availability of data elements on screening and high-impact interventions varies

Summary Form



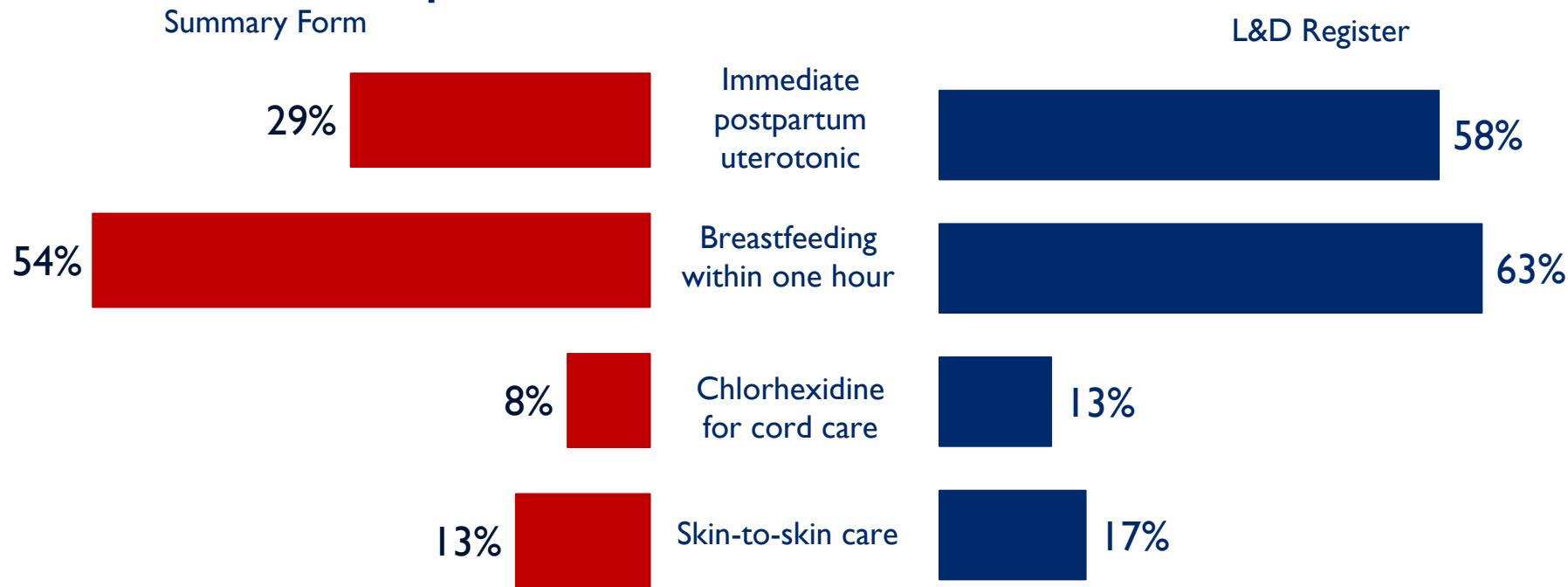
ANC Register



\*Among 14 countries with IPTp as policy

\*\*Among 14 countries with HIV prevalence  $\geq 1\%$

# Labor and delivery: Availability of birth and immediate postnatal care data elements



*Note: The Healthy Newborn Network states 13 of the countries in this review provide CHX in facilities—<https://www.healthynewbornnetwork.org/chlorhexidine-location/>*

# Information on complications was sometimes complicated to extract from registers

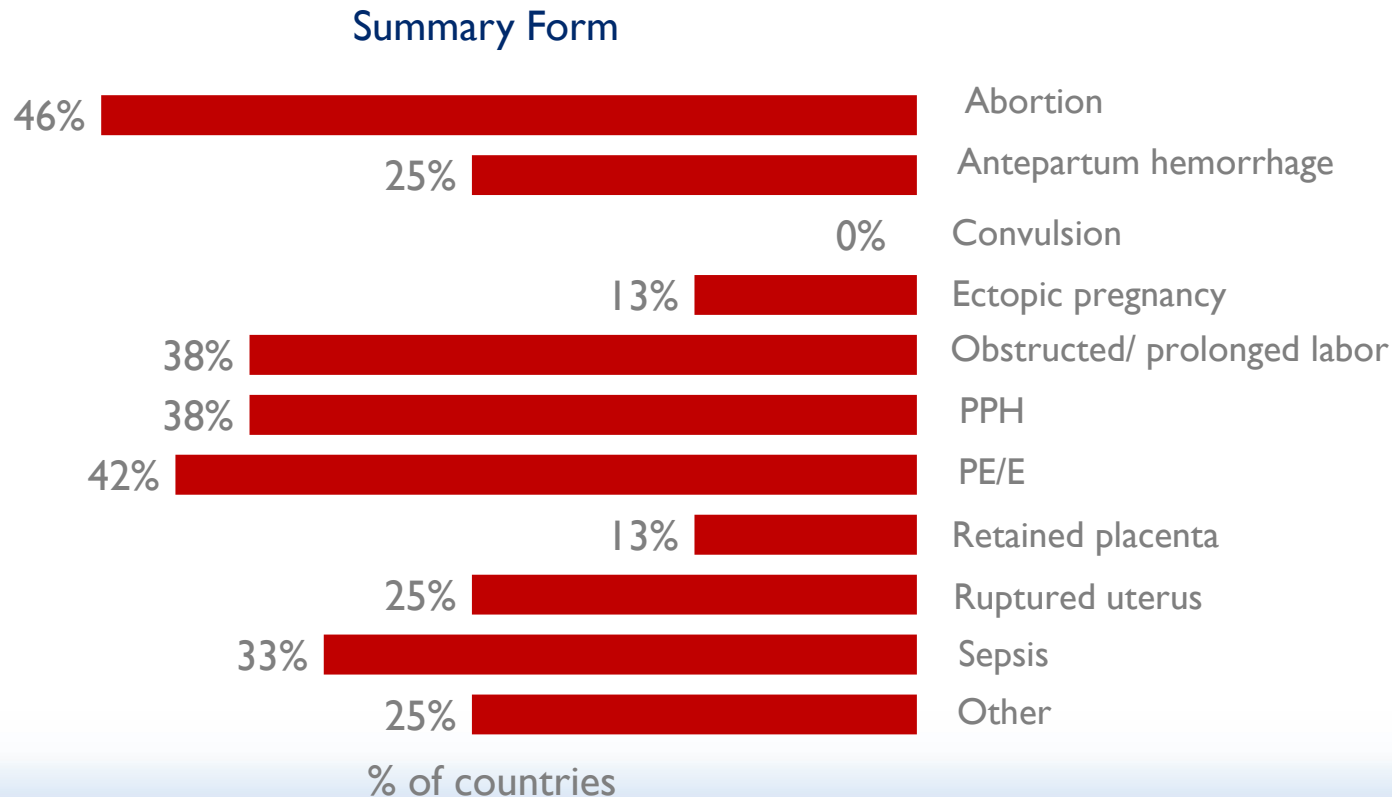
Complications after Delivery (None/ Specify)
33

Mothers condition at discharge (See key C6)	Baby's condition at discharge (1=Alive 2=Referred for Postnatal)	Date for Postnatal Care visit	Comments
38	39	40	41

Diagnostic	Observations***
32	33



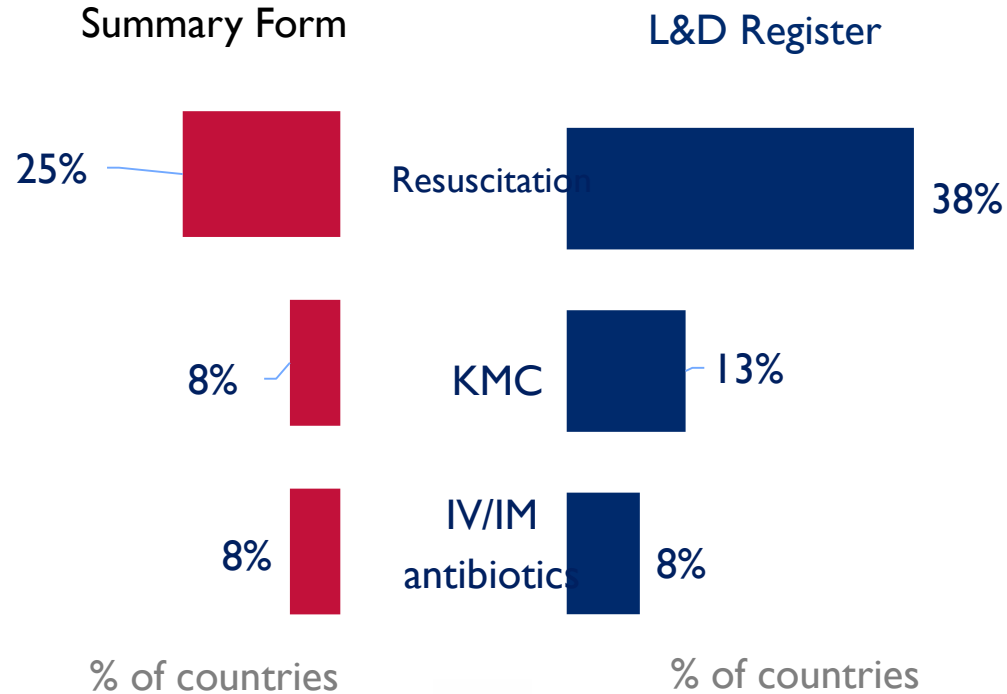
# Aggregated data on complications are usually missing



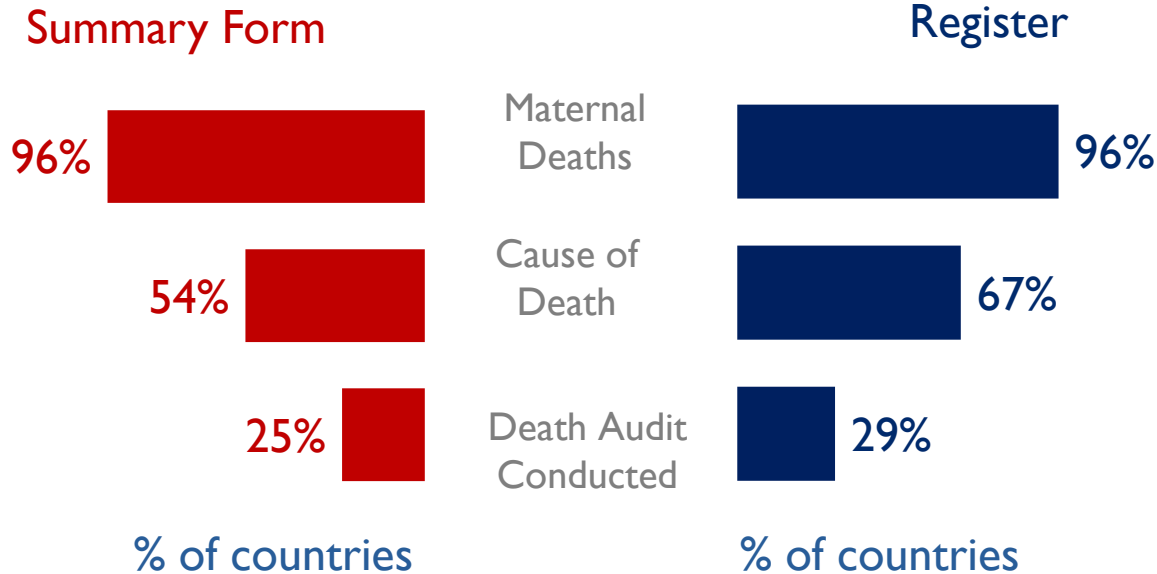
# Lack of data on treatment of maternal complications other than C-section

	Antibiotic	Anti-convulsant	Blood transfusion	Manual removal of placenta	Uterotonic	Other
Afghanistan				R		
Bangladesh						R
DRC	R S	S				R
Ethiopia						R
India		S			S	
Liberia						R
Malawi	R	RS	RS	RS	S	S
Mozambique		RS	RS		RS	R
Pakistan					S	S
Rwanda	S		S	S		
Tanzania	S	RS	R	R	R	
Zambia		S				

# Lack of data on treatment of newborn complications



# Institutional maternal deaths are tracked by most countries, but aggregated data on timing and cause data are lacking

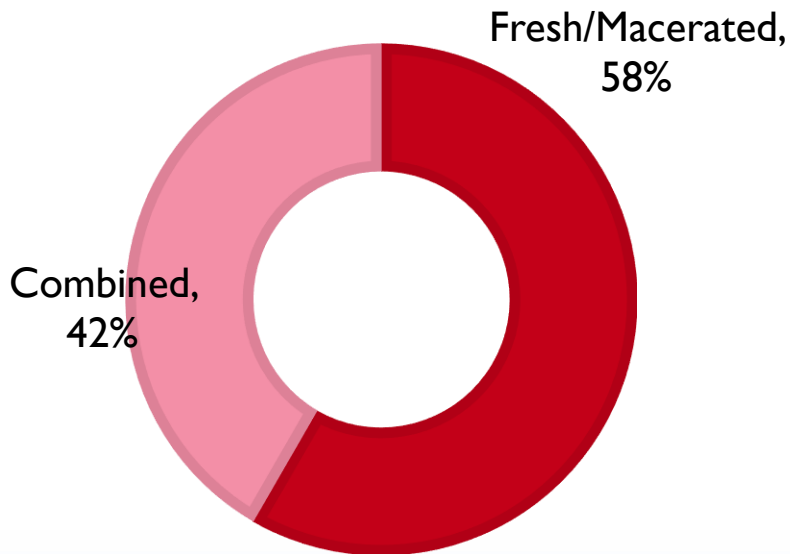


- No summary forms tracking “pre-discharge” maternal deaths specifically.

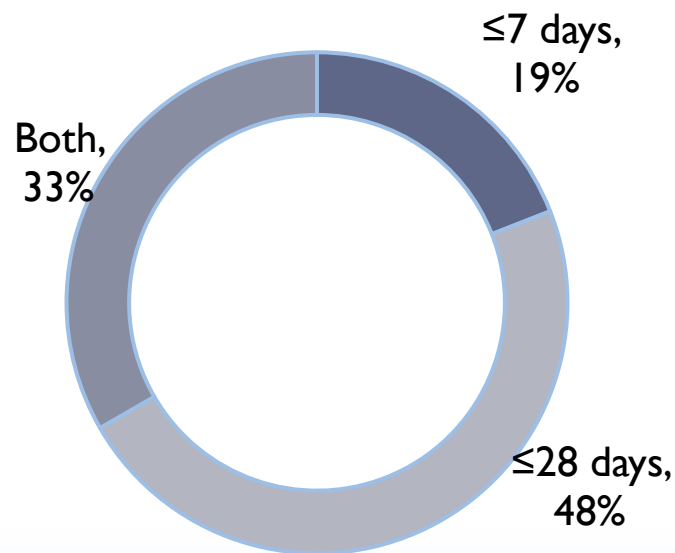


# Stillbirth and Institutional Neonatal Mortality Data

Stillbirth Reporting  
(Summary Forms)

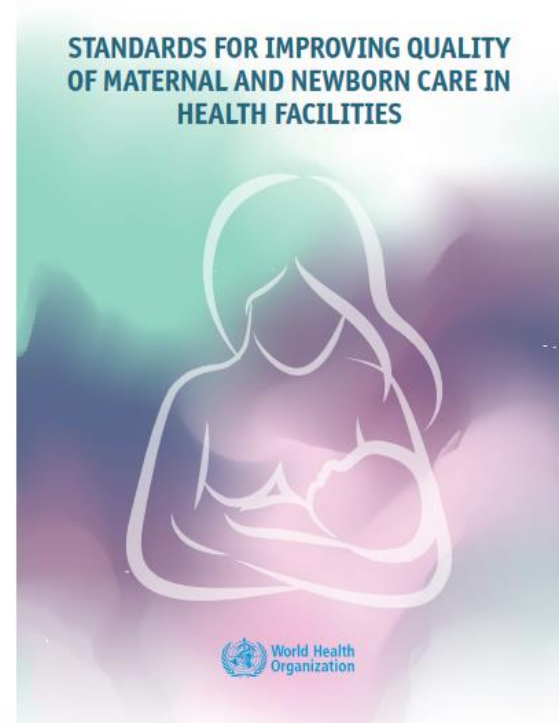
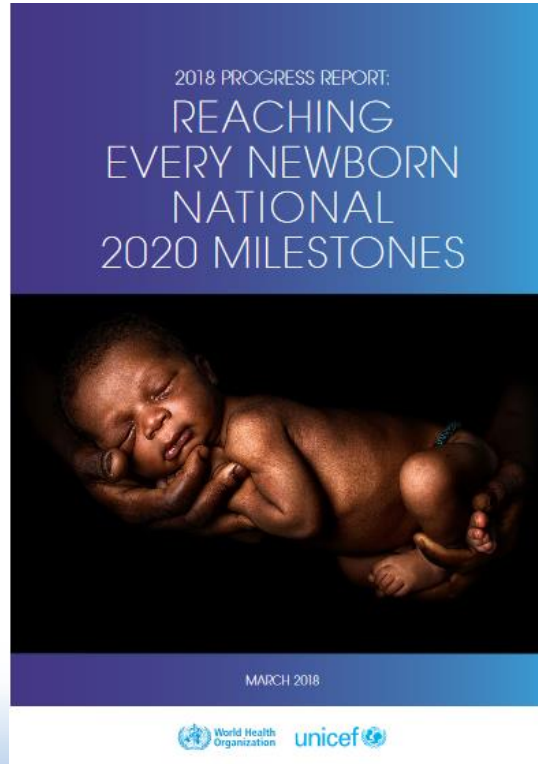
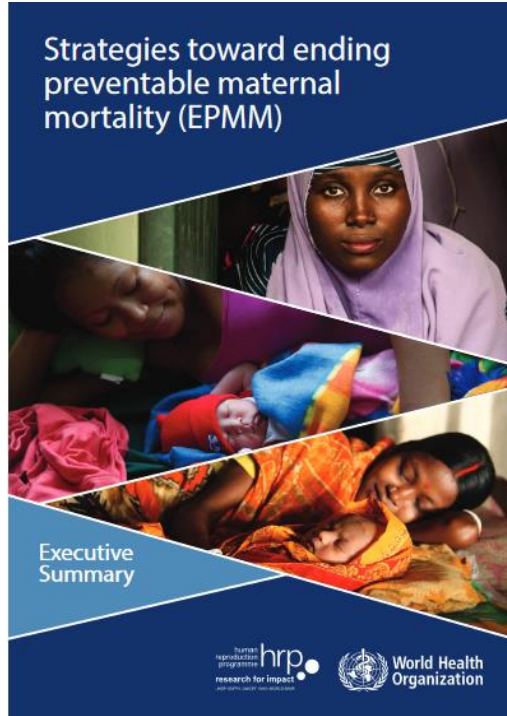


Neonatal Mortality  
Reporting  
(Summary Forms)



See also: Plotkin et al., Tracking facility-based perinatal deaths in Tanzania: Results from an indicator validation assessment. Plos One.

# Global Information Needs



# Obstetric case fatality rate challenging to report, LBW already widely available

- Obstetric case fatality (CFR) can be obtained from registers in nearly all countries, but deaths prior to discharge (numerator) and complications (denominator) are not yet included in most summary forms
- Tracking birthweight and incidence of low and very low birth weight is common
  - 80% of countries include birth weight in register.
  - 75% of countries track low birth weight (<2500 g) in summary forms.
  - Only 4 countries track very low birth weight (<2000) in summary forms.

Review of the Maternal and Newborn Health Content of National Health Management Information Systems in 24 Countries

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**Review of the Maternal and Newborn Health Content of National Health Management Information Systems in 24 Countries**

**Publish Date:** May 2018  
**Author:** MCSP

Routine Health Management Information Systems (HMIS) are the backbone of monitoring service delivery programs at the national level in low- and middle-income countries. Several global initiatives, such as [Ending Preventable Maternal Mortality](#), [Every Newborn Action Plan](#), and [Every Woman Every Child](#), have issued recommendations for core maternal and newborn health (MNH) indicators, including some that should be tracked at the global and national levels via routine HMIS. However, it is not well understood which countries are already collecting this information and which ones would need to revise their HMIS to track these indicators.

With this in mind, MCSP conducted a desk review of HMIS data collection and reporting forms in 24\* USAID priority countries. The review aims to document the status of national HMIS capacity to track indicators on the content and quality of MNH services. Covering

What Data on Maternal and Newborn Health Do National Health Management Information Systems Include?

Please see: <https://www.mcsprogram.org/resource/hmis-review/>

# MNH Conclusions

- ANC registers have the most information on the content/quality of care.
- Many countries still primarily track data on service utilization rather than content/quality of care for L&D and PNC. Additional indicators needed to help monitor quality of care for program management.
- Need to improve and standardize tracking of incidence, management and outcomes of maternal and newborn complications.
- Key information on both district and global MNH measurement priorities is often missing.
- Newer forms and registers seem to be tracking better information – progress toward collecting global indicators and incorporating new interventions.





# Family Planning Findings



# Half of countries report post-partum FP (PPFP); few report post-abortion FP (PAFP)

- PPFP usually a recent addition
- Few disaggregate all PPFP methods
- Some countries collect but don't report PPFP and PAFP

	Postpartum FP		Postabortion FP	
	# Clients	Disaggregate by method	# Clients	Disaggregate by method
Afghanistan	<input type="radio"/>			
Bangladesh DGFP				
Bangladesh DGHS				
DR Congo	<input checked="" type="checkbox"/>	none	<input checked="" type="checkbox"/>	none
Ethiopia	<input checked="" type="checkbox"/>	all methods	<input type="radio"/>	
Haiti				
India	<input checked="" type="checkbox"/>	IUD, TL	<input type="radio"/>	
Kenya	<input type="radio"/>			
Liberia				
Madagascar				
Malawi	<input checked="" type="checkbox"/>	none		
Mali				
Mozambique	<input checked="" type="checkbox"/>	IUD, other	<input type="radio"/>	
Nigeria	soon			
Pakistan DOH	<input checked="" type="checkbox"/>	IUD, implants		
Pakistan PWD				
Rwanda	<input checked="" type="checkbox"/>	all methods		
Tanzania	<input checked="" type="checkbox"/>	jadelle, implanon, other	<input checked="" type="checkbox"/>	jadelle, implanon, other
Uganda	<input type="radio"/>		<input type="radio"/>	
Zambia	<input checked="" type="checkbox"/>	none	<input type="radio"/>	
<b>Total</b>	<b>9</b>		<b>2</b>	



In register & summary form



In register only

\*India only reports postpartum IUD and TL. Pakistan only reports postpartum IUD and implants. Therefore, no other methods can be disaggregated.

# Variation in what/how/where PPFP recorded

- Register:

- 5 use L&D register
- 8 use FP register
- 9 use PNC register

- Differences in:

- Y/N, ✓, method
- Methods (if any)
- Timing of PPFP (if specified)
- Counseling recorded (in addition to method provision)

	Register		
	L&D Register	FP Register	PNC Register
<i>Afghanistan</i>			Postnatal FP (Y/N)
<i>DR Congo</i>		New PP acceptor (✓)	FP Counseling (✓) Method (specify)
<i>Ethiopia</i>	New or Repeat (✓) Method (code)		FP Counseling (✓) New or Repeat (✓) Method (code)
<i>India</i>	PPIUCD inserted (Y/N)	Separate registers	PPIUD ≤48 hrs (Y/N) PPS ≤7days (Y/N) Method (code)
<i>Kenya</i>			Method (code)
<i>Malawi</i>		Immediate, interval, c-section BTL (✓)	FP Counseling (Y/N) BTL or IUCD (✓)
<i>Mozambique</i>	PPIUD or other (✓)		
<i>Pakistan DOH</i>		PPIUD, PPimplants (✓)	
<i>Rwanda</i>	FP Counseling Method (code)	Pre-discharge FP (Y/N)	PPFP ≤6 weeks (Y/N)
<i>Tanzania</i>		Method (code)	IEC materials given (✓) Method (code)
<i>Uganda</i>	Write in PP-BTL or PP-IUD	Write in PP-IUD (if ≤48hrs)	Method (code)
<i>Zambia</i>		PP <u>or</u> PA (Y/N)	

# FP2020 CAPs: more countries want PPFP in their HMIS

## Recommendation 1: add 2 priority indicators to HMIS

MCSP convened a PPFP Measurement Committee in May 2018 to develop recommendations

	Indicator	Denominator	Source	Disaggregation
1	Proportion of postpartum women delivering at a facility initiating a contraceptive method before discharge	Facility deliveries	Delivery Register <u>or</u> Postnatal Care Register for pre-discharge care	Critical: <ul style="list-style-type: none"><li>• Method (including LAM)</li></ul> Optional: <ul style="list-style-type: none"><li>• Age (&lt;20 &amp; 20+)</li></ul>
2	Number of FP clients who are within 6 (or 8) weeks postpartum	-	Family Planning register (+ community data collection tool, if available)	Optional: <ul style="list-style-type: none"><li>• Method</li><li>• Service location (facility vs community)</li></ul>

## Recommendation 2: consider 3<sup>rd</sup> indicator to capture pre-discharge PPFP counseling

	Indicator	Denominator	Source	Disaggregation
3	Proportion of women delivering at facility counseled on PPFP prior to discharge	Facility deliveries	Same as #1	-

# *“New users” are confusing our counting:*

## Recent paper described terminology issues

- “New User” and “Acceptor” are often used terms but not clearly defined
- May refer to:
  - First-time user
  - New to provider
  - New to method
  - Lapsed user

Source: Dasgupta, A., Weinberger, M., Bellows, B., Brown, W. (2017). *“New Users” Are Confusing Our Counting: Reaching Consensus on How to Measure “Additional Users” of Family Planning*. Global Health: Science and Practice, 5(1):6-14

# Paper proposed standard terms

<b>Adopter</b>		<b>Provider-Continuer</b>	<b>Provider-Changer</b>
Not using a modern contraceptive method at the time of her visit			
<b>First-time User</b>	<b>Lapsed User</b>		
Starts using modern contraception for the first time in her life	Has used a modern method at any time in the past, but is not currently using one at time of visit	Already using a modern method- returns to same provider for another FP service (resupply or switch methods)	Already using a modern method - new to the provider

Source: Dasgupta, A., Weinberger, M., Bellows, B., Brown, W. (2017). *"New Users" Are Confusing Our Counting: Reaching Consensus on How to Measure "Additional Users" of Family Planning*. Global Health: Science and Practice, 5(1):6-14

# Most countries still use variation of new user/acceptor

	New	Old
<i>Afghanistan</i>	New case	Re-attendance
<i>Bangladesh DGFP</i>	New	Old
<i>Bangladesh DGHS</i>		
<i>DRC</i>	New acceptors	Renewals
<i>Ethiopia</i>	New acceptors	Repeat acceptors
<i>Haiti</i>	Acceptors	
<i>India</i>		
<i>Kenya</i>	New	Re-visit
<i>Liberia</i>	New acceptors	
<i>Madagascar</i>	New users	Regular users
<i>Malawi</i>	New clients	Restarting & Subsequent
<i>Mali</i>	New users	
<i>Mozambique</i>	New users	Continuers
<i>Nigeria</i>	New acceptors	
<i>Pakistan DOH</i>	New clients	Follow-up clients
<i>Pakistan PWD</i>	New case	Old case
<i>Rwanda</i>	New acceptors & New users	
<i>Tanzania</i>	New clients	Revisit
<i>Uganda</i>	New user	Revisit
<i>Zambia</i>	New acceptors	Continuing & Restart



# Are countries *effectively* using proposed categories, even if not using those terms?

- Hard to tell
- We looked for indicator definitions in summary report instructions, FP register instructions, and/or country HMIS manuals
- If still ambiguous, we then asked MCSP staff in country for common understanding of definition for “New” and “Old” user







## Before reviewing definitions



Definition ambiguous

Country	New User	Old User
Afghanistan		
Bangladesh DGFP		
Bangladesh DGHS		
DRC		
Ethiopia		
Haiti		
India		
Kenya		
Liberia		
Madagascar		
Malawi		
Mali		
Mozambique		
Nigeria		
Pakistan DOH		
Pakistan PWD		
Rwanda		
Tanzania		
Uganda		
Zambia		

## After reviewing definitions

-  Defined, matches proposed category
-  Defined, encompasses multiple categories
-  Definition unavailable or ambiguous
-  Consulted Jhpiego staff
-  Other definition
-  Consulted Jhpiego staff

Country	New User	Old User	First-time User	Lapsed User	Provider-Continuer	Provider-Changer	Other user definition
Afghanistan			Adopter				
Bangladesh DGFP							
Bangladesh DGHS							
DRC							
Ethiopia							
Haiti							
India							
Kenya							
Liberia							
Madagascar							
Malawi							
Mali							
Mozambique							
Nigeria							
Pakistan DOH							
Pakistan PWD							
Rwanda							
Tanzania							
Uganda							
Zambia							

# First-time users

**6 countries** specify “New” = first-time users

Examples:

- Using for the first time irrespective of method (Ethiopia)
- An individual who adopts an FP method for the first time in their life (Rwanda)
- Has never received a modern contraceptive before from any source (Uganda)

**+2 countries** report first-time users (according to country staff)

- Coming for the first time for an FP consultation (Madagascar)
- Seeking FP method for the first time (Malawi)

# Adopters and Lapsed users

## 1 **country** reports Adopters (first-time + lapsed)

- A client who had never used an FP method before and starts using one; and a client who discontinued a method and starts a new one, or re-starts the same one (Afghanistan)

## 2 **countries** report Lapsed users

- If the client was already on FP but had discontinued and is now restarting (Malawi)
- Used a modern FP method before but stopped - now wants to resume, either on the same method or another (Zambia)

## Provider-continuer

**1 country** reports clients continuing FP with same provider:

- Subsequent visits recorded in register by use of client registration number from previous visit (differentiated from lapsed users) (Malawi)

## Provider-changer

**0 countries** report clients already using a modern method but new to the provider



# Combined categories

## Provider-continuer + provider-changer

- Afghanistan “re-attendance”

## Provider-continuer + provider-changer + lapsed user

- Ethiopia “repeat acceptors”
- Mozambique “continuer”

## Provider-continuer + lapsed user

- Uganda “revisit”

## Provider-continuer + provider-changer

- Zambia “repeat”

# Examples of other categories used

## **New to a particular method**

- Kenya, Liberia, Nigeria, Rwanda

## **Resupply and/or clinical follow-up**

- Similar to provider-continuer but does not include switching and may include follow-up check
- Kenya, Nigeria, Pakistan

Nearly half  
of countries  
report  
LARC  
removals

	Implant removals	IUD removals
<i>Afghanistan</i>		✓
<i>Bangladesh DGFP</i>		
<i>Bangladesh DGHS</i>		
<i>DR Congo</i>		
<i>Ethiopia</i>	✓	✓
<i>Haiti</i>	○	○
<i>India</i>		✓
<i>Kenya</i>	✓	✓
<i>Liberia</i>		
<i>Madagascar</i>		
<i>Malawi</i>	✓	✓
<i>Mali</i>	○	○
<i>Mozambique</i>	✓	✓
<i>Nigeria</i>	○	○
<i>Pakistan DOH</i>		
<i>Pakistan PWD</i>		
<i>Rwanda</i>	○	○
<i>Tanzania</i>	✓	✓
<i>Uganda</i>	✓	○
<i>Zambia</i>	✓	✓
<b>Total</b>	<b>7</b>	<b>8</b>
✓	In register & summary form	
○	In register only	

Nearly half  
of countries  
report  
adolescents/  
youth  
receiving FP  
services

	10-19 yrs*	20-24 yrs	< 25 yrs
<i>Afghanistan</i>			
<i>Bangladesh DGFP</i>			
<i>Bangladesh DGHS</i>			
<i>DR Congo</i>	✓		
<i>Ethiopia</i>	✓	✓	
<i>Haiti</i>			✓
<i>India</i>			
<i>Kenya</i>	✓		
<i>Liberia</i>			
<i>Madagascar</i>	✓	✓	
<i>Malawi</i>	✓	✓	
<i>Mali</i>			
<i>Mozambique</i>			
<i>Nigeria</i>			
<i>Pakistan DOH</i>			
<i>Pakistan PWD</i>			
<i>Rwanda</i>	✓	✓	
<i>Tanzania</i>	✓	✓	
<i>Uganda</i>	✓	✓	
<i>Zambia</i>			
<b>Total</b>	<b>8</b>	<b>6</b>	<b>1</b>
*Ethiopia, Madagascar, Tanzania separate 10-14 & 15-19; Rwanda only reports 15-19			

Most countries cannot calculate CYP using HMIS data (without assumptions)

	Method-specific information reported					CYP can be calculated
	Type of IUD	Type of Injectable	Type of Implant	# pills distributed	# condoms distributed	
<i>Afghanistan</i>				✓	✓	
<i>Bangladesh DGFP</i>						
<i>Bangladesh DGHS</i>						
<i>DR Congo</i>	✓	✓	✓	✓	✓	✓
<i>Ethiopia</i>						
<i>Haiti</i>		✓		✓	✓	
<i>India</i>				✓	✓	
<i>Kenya</i>						
<i>Liberia</i>		✓	✓	✓	✓	
<i>Madagascar</i>	✓	✓	✓	✓	✓	
<i>Malawi</i>		✓	✓	✓	✓	
<i>Mali</i>				✓	✓	
<i>Mozambique</i>		✓	✓	✓	✓	
<i>Nigeria</i>				✓	✓	
<i>Pakistan DOH</i>	✓	✓		✓	✓	
<i>Pakistan PWD</i>				✓	✓	
<i>Rwanda</i>		✓	✓	✓	✓	
<i>Tanzania</i>				✓	✓	
<i>Uganda</i>			✓	✓	✓	
<i>Zambia</i>		✓		✓	✓	
<b>Total</b>	<b>3</b>	<b>9</b>	<b>7</b>	<b>15</b>	<b>14</b>	<b>1</b>

# FP Conclusions

- PPFP data increasingly in national HMIS, showing countries want to track (even if not currently a FP2020 core indicator; QoC Network incl PPFP counseling)
- Definitions for FP client type should be standardized for easier interpretation and better decision-making/planning
- Some countries have data in their HMIS that can be used to ensure FP services fulfill human rights, eg:
  - Adolescents/youth accessing services
  - LARC removals
- Most countries must use assumptions to calculate CYP
- Countries collect and aggregate many FP indicators, so must consider burden of data collection and compilation



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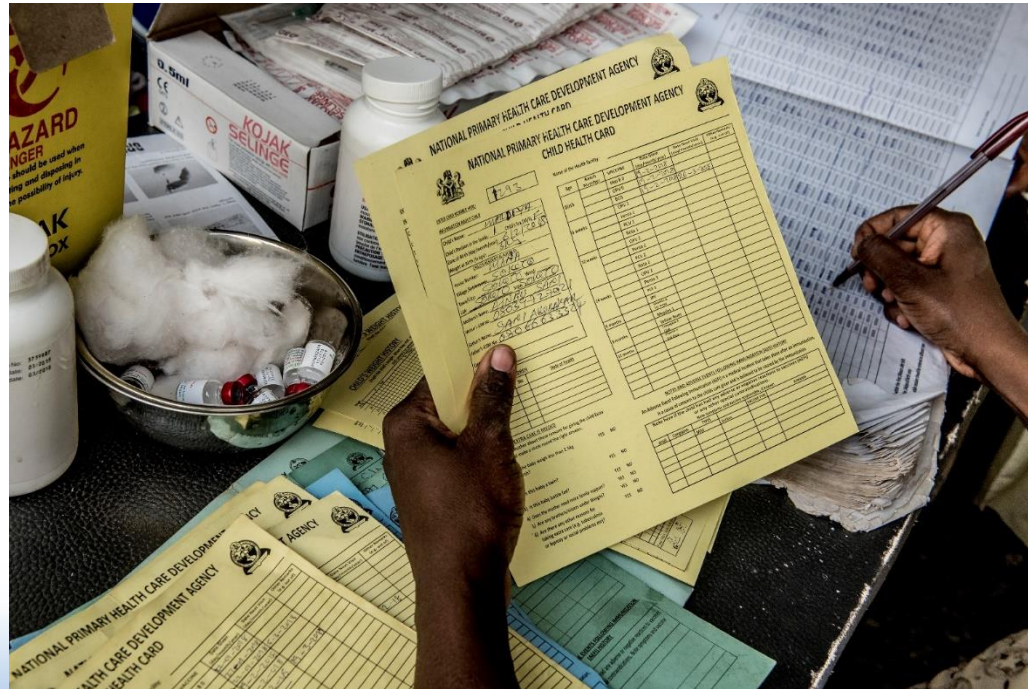
Q&A

Photo credit: Mubeen Siddiqui/MCSP.  
Ambapua, Berhampur, India, 2017

# Final webinar in this series

Child Health and Nutrition

Wednesday, October 3, 2018 | 9:00 – 10:30 a.m. EDT



*Photo credit: Karen Kasmauski/MCSP. Sokoto, Nigeria 2018*

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