

Explanation of discrepancy in long-acting reversible contraceptives and permanent methods (LARC/PM) use between data recorded through service statistics and household reporting

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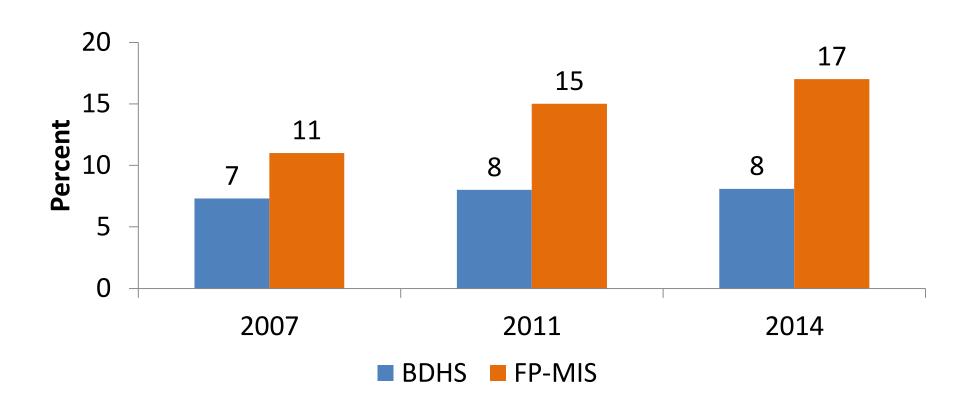






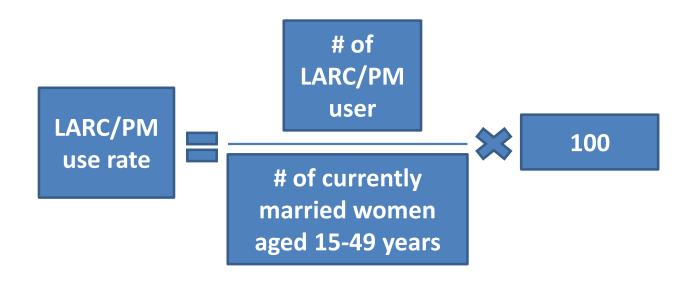
Background

Percent of currently married women aged 15-49 using LARC/PM (national estimates)



LARC/PM: IUD, implant, tubectomy and NSV

Mathematical definition of use rate of LARC/PM



Objectives

- 1. Compare LARC/PM use rate among family planning MIS (FP-MIS), surveillance record and independent survey.
- 2. Explore reasons for differences between FP-MIS data with surveillance data.

Methods and procedures

Study area

- Comparison area of Matlab health and demographic surveillance (HDSS)
- 16 villages 13 in Daudkandi and 3 in Matlab South
- 10 FWAs (FP-MIS's field worker) cover the villages.

Study population: All currently married woman of reproductive age (15-49 years) in the area

Reference period: Household visiting cycle May-June 2017. Visiting cycles of FWAs and HDSS's field workers are same.

Outcome: LARC/PM use

Program characteristics of HDSS area

Matlab HDSS

icddr,b service area:

- Usual govt. health and FP services are available
- icddr,b provides health and FP services parallel to govt.
 - Selected MCH services
 - o FP services
- Health and demographic data collection bi-monthly

Comparison area:

- Usual govt. health and FP services are available

- Health and demographic data collection bi-monthly

Comparability of FP-MIS and HDSS: FP data collection

FWAs (primary data collectors of FP-MIS)	CHRWs (primary data collectors of HDSS)
Two months visiting cycle	Two months visiting cycle
Work for FP promotion	Do not work for FP promotion
- Provide FP information	- Do not provide
- Provide pills and condoms	- Do not provide
Collect contraceptive acceptance data	Collect contraceptive use data

For LARC/PM, acceptance and use are same due to nature of the methods

Study method

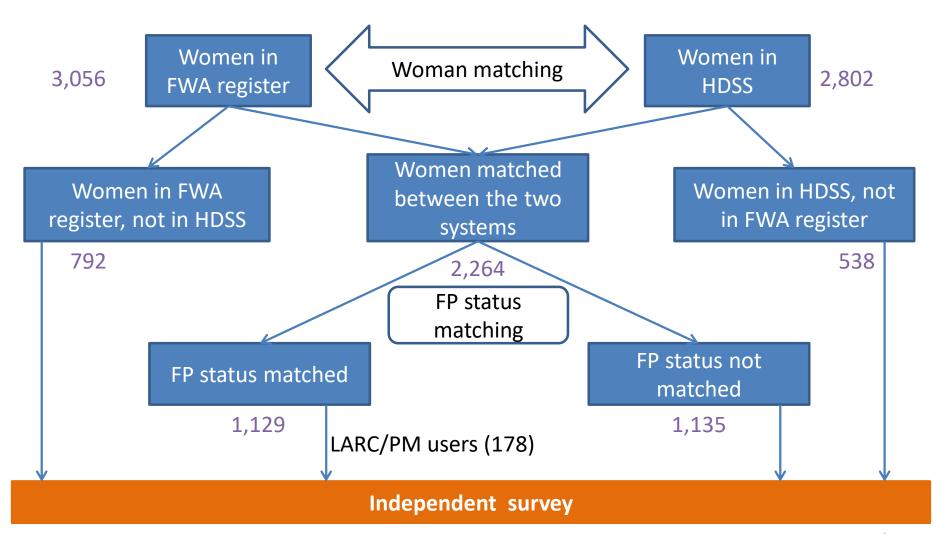
- Verify individual woman's FP record between FP-MIS and HDSS
 - Match women between the two sources by name and husband's name in a village
 - Match FP method use status
- Independent survey equivalent to DHS (only FP use) among women
- Strength of the independent survey: Data collectors did not have prior information about FP method use of the respondents

Results

FP method specific use rate based on FWA register and HDSS

	% using method			
FP method	FWA register (n=3,056)	HDSS (n=2,802)		
LARC/PM (Tubectomy, NSV, IUD, implant)	13.2	8.2		
Short acting <i>(pill, injectable, condom)</i> and other	47.1	25.3		

Matching of women between FWA register and HDSS

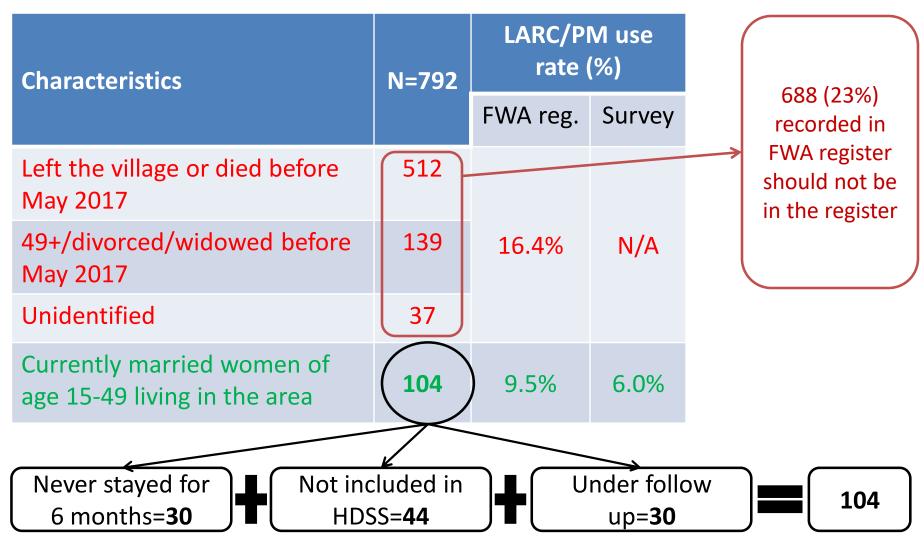


Method specific use rate by groups of women

Matching between HDSS and FWA register

Groups of women by matching status Women and Women matched, but Women in Women in method use method unmatched HDSS but FWA reg. matched not in but not in (N=1,135)**HDSS** FWA reg. **HDSS** FWA reg. (N=1,129)(N=538)(N=792)% use LARC/PM 15.8 3.2 16.0 8.7 3.0 % use short acting 28.8 69.1 23.9 21.1 41.8 method

Characteristics of the women who are in FWA register but not in HDSS



Method specific use rate by groups of women

Matching between HDSS and FWA register

Groups of women by matching status

	Women and method use matched	Women matched, but method unmatched (N=1,135) FWA HDSS register		Women in HDSS but not in FWA reg.	Women in FWA reg. but not in HDSS
FP use	(N=1,129)			(N=538)	(N=792)
% use LARC/PM	15.8	8.7	3.2	3.0	16.0
% use short acting method	28.8	69.1 23.9		21.1	41.8

Women in HDSS but not in FWA register – comparison between HDSS and independent survey

% using method	Women in HDSS only (N=538)				
	HDSS Survey				
LARC/PM	3.0	2.4			
Short acting method	21.1	24.4			

Non-users were more likely to be excluded from FWA register

Method specific use rate by groups of women

Matching between HDSS and FWA register

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Women matched between HDSS and FP-MIS but method unmatched – comparison among FWA reg., HDSS and survey

% using method	Women matched, method unmatched (N=1,135)				
	FWA register	Survey			
LARC/PM	8.7	3.2	3.2		
Short acting method	69.1	23.9	29.2		

 Many of the LARC/PMs recorded in FWA register were not in the HDSS and not found in survey

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Matching between HDSS and FWA register

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Women and their method matched – comparison among FWA register, HDSS and Survey

	Women and method matched (N=1,129)						
	FWA register	HDSS	Survey				
% use LARC/PM	15.8	15.8	15.0				

Survey didn't capture some of the LARC/PMs as LARC/PM

LARC/PM use rate in FP-MIS, HDSS and survey: final estimates

	FP-MIS	HDSS	Survey
Number of women	3,056	2,802	2,906
LARC/PM use rate (%)	13.2	8.2	7.7

How good was the independent survey to capture LARC/PM by method?

Number of users		Number of users (Independent survey)					
(FWA register and HDSS)	Tubectomy	NSV	Implant	IUD	Injec.	No method	Total
Tubectomy	110					4	114
NSV		10			1	2	13
Implant			8				8
IUD				1			1

About one quarter of women enlisted in FWA register actually were non- residents, over aged, divorced, widowed, or dead Women (538) who were residents but not listed in FWA register Low LARC/PM use rate (3.0%) Low LARC/PM use rate

- The independent survey slightly underreported the use of tubectomy and NSV (approximately 0.6% point)
- About 11% women reported that they were visited by FWAs in last 6 months
- •About 90% women reported that they were visited by HDSS worker in last 6 months

Thank you