

**ARE GOVERNMENT AND RESEARCH DATA
COMPARABLE? ASSESSING GOVERNMENT AND
RESEARCHER-COLLECTED DATA FROM HIGH
VOLUME DELIVERY FACILITIES IN UTTAR
PRADESH, INDIA**

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PRESENTATION OUTLINE

- Introduction
- Site selection
- Methods
- Analysis
- Results
- Conclusion



INTRODUCTION TO STUDY

Strengthening People-Centered Accessibility Respect Quality

Quality Plus or Q+ is part of the larger SPARQ study on person-centered care in family planning, abortion, and maternal health.

Q+ focus: *What drives clinical quality and person centered care quality in public maternity centers in Uttar Pradesh.*



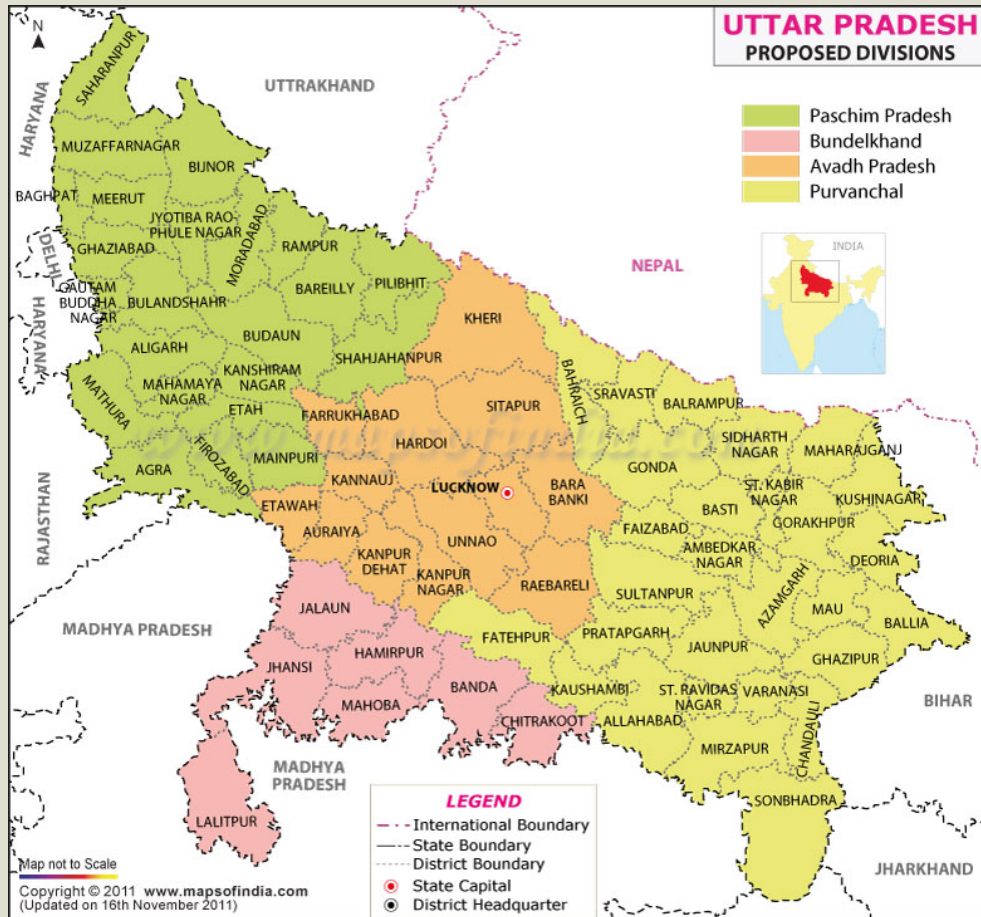
UP AND DELIVERY CARE

UTTAR PRADESH, UP

- 204.2 million people¹
- Rapid increase in facility deliveries:
 - 21% in 2006
 - 68% in 2016²
- 2nd highest maternal mortality rate in India:
 - 285 women die for every 100,000 live births³
- High levels of reported mistreatment:
 - 20% to 57% of women reported mistreatment during childbirth⁴⁻¹⁰



Q+ STUDY INTRODUCTION

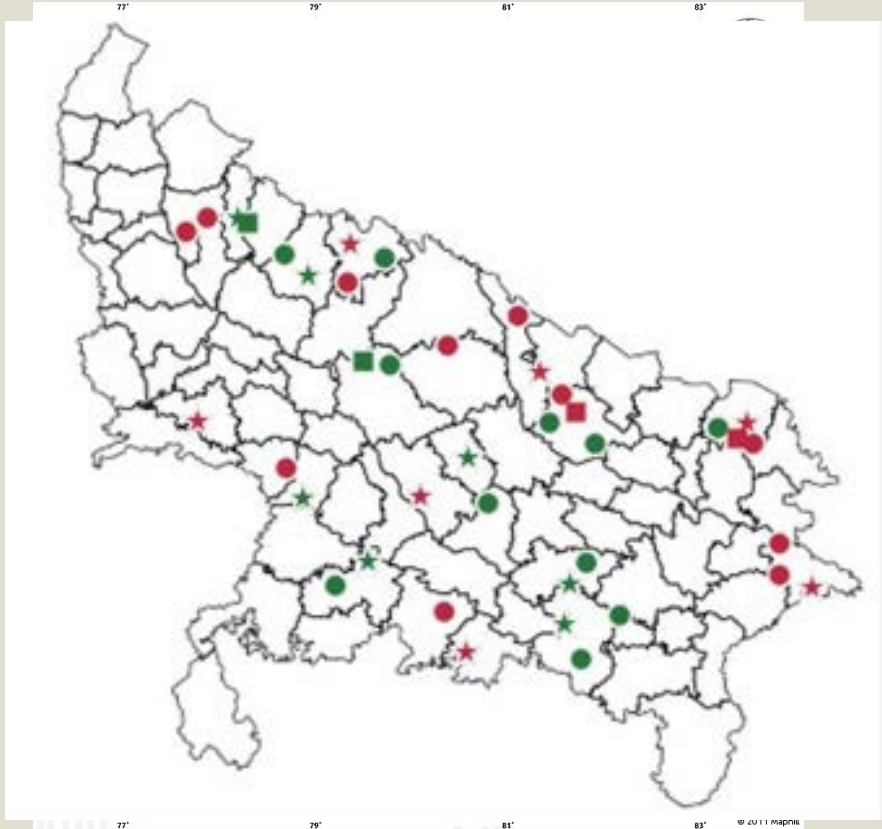


PRESENTATION FOCUS: Comparing government reported and researcher reported data

High volume facilities (>200 deliveries/month) = 208 facilities

- Self reported service readiness data¹¹
- SPA analysis¹²

SITE SELECTION



4

10

12

14

PHC:
Primary
health
center

CHC:
Community
Health
Center

CHC-FRU:
First Referral
Unit

DWH:
District
Women's
Hospital

Q+ METHODS

■ METHODS (August-November 2017)

- a. Re-administered Q+ facility surveys at all 40 facilities
- b. Surveyed 2,018 women who recently delivered
- c. Surveyed 250 health providers
- d. Interviewed 50 health providers

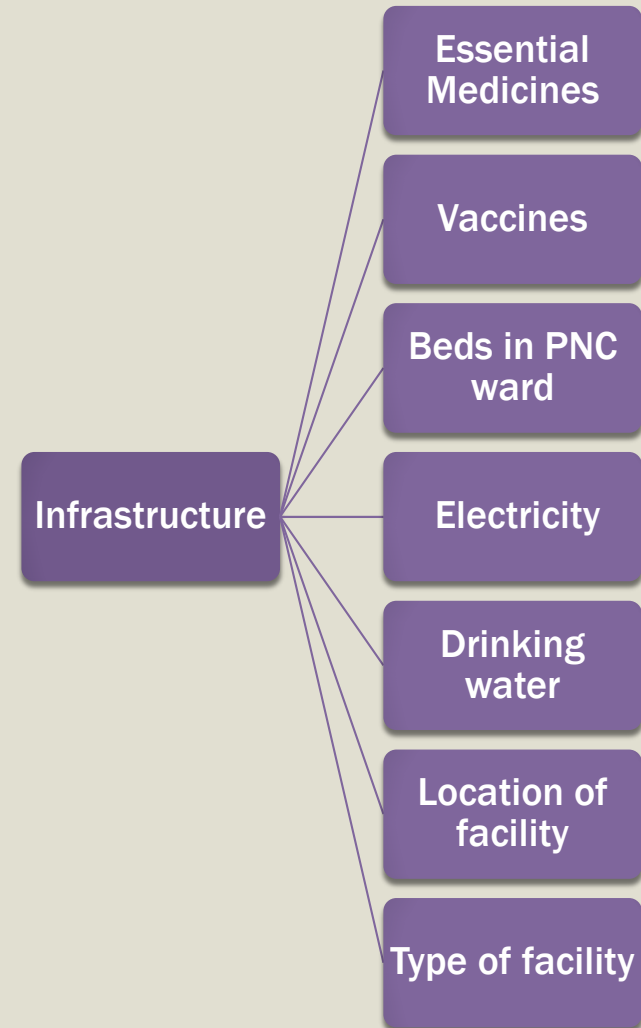
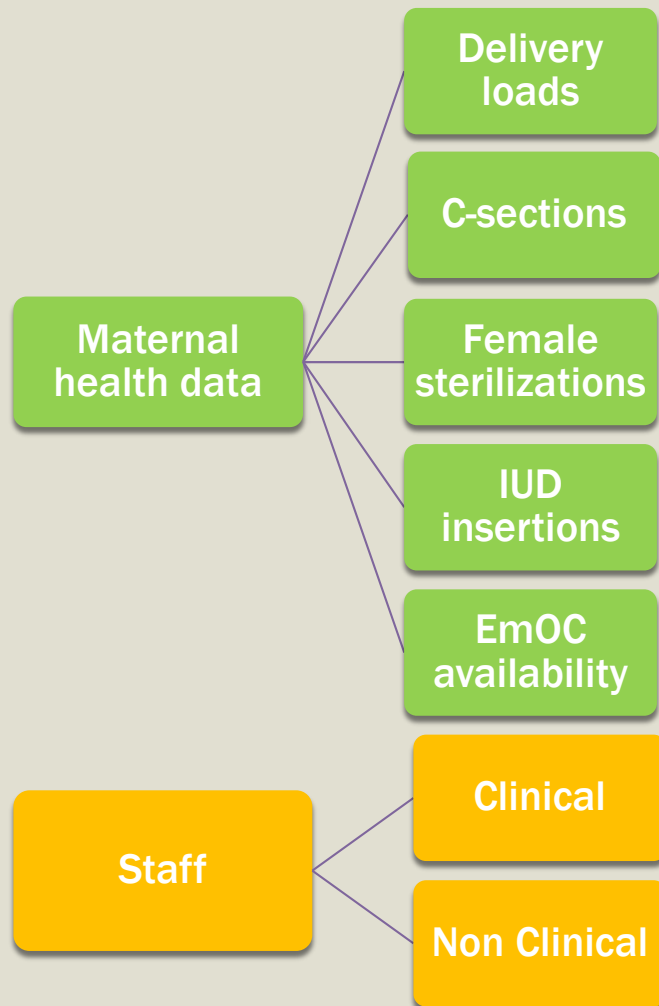
- Mixed method data analysis and dissemination underway





RESULTS

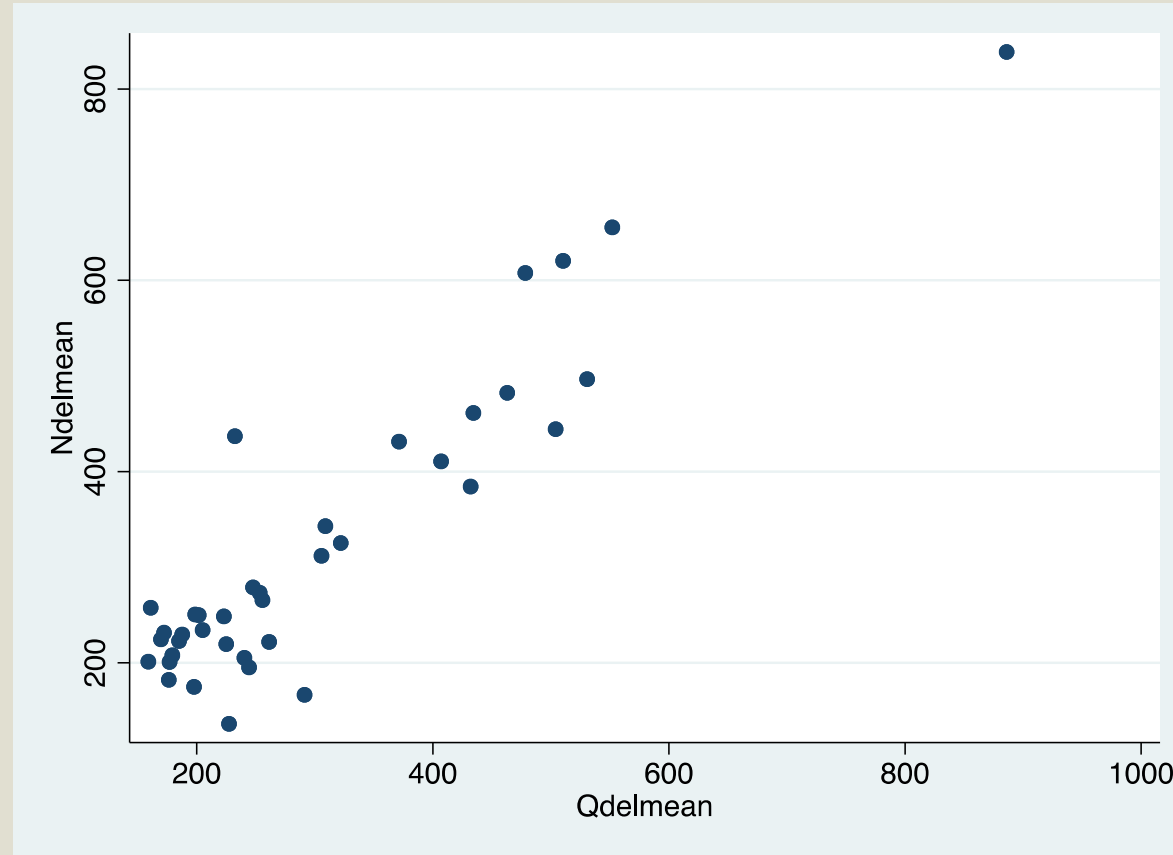
COMPARING CLINICAL QUALITY: ANALYSIS



NHM AND Q+: OVERALL RESULTS

Maternal health and family planning outcomes**	NHM Mean/%	Q+ Mean / %	Difference	P-value (t-test)
Monthly Deliveries (over 3 months)	324.52	301.09	23.43	0.055
C-sections (over 3 months)	178.49	26.79	151.7	0.000
Assisted deliveries (with forceps or vacuum), over 3 months	5.45	7.65	-2.2	0.432
EmOC score (0-5)	3.63	3.63	0	1
IUD/PPUID insertions (over 3 months)	286.42	268.23	18.19	0.8617
Female Sterilization Clients (over 3 months)	287.32	42.35	244.97	0.0147
Supplies				
Basic medical equipment (0-8)	7.88	7.93	-0.05	0.324
Essential Drugs for mothers and infants (0-25)	19.18	12.88	6.3	0.000
Vaccines (0-6)	4.68	5.53	-0.85	0.021
Infrastructure				
Beds in Post Natal Ward	47.26	22.3	24.96	0.000
Estimated minutes to reach drinking water	3.65	2.48	1.17	0.25
Staffing Loads				
Clinical Staff	25.25	17.1	8.15	0.022
Non Clinical Staff	7.18	6.33	0.85	0.312

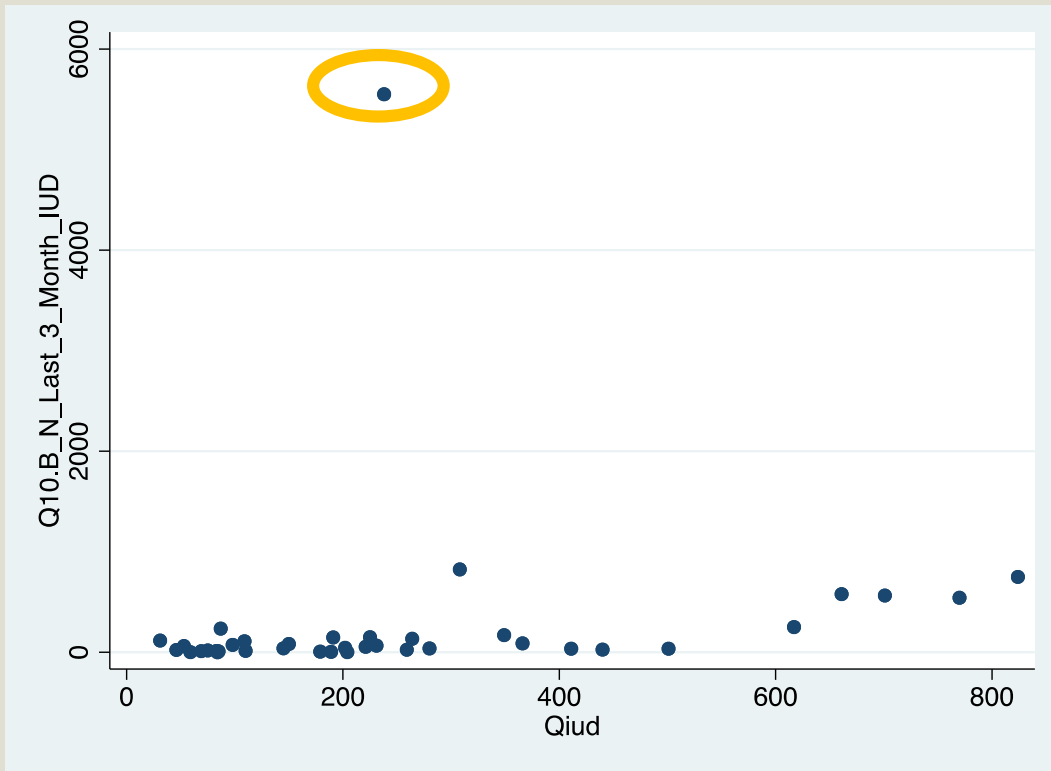
DELIVERY LOAD: CONSISTENT REPORTING



$R^2=0.85$

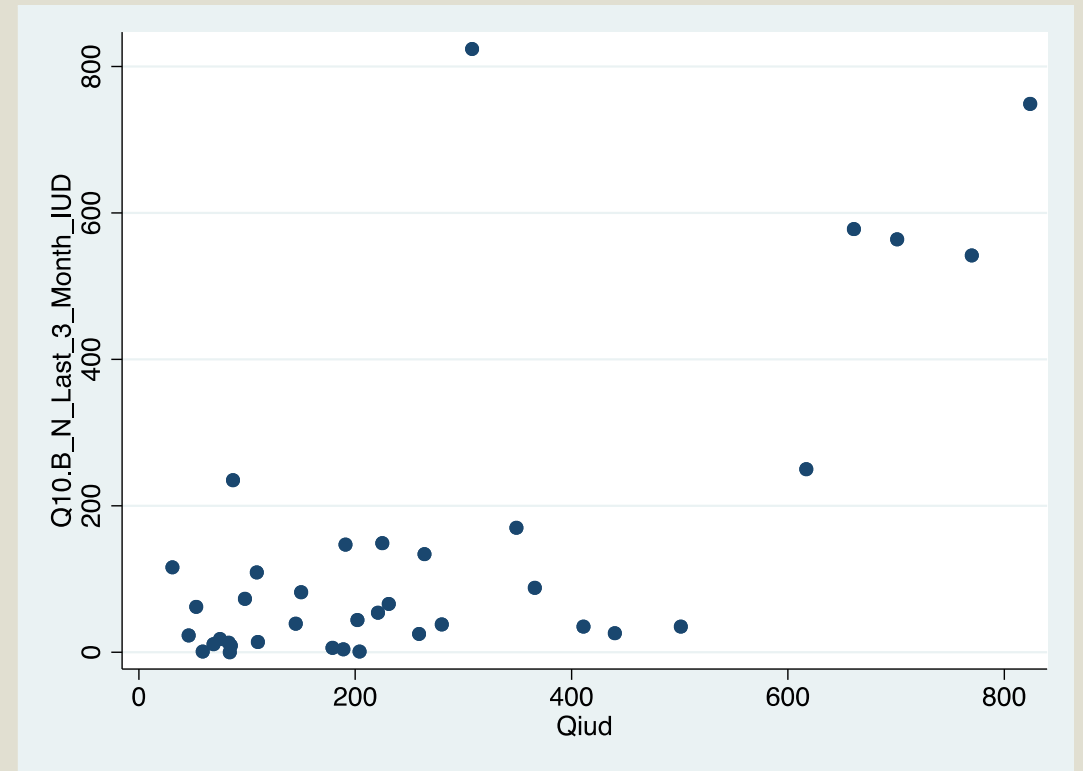
CONFIRMING CORRELATION

IUD insertions



$R^2 = 0.0220$

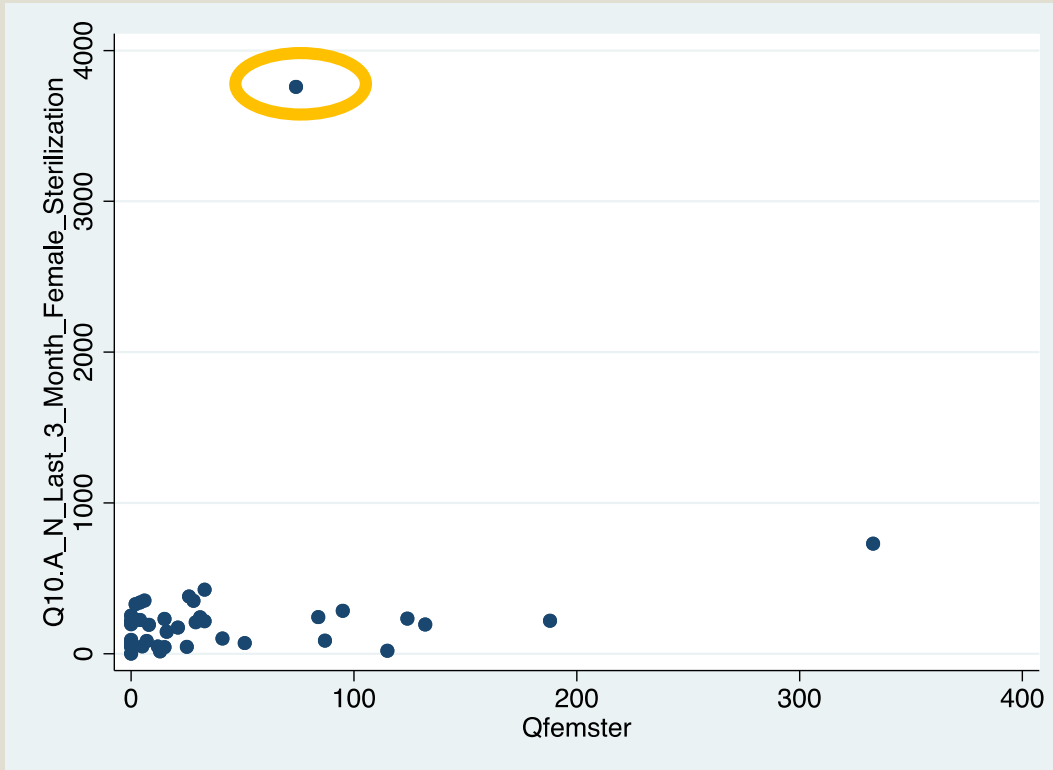
IUD insertions



$R^2 = 0.4882$

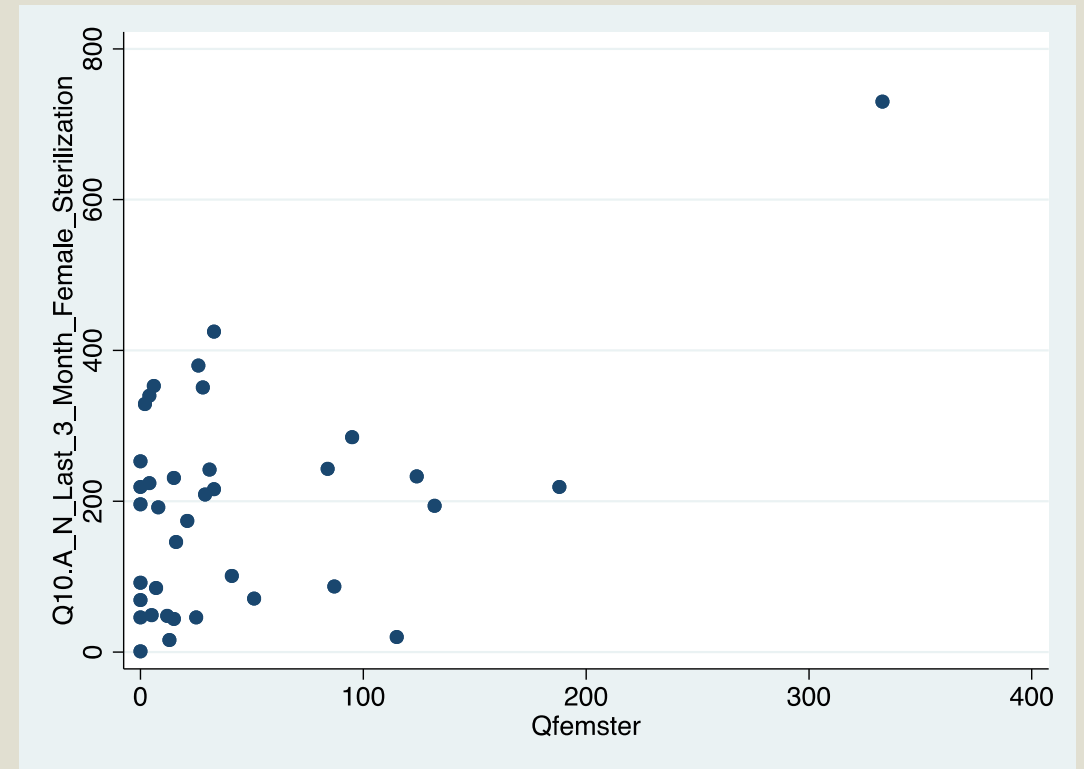
... AND CONFIRMING POOR CORRELATION

Female Sterilization



$R^2 = 0.0370$

Female Sterilization



$R^2 = 0.2382$

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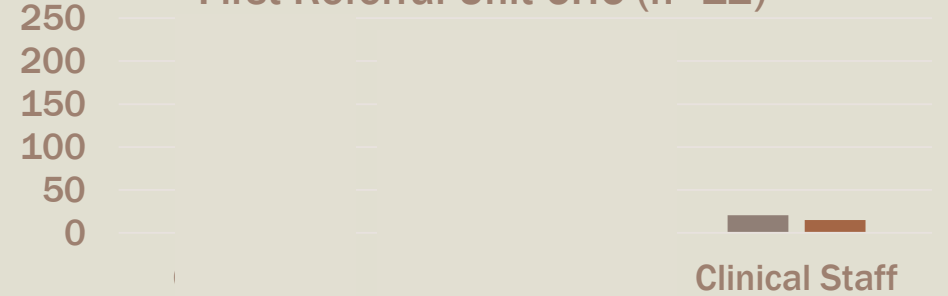
**Reporting period: NHM: Nov 2016-Feb 2017; Q+ : May-July 2017; ^N designates the number of facilities with data

BY LEVEL OF CARE

District Women's Hospital (n=14)



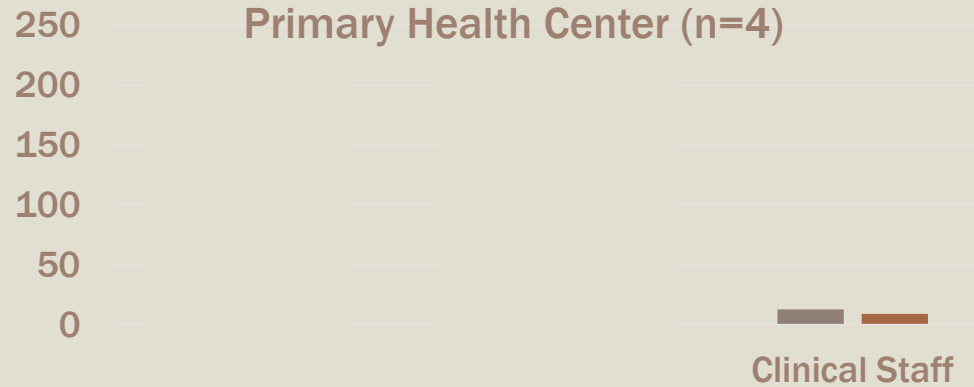
First Referral Unit-CHC (n=12)



Community Health Center (n=10)



Primary Health Center (n=4)



■ NHM Mean/% ■ Q+ Mean/%

INCENTIVES AND HEALTH SYSTEMS: CHANGING COLORS TO SURVIVE

“A chameleon changes its color for survival and matches with background but its form and function does not change. Similarly, health systems in LMICs change their color under pressure ... but [their] original function does not change.”

–Government of India, NHM officer



THANK YOU



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IMAGES:

1. Map1 https://en.wikipedia.org/wiki/Uttar_Pradesh
2. Map2 <https://www.mapsofindia.com/maps/uttarpradesh/proposed-new-states.html>
3. Map3 <http://www.maphill.com/india/uttar-pradesh/simple-maps/blank-map/cropped-outside/>
4. Chameleon1 <https://www.teepublic.com/t-shirt/67230-chameleon-fantasy-rainbow-colors>
5. Chameleon2 <http://sites.jmu.edu/bio103shook/bbq-3b-why-do-chameleons-change-colors-is-it-an-evolutionary-adaptation-that-is-just-wrong/>
6. Chameleon3 https://en.wikipedia.org/wiki/Uttar_Pradesh
7. Data collector images: Taken by Beth Phillips
8. Logos: downloaded from partner websites