

Performance Monitoring for Action Ethiopia

PMA ETHIOPIA
Maternal and Newborn Health In Ethiopia
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Presentation Outline and Objectives

Present summary results from PMA Ethiopia's six-week postpartum longitudinal survey on key reproductive, maternal, and newborn health (RMNH), indicators including possible effects of the COVID-19 pandemic to service utilization and overall health

Presentation Outline:

- 1. About PMA Ethiopia
- 2. Study Design
- 3. Key Findings

4. Summary results on:

- Maternal health indicators
- Neonatal health indicators
- Findings on postpartum family planning
- Impact of COVID-19 on RMNH



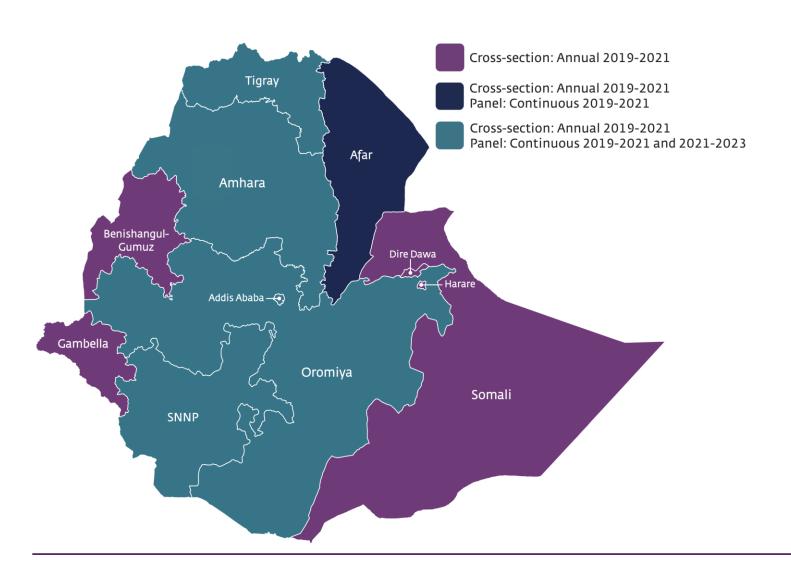
What is PMA Ethiopia?

PMA Ethiopia is a five-year project implemented in collaboration with Addis Ababa University, Johns Hopkins University, and the Federal Ministry of Health.

- Nationally representative survey measuring key reproductive, maternal and newborn health (RMNH) indicators including:
 - Antenatal, delivery, and postnatal care
 - Vaccination attitudes and coverage
 - Modern contraceptive prevalence
 - Reproductive empowerment, fertility intention, and community norms
 - Health facility readiness and quality of care



PMA Ethiopia: Survey Design



- Cross-sectional survey of women age 15-49
- Panel survey that follows pregnant women from pregnancy through first year postpartum, covering 91% of population. It also includes women <6 weeks postpartum women
- Annual health facility survey (SDP)
- PMA Ethiopia included 265 enumeration areas (EA)



PMA ET Data Collection During the COVID-19 Pandemic



COVID-19 related restrictions were put in place in April,2020

Data collection was paused from April-June 2020 to update survey protocols, procure personal protection equipment for staff and make additional adjustments, as required by the Ethics Review Boards.

- During this pause PMAET also updated surveys to include COVID/FP content, covering:
 - o COVID-19 awareness
 - Personal risk assessment
 - Mitigation behaviors
 - Socio-economic impacts
 - o Impact on RMNH health service access and use
- As a result, we can compare responses between cohorts of women who delivered pre/post COVID-19



Panel Survey: Response Rates

Data collection: October 2019- Ongoing through 2021

32,614 househ comple 32,792 women 2,855 completed 6 week surve baseline 2668 Total women age 15-49 households - 2,238 pregnant completed survey completed completed women screening census -191 incomplete - 617 enrolled as postpartum



Overall Response Rates	Number (n)	Response Rate
Not complete	191	6.7%
Complete	2668	93.6%
Total	2859	100%

Sample of women completing six-week interview, by region				
Region	(n)	Percent	(n)	Percent
	(Unweighted)		(Weighted)	
Tigray	449	16.8	188	7.0
Afar	222	8.3	50	1.9
Amhara	459	17.2	546	20.5
Oromia	668	25.0	1179	44.2
SNNP	622	23.3	608	22.8
Addis	248	9.3	98	3.7
Total	2,668	100	2,668	100



Timing of Interview	(n)	Percent
Pre-COVID(October 2019-February 2020	1684	63.1
During COVID (March 2020)	984	36.9
Total	2668	100

Delivery Timing		Rural	ι	Jrban		Total
	(n)	(Percent)	(n)	(Percent)	(n)	(Percent)
Delivered before March 2020	1152	69.2	743	74.0	1895	71.0
Delivered March 2020 or later	512	30.8	261	26.0	773	29
Total	1664	100	1004	100	2668	100



Pregnancy Outcome

	(n)	%
No response	9	0.3
Live birth	2523	94.6
Still birth	37	1.4
Miscarriage (spontaneous)	96	3.6
Abortion	3	0.1
Total	2668	100



Key findings from the PMA 6-week postpartum panel survey



Key findings: Antenatal Care

- The proportion of women who received the recommended ANC visit (4+) is low.
 - Only four out of ten had 4+ visits.
- Regional disparities were observed in the proportion of pregnant women who received ANC at any point during their pregnancy.
- Quality and comprehensive ANC counseling is lacking.
 - Only two thirds were counselled on place of delivery and skilled birth attendant while only one in five were counselled on postpartum family planning.



Key findings: Delivery and Postnatal Care

- While more than four out of ten women delivered at their/other home, the majority (55%) delivered in health facilities. There are significant disparities between urban and rural women
- Quality of immediate postpartum care is low
 - One in three women who delivered in a health facility reported that their health was not checked prior to discharge
 - Three in four women who delivered in a facility reported they did not receive any PPFP counseling
- Postnatal care for mother and newborn remains low, with 2/3 of women not reporting postnatal care by 6-weeks



Key findings: Neonatal Health

- Nearly half of live births in the study did not get appropriate thermal care
 - **Five out of ten** babies did not have skin to skin contact after birth.
 - Four out of ten women bathed their newborns within 24 hours of birth.
- Immediate initiation and exclusive breastfeeding are practiced in most live births
 - **Eight out of ten** women breastfed their babies within an hour of birth.
 - Seven out of ten women were exclusively breastfeeding at 6 weeks.
- Only a third of live births in a health facility got appropriate eye care



Key findings: Post Partum Family Planning

- PPFP use is low and dominated by short-acting methods, primarily injectables
- PPFP is higher among urban women compared to rural areas
- Overwhelming majority of women did not feel pressured by provider to use a contraceptive method immediately postpartum



Key findings: Impact of Covid-19 on RMNH

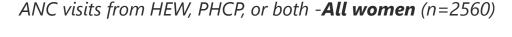
- The early impact of COVID-19 is highest in urban areas
 - Urban women who delivered during the COVID-19 pandemic were significantly less likely to deliver in hospitals, while there were no significant shifts in rural areas
 - Intimate partner violence (IPV) during pregnancy increased overall and specifically in urban areas during the COVID-19 pandemic. Sexual violence and IPV in rural areas remain high at both timepoints
- Overall, there appear to be minimal impacts on health-seeking in the postpartum period. Among women who do report impacts, fear of spreading the virus is the reason most reported for why services were not sought

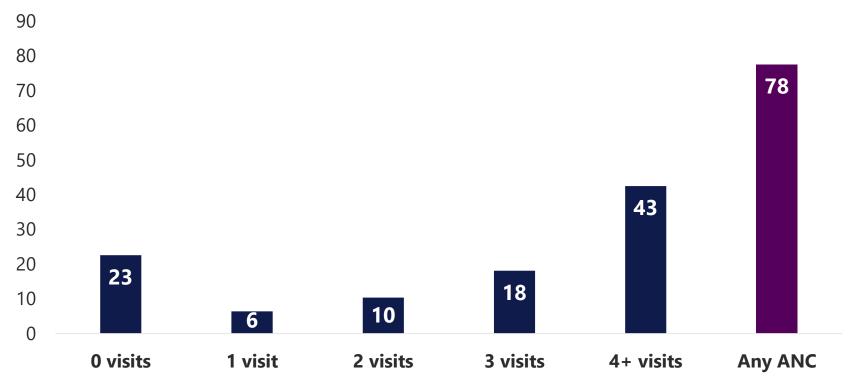


Summary Survey Results



Receipt of ANC from any provider



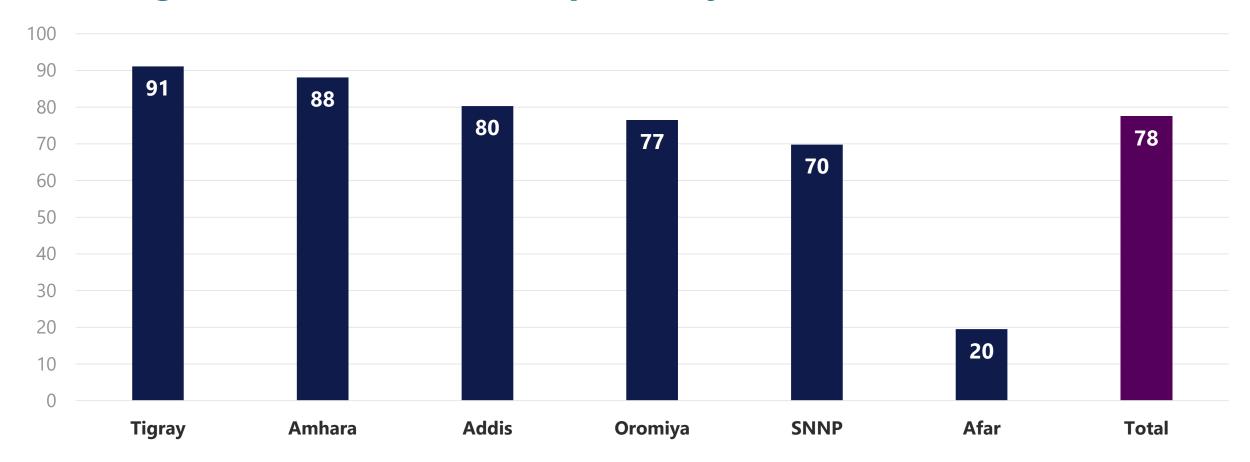


*PHCP - Professional Health Care Provider = Professional health care provider other than HEW (e.g. nurse, midwife, doctor etc.)

- More than three –
 fourths of all
 pregnant women
 had any ANC visits to
 any provider during
 the current
 pregnancy.
- 4 in 10 women had 4 or more visits to any provider



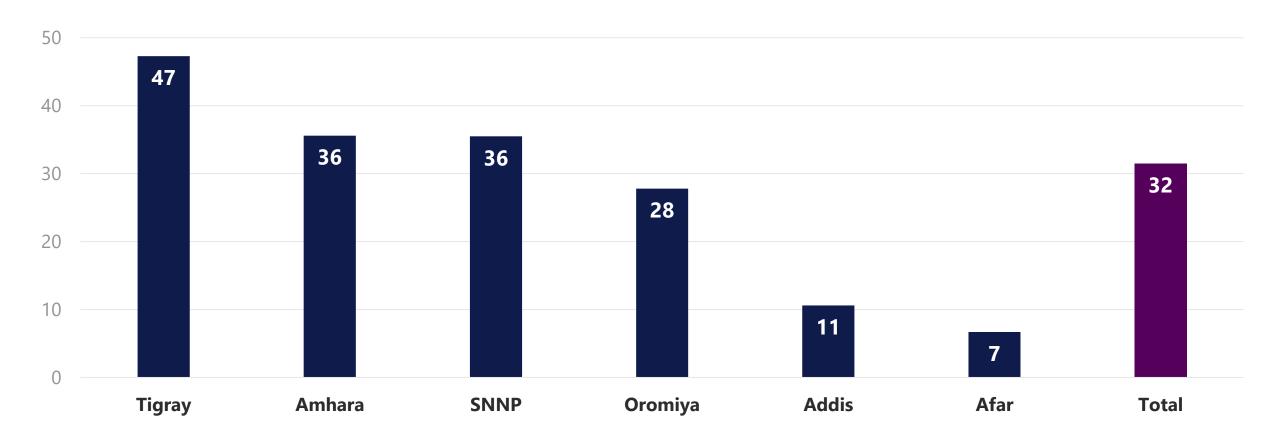
Regional variation in receipt of any ANC (n=2,560)



Regional disparities are observed in the proportion of pregnant women who received any ANC during their pregnancy with **highest being in Tigray** (91%) and **lowest in Afar** (20%)



Regional variation in provision of ANC from HEWs (n=2,560)



There is regional variation in the proportion of pregnant women who have seen a HEW for ANC at any point during their pregnancy - **highest being in Tigray** (47%) and **lowest in Afar** (7%)



ANC Components among all women

All women* (n=2,560)



As part of your antenatal care:

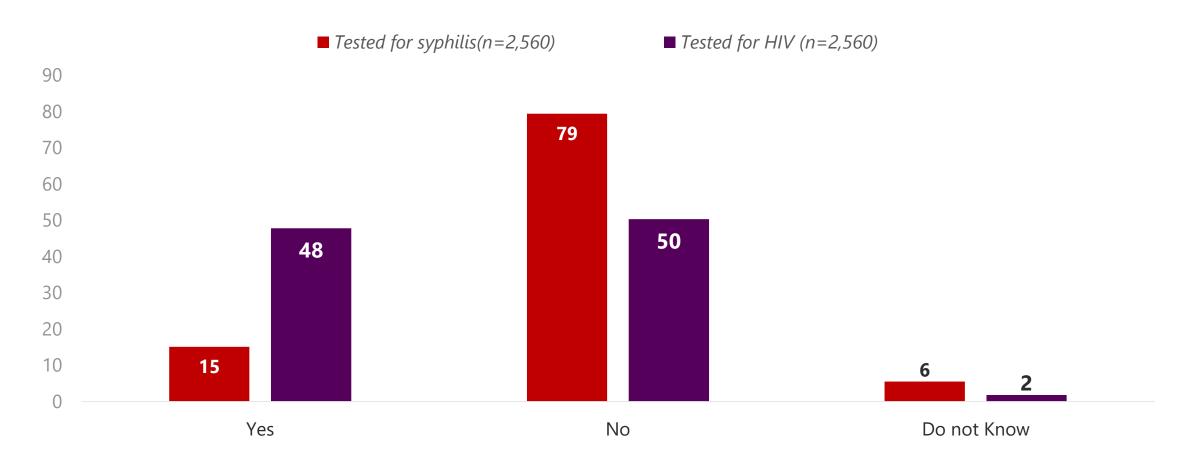
- Was your blood pressure measured?
- Was your weight taken?
- Did you give a urine sample that was not for a pregnancy test?
- Did you give a blood sample?
- Did you give a stool sample?
- More than 6 in 10
 pregnant women had their

 BP measured and weight
 taken during pregnancy
- Less than a quarter (23%) gave a stool sample



^{*} This reflects ANC care among all enrolled women and not just those who received any ANC during pregnancy

ANC Components

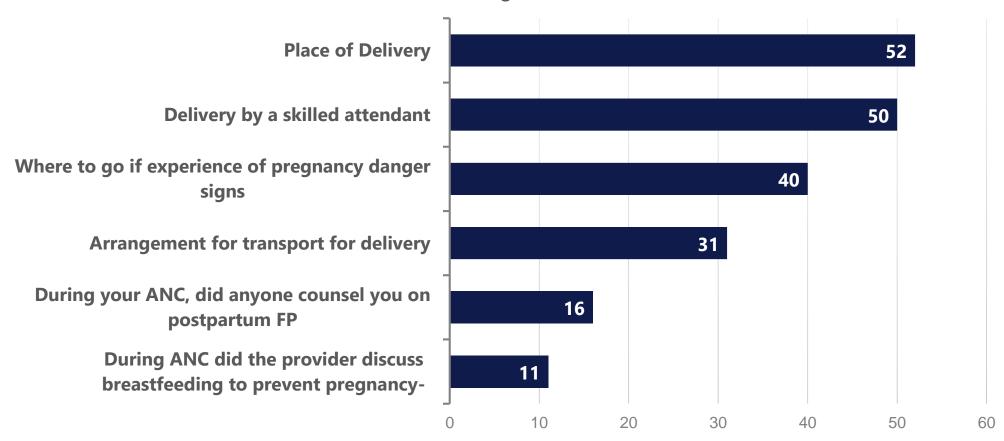


Less than one in five of all pregnant women were tested for Syphilis during the current pregnancy; on the other hand **close to half** were tested for HIV



ANC and PPFP Counselling

ANC and PPFP Counselling-**All Women** (n=2,560)

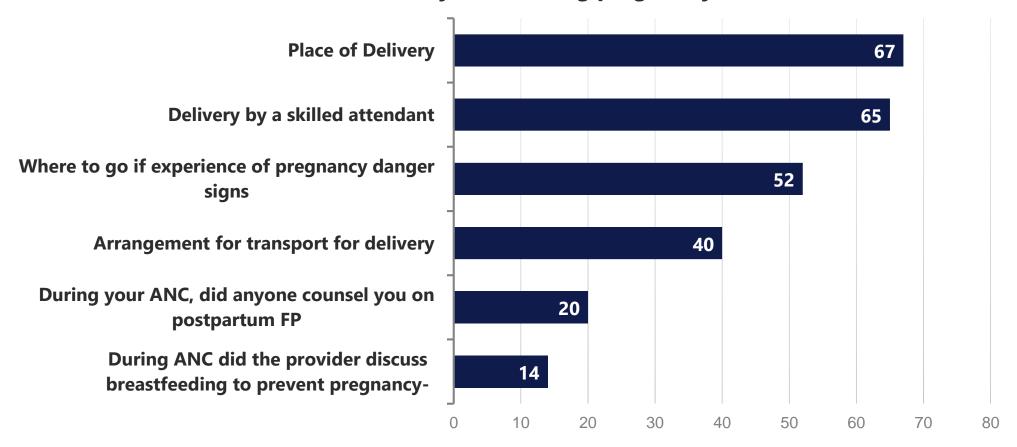


Postpartum family planning counselling among all pregnant women is generally low.



ANC and PPFP Counselling

Women who received any ANC during pregnancy (n=1,954)

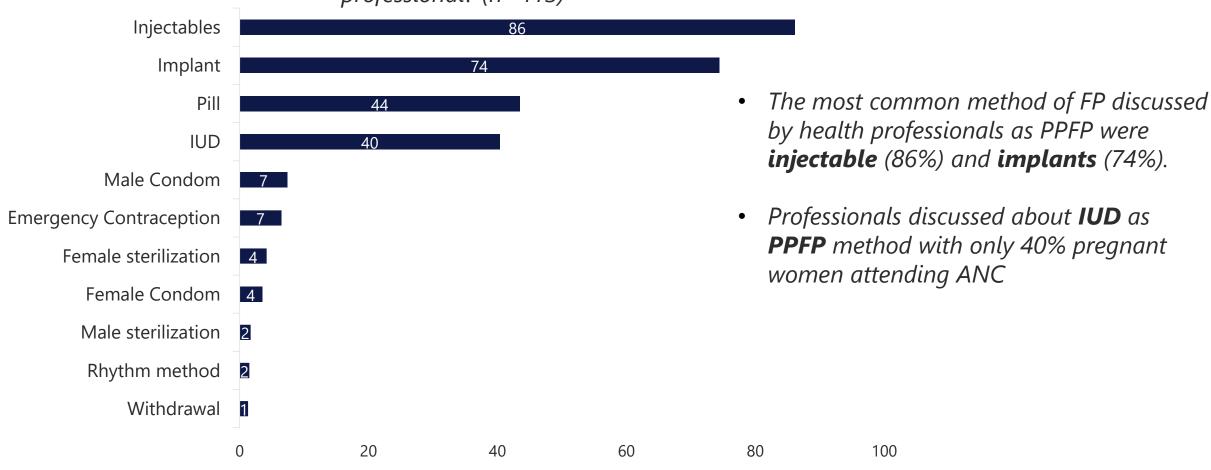


Postpartum family planning counselling among women who received any ANC care still low



PPFP counseling during ANC

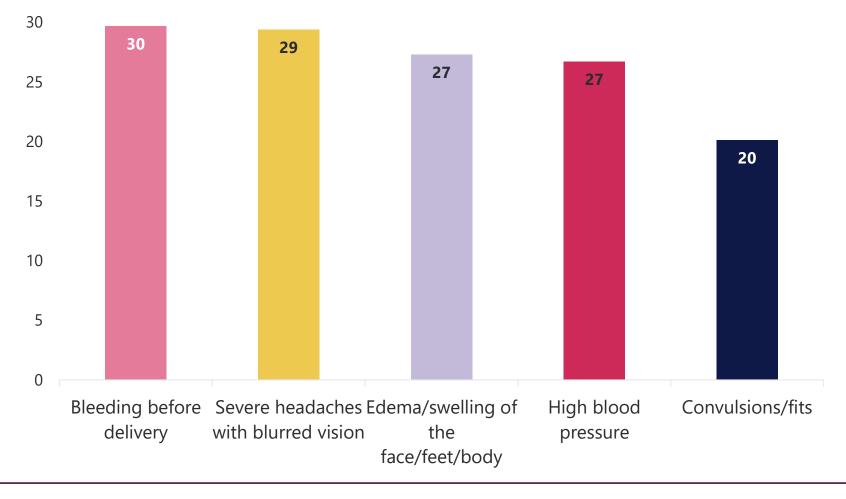
Which family planning method or methods did you discuss with the professional? (n=413)





ANC counselling on danger signs during pregnancy



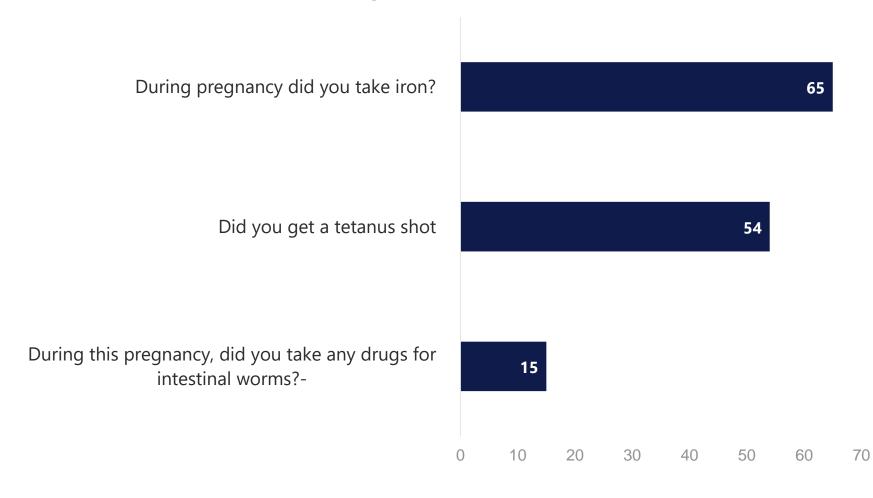


- Less than a third of all pregnant women were counselled on any one of the danger signs during the current pregnancy.
- Only one in five were told that Convulsions/fits as a danger sign of pregnancy



ANC Components

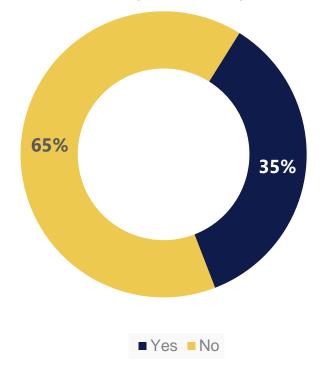
Among All Women (n=2,560)



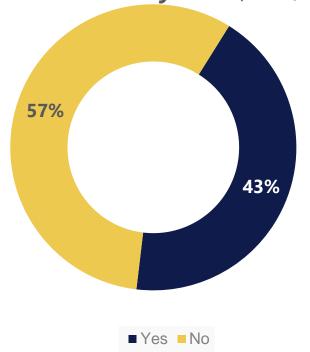


ANC - Nutrition counseling

Did a HEW/provider talk to you about diet during ANC?- **All women** (n = 2,560)



Did a HEW/provider talk to you about diet during ANC- **Women who received any ANC** (n = 1,954)



Only one third (35%) of pregnant women were told about diet by any provider during ANC in the current pregnancy

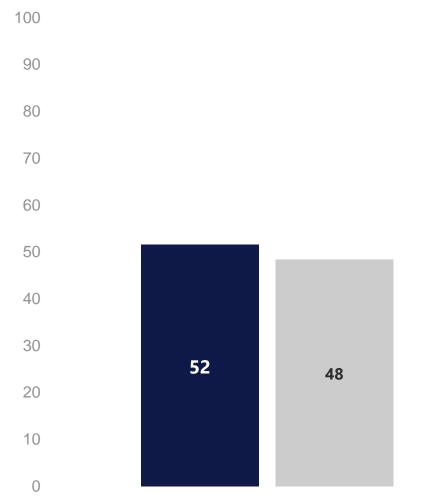


Reported Complications During Pregnancy

Yes

No

Did you experience any pregnancy complications?-**All women** (n=2560)

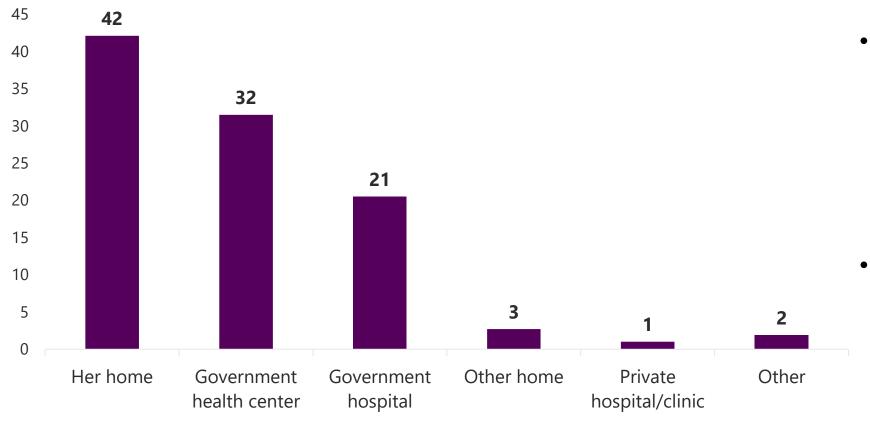


More than half (52%) of all the pregnant women reported experiencing some form of pregnancy complications

Complications included: Severe headache with blurred vision, high blood pressure, edema face/feet/body, convulsion/fits, vaginal bleeding before delivery, high fever, abnormal vaginal discharge (foul smelling/dark), lower abdominal pain, worsening vision, particularly at night



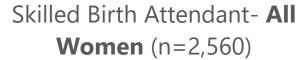
Place of delivery

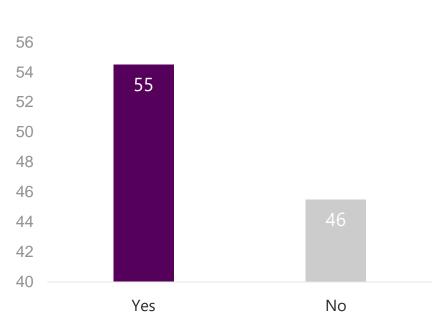


- While more than four out of ten women delivered at their/other home, the majority (55%) delivered in health facilities
- Commonly used facilities for delivery were a health center (32%) followed by government hospital (21%)

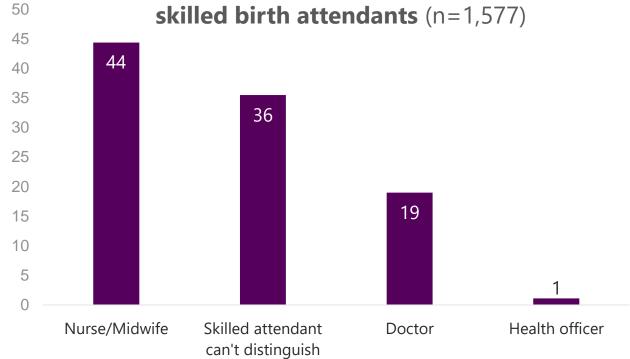


Delivery with a skilled birth attendant









More than half (55%) of the deliveries were assisted by a skilled birth attendant

Of the total skilled birth attendants, close to half (44%) were assisted by nurses/midwives



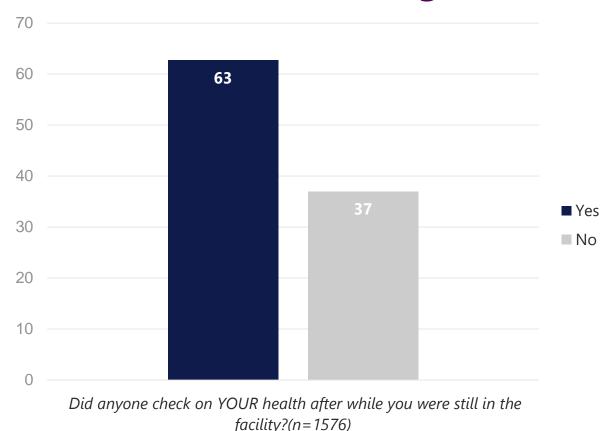
Caesarean deliveries among women with facility deliveries



One in ten women who delivered at a health facility had a Cesarean delivery

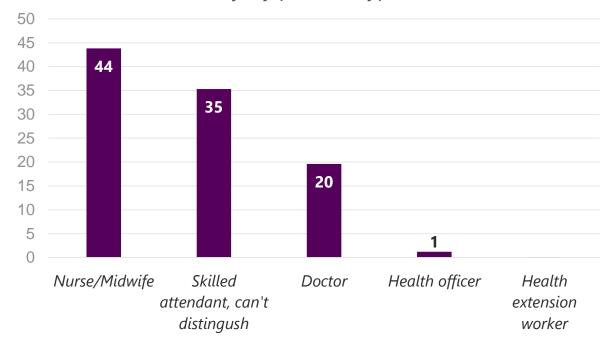


Immediate PNC among women who delivered at health facilities



Two in three women who delivered in a health facility reported that a health worker checked on them while in the facility

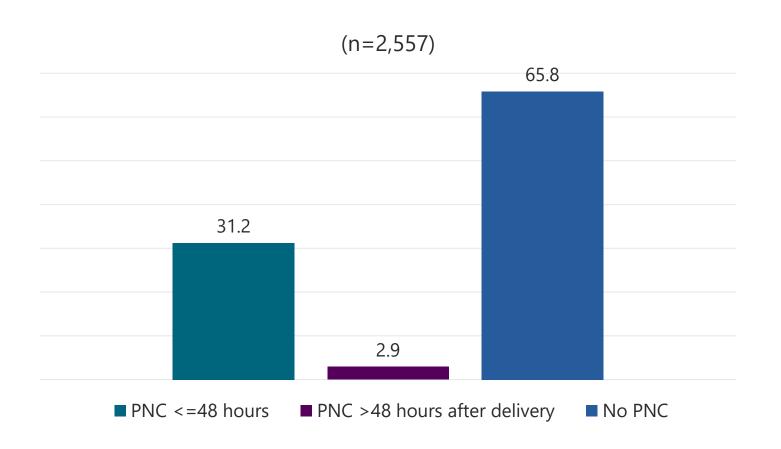
Who checked on your health? - Women with facility deliveries who had someone check on their health in the facility, by provider type (n=1,032)



Majority of checks after facility delivery were done by Nurse/Midwife(44%)



Timing of Postnatal Care



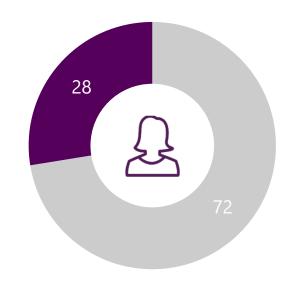
Three in Ten women received PNC within 48 hours, while the majority (66%) did not receive PNC



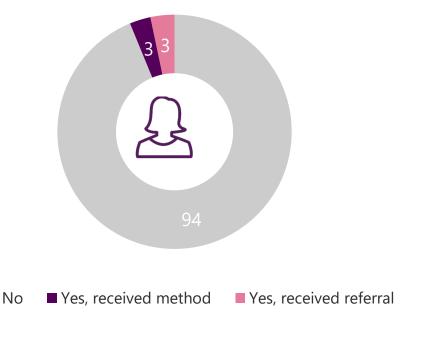
Immediate PPFP among women who delivered at health facilities

After delivery, did a provider talk with you about using a FP method (n=1,032)

After delivery, did you receive a method of FP or a referral for a method?((n=1576)



■ No ■ Yes

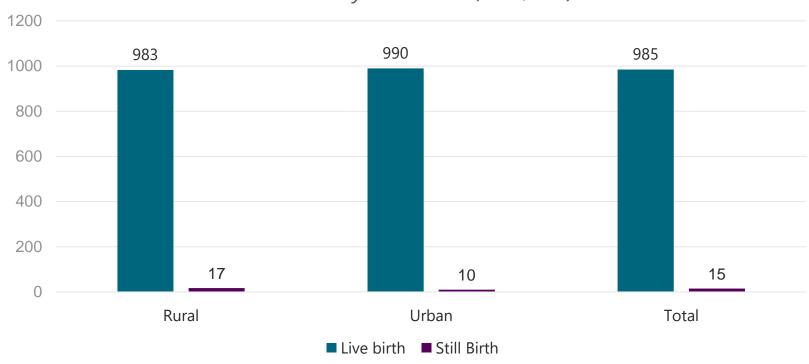


Only 3% of women who delivered at a health facility received a family planning method before leaving the facility while another 3% got referral for a method



Birth Outcome – live and stillbirths

What was the outcome of this pregnancy for the baby born?all births by residence (n=2,608)

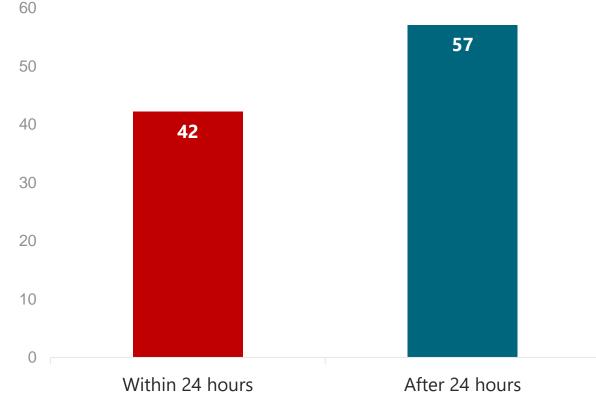


In total, 40 births were stillbirths, equating to a still birth rate of 15 per 1000 live births.



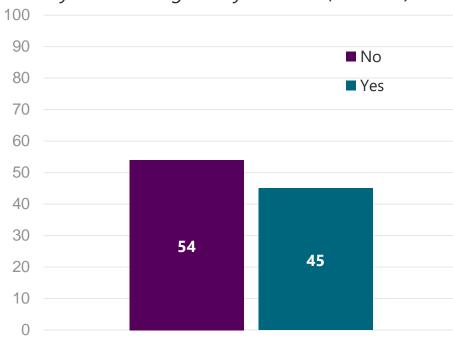
Essential newborn care – thermal care

When was the child given a bath for the first time? (n=2,568)



Six out of ten women delayed bathing of their newborns for 24 hours

Did someone place the baby naked on your chest against your skin?(n=2565)

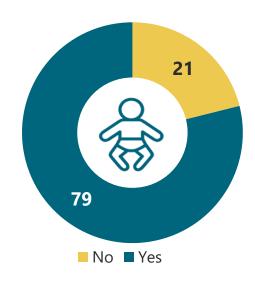


Skin to skin contact of mother and baby was reported in close to half of all live births



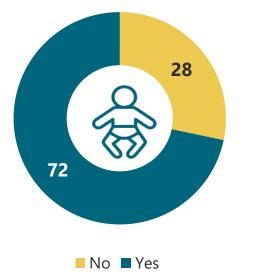
Infant Breastfeeding

Breastfed within an hour-live births (n=2,568)



Eight out of ten women **breastfed** their babies **within an hour of birth**

Was the child exclusively breastfed in the last 24 hrs.-Children still living (n=2493)



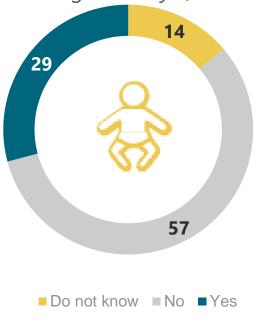
Nearly 3 out of 4 infants were exclusively breastfeed in the last 24 hours by the 6-week interview

Due to COVID-19, 825 women were interviewed 9 weeks or more postpartum. To calculate the proportion of women who breastfed by approximately 6-weeks, women that were 9 or more weeks postpartum at the time of the interview were excluded.



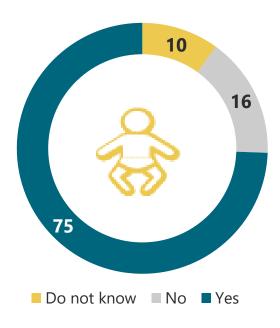
Essential newborn care – eye care and birth weight

Did the baby receive eye ointment following delivery?(n=1585)



Only **1 of 3 babies** delivered in a health facility got appropriate eye care

Was the baby weighed at birth? (n=1612)

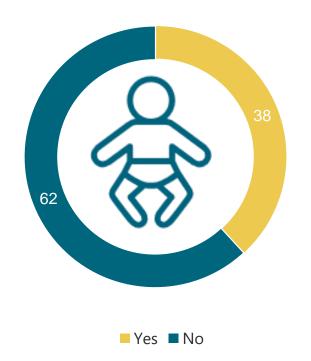


One out of four mothers who delivered at a health facility reported that birth weight was not measured or were not sure if baby was weighed



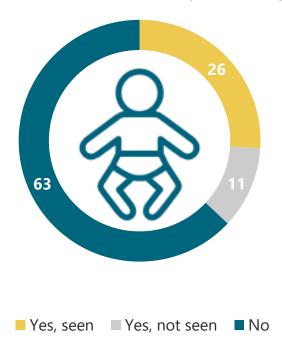
Reported BCG vaccination coverage at 6-Week postpartum

Has the child ever received a BCG vaccination? (n=2,493)



Vaccination card ownership at 6-week postpartum

Do you have a card where NAME's vaccinations are written down? (n=2,493)

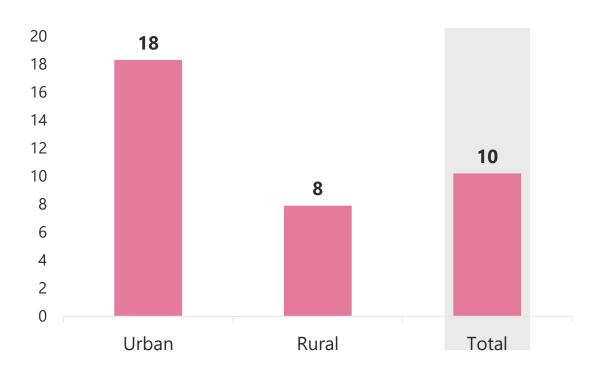


Close to **four out of ten** (38%) of children **received BCG vaccination** with a quarter being able to show their vaccination cards

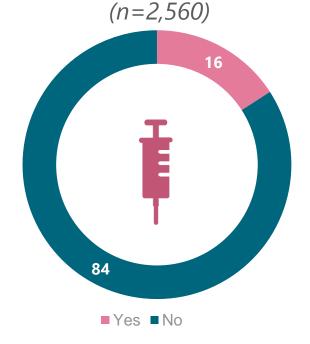


Postpartum Family Planning

Are you currently using a method of family planning? **All women excluding >9 weeks postpartum** (n=1,774)



Percentage of women using a modern method- **All women**

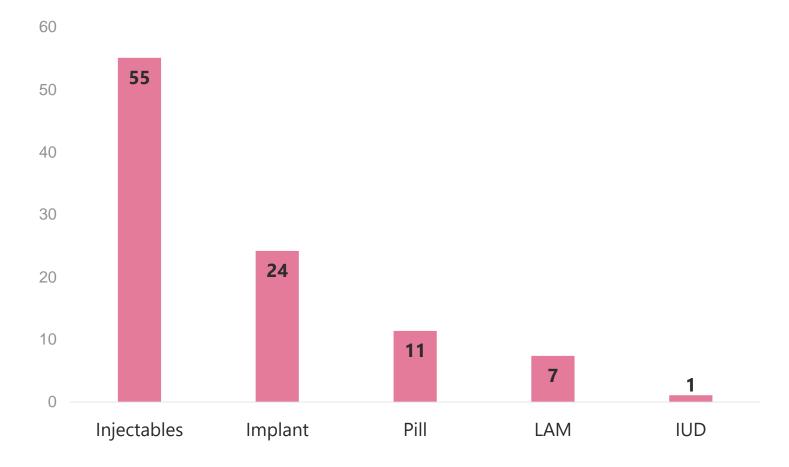


Urban women are much more likely to use family planning (18%) at 6-weeks postpartum compared to rural women (8%)



Postpartum family planning

Which method or methods are you using? (n=489)

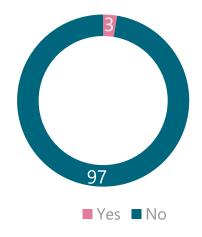


by implant are the most used methods; contributing to more than 75% of the method mix among recently postpartum women



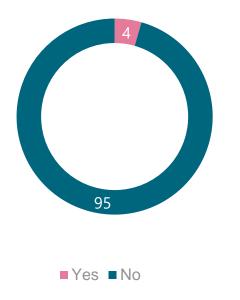
Postpartum Family Planning

During your postpartum care, did your provider pressure you to use a specific method?-**Women who saw a HEW or PHCP after delivery** (n=913)



Less than five percent of women who saw a HEW/other health workers after delivery or who are currently using family planning method reported feeling pressured by their provider to use a specific method

During your postpartum care, did you feel pressured to use a method? **Women who are currently using a method of FP** (n=256)

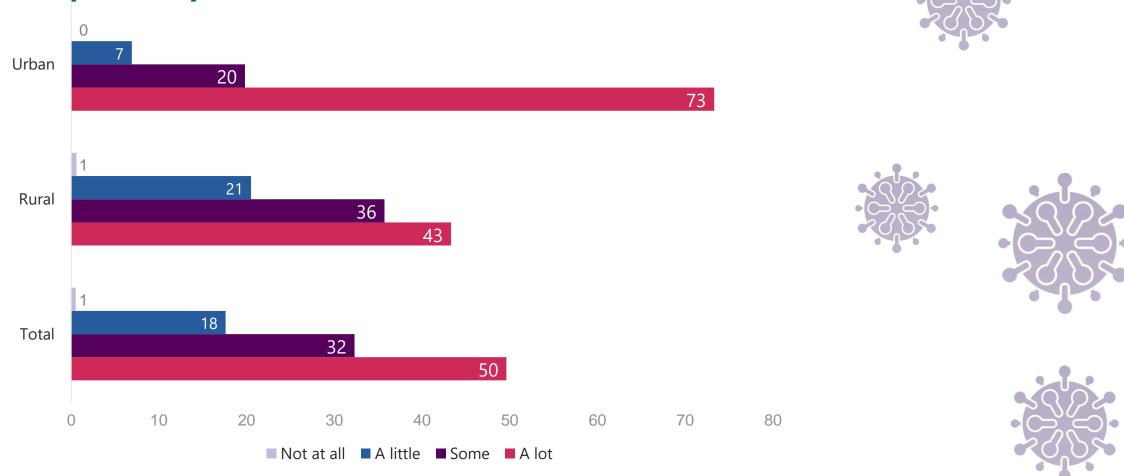








Knowledge of COVID-19 by residence- Women interviewed during COVID (n=914)

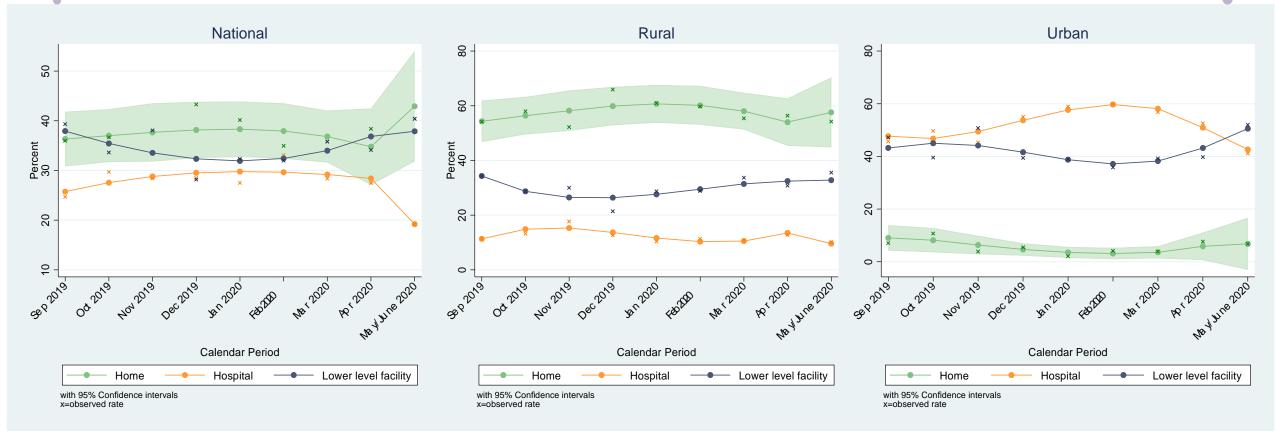


Almost all women had heard or read about the recent COVID-19 outbreak. Note, these interviews were conducted from July 2020 to June 2020





Impact of COVID-19 on health facility delivery thru June 2020



• **Urban women** who delivered during COVID were significantly **less likely to deliver in hospitals**, while there were no significant shifts in **rural areas**



Table 2: Adjusted odds ratio of delivering in a hospital relative to another health facility among urban women

	Adjusted			
	OR			
Delivery timing (ref: pre-COVID)				
COVID	0.59**			
Age (ref: 15-19)				
20-29	1.68			
30+	3.21**			
Parity (ref: 0)				
1-2	0.57**			
3+	0.53*			
Wealth (ref: lowest 40%)				
Highest 60%	2.12***			
Education (ref: none)				
Primary	1.82*			
Secondary +	2.73***			

- Urban women who gave birth during COVID-19 were significantly less likely to deliver in a hospital relative to women who delivered prior to COVID-19
- Women age 15-19 less likely to deliver in a hospital
- Wealthy women more likely to deliver in a hospital
- Educated women more likely to deliver in a hospital

Results - Urban

^{*} p<.10
** p<.05
*** p<.01

Table 3: Adjusted relative risk ratio of delivering in a health center/health post or hospital relative to home delivery among women in rural areas

	Other HC	Hospital	
	RRR	RRR	
Delivery timing (ref: pre-COVID)			
COVID	1.1	0.95	
Age (ref: 15-19)			
20-29	1.22	2.33**	
30+	1.96*	3.27**	
Parity (ref: 0)			
1-2	0.48***	0.21***	
3+	0.25***	0.13***	
Wealth (ref: lowest 40%)			
Highest 60%	1.80***	2.15***	
Education (ref: none)			
Primary	1.2	1.46*	
Secondary +	2.67***	2.59***	

Results - Rural

- Rural women who gave birth during COVID-19 were no less likely to delivery in a health center or hospital than women who gave birth prior to COVID-19
- Nulliparous women more likely to deliver in a health facility
- Wealthy women more likely to deliver in a health facility



^{*} p<.10
** p<.05
*** p<.01

Table 4: Bivariate association of select characteristics and reporting that place of delivery was affected by COVID-19

OOVID 13		
	%	F-statistic
Total	11.0	
Month of delivery		
April	6.6	
May/June	12.6	p=0.09
Residence		
Rural	8.8	
Urban	21.3	p=0.01
Age		
15-19	6.9	
20-29	12.2	p=0.57
30+	10.6	
Parity		
0	12.7	
1-2	12.7	
3+	8.7	p=0.57
Wealth		
Lowest 40%	6.7	
Highest 60%	14.4	p=0.04
Education		
None	7.3	
Primary	10.9	
Secondary +	19.9	p=.07

- Among women who gave birth during COVID-19 (n=371), significantly higher percentage of urban women said COVID-19 affected where they delivered
- Among all women who said COVID-19 affected where they delivered (n=49):
 - 72% said they were afraid of getting or spreading COVID-19
 - 42% were afraid they would be alone during delivery
 - 36% said there was no transportation



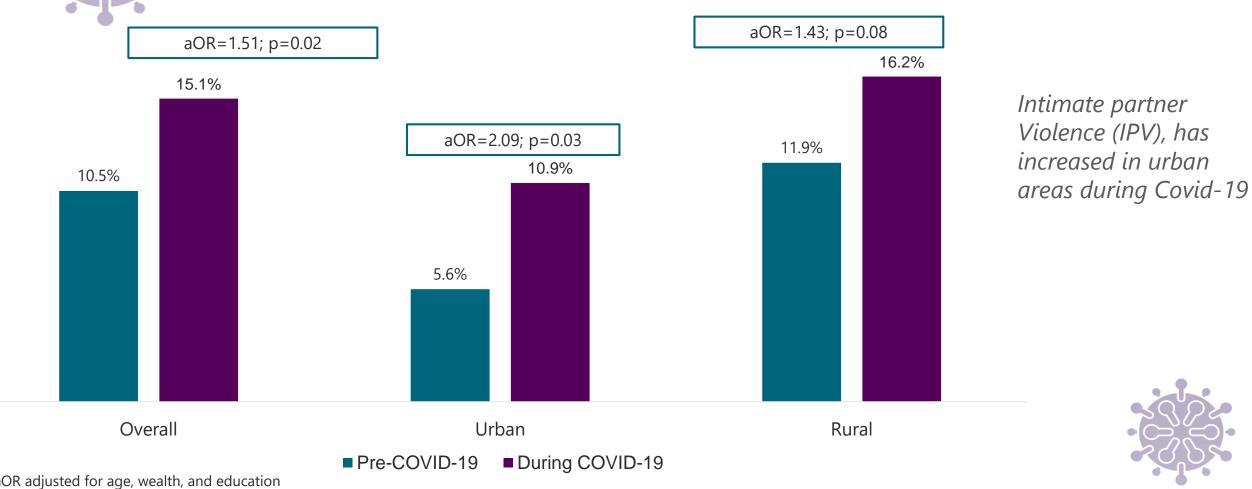


Results

^{*} p<.10 ** p<.05 *** p<.01

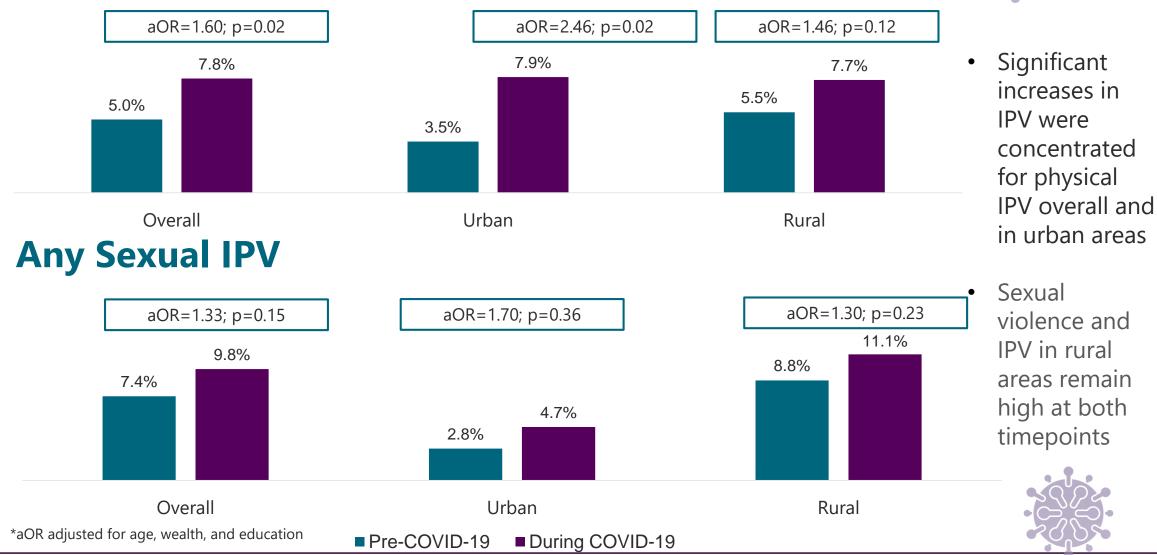


Any Experience of IPV During Pregnancy



Any Physical IPV









Thank you!







@pm4action



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