



Nigeria Health, Population, and Nutrition Multi-Activity Evaluation: Baseline Health Facility Assessment Results Tables

Data for Impact (D4I) is conducting a prospective mixed-methods portfolio evaluation of four USAID/Nigeria Health, Population, and Nutrition (HPN) activities, with a focus on comparing an integrated health programming approach with a disease-focused approach (malaria). The evaluation is being implemented in three case study states (Figure 1).

Figure 1. Intervention components by evaluation case study state

Intervention Models	State	Activity	Start date	End date
<ul style="list-style-type: none"> Integrated approach: The Integrated Health Project (IHP) implements a fully integrated set of reproductive, maternal, newborn, and child health plus nutrition and malaria (RMNCH+NM) and health system strengthening interventions. Disease-focused approach: The President’s Malaria Initiative for States (PMI-S) focuses on malaria health programming and health system strengthening. Both models include demand creation (led by Breakthrough ACTION-Nigeria [BA-N]) and commodity procurement and distribution (led by Global Health Supply Chain Program-Procurement and Supply Management [GHSC-PSM]) interventions. 	Ebonyi	IHP	April 2020	December 2024
		PMI-S	January 2020	January 2025
	Kebbi	IHP	April 2019	March 2024
	Zamfara	PMI-S	August 2020	June 2025
	D4I Nigeria HPN Evaluation			October 2020

For all states: BA-N September 2017–September 2026; GHSC-PSM July 2016–November 2023.

This document presents state-level tabulations of the complete HFA baseline results. Facility service delivery outcomes were assessed using service availability and readiness tracer and summary index indicators defined per World Health Organization (WHO) Harmonized Health Facility Assessment (HHFA) guidelines (WHO, 2022).

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Abbreviations

ACT	Artemisinin-based combination therapy
ANC	Antenatal care
ANOVA	analysis of variance
BA-N	Breakthrough ACTION-Nigeria
BFSR	Bi-monthly facility stock report
CHC	community health center
CHEW	community health extension worker
D4I	Data for Impact
FP	family planning
GHSC-PSM	Global Health Supply Chain Program-Procurement and Supply Management
HHFA	Harmonized Health Facility Assessment
HMIS	health management information system
HPN	Health, Population, and Nutrition
ICC	inventory control card
IPTp	intermittent preventative treatment of malaria in pregnancy
ITN	insecticide-treated net
IUCD	intrauterine contraceptive device
JCHEW	junior community health extension worker
LGA	local government area
M&E	monitoring and evaluation
MCLS	Malaria Commodities Logistics System
MIP	malaria in pregnancy
NGO	non-governmental organization
NHIS	national health insurance scheme
NHLMIS	Nigeria health logistics management information system
NHMIS	national health management information system
PHC	primary health center
PPE	personal protective equipment
RDT	rapid diagnostic testing
RIRF	requisition, issue, and receipt form
RMNCAH	reproductive, maternal, newborn, child, and adolescent health
SP	sulphadoxine-pyrimethamine
WHO	World Health Organization

Table 1. Facility characteristics, by state

	Ebonyi			Kebbi			Zamfara			<i>X² test</i>
	n	N	%	n	N	%	n	N	%	<i>p-value</i>
Health Facility Type										0.002
Primary health center (PHC)	120	120	100.0	106	120	88.3	103	120	85.8	
Health post or dispensary	0	120	0.0	7	120	5.8	13	120	10.8	
Community health center (CHC)	0	120	0.0	5	120	4.2	3	120	2.5	
Maternity home	0	120	0.0	2	120	1.7	1	120	0.8	
Facility Location										0.044
Rural	92	120	76.7	102	120	85.0	106	120	88.3	
Urban	28	120	23.3	18	120	15.0	14	120	11.7	
Managing Authority										0.447
Government	117	120	97.5	118	120	99.2	119	120	99.2	
Other *	3	120	2.5	1	120	0.8	1	120	0.8	
Facility has specified catchment area map	117	119	98.3	117	119	98.3	118	120	98.3	1.000
Number of people living in the facility catchment area	8,859.6 (5,277.3) (N = 119; 6 facilities don't know)			15,683.0 (38,192.9) (N = 119; 5 facilities don't know)			19,827.7 (75,875.5) (N = 120; 8 facilities don't know)			0.239

Notes: Mean and standard deviation presented for continuous variables, with Wald test for statistical significance for categorical variables and one-way analysis of variance (ANOVA) for means.

*Other managing authority types for Ebonyi include faith-based private for-profit (n=1), faith-based private not-for-profit (n=1), and other (n=1); Kebbi includes one Ward Development Committee, and Zamfara includes one Nigerian police force.

Table 2. Facility conditions and amenities, by state

	Ebonyi			Kebbi			Zamfara			<i>X² test</i>
	n	N	%	n	N	%	n	N	%	<i>p-value</i>
Building & Security Conditions										
Facility in good condition (general admissions area with no serious defect) *	49	120	40.8	37	120	30.8	8	120	6.7	0.000
Facility Amenities										
Basic Amenities										
Power	95	120	79.2	85	120	70.8	66	120	55.0	0.000
An improved water source	86	120	71.7	87	120	72.5	93	120	77.5	0.538
Access to improved sanitation facilities for clients	74	120	61.7	93	120	77.5	92	120	76.7	0.009
Communications system	15	120	12.5	17	120	14.2	96	120	80.0	0.000
Computer with internet	0	120	0.0	0	120	0.0	2	120	1.7	0.134
Facility has all basic amenities	0	120	0.0	0	120	0.0	1	120	0.8	0.367
Mean percentage of basic amenities at facilities*	45.0 (16.9)			47.0 (20.5)			58.2 (20.2)			0.000
Water & Sanitation										
Basic water service	86	120	71.7	87	120	72.5	93	120	77.5	0.538
Basic sanitation service	27	120	22.5	68	120	56.7	82	120	68.3	0.000
Basic hygiene service	25	120	20.8	25	120	20.8	24	120	20.0	0.983
Basic health care waste service	101	120	84.2	109	120	90.8	97	120	80.8	0.084
Basic environmental cleaning service	62	120	51.7	47	120	39.2	64	120	53.3	0.056

Notes: Mean and standard deviation presented for continuous variables, with Wald test for statistical significance for categorical variables and one-way ANOVA for means.

* 6.7% Ebonyi, 16.8% Kebbi, and 35.0% Zamfara facilities require significant renovation ($p=0.000$).

Table 3. Health workforce, by state

	Ebonyi			Kebbi			Zamfara			<i>X² test</i>
	n	N	%	n	N	%	n	N	%	<i>p-value</i>
Health Workforce - Total Numbers										
Current occupational category/qualification										0.000
Professional	182	527	34.5	158	999	15.8	85	805	10.6	
Medical doctor	5	527	0.9	49	999	4.9	21	805	2.6	
Specialist/consultant	0	527	0.0	3	999	0.3	5	805	0.6	
Youth Corp doctor	2	527	0.4	10	999	1.0	1	805	0.1	
Registered nurse	86	527	16.3	4	999	0.4	4	805	0.5	
Registered midwife	33	527	6.3	26	999	2.6	34	805	4.2	
Registered nurse midwife	47	527	8.9	9	999	0.9	2	805	0.2	
Pharmacist	2	527	0.4	15	999	1.5	11	805	1.4	
Laboratory scientists	7	527	1.3	42	999	4.2	7	805	0.9	
Non-Professionals	345	527	65.5	841	999	84.2	720	805	89.4	
Community nurse	2	527	0.4	30	999	3.0	18	805	2.2	
Community health officer	17	527	3.2	33	999	3.3	26	805	3.2	
CHEW	226	527	42.9	296	999	29.6	258	805	32.0	
JCHEW	76	527	14.4	169	999	16.9	83	805	10.3	
Environmental health officer/associate	16	527	3.0	156	999	15.6	147	805	18.3	
Pharmacy technician	1	527	0.2	29	999	2.9	26	805	3.2	
Pharmacy assistant	3	527	0.6	6	999	0.6	8	805	1.0	
Laboratory technician	4	527	0.8	109	999	10.9	134	805	16.6	
Laboratory assistant	0	527	0.0	13	999	1.3	20	805	2.5	
Provider Status										0.012
Assigned	447	527	84.8	759	999	76.0	727	805	90.3	
Seconded	80	527	15.2	240	999	24.0	78	805	9.7	

	Ebonyi			Kebbi			Zamfara			<i>X² test</i>
	n	N	%	n	N	%	n	N	%	<i>p-value</i>
Health Workforce - Percentage of Facilities with 0, 1, or 2+ Providers										
Current occupational category/qualification										
Professionals										
0	42	120	35.0	43	100	43.0	88	120	73.3	0.000
1	12	120	10.0	21	100	21.0	13	120	10.8	0.033
2+	66	120	55.0	36	100	36.0	19	120	15.8	0.000
Non-Professionals										
0	1	120	0.8	0	119	0.0	0	120	0.0	0.368
1	22	120	18.3	4	119	3.4	5	120	4.2	0.000
2+	97	120	80.8	115	119	96.6	115	120	95.8	0.000
Provider Status										
Seconded										
0	92	120	76.7	80	119	67.2	87	120	72.5	0.264
1	10	120	8.3	8	119	6.7	16	120	13.3	0.190
2+	18	120	15.0	31	119	26.1	17	120	14.2	0.030

Notes: Wald test for statistical significance. Health workforce data is adjusted to exclude outlier data from 8 health facilities (1 in Ebonyi, 6 in Kebbi, 1 in Zamfara); Kebbi categorical health workforce data is missing 20 observations for Professional roles.

Table 4. General service availability, by state

	Ebonyi			Kebbi			Zamfara			<i>X² test</i>
	n	N	%	n	N	%	n	N	%	<i>p-value</i>
Services Available										
Facility offers any outpatient services	120	120	100.0	120	120	100.0	120	120	100.0	0.000
Facility offers any inpatient services	115	120	95.8	59	120	49.2	60	120	50.0	0.000
Services offered 24 hours/day	116	120	96.7	74	117	63.3	66	120	55.0	0.000
Facility offers specific service(s)										
Facility offers malaria diagnosis and treatment	120	120	100.0	117	120	97.5	119	120	99.2	0.170
Facility offers antenatal care (ANC)	119	120	99.2	115	120	95.8	97	120	80.8	0.000
Facility offers intermittent preventative treatment of malaria (IPT)	119	120	99.2	118	120	98.3	105	120	87.5	0.000
Facility offers family planning	118	120	98.3	114	120	95.0	99	120	82.5	0.000
Equipment & Procedures available										
Laboratory diagnostic tests										
Facility offers general microscopy	4	120	3.3	10	120	8.3	8	120	6.7	0.258
Facility offers malaria diagnostic capacity	120	120	100.0	119	120	99.2	120	120	100.0	0.367
Facility offers urine pregnancy test	78	120	65.0	98	120	81.7	67	120	55.8	0.000
Facility offers urine dipstick-protein	40	120	33.3	65	120	54.2	32	120	26.7	0.000
Facility offers urine dipstick-glucose	34	120	28.3	53	120	44.2	32	120	26.7	0.006
Facility offers urine ketone test	40	120	33.3	65	120	54.2	32	120	26.7	0.000

Notes: Wald test for statistical significance.

Table 5. General service readiness, by state

	Ebonyi			Kebbi			Zamfara			<i>X² test</i>
	n	N	%	n	N	%	n	N	%	<i>p-value</i>
Equipment (observed and functional)										
Thermometer	112	120	93.3	104	120	86.7	88	120	73.3	0.000
Stethoscope	109	120	90.8	109	120	90.8	89	120	74.2	0.000
Blood Pressure Apparatus	94	120	78.3	98	120	81.7	83	120	69.2	0.062
Examination Light	26	120	21.7	48	120	40.0	28	120	23.3	0.002
Adult Weighing Scale	111	120	92.5	103	120	85.8	85	120	70.8	0.000
Child Scale	71	120	59.2	90	120	75.0	76	120	63.3	0.027
Facility has all basic equipment	16	120	13.3	28	120	23.3	21	120	17.5	0.129
Mean percentage of basic equipment at facilities*	72.6 (19.7)			76.7 (20.9)			62.4 (32.4)			0.000
Infection Prevention Precautions (observed and functional)										
Hand Hygiene Items	103	120	85.8	110	120	91.7	111	120	92.5	0.172
Latex Gloves	96	120	80.0	99	120	82.5	96	120	80.0	0.851
Single Use Standard Disposable or Auto-Disable Syringes	98	120	81.7	106	120	88.3	108	120	90.0	0.133
Environmental Disinfectant	62	120	51.7	47	120	39.2	64	120	53.3	0.056
Appropriate Storage of Sharps Waste	101	120	84.2	109	120	90.8	97	120	80.8	0.084
Facility has all standard infection prevention precautions	59	120	49.2	41	120	34.2	50	120	41.7	0.062
Mean percentage of prevention precautions at facilities*	76.7 (32.7)			78.5 (23.8)			79.3 (23.9)			0.739
Personal Protective Equipment (PPE)										
Gloves	96	120	80.0	99	120	82.5	96	120	80.0	0.851
Diagnostics (Laboratory, observed and functional)										
Facility has capacity to conduct onsite hemoglobin testing	28	120	23.3	51	120	42.5	13	120	10.8	0.000
Facility has capacity to conduct onsite urine dipstick-glucose testing	34	120	28.3	53	120	44.2	32	120	26.7	0.006
Facility has capacity to conduct onsite urine dipstick-protein testing	40	120	33.3	65	120	54.2	32	120	26.7	0.000
Facility has capacity to conduct onsite urine dipstick-ketone testing	40	120	33.3	65	120	54.2	32	120	26.7	0.000
Facility has capacity to conduct onsite urine test for pregnancy	78	120	65.0	98	120	81.7	67	120	55.8	0.000
Facility has capacity to conduct onsite malaria diagnostic testing	109	120	90.8	107	120	89.1	108	120	90.0	0.912
Facility has all basic diagnostics	7	120	5.8	25	120	20.8	5	120	4.2	0.000
Mean percentage of basic diagnostics at facilities*	45.7 (29.6)			61.0 (31.1)			39.4 (28.3)			0.000

	Ebonyi			Kebbi			Zamfara			<i>X² test</i>
	n	N	%	n	N	%	n	N	%	<i>p-value</i>
Diagnostic items (available & functional)										
Light Microscope	7	120	5.8	43	120	35.8	18	120	15.0	0.000
Glass Slides	6	120	5.0	19	120	15.8	19	120	15.8	0.013
Cover Slips for Glass Slides	6	120	5.0	19	120	15.8	19	120	15.8	0.013
Reliable Electricity Source For 24 Hours	28	120	23.3	41	120	34.2	64	120	53.3	0.000
Back-Up Source of Electricity	66	120	55.0	73	120	60.8	22	120	18.3	0.000
Essential Medicines & Commodities (observed and functional/not expired)										
Paracetamol tab/cap	113	120	94.2	108	120	90.0	76	120	63.3	0.000
Artemisinin-based combination therapy (ACT)	108	120	90.0	102	120	85.0	78	120	65.0	0.000
Hormonal contraceptives (oral, injectable and/or implants)	117	120	97.5	109	120	90.8	97	120	80.8	0.000
Folic acid tab/cap	96	120	80.0	79	120	65.8	66	120	55.0	0.000
Facility has all essential medicines	85	120	70.8	63	120	52.5	40	120	33.3	0.000
Mean percentage of medicines at facilities*	90.4 (16.9)			85.0 (18.2)			66.0 (31.2)			0.000
Reproductive health items										
Female condoms	94	120	78.3	59	120	49.2	35	120	29.2	0.000
Implants (e.g. (levonorgestrel, etonogestrel)	105	120	87.5	84	120	70.0	48	120	40.0	0.000
Facility has all RMNCAH items	89	120	74.2	53	120	44.2	23	120	19.2	0.000
Mean percentage of reproductive health items at facilities*	82.9 (31.4)			59.6 (40.6)			34.6 (38.8)			0.000
Basic consumables										
Single use syringes	98	120	81.7	106	120	88.3	108	120	90.0	0.133
Examination gloves, latex, single use	96	120	80.0	99	120	82.5	96	120	80.0	0.851
Alcohol swabs	92	120	76.7	92	120	76.7	99	120	82.5	0.445
Sterile gauze swabs	94	120	78.3	98	120	81.7	95	120	79.2	0.800
Male condoms	106	120	88.3	79	120	65.8	57	120	47.5	0.000
Facility has all basic consumables	76	120	63.3	55	120	45.8	40	120	33.3	0.000
Mean percentage of basic consumables at facilities*	81.0 (30.2)			79.0 (25.9)			75.8 (26.2)			0.000

Notes: Mean and standard deviation presented for continuous variables, with Wald test for statistical significance for categorical variables and one-way ANOVA for means.

* Mean variables factor in listed index items above (female condoms and implants)

Table 6. Malaria service availability and readiness, by state

	Ebonyi			Kebbi			Zamfara			<i>X² test p-value</i>
	n	N	%	n	N	%	n	N	%	
Malaria Service Availability, among all facilities										
Facility offers any malaria services	120	120	100.0	119	120	99.2	120	120	100.0	0.367
Facility offers malaria diagnosis	120	120	100.0	119	120	99.2	120	120	100.0	0.367
Facility offers malaria diagnosis by clinical symptoms and signs	19	120	15.8	32	120	26.7	27	120	22.5	0.121
Facility offers malaria diagnostic testing	118	120	98.3	119	120	99.2	119	120	99.2	0.777
Facility offers malaria diagnosis by RDT	118	120	98.3	119	120	99.2	118	120	98.3	0.816
Facility offers malaria diagnosis by microscopy	4	120	3.3	10	120	8.3	10	120	8.3	0.200
Facility offers malaria treatment	120	120	100.0	119	120	99.2	120	120	100.0	0.367
Facility offers intermittent preventive treatment for malaria (IPT)	119	120	99.2	118	120	98.3	105	120	87.5	0.000
Malaria Service Readiness, among facilities offering malaria services										
Staff and Guidelines										
Facility has guidelines for diagnosis and treatment of malaria	86	120	71.7	114	119	95.8	111	120	92.5	0.000
Facility has guidelines for malaria in pregnancy (MIP)	73	120	60.8	107	119	89.9	102	120	85.0	0.000
Facility has staff trained past two years in malaria diagnosis or treatment	119	120	99.2	119	119	100.0	120	120	100.0	0.368
Facility has staff trained in IPTp past two years	112	120	93.3	117	119	98.3	107	120	89.2	0.015
Diagnostics										
Facility has malaria diagnostic testing capacity	109	120	90.8	107	119	89.9	108	120	90.0	0.966
Facility has RDT kits in stock	109	120	90.8	106	120	88.3	106	120	88.3	0.772
Facility has smear kits	5	120	4.2	14	120	11.7	11	120	9.2	0.101
Facility has microscopy tools	3	120	2.5	7	120	5.8	5	120	4.2	0.434
Medicines and Commodities (observed, not expired)										
Facility has first-line antimalarials (ACT)	108	120	90.0	102	119	85.7	78	120	65.0	0.000
Facility has paracetamol tab/cap (adult oral formulation)	113	120	94.2	107	119	89.9	76	120	63.3	0.000
Facility has sulphadoxine-pyrimethamine (SP) tab/cap	109	120	90.8	74	119	62.2	41	120	34.2	0.000
Facility has insecticide treated nets (ITNs) or vouchers for ITN	14	120	11.7	3	119	2.5	8	120	6.7	0.021
Index summary indicators										
Facility has all malaria items	10	120	8.3	3	119	2.5	6	120	5.0	0.131
Mean percentage of malaria staff and guidelines items at facilities*	81.3 (22.7)			96.0 (10.8)			91.7 (17.9)			0.000
Mean percentage of malaria diagnostics items at facilities*	90.8 (29.0)			89.9 (30.2)			90.0 (30.1)			0.966

	Ebonyi			Kebbi			Zamfara			X ² test p-value
	n	N	%	n	N	%	n	N	%	
Mean percentage of malaria medicines and commodities items at facilities*	71.7 (19.2)			60.1 (22.6)			42.3 (29.3)			0.000
Mean percentage of all malaria items at facilities*	78.1 (16.0)			79.4 (13.4)			69.5 (18.6)			0.000
Malaria Stock-outs										
Facility has RDT in stock (observed, not expired)	92	120	76.7	102	119	85.7	96	120	80.0	0.200
Facility has capacity to conduct RDT	82	120	68.3	100	119	84.0	95	120	79.2	0.012
Facility had stock-out of malaria RDT kits in last 4 weeks	25	120	20.8	31	119	26.1	43	120	35.8	0.031
Less than 7 days of stock-out	11	120	9.2	3	119	2.5	7	120	5.8	0.616
7-14 days of stock-out	4	120	3.3	7	119	5.9	14	120	11.7	0.034
More than 14 days	10	120	8.3	17	119	14.3	19	120	15.8	0.186
Facility had stock-out of ACT in last 4 weeks	24	120	20.0	23	119	19.3	51	120	42.5	0.000
Less than 7 days of stock-out	11	120	9.2	3	119	2.5	7	120	5.8	0.091
7-14 days of stock-out	4	120	3.3	9	119	7.6	15	120	12.5	0.030
More than 14 days	9	120	7.5	11	119	9.2	29	120	24.2	0.000
Commodities and Logistics for Malaria										
Any facility staff trained on the Malaria Commodities Logistics System (MCLS)	106	120	88.3	112	120	93.3	98	120	81.7	0.022
Facility has SOPs, job aids, and/or tools for MCLS	101	120	84.2	104	120	86.7	91	120	75.8	0.071
Facility submits Bi-monthly Facility Stock Report (BFSR) for malaria commodities logistics	108	120	90.0	111	120	92.5	112	120	93.3	0.614
Facility BFSR is available	101	108	93.5	104	111	93.7	101	112	90.2	0.535
BFSR submission		108			111			112		0.412
Through local government area (LGA) RBM/FP Coordinator	107		99.1	111		100.0	109		97.3	
Directly on NHLMIS	1		0.9	0		0.0	2		1.8	
Other	0		0.0	0		0.0	1		0.9	
Facility has an Inventory Control Card (ICC) of malaria commodities	107	120	89.2	104	120	86.7	103	120	85.8	0.723

Notes: Mean and standard deviation presented for continuous variables, with Wald test for statistical significance for categorical variables and one-way ANOVA for means.

*All malaria items: includes all above listed items from guidelines for diagnosis and treatment of malaria to ITN or vouchers for ITN EXCEPTING smear kits and microscopy tools. Surveyed health facilities were primary health centers, which we would not expect to have these items; therefore, they were collected as auxiliary information and do not contribute to index variables.

*Staff and guidelines index items: guidelines for diagnosis and treatment of malaria, guidelines for intermittent preventative treatment of malaria in pregnancy (IPTp), staff trained in malaria diagnosis and treatment, staff trained in IPTp.

*Diagnostic index items: Rapid diagnostic testing (RDT) kits in stock (facilities are not expected to have smear kits or microscopy tools, so they are not factored into the index).

*Medicines and commodities index items: first-line antimalarials, paracetamol tab/cap, SP tab/cap, ITN or vouchers for ITN.

*RDT stock and stock-out: the disparity between facilities that have RDT in stock and those that have reported stock-out of malaria RDTs in the last 4 weeks is due to survey response options for stock items; only "Yes, observed" are factored in here, per WHO HHFA standards.

Table 7. Antenatal care service availability and readiness, by state

	Ebonyi			Kebbi			Zamfara			<i>X² test</i>
	n	N	%	n	N	%	n	N	%	<i>p-value</i>
Antenatal Care Availability, among all facilities										
Facility offers antenatal care services	119	120	99.2	115	120	95.8	97	120	80.8	0.000
Facility offers iron supplementation	113	120	94.2	119	120	99.2	80	120	66.7	0.000
Facility offers folic acid supplementation	113	120	94.2	119	120	99.2	80	120	66.7	0.000
Facility offers intermittent preventive treatment in pregnancy for malaria (IPTp)	105	120	87.5	111	120	92.5	66	120	55.0	0.000
Facility offers tetanus toxoid vaccination	106	120	88.3	120	120	100.0	94	120	78.3	0.000
Facility offers monitoring for hypertensive disorder of pregnancy	112	120	93.3	119	120	99.2	88	120	73.3	0.000
Facility offers routine checks for urine protein	71	120	59.2	94	120	78.3	63	120	52.5	0.000
Antenatal Care Readiness, among facilities offering ANC services										
Staff and guidelines										
Facility has national guidelines on ANC	46	119	38.7	100	115	87.0	81	97	83.5	0.000
Facility has ANC check-lists and/or job-aids	49	119	41.2	93	115	80.9	82	97	84.5	0.000
Facility has staff trained in ANC last two years	72	119	60.5	109	115	94.8	83	97	85.6	0.000
Facility has national guidelines/checklists on IPTp	72	119	60.5	103	115	89.6	88	97	90.7	0.000
Facility has staff trained in IPTp last two years	112	119	94.1	113	115	98.3	97	97	100.0	0.022
Items and equipment										
Blood pressure apparatus	94	119	79.0	100	115	87.0	83	97	85.6	0.215
Fetal stethoscope	108	119	90.8	105	115	91.3	89	97	91.8	0.967
Adult weighing scale	110	119	92.4	101	115	87.8	78	97	80.4	0.030
Medicines and commodities (observed, not expired)										
Iron tablets	89	119	74.8	79	115	68.7	58	97	59.8	0.062
Folic acid tablets	96	119	80.7	78	115	67.8	66	97	68.0	0.045
Tetanus toxoid vaccine	92	119	77.3	90	115	78.3	90	97	92.8	0.005
IPT medicine	108	119	90.8	72	115	62.6	42	97	43.3	0.000
Insecticide-treated nets (ITNs)	0	119	0.0	3	115	2.6	6	97	6.2	0.021

	Ebonyi			Kebbi			Zamfara			<i>X² test</i>
	n	N	%	n	N	%	n	N	%	<i>p-value</i>
Diagnostics (observed and functional)										
Hemoglobin testing capacity	24	119	20.2	29	115	25.2	12	97	12.4	0.063
Urine dipstick-protein test	46	119	38.7	70	115	60.9	47	97	48.5	0.003
Index summary indicators										
Facility has all ANC items	0	119	0.0	0	115	0.0	1	97	1.0	0.298
Mean percentage of ANC staff and guidelines items at facilities*	59.2 (29.2)			90.0 (20.1)			89.2 (18.0)			0.000
Mean percentage of ANC equipment items at facilities*	84.2 (22.5)			83.7 (21.0)			79.4 (27.7)			0.272
Mean percentage of ANC medicines and commodities items at facilities*	64.7 (24.4)			56.0 (26.0)			54.0 (24.2)			0.003
Mean percentage of ANC diagnostics items at facilities*	29.4 (32.2)			43.0 (36.8)			30.4 (32.7)			0.004
Mean percentage of all ANC items at facilities*	62.5 (18.2)			73.3 (13.3)			70.2 (15.1)			0.000

Notes: Mean and standard deviation presented for continuous variables, with Wald test for statistical significance for categorical variables and one-way ANOVA for means.

*Staff and guidelines index items: national guidelines on ANC, ANC check-lists and/or job-aids, staff trained in ANC, national guidelines on IPTp, IPTp checklists and/or job-aids, staff trained in IPTp

*Items and equipment index items: Blood pressure apparatus, Fetal stethoscope, Adult weighing scale

*Medicines and commodities index items: Iron tablets, Folic acid tablets, Tetanus toxoid vaccine, IPT medicine, insecticide treated nets (ITNs)

*Diagnostic index items: Hemoglobin testing capacity, Urine dipstick-protein test

Table 8. Family planning service availability and readiness, by state

	Ebonyi			Kebbi			Zamfara			<i>X² test</i>
	n	N	%	n	N	%	n	N	%	<i>p-value</i>
Family Planning Service Availability, among all facilities										
Facility offers family planning services	118	120	98.3	120	120	100.0	99	120	82.5	0.000
Facility offers any modern method of contraception	118	120	98.3	120	120	100.0	99	120	82.5	0.000
Facility offers combined oral contraceptive pills	113	120	94.2	111	120	92.5	93	120	77.5	0.000
Facility offers progestin-only injectable contraceptives	111	120	92.5	114	120	95.0	96	120	80.0	0.001
Facility offers male condoms	116	120	96.7	75	120	62.5	68	120	56.7	0.000
Facility offers intrauterine contraceptive devices (IUCDs)	54	120	45.0	21	120	17.5	11	120	9.2	0.000
Facility offers implants	106	120	88.3	104	120	86.7	89	120	74.2	0.006
Facility offers male sterilization	3	120	2.5	1	120	0.8	0	120	0	0.170
Facility offers female sterilization	4	120	3.3	0	120	0.0	0	120	0.0	0.072
Facility offers cycle beads for standard days method	70	120	58.3	4	120	3.3	6	120	5.0	0.000
Family planning service points (among facilities offering FP services)										
Immunization	101	118	85.6	97	114	85.1	46	99	46.5	0.000
ANC	99	118	83.9	99	114	86.8	78	99	78.8	0.284
Immediate post-delivery	81	118	68.6	90	114	79.0	48	99	48.5	0.000
Postnatal care	68	118	57.6	73	114	64.0	31	99	31.3	0.000
Sick mother outpatient department	43	118	36.4	42	114	36.8	20	99	20.2	0.013
Sick child outpatient department	30	118	25.4	34	114	29.8	19	99	19.2	0.202
Well baby clinic	27	118	22.9	29	114	25.4	6	99	6.1	0.001
Gynecological outpatient department	15	118	12.7	5	114	4.4	20	99	20.2	0.002
Family Planning Service Readiness, among facilities offering family planning services										
Staff and training										
Facility has staff trained in family planning	107	118	90.7	113	114	99.1	95	99	96.0	0.010
Equipment										
Facility has blood pressure apparatus	94	118	79.7	98	114	86.0	83	99	83.8	0.428
Medicines and commodities										
Combined estrogen progesterone oral contraceptive pills	105	118	89.0	95	114	83.3	69	99	69.7	0.001
Injectable contraceptives	104	118	88.1	106	114	93.0	82	99	82.8	0.072

	Ebonyi			Kebbi			Zamfara			X^2 test
	n	N	%	n	N	%	n	N	%	p-value
Condoms	108	118	91.5	81	114	71.1	59	99	59.6	0.000
Summary index indicators										
Facility has all family planning items	54	118	45.8	63	114	55.3	38	99	38.4	0.046
Mean percentage of staff and guidelines items at facilities*	90.7 (29.2)			99.1 (9.4)			96.0 (19.8)			0.010
Mean percentage of family planning equipment items at facilities*	79.7 (40.4)			86.0 (34.9)			83.8 (37.0)			0.431
Mean percentage of family planning medicines and commodities items at facilities*	89.5 (23.3)			82.5 (29.8)			70.7 (33.8)			0.000
Mean percentage of all family planning items at facilities*	87.8 (19.6)			86.5 (19.1)			78.4 (21.7)			0.001
Additional family planning medicines and commodities indicators, among facilities offering family planning services										
Facility has individual client record/chart/card	81	118	68.6	76	114	66.7	63	99	63.6	0.738
Facility has oral contraceptive (any type) in stock	105	118	89.0	95	114	83.3	69	99	69.7	0.001
Facility has injectable contraceptives in stock	104	118	88.1	106	114	93.0	82	99	82.8	0.072
Facility has implants in stock	105	118	89.0	84	114	73.7	48	99	48.5	0.000
Facility has intrauterine contraceptive device (IUCD) in stock	56	118	47.5	13	114	11.4	6	99	6.1	0.000
Facility has any modern methods of contraception available	115	118	97.5	109	114	95.6	91	99	91.9	0.160
Facility has at least 3 modern methods of contraception available	109	118	92.4	90	114	79.0	59	99	59.6	0.000
Facility has at least 5 modern methods of contraception available	87	118	73.7	52	114	45.6	21	99	21.2	0.000
Commodities and Logistics for Family Planning, among facilities offering family planning services										
Facility submits a Requisition, Issue, and Receipt Form (RIRF) for family planning commodities	105	118	89.0	98	114	86.0	88	99	88.9	0.732
RIRF submission	105			98			88			0.423
Through LGA RBM/FP Coordinator	103		98.1	96		98.0	83		94.3	
Directly on NHLMIS	1		1.0	1		1.0	4		4.6	
Other	1		1.0	1		1.0	1		1.1	
Facility has an Inventory Control Card of family planning commodities	105	118	89.0	92	114	80.7	69	99	69.7	0.002

Notes: Mean and standard deviation presented for continuous variables, with Wald test for statistical significance for categorical variables and one-way ANOVA for means.

*Staff and guidelines index items: staff trained in family planning

*Equipment items index items: blood pressure apparatus

*Medicines and commodities index items: oral contraceptive pills, injectable contraceptives, and condoms

Table 9. Management and financial support systems, by state

	Ebonyi			Kebbi			Zamfara			<i>X² test</i>
	n	N	%	n	N	%	n	N	%	<i>p-value</i>
Governance & Management										
Facility has a core management team responsible for managing the day-to-day functioning of the facility	96	120	80.0	109	120	90.8	100	120	83.3	0.058
Facility has a routine system for eliciting community input into facility management decisions	102	120	85.0	115	120	95.8	110	120	91.7	0.014
Financial										
Facility has user fees charged for any outpatient services	21	120	17.5	27	120	22.5	49	120	40.8	0.000
Facility has an inventory of major equipment and furnishings	112	120	93.3	111	120	92.5	110	120	91.7	0.887
Facility staff experience delay in payment of salary	51	120	42.5	10	120	8.4	76	120	63.3	0.000
Never	0	51	0.0	0	10	0.0	2	76	2.6	0.499
Seldom (Once in a year)	8	51	15.7	3	10	30.0	21	76	27.6	
Often (Once every 3-6 months)	29	51	56.9	5	10	50.0	40	76	52.6	
Always	14	51	27.5	2	10	20.0	13	76	17.1	
Facility receives any non-salary, operational funds from the government	44	120	36.7	75	119	63.0	11	120	9.2	0.000
State Government	24	44	54.6	40	75	52.6	6	11	54.6	0.977
Local Government	3	44	6.8	52	75	68.4	1	11	9.1	0.000
Health Insurance (NHIS)	8	44	18.2	1	75	1.3	1	11	9.1	0.004
Drug Revolving Fund	5	44	11.4	1	75	1.3	1	11	9.1	0.052
Other	36	44	81.8	2	75	2.6	2	11	18.2	0.000
Facility experienced a delay in receipt of government funds	10	43	23.3	10	75	13.3	5	11	45.5	0.031
Government level that delayed funds										0.001
State government	8	8	100.0	1	10	10.0	2	5	40.0	
Local government	0	8	0.0	8	10	80.0	1	5	20.0	
Both state and local government	0	8	0.0	1	10	10.0	2	5	40.0	
Reasons for delay										0.366
Delay in submission of quality (business/work) implementation plan	0	8	0.0	0	10	0.0	0	5	0.0	

	Ebonyi			Kebbi			Zamfara			<i>X² test</i>
	n	N	%	n	N	%	n	N	%	<i>p-value</i>
Delay in receiving authority to incur expenses (AIE) from authorities	1	8	12.5	1	10	10.0	1	5	20.0	
Unable to provide timely accounts to LGA or state treasury	2	8	25.0	1	10	10.0	1	5	20.0	
Audit issues raised on facility's account	0	8	0.0	2	10	20.0	0	5	0.0	
Capacity problems at LGA or state treasury	1	8	12.5	2	10	20.0	3	5	60.0	
Other	4	8	50.0	4	10	40.0	0	5	0.0	
Facility has alternative sources of funding	28	120	23.3	39	120	32.8	61	120	50.8	0.000
Registration	19	28	67.9	26	39	65.0	26	61	42.6	0.026
Development partners/NGOs	7	28	25.0	6	39	15.0	5	61	8.2	0.102
User fees (Patient payments)	21	28	75.0	27	39	67.5	49	61	80.3	0.344
Philanthropy and Donations	1	28	3.6	6	39	15.0	3	61	4.9	0.116
Other	2	28	7.1	5	39	12.5	0	61	0.0	0.023
Health Information Systems										
Facility has relevant HMIS forms/registers available										
NHMIS health facility monthly summary form	117	119	98.3	114	119	95.8	120	120	100.0	0.062
NHMIS health facility daily attendance register	118	120	98.3	117	119	98.3	118	120	98.3	1.000
NHMIS health facility daily ANC register *	118	119	99.2	114	115	99.1	97	97	100.0	0.659
NHMIS health facility daily FP register *	117	118	99.2	110	114	96.5	99	99	100.0	0.085
Facility sent last month's monthly summary form to the LGA	116	120	96.7	116	118	98.3	113	120	94.2	0.228
Facility participates in LGA monthly M&E review meetings	118	120	98.3	115	119	96.7	118	120	98.3	0.592
Facility reports discussing HMIS information in the facility management meetings	79	120	65.8	98	117	83.8	105	120	87.5	0.000

Notes: Mean and standard deviation presented for continuous variables, with Wald test for statistical significance for categorical variables and one-way ANOVA for means.

*Among facilities providing ANC/FP services



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For more information

Additional information is available on the D4I Nigeria HPN Multi-Activity Evaluation website at <https://www.data4impactproject.org/countries/nigeria/>, including the baseline HFA results brief, the baseline HFA methodology note, the D4I Zamfara HFA data collection instrument, the HFA indicator matrix, and the baseline provider survey report.

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