

Table 1: Characteristics of facilities and providers surveyed in Lagos and Jigawa, Q1 2019

		Lagos (N=14)			Jigawa (N=16)	
		Government	Private	Mission	Government	Private
		<i>N = 6</i>	<i>N = 6</i>	<i>N = 2</i>	<i>N = 8</i>	<i>N = 8</i>
Facility type	PPMV	N/A	2	0	N/A	2
	Pharmacy	N/A	-	-	N/A	2
	Primary	4	0	0	4	4
	Secondary	2	4	2	3 ^a	0
	Tertiary	-	-	-	1 ^a	0
		Lagos (N = 96)			Jigawa (N = 68)	
		<i>N (%)</i>			<i>N (%)</i>	
Job title	Doctor (consultant)	1 (1%)			0 (0%)	
	Doctor (senior)	5 (5%)			1 (1%)	
	Doctor (medical officer)	10 (10%)			5 (7%)	
	Nurse	54 (56%)			26 (38%)	
	Midwife	9 (9%)			5 (7%)	
	CHO	2 (2%)			4 (6%)	
	CHEW	14 (15%)			22 (32%)	
	Pharmacist	1 (1%)			2 (3%)	
	Patient attendant	0 (0%)			3 (4%)	
Facility type	PPMV	4 (4%)			2 (3%)	
	Pharmacy	-			2 (3%)	
	Government primary	30 (31%)			20 (29%)	
	Private primary	-			5 (7%)	
	Government secondary	33 (34%)			30 (44%)	
	Private secondary	11 (11%)			-	
	Mission secondary	16 (17%)			-	
	Government tertiary	-			9 (13%)	

^a Outside of LGA. N/A = not applicable

Table 2: IMCI knowledge test results for providers surveyed in Jigawa and Lagos, Q1 2019

		Jigawa IMCI Knowledge^a <i>(mean, range)</i>	Lagos IMCI Knowledge^a <i>(mean, range)</i>
Overall		3.9 (1.7 – 6.9)	4.3 (0 – 7.3)
IMCI	Yes	4.6 (2.4 – 6.5) ^b	4.4 (2.3 – 7.3)
Training	No	3.9 (1.7 – 6.9)	4.1 (0 – 6.4)
Facility type	Pharmacy	4.6 (3.7 – 6.9)	2.9 (0 – 4.3)
	Primary	3.6 (1.7 – 5.9)	4.4 (2.4 – 7.3)
	Secondary	4.3 (2.1 – 6.3)	4.2 (0 – 6.9)
	Tertiary	4.7 (2.0 – 6.5)	-
Job title	Doctor	5.0 (2.4 – 6.5)	5.0 (0 – 7.3)
	Nurse/midwife	4.3 (2.0 – 5.9)	4.2 (0 – 6.9)
	CHO/CHEW/Attendant	3.8 (1.7 – 6.9)	3.5 (0 – 5.9) ^c

^a Maximum score of 9, fractions were awarded for partially correct answers, and fractions taken off for choosing incorrect components when multiple components of an answer could be selected though the minimum score per question was 0 i.e. we didn't allow negative scores when more incorrect components of an answer were chosen than correct components (these responses scored 0 for that question)

^b significant difference (increase in IMCI Knowledge score of 0.71, 95%CI: 0.08, 1.33, p=0.028) in multivariable regression of Jigawa data with IMCI training, facility type and job as predictors of IMCI score

^c significant difference (IMCI Knowledge score relative to doctor: -1.6, 95%CI: -2.5, -0.6, p=0.002) in multivariable regression of Lagos data with IMCI training, facility type and job as predictors of IMCI score

Table 3 Cases seen per week per health worker by job cadre and facility type in Jigawa and Lagos, Q1 2019

Number of cases seen a week		Jigawa			Lagos		
		Children <i>Median, IQR, range</i>	“Severe Pneumonia” <i>Median, IQR, range</i>	Referrals <i>Median, IQR, range</i>	Children <i>Median, IQR, range</i>	“Severe Pneumonia” <i>Median, IQR, range</i>	Referrals <i>Median, IQR, range</i>
Overall		38, 15–135, 1–430	2, 1–5, 0–50	2, 0–3, 0–20	28, 10–80, 1–300	1, 0–2, 0–40	0, 0–1, 0–15
Job type	Doctor	55, 5–200, 2–300	2, 1–3, 0–20	2, 1–4, 1–5	80, 25–100, 5–220	1, 1–2, 0–40	1, 0–5, 0–10
	Nurse/midwife	40, 15–150, 2–430	3, 2–6, 0–50	2, 0–3, 0–20	25, 10–70, 1–300	1, 0–2, 0–20	0, 0–1, 0–15
	CHO/CHEW/Attendant	35, 15–120, 1–400	1, 0–2, 0–10	2, 0–4, 0–14	18, 6–55, 2–100	0, 0–1, 0–5	0, 0–2, 0–10
Facility type	Pharmacy	15, 8–25, 1–35	2, 1–5, 0–7	2, 2–4, 2–4	8, 6–10, 6–10	0, 0–3, 0–3	0, 0–0, 0–0
	Primary	25, 10–49, 2–313	1, 0–2, 0–6	1, 0–3, 0–14	55, 25–96, 3–220	1, 0–2, 0–15	1, 0–3, 0–10
	Secondary	110, 25–225, 5–430	3, 2–10, 0–50	2, 1–3, 0–20	25, 10–60, 1–300	1, 0–2, 0–40	0, 0–1, 0–15
	Tertiary	30, 15–70, 3–200	2, 1–4, 0–6	-	-	-	-

IQR: Inter-Quartile Range

Table 4 Cases and deaths in the last month (survey during Q1 2019) by state and facility type

State	Facility Type	Cases seen in last month: under-5 children (number of cases at each facility separated by ,)	Cases seen in last month: acute respiratory infections (number of cases at each facility separated by , [% of under-5 cases] ^a)	Deaths in last month: under-5 children (number of deaths at each facility separated by , [% of under-5 cases])	Deaths in last month: acute respiratory infections (number of deaths at each facility separated by , [% of ARI cases])
Jigawa	Tertiary government (n=1)	607	43 [7.1%]	2 [3.3%]	1 [2%]
	Secondary government (n=3)	1024, 2191, 2666	33 [3.2%], 56 [2.6%], 64 [2.4%]	14 [1.4%], 16 [0.7%], 39 [1.5%]	0, 2 [4%], 10 [16%]
	Primary government (n=4)	12, 104, 229, 709	0, 1 [1.0%], 4 [1.7%], 40 [5.6%]	0, 0, 2 [0.9%], 4 [0.6%]	0, 0, 0, 0 [0%]
	Primary private (n=4)	3, 10, 15, 99	1, 2, 4, 6 [6.1%]	0, 0, 0, 1 [1.0%]	0, 0, 0, 1
	Pharmacy (n=2)	1, 140	1, 40 [28.6%]	0, 0 [0%]	0, 0 [0%]
	PPMV (n=2)	16, 20	2, 5	0, 0	0, 0
	TOTAL	7846	302 [3.8%]	78 [1.0%]	24 [7.9%]
Lagos	Secondary government (n=2)	5, 122	3, 14 [11.5%]	0, 13 [10.7%]	0, 0
	Secondary private (n=4)	4, 7, 50, 83	0, 2, 2 [4.0%], 38 [45.8%]	0, 0, 0 [0%], 0 [0%]	0, 0, 0, 0 [0%]
	Secondary mission (n=2)	14, 373	1, 10 [2.7%]	0, 1 [0.3%]	0, 0
	Primary government (n=4)	243, 850, 920	0 [0%], 1 [0.1%], 59 [6.4%]	0 [0%], 0 [0%], 0 [0%]	0, 0, 0 [0%]
	PPMV private (n=2)	no data	no data	no data	no data
	TOTAL	2671	130 [4.9%]	14 [0.5%]	0 [0%]

^a % only shown if denominator is >20 cases

Table 5 Facility audit summary results

Facility Audit Summary	Lagos		Jigawa			
	PPMV / Pharmacy	Primary	Secondary	PPMV / Pharmacy	Primary	Secondary / Tertiary
IMCI equipment	Grey	Yellow	Yellow	Red	Red	Yellow
ETAT equipment	Grey	Yellow	Green	Red	Red	Yellow
IMCI drugs	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
ETAT drugs	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow
Oxygen supply	Grey	Yellow	Green	Red	Red	Yellow
Pulse oximeter	Grey	Red	Yellow	Red	Red	Yellow
Power source	Green	Yellow	Yellow	Green	Yellow	Green
Power last 24hrs	Grey	Yellow	Yellow	Red	Red	Yellow
Water	Red	Red	Red	Red	Yellow	Yellow
Opening times	Yellow	Yellow	Green	Yellow	Yellow	Green
Housing & on-call rooms	Black	Red	Yellow	Black	Yellow	Yellow
Staffing	Green	Yellow	Yellow	Green	Yellow	Yellow
Wards	Black	Yellow	Yellow	Black	Yellow	Yellow

Black = not required (and 0%)

Grey = no data

Red = lacking most essential equipment, drugs or supplies (<50% availability on average), lacking mains power (<50% of facilities), <12hrs of power in the last 24hrs, lacking mains water (<50% of facilities – these facilities typically have access to facility or shared boreholes), open 6hrs a day on average and not on weekends, <50% of facilities have staff housing and on-call rooms, expected staff cadres available, and expected wards

Yellow = stocked with some essential equipment, drugs or supplies (50-99% of facilities), some mains power (50-99% of facilities), 12-23hrs of power in the last 24hrs, some mains water (50-99% of facilities), open 12hrs per day on average, and weekends; has staff housing and on-call rooms (50-99% of facilities), all expected staff cadres available (50-99% of facilities), and expected wards available (50-99% of facilities)

Green = stocked with all essential equipment, drugs or supplies (100% availability), mains power (100% of facilities), 24hrs of power in the last 24 hours, mains water (100% of facilities), open 24hrs a day, 7 days a week (100%), has staff housing and on-call rooms (100% of facilities), all expected staff cadres available (100% of facilities), and expected wards available (100% of facilities)