Appendix A: Number of observations with missing data for each explanatory variable, by country and type of outlet

641)
y Drug Store
N=258
N=211
63
47
47
47
47
47
3
3
5
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Appendix B: Factors associated with providers' decision to supply ACT in Cameroon (model does not include providers' stated preference for ACT)

•	COMPLETE CASES		MULTIPLE IMPUTATION	
Number of patients	281		405	
Number of outlets	84		105	
FIXED EFFECTS	OR (95 CI)	P-value	OR (95 CI)	P-value
Level 1: Patient-Provider Interaction				
Provider knew ACT is first-line antimalarial for	0.47 (0.13-1.70)	0.252	0.46 (0.17-1.27)	0.135
uncomplicated malaria				
Provider had access to malaria guidelines	0.56 (0.17-1.79)	0.327	0.98 (0.35-2.70)	0.961
Provider had attended malaria training in past	1.40 (0.47-4.23)	0.546	1.75 (0.63-4.90)	0.279
3yrs				
Provider's pre-service				
Doctor	1.22 (0.21-7.15)	0.763	3.07 (0.58-16.22)	0.097
Nurse / Midwife	0.61 (0.14-2.66)		1.39 (0.34-5.79)	
Pharmacist	0.72 (0.03-15.06)		0.20 (0.03-1.60)	
Nurse Assistant	1.39 (0.32-6.01)		2.85 (0.68-11.97)	
None (Attendant/drug seller)	1.0		1.0	
Provider stated patients usually ask for ACT	3.02 (1.00-9.12)	0.051	2.56 (0.98-6.69)	0.054
Patient was male	0.96 (0.44-2.07)	0.912	1.06 (0.57-2.00)	0.845
Patient was under 5 years of age	2.07 (0.79-5.44)	0.141	1.50 (0.70-3.24)	0.301
Education of person seeking treatment				
Tertiary	0.45 (0.10-2.04)	0.522	0.74 (0.23-2.38)	0.818
Secondary	0.66 (0.26-1.68)		0.81 (0.38-1.72)	
None or Primary	1.0		1.0	
Patient's wealth quintile				
Least Poor	4.02 (0.71-22.58)	0.238	2.72 (0.67-11.17)	0.061
Fourth	7.03 (1.34-36.88)		6.34 (1.68-23.89)	
Third	2.33 (0.69-7.90)		1.77 (0.63-5.00)	
Second	1.83 (0.66-5.02)		1.15 (0.47-2.83)	
Poorest	1.0		1.0	
Treatment was sought within 2 days	1.39 (0.59-3.25)	0.448	1.10 (0.55-2.21)	0.781
First time treatment was sought	0.28 (0.08-0.93)	0.037	0.46 (0.19-1.13)	0.089
Patient had previously taken an antimalarial	0.09 (0.02-0.42)	0.002	0.23 (0.08-0.66)	0.007
Provider was told patient has diarrhoea or been	1.07 (0.32-3.62)	0.907	0.78 (0.29-2.13)	0.630
vomiting				
Patient was examined by provider	0.88 (0.32-2.43)	0.809	1.11 (0.44-2.79)	0.826
Patient had a confirmed malaria diagnosis	0.28 (0.10-0.79)	0.017	0.30 (0.12-0.70)	0.006
Level 2: Outlet				
Type of outlet				
Public	17.08 (2.68-108.73)	0.006	148.44 (9.59-2297.3)	0.001
Mission	4.21 (0.62-28.82)		1.48 (0.30-7.35)	
Pharmacy	42.41 (2.22-808.51)		6.09 (1.24-29.69)	
Drug Store	1.0		1.0	
Outlet had ACT in stock	2.24 (0.74-6.79)	0.155	2.45 (0.82-7.35)	0.109
Outlet usually receives antimalarial from drug	1.79 (0.12-25.91)	0.668	1.51 (0.10-23.38)	0.767
company representative				
Outlet was in an urban community	0.74 (0.25-2.18)	0.586	0.73 (0.26-1.98)	0.536
Constant	1.12 (0.14-8.69)	0.914	0.55 (0.09-3.31)	0.514
RANDOM EFFECTS				
Residual SD	1.02 (0.45-2.29)		1.20 (0.74-1.96)	
VPC	0.24		0.30	

Appendix C: Factors associated with providers' decision to supply ACT in Nigeria (model does not include providers' stated preference for ACT)

	COMPLETE CASES		MULTIPLE IMPUTATION	
Number of patients	423		641	
Number of outlets	71		93	
FIXED EFFECTS	OR (95 CI)	P-value	OR (95 CI)	P-value
Level 1: Patient-Provider Interaction				
Provider knew ACT is first-line antimalarial for	0.98 (0.40-2.43)	0.970	0.94 (0.46-2.20)	0.985
uncomplicated malaria				
Provider had access to malaria guidelines	0.91 (0.27-3.09)	0.882	1.73 (0.62-4.76)	0.288
Provider had attended malaria training in past	0.63 (0.27-1.42)	0.264	0.65 (0.31-1.38)	0.264
3yrs				
Provider's pre-service training				
Doctor or Nurse/Midwife or Pharmacist <sup>‡</sup>	2.47 (0.45-13.66)	0.417	1.97 (0.45-8.58)	0.646
CHO or CHEW	2.79 (0.60-12.87)		1.63 (0.41-6.57)	
None (Attendant/drug seller)	1.0		1.0	
Provider stated patients usually ask for ACT	1.30 (0.52-3.26)	0.576	1.34 (0.60-3.00)	0.476
Patient was male	1.64 (0.94-2.86)	0.084	1.87 (1.20-2.93)	0.006
Patient was under 5 years of age	3.98 (1.97-8.04)	<0.001	2.77 (1.59-4.82)	<0.001
Education of person seeking treatment				
Tertiary	0.97 (0.39-2.39)	0.842	1.43 (0.71-2.90)	0.539
Secondary	0.82 (0.38-1.76)		1.07 (0.59-1.94)	
None or Primary	1.0		1.0	
Patient's wealth quintile				
Least Poor	1.37 (0.40-4.68)	0.960	1.41 (0.55-3.65)	0.963
Fourth	1.43 (0.44-4.64)		1.33 (0.54-3.27)	
Third	1.56 (0.51-4.77)		1.30 (0.55-3.09)	
Second	1.29 (0.51-3.29)		1.27 (0.61-2.68)	
Poorest	1.0		1.0	
Treatment was sought within 2 days	1.76 (0.91-3.40)	0.091	1.43 (0.87-2.37)	0.162
First time treatment was sought	0.54 (0.24-1.21)	0.136	0.48 (0.26-0.89)	0.020
Patient had previously taken an antimalarial	1.86 (0.61-5.65)	0.273	1.04 (0.44-2.46)	0.936
Provider was told patient has diarrhoea or been	2.36 (1.17-4.75)	0.016	2.36 (1.38-4.05)	0.002
vomiting				
Patient was examined by provider	1.13 (0.53-2.40)	0.754	1.35 (0.74-2.45)	0.323
Patient had a confirmed malaria diagnosis	0.06 (0.00-0.87)	0.039	0.24 (0.05-1.10)	0.066
Level 2: Outlet				
Type of outlet	2.50 (0.44.44.20)	0.444	4 22 (2 25 4 20)	0.655
Public	2.50 (0.44-14.29)	0.414	1.22 (0.35-4.28)	0.655
Pharmacy	0.68 (0.12-3.85)		2.00 (0.43-9.22)	
Drug Store Outlet had ACT in stock	1.0 3.54 (1.14-10.95)	0.029	1.0 3.67 (1.45-9.25)	0.006
Outlet usually receives antimalarial from drug	2.44 (0.56-10.62)			0.006
company representative	2.44 (0.30-10.02)	0.234	1.21 (0.40-3.65)	0.733
Outlet was in an urban community	2.50 (0.78-8.00)	0.122	2.18 (0.84-5.64)	0.110
Constant Community	0.01 (0.00-0.08)	<0.001	0.02 (0.00-0.08)	<0.001
RANDOM EFFECTS	0.01 (0.00-0.08)	\U.UUI	0.02 (0.00-0.06)	\U.UU1
	1.09 (0.66-1.79)		1.03 (0.68-1.54)	
Residual SD VPC	<u> </u>			
VPC	0.26		0.24	