

Predictors of household ownership of ITN

COMBINED Model I*				URBAN Model II§							RURAL Model III†						
(n=4186) #				South (n=589)#			North (n=1047)#				South (n=1587)#				North (n=1119)#		
*Predictors	**OR	95% CI**	P-value	*Predictors	^OR	95% CI	P-value	€OR	95% CI	P-value	*Predictors	*OR	95% CI	P-value	§OR	95% CI	P-value
U5 child in HH**				U5 child in HH							U5 child in HH						
No	1			No	1			-			No	1					
Yes	1.55	1.53 - 1.94	<0.0001	Yes	3.42	1.87 - 6.27	<0.0001	-	-	-	yes	1.47	1.001-2.15	0.05			
Health facility status				HH Religion							HH Religion						
No	1	1.59 - 2.53	<0.0001	Islam	1		0.026	-			Islam	1			1		
Yes	1.97	1.55 - 2.50		Christianity	6.78	1.61 - 28.63	0.009	-	-	-	Christianity	5.95	1.45-24.4	0.013	0.43	0.29-0.64	<0.0001
Region*Residence				Other	3.27	0.28- 41.20	0.353	-	-	-	Other	0.00	0.00	0.998	0.00	0.00	0.998
South*Urban	1			Health facility							RWI	1.37	1.18-1.60	<0.0001			
North*Rural	1.97	1.55-2.50	<0.0001	No	-			1			Health facility status						
CWI*Education				Yes	-	-	-	5.8	2.05-16.41	0.001	No	1					
CWI*No	1			Education^^							Yes	3.16	2.10-0.76	<0.0001	-	-	-
CWI*Yes	1.15	1.02 - 1.29	0.025	No	-			1			RWI*HH						
HH head gender				Yes	-	-	-	1.93	1.10-0.38	0.022	head gender						
Female	1			UWI* Education							WI*Female	1					
Male	1.87	1.09 - 3.20	0.023	UWI*No				1			WI*Male	0.7	0.55-0.89	0.001			
Family size	1.88	1.13 - 3.13	0.015	UWI*Yes				1.33	1.02-1.75	0.039							
Education																	
No	1																
Yes	1.36	1.07 - 1.73	0.012														

*Variables in the final model. #Data included in the analysis, all missing data were excluded from the analysis P-values significant at 0.05 CI, confidence interval H&L, Hosmer and Lemeshow goodness-of-fit test. **HH, households; RWI, rural wealth index; RWI*HH head's Gender, interaction term for wealth index and household head's gender; Region*Residence, interaction term for dichotomised region and residence (urban/rural); CWI*Education, interaction term for combined wealth index and education; UWI* Education, interaction term for urban wealth index and education. Education^^, presence of an educated eligible female respondent in the household

* Logistic regression run for combined data (H&L test P-value =0.11) **OR, Odds ratio; adjusted for religion, residence, family size (log value was used in analysis), combined household wealth index, and combined household wealth index by household head's gender.

§ Model developed for urban household, data split by region (H&L test P-value: South, 0.17; North, 0.11) ^OR, odds ratio adjusted for family size, education (dichotomised), education by urban wealth index, urban wealth index, urban wealth index by household head's gender, and household head's gender. €OR, odds ratio adjusted for family size, U5 child in the household, religion, health facility status, urban wealth index, urban wealth index by household head's gender, and household head's gender

† Model developed for rural households, data split by region (H&L test P-value: South, 0.78; North, 0.16) †OR, odds ratio adjusted for household head's gender, rural wealth index by household head's gender, health facility status, education (dichotomised), education by rural wealth index, and religion. §OR, odds ratio adjusted for rural wealth index, U5 child in the household, education (dichotomised), education by rural wealth index, and household head's gender.