

S4 Table: Odds Ratios (ORs) estimates from two logistic regression model fits to binary outcome variable crude coverage

Level	OR (95% CI)		
	Round 1	Round 2	Rounds 1&2
All LGAs	A. All LGA model		
Unadjusted ¹			
Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	0.94 (0.82-1.09)	1.04 (0.88-1.24)	0.98 (0.86-1.13)
Adjusted for age ²			
Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	0.92 (0.78-1.07)	0.95 (0.80-1.13)	0.94 (0.82-1.09)
Modified by age ³			
1-4 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	1.41 (1.06-1.88)	1.08 (0.73-1.59)	1.39 (1.06-1.83)
5-14 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	0.88 (0.71-1.08)	0.84 (0.61-1.17)	0.86 (0.70-1.05)
≥15 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	0.80 (0.64-0.98)	0.95 (0.78-1.67)	0.86 (0.70-1.06)
	B. LGA specific models		
1.Maiduguri			
Unadjusted ¹			
Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	0.70 (0.49-1.00)	0.80 (0.55-1.17)	0.76 (0.55-1.07)
Adjusted for age ²			
Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	0.63 (0.43-0.94)	0.67(0.45-1.00)	0.68 (0.47-1.00)
Modified by age ³			
1-4 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	1.13 (0.58-2.18)	0.77 (0.29-2.04)	1.08 (0.60-1.94)
5-14 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	0.94 (0.70-1.26)	0.73 (0.54-1.00)	0.85 (0.68-1.07)
≥15 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	0.40 (0.22-0.71)	0.62 (0.38-1.01)	0.50 (0.29-0.93)
2.Jere			
Unadjusted ¹			
Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	0.90 (0.70-1.17)	0.97 (0.73-1.28)	0.97 (0.74-1.26)
Adjusted for age ²			
Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	0.84 (0.64-1.09)	0.87 (0.38-1.01)	0.89 (0.67-1.18)
Modified by age ³			
1-4 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	1.95 (1.24-3.08)	1.17 (0.69-1.98)	2.04 (1.34-3.12)
5-14 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	0.58 (0.41-0.84)	0.63 (0.34-1.17)	0.58 (0.41-0.83)
≥15 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	0.74 (0.49-1.14)	0.82 (0.52-1.31)	0.82 (0.52-1.31)
3.Konduga			
Unadjusted ¹			
Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
Male	0.94 (0.74-1.21)	1.43 (1.04-1.95)	0.99 (0.81-1.20)

	Adjusted for age ²			
	Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	0.88 (0.69-1.12)	1.24 (0.98-1.58)	0.92 (0.74-1.14)
	Modified by age ³			
	1-4 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	1.03 (0.53-2.02)	1.57 (0.44-5.63)	1.23 (0.59-2.55)
	5-14 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	1.04 (0.63-1.73)	1.88 (0.61-5.78)	1.09 (0.72-1.66)
	≥15 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	0.78 (0.55-1.11)	1.08 (0.78-1.50)	0.78 (0.55-1.10)
4.Mafa	Unadjusted ¹			
	Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	1.31 (1.07-1.59)	1.27 (0.94-1.73)	1.23 (1.00-1.51)
	Adjusted for age ²			
	Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	1.24 (1.02-1.51)	1.16 (0.83-1.62)	1.18 (0.95-1.46)
	Modified by age ³			
	1-4 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	1.28 (0.71-2.31)	1.20 (0.66-2.18)	1.15 (0.66-1.99)
	5-14 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	1.50 (0.95-2.36)	1.64 (0.92-2.96)	1.50 (1.04-2.16)
	≥15 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	1.05 (0.72-1.53)	0.94 (0.54-1.63)	0.98 (0.64-1.50)
5.Dikwa	Unadjusted ¹			
	Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	1.99 (0.92-4.29)	2.92 (1.83-4.67)	2.03 (0.97-4.26)
	Adjusted for age ²			
	Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	1.86 (0.89-3.40)	2.63 (1.66-4.17)	1.90 (0.93-3.88)
	Modified by age ³			
	1-4 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	1.40 (0.25-7.77)	1.36 (0.13-14.17)	1.26 (0.22-7.00)
	5-14 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	1.50 (0.29-7.87)	—	1.50 (0.29-7.87)
	≥15 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	1.05 (0.72-1.53)	2.95 (1.81-4.81)	2.19 (1.45-3.31)
6.Monguno	Unadjusted ¹			
	Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	0.95 (0.73-1.25)	1.00 (0.70-1.41)	0.96 (0.75-1.22)
	Adjusted for age ²			
	Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	1.01 (0.76-1.33)	0.96 (0.67-1.37)	0.99 (0.78-1.27)
	Modified by age ³			
	1-4 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	1.11 (0.65-1.88)	1.08 (0.43-2.72)	1.03 (0.63-1.68)
	5-14 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)
	Male	1.08 (0.69-1.69)	0.91 (0.55-1.51)	1.07 (0.69-1.66)
	≥15 Female	1.0 (ref)	1.0 (ref)	1.0 (ref)

Male	0.90 (0.61-1.31)	0.93 (0.59-1.46)	0.92 (0.67-1.27)
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ORs and confidence intervals (CIs) were estimated using survey-weighted logistic regression. (A) Overall OR estimates in all six LGAs combined. (B) Contribution of each LGA to the combined OR estimates. ¹Model was unadjusted for any covariates, ²Model was adjusted for age group, and ³Model included an interaction between age group and sex to allow age to modify the effect of sex on crude coverage. ORs in bold show statistically significant difference. The odds of an outcome is the ratio of the probability the outcome happens to the probability the outcome does not happen. An odds ratio compares the relative odds of an outcome between two groups. In our case, our outcome is vaccine coverage, so the odds ratios compare the odds of vaccine coverage between two groups. Specifically, we report odds ratios of vaccine coverage comparing males to females. We interpret these odds ratios as follows: OR = 1 means no difference in the odds of vaccine coverage between males and females; OR > 1 means males have a higher odds of vaccine coverage than females; OR < 1 means males have a lower odds of vaccine coverage than females.