Table 2 Determinants of complete immunization in the four major provinces of Pakistan: distribution of children and bivariate analysis of predictors associated with complete immunization (BCG + DTP3 + OPV3 + measles) among children aged 12–23 months (2012–13 Pakistan Demographic and Health Survey)

Variable		unjab (n = 587)	tell d		Sindh (n = 414)	artistall I	Khyber Pakhtunkhwa (n = 419)			Balochistan (n = 272)		
variable	Children (%)	unjab (n = 587) Completely immunized (%)	P	Children (%)	Completely immunized (%)	P	Children (%)	akntunknwa (n : Completely immunized (%)	= 419) P	Children (%)	Completely immunized (%)	= 272) P
						utilizatio	on of health seri					
Sex												
Male	51.5	68.5	0.209	47.2	28.0	0.711	51.8	55-5	0.313	51.4	11.9	0.098
Female	48.5	62.8		52.8	29.8		48.2	50.2		48.6	21.1	
Birth order												
1-3	64.2	68.8	0.003	58.8	37-4	***	62.7	53.2	0.316	60.2	16.6	0.346
4-6	26.9	65.4		25.5	19.1		27.3	56.2		29.1	18.7	
7+	8.9	44.6		15.7	13.5		10.0	42.5		10.7	8.8	
						Mothe	er's characterist	ics				
Age (years)												
15-24	28.3	64.5	0.311	27.7	33.2	0.306	33.2	51.1	0.843	31.8	21.8	0.244
25-34	58.4	68.1		52.9	29.2		49.3	52.6		56.6	14.6	
35+	13.3	58.4		19.4	22.3		17.5	57.6		11.6	10.3	
Education												
None	46.4	52.8	***	62.6	16.8	***	64.7	45.3	***	82.1	14.9	0.352
Some	53.6	77.0		37-4	49.3		35-3	67.1		17.9	23.2	
						Househ	old characteris	tics				
Wealth quintile												
Lowest	14.6	40.9	0.002	39-4	7.5	***	16.0	29.8	***	55.6	10.3	0.049
Second	21.4	67.4		14.8	23.9		32.8	46.6		16.2	14.1	
Middle	21.5	63.3		10.8	28.6		24.3	59.4		16.5	33-4	
Fourth	26.6	69.9		12.7	37-3		17.4	68.5		5.4	45.5	
Highest	15.9	82.7		22.4	65.5		9.4	68.9		6.3	6.1	
Residence												
Rural	68.2	62.0	0.029	59.6	13.7	***	83.9	51.8	0.262	82.8	12.4	0.004
Urban	31.8	73.9		40.4	51.5		16.1	58.9		17.2	35.7	
						Utilizati	on of health ser	vices				
Mother made 4+ ANC visits dur	ing last											
pregnancy Yes	40.2	73.0	0.007	41.7	47.9	***	26.4	69.4	0.001	11.2	20.0	0.693
No	59.8	60.9	0.007	58.3	15.4		73.6	47.1	0.001	88.8	15.9	0.093
Mother received 2 tetanus toxoi during last pregnancy		00.9		50.5	45-7		75.0	7/		00.0	43-9	
Yes	69.8	75.2	***1	48.3	41.8	***	53.9	68.8	***	20.7	38.5	***
No	30.2	44.0		51.7	17.0		46.1	34-4		79-3	10.6	
Last birth was in a health facilit	ty											
Yes	54-5	74.8	***	60.6	40.5	***	46.4	59-5	0.005	16.2	31.6	0.024
No	45.5	54.9		39-4	11.2		53.6	47.3		83.8	13.5	
						Problems	accessing healti	h care				
Getting permission to go for tre	atment											
Big problem	11.4	59.1	0.269	25.5	14.9	***	37.5	42.7	0.007	59.9	16.5	0.964
Not a big problem	88.6	66.6		74.5	33.8		62.5	59.1		40.1	16.2	
Getting money for treatment												
Big problem	19.0	47.8	0.001	42.0	14.2	***	57.7	47.4	0.041	64.4	16.8	0.889
Not a big problem	81.0	70.0		58.0	39.6		42.3	60.5		35.6	15.7	
Distance to health facility												
Big problem	26.0	49.7	***	50.4	15.0	***	64.1	51.1	0.454	76.7	14.0	0.167
Not a big problem	74.0	71.4		49.6	43.1		35.9	56.3		23.3	24.3	
Not wanting to go alone					.0		33 3					
Big problem	49.1	58.2	0.001	63.2	22.7	***	76.9	50.8	0.199	75.5	15.1	0.445
Not a big problem	50.9	73.1		36.8	39.8		23.1	60.3	-	24.5	20.2	
Management of transport												
Big problem	28.5	54.9	0.009	59.2	18.8	***	61.9	49.2	0.125	78.7	15.1	0.466
Not a big problem	71.5	70.1		40.8	43.7		38.1	59.1	,,,,,	21.3	21.1	
01					13-1	Won	nan's autonomy					
Woman participates in househo on health care, major purchases family/relatives												
Yes	38.6	65.1	0.748	25.5	36.1	0.129	26.3	54.3	0.775	15.9	15.5	0.898
No	61.4	66.2		74.5	26.5		73.7	52.5		84.1	16.6	
The analysis excludes 16 children from mu	ıltiple births (14 twi	ins and 2 triplets).										

The analysis excludes 16 children from multiple births (14 twins and 2 triplets).

^{*** =} P < 0.001.

ANC = antenatal clinic.