

Table 5 Logistic regression estimates for time invariant determinants of childhood (age 1–5 years) vaccination in Pakistan, 2001–2015 (n = 94 292)

Determinant	Vaccine				Fully vaccinated
	BCG aOR (95%CI)	DPT/PV aOR (95%CI)	Polio aOR (95%CI)	Measles aOR (95%CI)	AOR (95%CI)
Year					
2001–2002	–	–	–	–	–
2004–2005	3.29*** (2.75–3.93)	2.95*** (2.49–3.5)	2.07*** (1.78–2.41)	2.97*** (2.53–3.48)	3.83*** (3.27–4.5)
2010–2011	3.72*** (3.13–4.43)	3.34*** (2.83–3.95)	15.47*** (12.54–19.08)	3.28*** (2.8–3.83)	2.84*** (2.42–3.35)
2014–2015	3.61*** (3.16–4.11)	3.29*** (2.9–3.72)	26.92*** (23.27–31.13)	3.16*** (2.81–3.55)	4.09*** (3.63–4.6)
Province					
Punjab	3.61*** (3.16–4.11)	3.29*** (2.9–3.72)	26.92*** (23.27–31.13)	3.16*** (2.81–3.55)	4.09*** (3.63–4.6)
Sindh	0.27*** (0.24–0.3)	0.26*** (0.24–0.29)	0.56** (0.49–0.65)	0.31*** (0.28–0.34)	0.3*** (0.27–0.33)
KPK	0.22*** (0.19–0.25)	0.21*** (0.19–0.24)	0.83** (0.7–0.98)	0.25*** (0.23–0.29)	0.28*** (0.25–0.32)
Baluchistan	0.06*** 0.06–0.07	0.08*** (0.07–0.09)	0.26*** (0.22–0.3)	0.1*** (0.09–0.11)	0.09*** (0.08–0.1)
Male sex	1.05** (1.01–1.08)	1.03* (1–1.07)	1.01 (0.96–1.06)	1.03** (1–1.07)	1.04** (1.01–1.07)
Rural residence	0.62*** (0.54–0.69)	0.66*** (0.59–0.74)	0.81*** (0.7–0.94)	0.71*** (0.64–0.79)	0.72** (0.65–0.8)
Socioeconomic status (quintile)					
Poorest	0.11 (0.09–0.13)	0.11 (0.1–0.13)	0.21 (0.17–0.26)	0.13 (0.11–0.15)	0.13*** (0.11–0.15)
Poor	0.24*** (0.21–0.28)	0.24*** (0.21–0.28)	0.32*** (0.27–0.39)	0.26*** (0.23–0.3)	0.27*** (0.23–0.3)
Middle	0.39*** (0.34–0.46)	0.4*** (0.35–0.46)	0.41*** (0.34–0.49)	0.42*** (0.37–0.48)	0.42*** (0.37–0.48)
Rich	0.6*** (0.52–0.7)	0.6*** (0.52–0.7)	0.57*** (0.47–0.69)	0.63*** (0.55–0.72)	0.6*** (0.53–0.68)
Richest	–	–	–	–	–

BCG = Bacillus Calmette–Guérin vaccine; DPT/PV = diphtheria, tetanus, pertussis vaccine combined with inactivated poliovirus vaccine aOR = adjusted odds ratios; CI = confidence interval. ***, **, * = statistically significant at 1%, 5% and 10% level respectively.