

S8 Table. Sensitivity analysis of changes in deaths for all-cause pneumonia mortality (rate ratio) by removing certain years, or aggregating by trimester, in the post-vaccine period (2012-2016), South Africa

	RR Main model	RR Start 2006	RR Excl 2009	RR Excl 2015-2016	RR Trimester aggregated
1-11 months	0.67 (0.57 to 0.74)	1.13 (0.51 to 1.57)	0.63 (0.50 to 0.71)	0.69 (0.59 to 0.76)	0.69 (0.63 to 0.75)
1-4 years	0.77 (0.71 to 0.83)	0.69 (0.59 to 0.90)	0.76 (0.68 to 0.82)	0.78 (0.72 to 0.84)	0.72 (0.66 to 0.79)
5-7 years	0.75 (0.68 to 0.81)	0.74 (0.60 to 0.95)	0.71 (0.65 to 0.79)	0.80 (0.72 to 0.88)	0.74 (0.67 to 0.81)
8-18 years	0.77 (0.68 to 0.89)	0.69 (0.59 to 0.89)	0.76 (0.66 to 0.89)	0.76 (0.67 to 0.88)	0.76 (0.67 to 0.80)
19-39 years	0.98 (0.86 to 1.21)	0.84 (0.62 to 1.24)	0.98 (0.85 to 1.23)	0.99 (0.86 to 1.23)	0.96 (0.84 to 1.25)
40-64 years	1.03 (0.85 to 1.36)	0.74 (0.64 to 0.90)	0.89 (0.84 to 1.25)	0.98 (0.83 to 1.30)	1.03 (0.85 to 1.22)
65-79 years	1.07 (0.96 to 1.17)	1.02 (0.90 to 1.12)	1.07 (0.97 to 1.13)	1.04 (0.96 to 1.14)	0.99 (0.94 to 1.09)
≥80 years	1.08 (0.96 to 1.15)	1.34 (0.86 to 1.46)	1.08 (0.95 to 1.15)	1.05 (0.95 to 1.12)	1.06 (0.92 to 1.13)

Rate ratio (RR), 95% credible interval (CrI) in brackets, significant predictions in bold