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Supplementary Table 3: Estimated components of variance for each outcome

Outcome	Log (alpha)*	Variances	
		District	Facility
		(95% CI)	(95% CI)
Primary outcomes			
Stillbirths	-3.89	0.01	0.20
Stillbirth rate (per 1,000 births)	(-4.26,-3.51)	(0.00,0.18)	(0.12,0.32)
Newborns:	-1.57	0.00	0.29
Early Neonatal Death Rate (per 1,000 live births)	(-2.20,-0.94)	(0.00,0.00)	(0.17,0.49)
Maternal: Institutional maternal mortality ratio (iMMR)	-0.81	0.06	0.58
(per 100,000 live births)	(-1.68,0.06)	(0.01,0.75)	(0.22,1.49)
Direct obstetric CFR	-0.21	0.14	0.76
	(-0.58,0.17)	(0.04,0.49)	(0.32,1.82)
Secondary outcomes			
iMMR for <u>direct</u> maternal deaths only	-0.64	0.02	0.74
	(-1.23,-0.05)	(0.00,137)	(0.31,1.78)
iMMR for indirect maternal deaths only	-11.2 (-41.5,19.0)	1.64 (0.47,5.69)	0.00
Obstatuis Casa Estality Pates (CEP)	(-41.5,19.0)	(0.47,5.69)	(0.00,0.00)
Obstetric Case Fatality Rates (CFR)	-0.34	0.17	0.85
CFR – all complications (direct & indirect)	(-0.81,0.13)	(0.06,0.53)	(0.30,2.25)
	-15.6	0.00	1.15
Indirect obstetric CFR	(-16.6,-14.7)	(0.00,0.00)	(0.15,8.62)
CFR by type of complication	(====, =,	(0.00,0.00)	(0:20,0:02)
	-0.26	0.00	0.86
Haemorrhage ^d	(-1.93,1.40)	(0.00,0.00)	(0.32,2.31)
PPH ^d	-0.34	0.00	1.44
FFII	(-1.88,1.20)	(0.00,0.00)	(0.59,3.50)
Eclampsia	-0.19	0.00	1.07
	(-1.82,1.44)	(0.00,0.00)	(0.40,2.91)
Doctorout on conside	0.25	0.52	n/a
Postpartum sepsis ^{d,e}	(-0.78,1.29)	(0.18,1.52)	
Obstructed labour		n/a	n/a
	0.24	0.00	n/a
Ruptured uterus ^{d,e}	0.24 (-1.16,1.63)	0.00 (0.00,0.00)	n/a
Commitmeticary	(-1.10,1.03)	(0.00,0.00)	
Complication rates	-1.26	0.10	0.45
Any complication	-1.26 (-1.61,-0.90)	(0.05,0.19)	0.45 (0.27,0.75)
Haemorrhage PPH	-1.62	0.08	0.26
	(-1.90,-1.34)	(0.03,0.23)	(0.16,0.42)
	-0.88	0.05	0.50
	(-1.06,-0.70)	(0.01,0.24)	(0.35,0.71)
	-0.65	0.10	0.85
Eclampsia	(-0.93,-0.38)	(0.03,0.36)	(0.61,1.19)
	(-0.55,-0.56)	(0.03,0.30)	(0.01,1.13)

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Outcome	Log Variances		riances
	(alpha)*	District	Facility
		(95% CI)	(95% CI)
Postpartum sepsis	0.15	0.20	1.93
	(-0.46,0.75)	(0.03,1.14)	(1.09,3.42)
Obstructed labour	-0.27	0.08	1.06
	(-0.58,0.04)	(0.02,0.32)	(0.67,1.68)
Ruptured uterus	0.67	0.27	0.78
	(0.02,1.33)	(0.06,1.23)	(0.54,1.13)

^{*} alpha measures the magnitude of conditional over-dispersion and is a positive quantity; log(alpha) is a rescaling used in model fitting and estimation