

WEB TABLE I DETERMINANTS OF NEONATAL MORTALITY BASED ON HIERARCHICAL LOGISTIC REGRESSION (ADJUSTED ODDS RATIO)

<i>Variable</i>	<i>Neonatal deaths / live births</i>	<i>NMR* (95%CI)</i>	<i>Model I †</i>	<i>Model II †</i>	<i>Model III †</i>
<i>Community Level Determinants</i>					
<i>Village population</i>					
0-3000	81/3693	21.9 (17.7, 27.2)	Reference		
3001-6000	62/3002	20.7 (16.1, 26.4)	1.02 (0.72, 1.46)	1.18 (0.82, 1.71)	1.17 (0.81, 1.70)
>6000	105/3697	28.4 (23.5, 34.3)	1.72 (1.17, 2.52)*	1.72 (1.16, 2.55)*	1.71 (1.15, 2.53)*
<i>Distance from nearest secondary level hospital</i>					
<10 km	77/3539	21.8 (17.4, 27.1)	0.82 (0.59, 1.14)	1.08 (0.76, 1.55)	1.08 (0.75, 1.55)
10-15 km	90/3792	23.7 (19.3, 29.1)	0.89 (0.66, 1.22)	1.11 (0.80, 1.53)	1.11 (0.80, 1.53)
>15 km	81/3061	26.5 (21.3, 32.8)	Reference		
<i>Availability of a Primary Health Center / Subcenter</i>					
Yes	157/6814	23.0 (19.7, 26.9)	Reference		
No	91/3578	25.4 (20.8, 31.1)	1.58 (1.10, 2.26)*	1.49 (1.03, 2.15)*	1.48 (1.02, 2.13)*
<i>Socioeconomic determinants</i>					
<i>Maternal education</i>					
Illiterate	82/3076	26.7 (21.5, 33.0)	–	–	–
Less than primary school	46/1214	37.9 (28.5, 50.2)	–	–	–
Primary school completed	57/2050	27.8 (21.5, 35.9)	–	–	–
Middle school completed	29/1583	18.3 (12.8, 26.2)	–	–	–
Higher education	34/2469	13.8 (9.9, 19.2)	–	–	–
<i>Paternal education</i>					
Illiterate	13/687	18.9 (11.1, 32.1)	–	–	–
Less than primary school	36/886	40.6 (29.5, 55.7)	–	–	–
Primary school completed	77/2191	35.1 (28.2, 43.7)	–	–	–
Middle school completed	43/1760	24.4 (18.2, 32.7)	–	–	–
Higher education	79/4868	16.2 (13.0, 20.2)	–	–	–
<i>Combined education of the parents</i>					
Mother Low, father High	50/2718	18.4 (14.0, 24.2)	–	1.32 (0.83, 2.12)	1.30 (0.81, 2.09)
Mother High, father Low	5/319	15.7 (6.7, 36.2)	–	1.21 (0.46, 3.18)	1.15 (0.43, 3.02)
Both High	29/2150	13.5 (9.4, 19.3)	–	Reference	
Both Low	164/5205	31.5 (27.1, 36.6)	–	2.17 (1.40, 3.35)*	2.14 (1.37, 3.34)*
<i>Paternal occupation</i>					
Government service	14/735	19.0 (11.4, 31.7)	–	1.25 (0.62, 2.50)	1.32 (0.66, 2.64)
Clerk/Shop owner/Farmer	64/2839	22.5 (17.7, 28.7)	–	1.04 (0.64, 1.68)	1.04 (0.64, 1.68)
Driver/Tailor/Mason/Potter	25/1091	22.9 (15.6, 33.6)	–	Reference	
Labourer/Watchman/Domestic servant/Sweeper	38/833	45.6 (33.4, 62.0)	–	1.76 (1.03, 2.99)*	1.77 (1.04, 3.01)*
Others	107/4894	21.9 (18.1, 26.4)	–	1.07 (0.68, 1.67)	1.06 (0.67, 1.66)
<i>Caste</i>					
Rajput	56/1694	33.1(25.5, 42.7)	–	2.04 (1.22, 3.41)*	2.03 (1.21, 3.40)*
Jat	24/1706	14.1 (9.5, 20.8)	–	Reference	
Scheduled caste /tribe	66/2375	27.8 (21.9, 35.2)	–	1.33 (0.80, 2.21)	1.33 (0.80, 2.22)
Other backward class (OBC)	66/2881	22.9 (18.0, 29.0)	–	1.34 (0.82, 2.20)	1.35 (0.82, 2.21)
Others	36/1736	20.7 (15.0, 28.6)	–	1.45 (0.85, 2.49)	1.44 (0.84, 2.48)

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<i>Variable</i>	<i>Neonatal deaths / live births</i>	<i>NMR(95%CI)</i>	<i>Model I[†]</i>	<i>Model II[†]</i>	<i>Model III[†]</i>
<i>Proximate determinants</i>					
<i>Maternal age at childbirth (Y)</i>					
< 20	43/1149	37.4 (27.9, 50.0)	–	–	1.98 (1.22, 3.21)*
20-24	118/5342	22.1 (18.5, 26.4)	–	–	1.21 (0.84, 1.74)
25-29	52/2557	20.3 (15.5, 26.6)	–	–	Reference
≥30	35/1344	26.0 (18.8, 36.0)	–	–	1.10 (0.69, 1.73)
<i>Age of neonate (Days)</i>					
0-7	167/10392	16.1 (13.8, 18.7)	–	–	–
8-28	81/10392	7.8 (6.3, 9.7)	–	–	–
<i>Sex</i>					
Female	128 /4624	27.7(23.3, 32.8)	–	–	1.15 (0.89, 1.49)
Male	120/5768	20.8(17.4, 24.8)	–	–	Reference
<i>Birth order</i>					
1	94/3781	24.9(20.4, 30.3)	–	–	1.09 (0.77, 1.53)
2	67/3248	20.6(16.3, 26.1)	–	–	Reference
3	45/1875	24.0(18.0, 32.0)	–	–	1.09 (0.73, 1.63)
≥4	42/1488	28.2(20.9, 37.9)	–	–	1.20 (0.75, 1.90)
<i>Delivery place#</i>					
Home	84/2573	32.6(26.4, 40.2)	–	–	–
Private hospital	74/1861	39.8(31.8, 49.6)	–	–	–
Government hospital	28/1010	27.7(19.2, 39.8)	–	–	–
Others	3/77	38.9(13.3, 108.4)	–	–	–

[†] *Model 1 includes only community level determinants; Model 2 includes both community level determinants and socio-economic determinants and Model 3 includes proximate determinants as well; * Significant at P value less than 0.05;#Details of 4871 live births and 59 neonatal deaths missing.*