**Supplementary Appendix**

**Table S1: Probit estimation results: Dependent variable- Probability of child dying in the neonatal period**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **VARIABLES** | **ME** | **Std. Errors** | **ME** | **Std.Errors** |
|  | **Full sample** | | **Backward states** | |
| Distance of village from DH | 0.0001\* | (0.0000) | 0.0001\*\* | (0.0000) |
| Delivery room at DH | -0.0009 | (0.0013) | -0.0008 | (0.0016) |
| 24-hr availability of gyn at DH | -0.0019 | (0.0013) | -0.0016 | (0.0015) |
| Paediatrician at DH | -0.0004 | (0.0003) | -0.0007\* | (0.0004) |
| Distance of village from CHC | -0.0000 | (0.0000) | -0.0000 | (0.0000) |
| Gynaecologists at CHC | -0.0002 | (0.0009) | 0.0001 | (0.0011) |
| Paediatrician at CHC | 0.0019\* | (0.0011) | 0.0019 | (0.0013) |
| Operation theatre at CHC | 0.0010 | (0.0011) | 0.0002 | (0.0014) |
| Referral as a prop of delivery at PHC | -0.0000 | (0.0001) | 0.0002 | (0.0004) |
| Operation theatre at PHC | 0.0001 | (0.0009) | -0.0004 | (0.0011) |
| Distance of village from PHC | -0.0001\*\* | (0.0001) | -0.0002\*\* | (0.0001) |
| Distance to private clinic/hospital | -0.0000 | (0.0000) | -0.0000 | (0.0000) |
| Hindu | 0.0027 | (0.0024) | 0.0014 | (0.0041) |
| Muslim | 0.0033 | (0.0033) | 0.0014 | (0.0046) |
| Scheduled caste/tribe | 0.0005 | (0.0009) | 0.0009 | (0.0012) |
| Wealth quintile- poor | -0.0002 | (0.0011) | -0.0006 | (0.0013) |
| Wealth quintile- middle | -0.0021\* | (0.0012) | -0.0030\*\* | (0.0014) |
| Wealth quintile- rich | -0.0040\*\*\* | (0.0013) | -0.0043\*\*\* | (0.0016) |
| Wealth quintile- richest | -0.0074\*\*\* | (0.0014) | -0.0071\*\*\* | (0.0020) |
| Father ever attended school | -0.0015 | (0.0010) | -0.0018 | (0.0012) |
| Mother ever attended school | -0.0013 | (0.0010) | -0.0012 | (0.0012) |
| Mother’s age at birth | -0.0018\*\*\* | (0.0006) | -0.0019\*\*\* | (0.0007) |
| Mother’s age at birth-square | 0.0000\*\*\* | (0.0000) | 0.0000\*\*\* | (0.0000) |
| Multiple birth | 0.0842\*\*\* | (0.0101) | 0.1015\*\*\* | (0.0126) |
| Male | 0.0038\*\*\* | (0.0008) | 0.0048\*\*\* | (0.0010) |
| Birth order second | -0.0079\*\*\* | (0.0009) | -0.0091\*\*\* | (0.0011) |
| Birth order third | -0.0086\*\*\* | (0.0010) | -0.0101\*\*\* | (0.0012) |
| Birth order fourth | -0.0071\*\*\* | (0.0012) | -0.0088\*\*\* | (0.0014) |
| Birth order fifth and above | -0.0061\*\*\* | (0.0013) | -0.0083\*\*\* | (0.0016) |
| Problems: premature labour | 0.0000 | (0.0009) | -0.0007 | (0.0011) |
| Problems: excessive bleeding | 0.0057\*\*\* | (0.0017) | 0.0078\*\*\* | (0.0021) |
| Problems: prolonged labour | 0.0017 | (0.0011) | 0.0021 | (0.0013) |
| Problems: obstructed labour | -0.0003 | (0.0009) | -0.0004 | (0.0011) |
| Problems: breech presentation | 0.0114\*\*\* | (0.0025) | 0.0134\*\*\* | (0.0031) |
| Problems: convulsion/high b.p | 0.0011 | (0.0020) | 0.0001 | (0.0023) |
| Rajasthan | 0.0139\*\* | (0.0064) | 0.0056\*\* | (0.0027) |
| Uttar Pradesh | 0.0108\*\* | (0.0050) | 0.0129\*\*\* | (0.0024 |
| Bihar | 0.0175\*\*\* | (0.0048) | 0.0037 | (0.0023) |
| Assam | 0.0090\*\* | (0.0045) | 0.0002 | (0.0026) |
| West Bengal | 0.0056 | (0.0044) | -0.0007 | (0.0031) |
| Jharkhand | 0.0044 | (0.0046) | -0.0050 | (0.0033) |
| Orissa | 0.0003 | (0.0046) | -0.0034 | (0.0030) |
| Chattisgarh | 0.0019 | (0.0045) | 0.0072\*\* | (0.0033) |
| Madhya Pradesh | 0.0132\*\* | (0.0057) |  |  |
| Gujarat | 0.0051 | (0.0041) |  |  |
| Maharashtra | -0.0063\*\* | (0.0030) |  |  |
| Andhra Pradesh | -0.0034 | (0.0035) |  |  |
| Karnataka | 0.0095 | (0.0062) |  |  |
| Kerala | 0.0075 | (0.0053) |  |  |
| Jammu and Kashmir | 0.0174\*\* | (0.0066) |  |  |
| Himachal Pradesh | -0.0053 | (0.0034) |  |  |
| Punjab | -0.0124\*\*\* | (0.0026) |  |  |
| Uttarakhand | 0.0198\*\* | (0.0081) |  |  |
| Haryana | -0.0100\*\*\* | (0.0028) |  |  |
| Observations | 99,735 |  | 76,072 |  |

**Table 1B: Robustness Check 4: Dependent variable: probability of neonatal death**

|  |  |  |
| --- | --- | --- |
|  | ME | SE |
| Distance of village from DH | 0.0001 | (0.0001) |
| Delivery room at DH | -0.0010 | (0.0017) |
| 24-hr availability of gyn at DH | 0.0013 | (0.0029) |
| Paediatrician at DH | 0.0000 | (0.0006) |
| Distance of village from DH\*24-hr availability of gyn at DH | -0.0000 | (0.0001) |
| Distance of village from DH\* Paediatrician at DH | -0.0000 | (0.0000) |
| Distance of village from CHC | -0.0000 | (0.0000) |
| Gynaecologists at CHC | -0.0017 | (0.0015) |
| Paediatrician at CHC | 0.0024 | (0.0019) |
| Operation theatre at CHC | 0.0018 | (0.0014) |
| Distance of village from CHC\* Gynaecologists at CHC | 0.0001 | (0.0001) |
| Distance of village from CHC\* Paediatrician at CHC | -0.0000 | (0.0001) |
| Referral as a share of delivery (PHC) | 0.0000 | (0.0001) |
| Operation theatre at PHC | -0.0009 | (0.0010) |
| Distance of village from PHC | -0.0001\* | (0.0001) |
| Distance to pvt clinic/hospital | -0.0001 | (0.0000) |
| State dummy variables | Yes |  |
| Observations | 99735 |  |

Standard errors are in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1. As in Table 3, all socioeconomic and birth related characteristics are included.