Supplementary Table :

|  |  |  |
| --- | --- | --- |
|  | **COR[95% CI]** | **P Value** |
| **Mother age** |  |  |
| 15-19 | Ref |  |
| 20-24 | 1.11[1.08-1.13] | <.001 |
| 25+ | 1.19[1.18-1.21] | <.001 |
| **Marital status** |  |  |
| Never Married | 1.00[0.978-1.03] | 0.641 |
| Married/Living Together | 0.87[0.85-0.90] | <.001 |
| Divorced/Separated/Widowed | Ref |  |
| **Residence** |  |  |
| Urban | 1.89[1.87-1.92] | <.001 |
| Rural | Ref |  |
| **Mother Education** |  |  |
| No education | Ref |  |
| Primary | 1.72[1.69-1.75] | <.001 |
| Secondary | 2.82[2.78-2.86] | <.001 |
| Higher | 5.76[5.59-5.93] | <.001 |
| **Father Education** |  |  |
| No education | Ref |  |
| Primary | 2.03[1.99-2.08] | <.001 |
| Secondary | 2.87[2.77-2.88] | <.001 |
| Higher | 4.71[4.53-4.89] | <.001 |
| **Father Age** |  |  |
| <= 24 | Ref |  |
| 25-29 | 1.21[1.17-1.26] | <.001 |
| 30-34 | 1.38[1.34-1.43] | <.001 |
| 35+ | 1.40[1.36-1.44] | <.001 |
| **Mother work** |  |  |
| No | Ref |  |
| Yes | 1.34[1.32-1.36] | <.001 |
| **Wealth index Status** |  |  |
| Poor | Ref |  |
| Middle | 1.50[1.48-1.53] | <.001 |
| Rich | 2.46[2.42-2.50] | <.001 |
| **Family Members** |  |  |
| <= 3 | 1.27[1.25-1.29] | <.001 |
| > 3 | Ref |  |
| **Household Head Sex** |  |  |
| Male | Ref |  |
| Female | 1.16[1.15-1.18] | <.001 |
| **ANC** |  |  |
| Less4 | Ref |  |
| Above4 | 2.41[2.36-2.45] | <.001 |
| **TV** |  |  |
| No | Ref |  |
| Yes | 2.19[2.16-2.21] | <.001 |
| **Radio** |  |  |
| No | 1.23[1.21-1.25] | <.001 |
| Yes | Ref |  |
| **Media** |  |  |
| No | Ref |  |
| Yes | 1.70[1.68-1.72] | <.001 |
| **C-section** |  |  |
| No | Ref |  |
| Yes | 2.38[2.30-2.46] | <.001 |
| **Type of Toilet Facility** |  |  |
| Modern Toilet | 2.04[2.02-2.07] | <.001 |
| Other | Ref |  |
| **Place of delivery** |  |  |
| Home | Ref |  |
| Hospital Facility | 2.58[2.53-2.63] | <.001 |
|  |  |  |
| **Birth order** |  |  |
| 1-3 | 2.39[2.34-2.45] | <.001 |
| 4-6 | 1.55[1.51-1.59] | <.001 |
| 7-17 | Ref |  |
| **Fever** |  |  |
| No | 1.07[1.04-1.09] | <.001 |
| Yes | Ref |  |
| **Cough** |  |  |
| No | Ref |  |
| Yes | 1.07[1.05-1.10] | <.001 |
| **Diarrhea** |  |  |
| No | 1.25[1.22-1.28] | <.001 |
| Yes | Ref |  |

Model Information:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Model | N | LL (null) | LL(Model) | df | AIC | BIC | RMSE |
|  | 282,098 | -100662.1 | -91546.69 | 31 | 183155.4 | 183482.4 | 0.307415 |

ROC Analysis :

|  |  |  |  |
| --- | --- | --- | --- |
| Obs | ROC area | Std. err. | Asymptotic normal  [95% CI] |
| 282,098 | 0.7196 | 0.0015 | [0.716-0.722] |

