**S1 Appendix: Variable description file**

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| **Categories** | **Control Variables** | **Description** |
|  | **Age** |  |
| 1 | 0-5 | 0-5 Months |
| 2 | 6-9 | 6-9 Months |
| 3 | 10-12 | 10-12 Months |
| 4 | 13-36 | 13-36 Months |
| 5 | 37-59 | 37-59 Months |
|  | **Sex** |  |
| 1 | Male |  |
| 2 | Female |  |
|  | **Birth order and Interval** |  |
| 1 | first | First order |
| 2 | 2-3 & < 24 months | 2-3 birth order and less than 24 months interval |
| 3 | 2-3 & > 23 months | 2-3 birth order and greater than 23 months interval |
| 4 | 4+ & < 24 months | More than 4 birth order and less than 24 months birth interval |
| 5 | 4+ & > 23 months | More than 4 birth order and greater than 23 months birth interval |
|  | **Size of Child at birth** |  |
| 1 | Small | (Very small, smaller than average) |
| 2 | Average | Average |
| 3 | Large | (Very large, larger than average) |
|  | **Mother's age at the time of birth (in years** |  |
| 1 | <20 | 15-19 years |
| 2 | 20-29 | 20-29 years |
| 3 | 30-49 | 30-49 years |
|  | **Mother's BMI** |  |
| 1 | Underweight | BMI cut off point less than 18.5 |
| 2 | Normal | BMI cut off point 18.5 to 24.9 |
| 3 | Overweight and Obese | BMI cut off point 25 to >=30 |
|  | **Mother's education** |  |
| 1 | Not educated | Illiterate |
| 2 | Primary | Educated up to 5th class |
| 3 | secondary | Educated up to 10th/Matric |
| 4 | Higher | Educated up to 12th and above |
|  | **Health care variable** |  |
|  | **Antenatal care** |  |
| 1 | No ANC | Three antenatal visit or less |
| 2 | Full ANC | |  | | --- | | Full antenatal care is at least four antenatal visits, at least one tetanus toxoid (TT) injection and iron folic acid tablets or syrup taken for 100 or more days | |
|  | **Child feeding variables** |  |
|  | **Initiation of breastfeeding** |  |
| 1 | Within one hour of birth | Breastfed within first hour |
| 2 | After one hour | Breastfed first hour and above |
|  | **Duration of breastfeeding(in months)** |  |
| 1 | 0-5 |  |
| 2 | 6-11 |  |
| 3 | 12-17 |  |
| 4 | 18-59 |  |
|  | **Drank from a bottle with a nipple** |  |
| 1 | No |  |
| 2 | Yes |  |
|  | **Socio-economic variables** |  |
|  | **Place of residence** |  |
| 1 | Urban |  |
| 2 | Rural |  |
|  | **Caste** |  |
| 1 | SC and ST | Schedule Caste(SC) and Schedule Tribes(ST) |
| 2 | OBC | Other Backward Class (OBC) |
| 3 | others | Other than Schedule Caste/Schedule Tribes/marginalized group, and Other Backward class |
|  | **Religion** |  |
| 1 | Hindu |  |
| 2 | Muslim |  |
| 3 | Others | (Christian, bauds, Jainism, etc.) these are minority group in india |
|  | **Wealth Index** |  |
| 1 | Poorest |  |
| 2 | Poorer |  |
| 3 | Middle |  |
| 4 | Richer |  |
| 5 | Richest |  |
|  | **Household environment variable** |  |
|  | **Type of house** |  |
| 1 | Kaccha |  |
| 2 | Semi-Pucca |  |
| 3 | Pucca |  |
|  | **Toilet facility** |  |
| 1 | Improved | Flush toilet to piped sewer system, to septic tank or to pit latrine; Pit toilet latrine ventilated improved pit (VIP) or with slab and Composting toilet |
| 2 | Not Improved | Flush to somewhere else or don’t know where; Pit latrine without slab/open pit; No facility/uses bush/field; Dry toilet; Other |
|  | **Fuel used for cooking** |  |
| 1 | Smoked | (Coal, lignite, charcoal, wood, straw/shrubs/grass, agricultural crop and animal dung) |
| 2 | Smokeless | (Electricity, LPG, biogas and kerosene) |
|  | **Source of drinking water** |  |
| 1 | Improved | Piped water into dwelling or to yard/plot; Public tap/standpipe; Tube well or borehole; Protected well; Protected spring and Bottled water; Rain water |
| 2 | Unimproved | Unprotected dug well; Unprotected well; Unprotected spring; River/dam/lake/ponds/stream/canal/irrigation channel; Tanker truck; Cart with small tank; Other |
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