**Appendices**



**Appendix A**. Height-for-age z-score (HAZ), by age and socio-economic status

Source: Author’s analysis of 2015 National Nutrition Survey

**Appendix B. Operational definition of independent variables**

|  |  |  |  |
| --- | --- | --- | --- |
| Domain | Variable | Category | Operational definition |
| Non-modifiable factors |
| Non-modifiable factors | Sex of child (binary) | Female |   |
|   | Male |
| Child’s age (continuous) | Age in months |   |
| Maternal height (continuous) | Height in centimeters |   |
| Modifiable factors |
| **Basic Factors** |
| Household and parental factors  | Gender of household head (binary) | Female |   |
| Male |
| Maternal education (binary) | High school undergraduate or below |   |
| High school graduate and above |
| Maternal age at birth (continuous) | Age in years |   |
| Systolic blood pressure (binary) | 140mmHg or above  |   |
| Below 140mmHg |
| Maternal Body Mass Index (ordinal) | Underweight |   |
| Normal |
| Overweight |
| Obese |
| Civil Status | Single |  |
| Married |  |
| Separated/Widowed |  |
| Underlying Factors |
| Food insecurity | Food insecurity score of the household (categorical) | High food insecurity | The food security (FD) scores were categorized into tertiles (3). FD scores were predicted using Principal Component Analysis of five (5) food security-related questions. |
| Medium food insecurity |
| Low food insecurity |
| Feeding practices  | Minimum Meal Frequency (binary) | Yes | Breastfed and non-breastfed children 6-23.9 months of age who receive solid, semi-solid, or soft foods or milk feed the minimum number of times or more.  |
| No |
| Breastfeeding during the first hour  | Yes |   |
| No |   |
| Dietary Diversity Score (count)  | 0-7 | Number of food groups consumed by the child the previous day.  |
| Environment | Handwashing before preparing the food of the child (categorical) | No |   |
| Always  |
| Sometimes |
| Dispose garbage by dumbing or throwing (binary) | Yes |
| No |
| Availability of safe drinking water | Yes |
| No |
| Availability of toilet (categorical) | None |
| Yes, water sealed |
| Yes, not sealed |
| Healthcare services  | Timely prenatal care (binary) | Yes | Mothers with on time (within the first trimester) first prenatal check-up during their pregnancy.  |
| No |
| Quality of prenatal care (categorical) | Low | The quality scores were categorized into tertiles (3). Prenatal quality scores were predicted using Principal Component Analysis (PCA) using variables pertaining to services conducted during prenatal care: weight and height measurement, blood pressure treatment/diagnosis, blood test, urinalysis, ultrasound, micronutrient supplementation, tetanus toxoid, and nutrition counselling. |
| Medium |
| High |
| Place of delivery (categorical) | Home |   |
| Government hospital |
| Government clinics |
| Private hospital/clinic |   |
| Complete DPT vaccine | Yes |   |
| No |
| Iron supplementation in children | Yes |   |
| No |
| Vitamin A supplementation in children  | Yes |   |
| No |
| Post-natal care  | Yes |
| No |
| Deworming  | Yes |   |
| No  |