Table 1. Distribution of outcome variables, by covariates (N=788)

|  | N (%) | HAZ-scores  Mean  95% CI | WAZ- scores Mean  95% CI | BAZ- scores  Mean  95% CI |
| --- | --- | --- | --- | --- |
| Gender1 |  |  |  |  |
| Boys | 388 (49.2) | -0.11  -0.24, 0.02 | -0.35  -0.52, -0.19 | -0.47  -0.64, -0.31 |
| Girls | 400 (50.8) | 0.08  -0.05, 0.21 | 0.04  -0.19, 0.12 | -0.09  -0.24, 0.06 |
| *p-value* |  | *0.042* | *0.006* | *<0.001* |
| Setting1 |  |  |  |  |
| Hospital | 237 (30.1) | -0.67  -0.82, -0.52 | -0.98  -1.15, -0.81 | -0.84  -0.99, -0.69 |
| School | 551 (69.9) | 0.27  -0.82, -0.52 | -0.03  -0.17, 0.11 | -0.03  -0.17, 0.11 |
| *p-value* |  | *<0.001* | *<0.001* | *<0.001* |
| Maternal education2 |  |  |  |  |
| No | 27 (3.7) | -0.77  -1.27, -0.29 | -1.24  -1.73, -0.74 | -1.12  -1.55, -0.68 |
| Primary | 144 (19.9) | -0.73  -0.93, -0.52 | -1.01  -1.25, -0.77 | -0.85  -1.08, -0.62 |
| Secondary | 221 (30.5) | -0.12  -0.28, 0.04 | -0.34  -0.54, -0.15 | -0.44  -0.64, -0.24 |
| Higher secondary | 186 (25.7) | 0.24  0.04, 0.43 | 0.13  -0.10, 0.37 | -0.07  -0.28, 0.19 |
| Tertiary | 147 (20.3) | 0.55  0.35, 0.75 | 0.51  0.27, 0.74 | 0.22  -0.03, 0.48 |
| *p-value* |  | *<0.001* | *<0.001* | *<0.001* |
| Family income2 (Taka/month) |  |  |  |  |
| <8 thousand | 105 (14.5) | -0.49  -0.72, -0.26 | -0.82  -1.11, -0.53 | -0.79  -1.07, -0.52 |
| 8-<20 thousand | 341 (47.0) | -0.17  -0.31, -0.03 | -0.44  -0.61, -0.28 | -0.53  -0.69, -0.37 |
| >20-<30 thousand | 166 (22.9) | 0.41  0.22, 0.59 | 0.41  0.17, 0.65 | 0.19  -0.07, 0.44 |
| >30 thousand | 113 (15.6) | 0.13  -0.14, 0.39 | 0.13  -0.17, 0.42 | 0.05  -0.22, 0.33 |
| *p-value* |  | *<0.001* | *<0.001* | *<0.001* |
| Birth weight2 |  |  |  |  |
| Low | 68 (9.5) | -0.11  -0.41, 0.20 | -0.56  -0.89, -0.22 | -0.78  -1.12, -0.44 |
| Normal | 580 (80.8) | -0.11  -0.21, 0.00 | -0.29  -0.42, -0.16 | -0.36  -0.49, -0.24 |
| High | 69 (9.6) | 0.54  0.22, 0.87 | 0.70  0.28, 1.12 | 0.49  0.05, 0.94 |
| *p-value* |  | *<0.001* | *<0.001* | *<0.001* |
| Childhood diseases1 |  |  |  |  |
| No | 598 (82.7) | 0.01  -0.10, 0.12 | -0.13  -0.26, -0.01 | -0.24  -0.37, -0.11 |
| Yes | 125 (17.3) | -0.24  -0.48, -0.00 | -0.57  -0.85, -0.29 | -0.65  -0.91, -0.38 |
| *p-value* |  | *0.059* | *0.006* | *0.009* |
| Dental caries2 |  |  |  |  |
| No | 211 (26.8) | 0.38  0.21, 0.55 | 0.38  0.17, 0.59 | 0.17  -0.04, 0.39 |
| Low (dmft+DMFT = 1-2) | 110 (26.6) | 0.15  -0.03, 0.33 | 0.05  -0.16, 0.26 | -0.10  -0.31, 0.11 |
| Moderate (dmft+DMFT = 2-5) | 136 (29.9) | -0.18  -0.35, -0.01 | -0.42  -0.62, 0.23 | -0.50  -0.70, -0.31 |
| Severe (dmft+DMFT = 6-max) | 131 (16.6) | -0.61  -0.82, -0.41 | -0.96  -1.21, -0.70 | -0.87  -1.11, -0.63 |
| *p-value* |  | *<0.001* | *<0.001* | *<0.001* |
| Dental sepsis1 |  |  |  |  |
| No | 506 (64.2) | 0.19  0.07, 0.30 | 0.09  -0.04, 0.23 | -0.07  -0.21, 0.07 |
| Yes | 282 (35.8) | -0.38  -0.53, -0.23 | -0.66  -0.84, -0.48 | -0.65  -0.82, -0.48 |
| *p-value* |  | *<0.001* | *<0.001* | *<0.001* |

1t test 2ANOVA

Table 2. Association between HAZ, WAZ and BAZ scores and caries and sepsis (unadjusted and adjusted linear regression model) (N=715)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Outcome |  | Unadjusted | | | Adjusted\* | | |
|  | coefficient | 95% CI | *p* | coefficient | 95% CI | *p* |
| HAZ | Dental caries  (ref: dmft+DMFT=0) |  |  |  |  |  |  |
| Low | -0.22 | -0.49, 0.04 | *0.093* | -0.07 | -0.32, 0.17 | *0.557* |
| Moderate | -0.54 | -0.79, -0.29 | *<0.001* | -0.24 | -0.48, 0.00 | *0.051* |
|  |  |  |  |  |  |  |
| Severe | -0.97 | -1.26, -0.67 | *<0.001* | -0.40 | -0.69, -0.10 | *0.009* |
| Dental sepsis (ref: pufa+PUFA=0) |  |  |  |  |  |  |
| Yes | -0.60 | -0.79, -0.40 | *<0.001* | -0.23 | -0.42, -0.03 | *0.023* |
|  |  |  |  |  |  |  |  |
| WAZ | Dental caries |  |  |  |  |  |  |
| Low | -0.34 | -0.65, -0.03 | *0.033* | -0.16 | -0.45, 0.13 | *0.288* |
| Moderate | -0.80 | -1.10, -0.50 | *<0.001* | -0.43 | -0.72, -0.15 | *0.003* |
|  |  |  |  |  |  |  |
| Severe | -1.27 | -1.62, -0.92 | *<0.001* | -0.59 | -0.94, -0.24 | *0.001* |
| Dental sepsis |  |  |  |  |  |  |
| Yes | -0.78 | -1.02, -0.55 | *<0.001* | -0.33 | -0.56, -0.10 | *0.005* |
|  |  |  |  |  |  |  |  |
| BAZ | Dental caries |  |  |  |  |  |  |
| Low | -0.28 | -0.60, 0.03 | *0.075* | -0.16 | -0.46, 0.14 | *0.301* |
| Moderate | -0.68 | -0.98, -0.38 | *<0.001* | -0.43 | -0.72, -0.13 | *0.005* |
| Severe | -0.96 | -1.31, -0.61 | *<0.001* | -0.50 | -0.87, -0.13 | *0.007* |
| Dental sepsis |  |  |  |  |  |  |
|  | Yes | -0.60 | -0.84, -0.37 | *<0.001* | -0.29 | -0.53, -0.05 | *0.019* |

\* Adjusted for maternal education, family income; study setting; birth weight and childhood disease