Table 2: Regression analysis predicting perceived Dengue risk

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variables** | **Overall** | ***Bivariate regression analysis*** | | | | | ***Multivariable regression analysis*** | | | | |
| **Mean (SD)** | **B** | **SE** | **t** | **ꞵ** | ***p*-value** | **B** | **SE** | **t** | **ꞵ** | ***p*-value** | |
| **Age** |  | 0.39 | 0.20 | 1.91 | 0.05 | 0.057 | 0.31 | 0.21 | 1.49 | 0.04 | 0.136 | |
| **Education level** |  |  |  |  |  |  |  |  |  |  |  | |
| Below university | 53.07 (11.54) | 3.36 | 0.64 | 5.20 | 0.13 | **<0.001** | 3.49 | 0.68 | 5.11 | 0.14 | **<0.001** | |
| University | 49.71 (12.25) | Ref. |  |  |  |  | Ref. |  |  |  |  | |
| **Permanent Residence** |  |  |  |  |  |  |  |  |  |  |  | |
| Rural | 50.82 (12.61) | Ref. |  |  |  |  | Ref. |  |  |  |  | |
| Urban | 52.04 (11.31) | 1.22 | 0.73 | 1.68 | 0.05 | 0.094 | 1.01 | 0.79 | 1.27 | 0.04 | 0.203 | |
| Semi-urban | 50.83 (12.59) | 0.01 | 0.94 | 0.01 | <0.01 | 0.990 | 0.09 | 0.95 | 0.10 | <0.01 | 0.918 | |
| **Monthly family income** |  |  |  |  |  |  |  |  |  |  |  | |
| > 20,000 BDT | 50.66 (13.09) |  |  |  |  |  | Ref. |  |  |  |  | |
| 20,000-30,000 BDT | 51.71 (11.86) | 1.05 | 0.75 | 1.40 | 0.05 | 0.161 | -.08 | 0.81 | -0.11 | <0.01 | 0.914 | |
| > 30,000 BDT | 51.70 (10.85) | 1.03 | 0.96 | 1.08 | 0.03 | 0.282 | 0.02 | 1.08 | 0.02 | <0.01 | 0.982 | |
| **Gender** |  |  |  |  |  |  |  |  |  |  |  | |
| Male | 52.46 (12.10) |  |  |  |  |  | Ref. |  |  |  |  | |
| Female | 50.33 (11.85) | 2.12 | 0.64 | 3.27 | 0.08 | **0.001** | 1.97 | 0.66 | 2.96 | 0.08 | **0.003** | |
| **Marital status** |  |  |  |  |  |  |  |  |  |  |  | |
| Unmarried | 51.40 (11.86) | Ref. |  |  |  |  |  |  |  |  |  | |
| Married | 51.41 (13.85) | 0.00 | 1.24 | 0.01 | 0.08 | 0.994 | 0.84 | 1.27 | 0.66 | 0.01 | 0.509 | |
| **Family type** | | | | | | | | | | | | |
| Nuclear | 51.31 (12.77) | Ref. |  |  |  |  |  |  |  |  |  | |
| Large | 51.49 (11.20) | 0.18 | 0.65 | 0.28 | 0.08 | 0.782 | 0.80 | 0.67 | 1.20 | 0.03 | 0.231 | |
| **Employment status** | | | | | | | | | | | | |
| Employed | 50.63 (13.39) | Ref. |  |  |  |  |  |  |  |  |  | |
| Unemployed | 51.56 (11.71) | 0.92 | 0.86 | 1.08 | 0.02 | 0.282 | 1.39 | 0.89 | 1.56 | 0.04 | 0.119 | |
| **Previous history of Dengue** |  |  |  |  |  |  |  |  |  |  |  | |
| Yes | 52.76(12.43) | 1.16 | 0.74 | 1.57 | 0.04 | **0.018** | 1.01 | 0.65 | 0.64 | 0.03 | **0.029** | |
| No | 50.96(11.85) | Ref. |  |  |  |  | Ref. |  |  |  |  | |
| **Family history of dengue** |  |  |  |  |  |  |  |  |  |  |  | |
| Yes | 52.26(11.57) | 1.16 | 0.74 | 1.57 | 0.01 | 0.117 | **-0.02** | 0.80 | -0.03 | <0.01 | 0.980 | |
| No | 51.09(12.16) | Ref. |  |  |  |  | Ref. |  |  |  |  | |
| **Previous history of vector-borne disease** | | | | | | | | | | | | |
| Yes | 52.73(11.01) | 1.73 | 0.74 | 2.26 | 0.07 | **0.024** | 0.96 | 0.82 | 1.69 | 0.04 | **0.048** | |
| No | 50.99(12.29) | Ref. |  |  |  |  |  |  |  |  |  | |
| **Average sleeping time** | | | | | | | | | | |  | |
| Less than 7 hours | 51.29(11.41) | 0.45 | 1.33 | 0.34 | 0.01 | 0.731 | 1.23 | 1.33 | 0.92 | 0.05 | 0.356 | |
| 7 to 9 hours | 51.57(12.19) | 0.74 | 1.32 | 0.56 | 0.03 | 0.575 | 1.11 | 1.32 | 0.84 | 0.04 | 0.399 | |
| More than 9 hours | 50.83(14.39) | Ref. |  |  |  |  | Ref. |  |  |  |  | |
| **Daily social media usage** | | | | | | | | | | | | |
| Less than 2 hours | 52.08 (10.77) | 0.71 | 2.00 | 0.36 | <0.01 | 0.720 | 0.57 | 1.98 | 0.29 | <0.01 | 0.773 | |
| 2 to 4 hours | 51.39 (12.37) | 0.03 | 0.66 | 0.05 | <0.01 | 0.961 | -0.02 | 0.66 | 0.04 | <0.01 | 0.965 | |
| More than 4 hours | 51.36 (11.78) | Ref. |  |  |  |  | Ref. |  |  |  |  | |
| **Father’s occupation** |  |  |  |  |  |  |  |  |  |  |  | |
| Job holder | 51.75 (12.46) | 4.77 | 1.77 | 2.68 | 0.19 | **0.007** | 3.69 | 1.81 | 2.03 | 0.15 | **0.042** | |
| Businessman | 51.58 (11.33) | 4.60 | 1.80 | 2.55 | 0.18 | **0.011** | 3.75 | 1.79 | 2.09 | 0.14 | **0.037** | |
| Others | 50.99 (11.90) | 4.00 | 1.89 | 2.12 | 0.12 | **0.034** | 4.32 | 1.89 | 2.29 | 0.13 | **0.022** | |
| Unemployed | 46.98 (12.18) | Ref. |  |  |  |  | Ref. |  |  |  |  | |
| **Father’s Educational qualification** | | | | | | | | | | | | |
| Illiterate/ primary level | 48.52 (14.81) | 3.53 | 1.07 | 3.29 | 0.14 | **0.001** | 2.74 | 1.17 | 2.33 | 0.07 | **0.020** | |
| Secondary/Higher Secondary | 52.06 (11.57) | 3.08 | 1.04 | 2.96 | 0.12 | **0.003** | 0.37 | 0.77 | 0.49 | 0.01 | 0.626 | |
| University level | 51.60 (11.57) | Ref. |  |  |  |  | Ref. |  |  |  |  | |
| **Self-perception about own mental health** | | | | | | | | | | | | |
| Good | 51.35 (12.37) | Ref. |  |  |  |  | Ref. |  |  |  |  | |
| Bad | 51.56 (10.61) | 0.20 | 0.79 | 0.26 | <0.01 | 0.797 | -0.67 | 0.96 | -0.70 | -0.01 | 0.485 | |

*Note:* B=unstandardized regression coefficient; SE=Standard error; β=standardized regression coefficient; Bold indicates significant; †F(16,1341)= 3.36; p<0.001, R2Adj=0.027.