Table 3: Regression analysis Predicting Dengue prevention practice

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variables** | **Overall** | ***Bivariate regression analysis*** | | | | | ***Multivariable regression analysis*** | | | | |
| **Mean (SD)** | **B** | **SE** | **t** | **ꞵ** | ***p*-value** | **B** | **SE** | **t** | **ꞵ** | ***p*-value** |
| **Age** |  | 0.26 | 0.24 | 1.05 | 0.02 | 0.292 | 0.22 | 0.26 | 0.86 | 0.02 | 0.392 |
| **Education level** |  |  |  |  |  |  |  |  |  |  |  |
| Below university | 56.10 (14.70) | 1.06 | 0.78 | 1.34 | 0.03 | 0.179 | 1.52 | 0.83 | 1.83 | 0.05 | 0.068 |
| University | 55.04 (15.01) | Ref. |  |  |  |  | Ref. |  |  |  |  |
| **Permanent Residence** |  |  |  |  |  |  |  |  |  |  |  |
| Rural | 54.79 (15.25) | Ref. |  |  |  |  | Ref. |  |  |  |  |
| Urban | 56.23 (13.80) | 1.22 | 0.73 | 1.62 | 0.04 | 0.105 | 1.32 | 0.97 | 1.37 | 0.04 | 0.172 |
| Semi-urban | 55.34 (15.08) | .55 | 1.14 | 0.48 | 0.01 | 0.629 | 0.45 | 1.16 | 0.39 | 0.01 | 0.696 |
| **Monthly family income** |  |  |  |  |  |  |  |  |  |  |  |
| > 20,000 BDT | 54.70 (15.55) |  |  |  |  |  | Ref. |  |  |  |  |
| 20,000-30,000 BDT | 56.12 (14.46) | 1.41 | .90 | 1.56 | 0.04 | 0.119 | 0.24 | 1.00 | 0.25 | <0.01 | 0.804 |
| > 30,000 BDT | 55.43 (13.08) | 0.73 | 1.16 | 0.63 | 0.01 | 0.531 | -0.83 | 1.32 | -0.63 | -0.02 | 0.528 |
| **Gender** |  |  |  |  |  |  |  |  |  |  |  |
| Male | 55.54 (14.95) |  |  |  |  |  | Ref. |  |  |  |  |
| Female | 55.61 (14.15) | 0.06 | 0.79 | 0.09 | <0.01 | 0.930 | -0.14 | 0.81 | -0.18 | <0.01 | 0.858 |
| **Marital status** |  |  |  |  |  |  |  |  |  |  |  |
| Unmarried | 55.47 (14.41) | Ref. |  |  |  |  |  |  |  |  |  |
| Married | 56.77 (16.27) | 1.29 | 1.50 | 0.86 | 0.02 | 0.389 | 2.21 | 1.55 | 1.42 | 0.03 | 0.155 |
| **Family type** | | | | | | | | | | | |
| Nuclear | 55.61 (14.98) | 0.07 | 0.79 | 0.09 | <0.01 | 0.929 | -.13 | .82 | -0.17 | <0.01 | 0.867 |
| Large | 55.54 (14.11) | Ref. |  |  |  |  |  |  |  |  |  |
| **Employment status** | | | | | | | | | | | |
| Employed | 53.80 (15.59) | Ref. |  |  |  |  |  |  |  |  |  |
| Unemployed | 55.94 (14.31) | 2.13 | 1.04 | 2.05 | 0.05 | **0.041** | 2.44 | 1.09 | 2.24 | 0.06 | **0.025** |
| **Previous history of Dengue** |  |  |  |  |  |  |  |  |  |  |  |
| Yes | 55.29 (14.42) | 0.36 | 0.89 | 0.40 | 0.01 | 0.691 | 2.38 | 1.17 | 2.04 | 0.07 | **0.042** |
| No | 55.66 (14.60) | Ref. |  |  |  |  | Ref. |  |  |  |  |
| **Family history of dengue** |  |  |  |  |  |  |  |  |  |  |  |
| Yes | 55.63 (14.06) | 0.07 | 0.74 | 0.09 | <0.01 | 0.930 | -0.11 | 0.98 | 0.26 | <0.01 | 0.909 |
| No | 55.55 (14.73) | Ref. |  |  |  |  | Ref. |  |  |  |  |
| **Previous history of vector-borne disease** | | | | | | | | | | | |
| Yes | 57.21 (12.97) | 2.13 | 0.92 | 2.30 | 0.06 | **0.021** | 3.42 | 1.13 | 3.01 | 0.09 | **0.003** |
| No | 55.07 (14.98) | Ref. |  |  |  |  | Ref. |  |  |  |  |
| **Average sleeping time** | | | | | | | | | | |  |
| Less than 7 hours | 55.31 (14.67) | 2.72 | 1.61 | 1.69 | 0.09 | 0.091 | 2.79 | 1.63 | 1.71 | 0.09 | 0.087 |
| 7 to 9 hours | 56.22 (14.19) | 3.63 | 1.60 | 2.27 | 0.12 | **0.023** | 3.56 | 1.61 | 2.21 | 0.12 | **0.028** |
| More than 9 hours | 52.59 (16.05) | Ref. |  |  |  |  | Ref. |  |  |  |  |
| **Daily social media usage** | | | | | | | | | | | |
| Less than 2 hours | 56.76 (15.05) | 1.10 | 2.42 | 0.46 | 0.01 | 0.648 | 1.01 | 2.42 | 0.42 | 0.01 | 0.676 |
| 2 to 4 hours | 55.40 (15.25) | -0.25 | 0.80 | -0.32 | <0.01 | 0.751 | -0.15 | 0.81 | -0.19 | <0.01 | 0.849 |
| More than 4 hours | 55.66 (13.91) | Ref. |  |  |  |  | Ref. |  |  |  |  |
| **Father’s occupation** |  |  |  |  |  |  |  |  |  |  |  |
| Job holder | 55.58 (14.50) | 1.39 | 2.15 | 0.65 | 0.19 | 0.518 | -0.49 | 2.21 | -0.22 | -0.01 | 0.822 |
| Businessman | 55.06 (13.85) | 0.87 | 2.18 | 0.40 | 0.18 | 0.689 | -0.39 | 2.19 | -0.18 | -0.01 | 0.859 |
| Others | 56.88 (15.81) | 2.69 | 2.29 | 1.17 | 0.12 | 0.241 | 2.35 | 2.31 | 1.02 | 0.06 | 0.308 |
| Unemployed | 54.18 (15.52) | Ref. |  |  |  |  |  |  |  |  |  |
| **Father’s Educational qualification** | | | | | | | | | | | |
| Illiterate/ primary level | 52.76 (16.61) | Ref. |  |  |  |  | Ref. |  |  |  |  |
| Secondary/Higher Secondary | 55.42 (14.46) | 2.65 | 1.30 | 2.04 | 0.08 | **0.042** | 2.86 | 1.37 | 2.09 | 0.08 | **0.037** |
| University level | 56.36 (14.02) | 3.60 | 0.26 | 2.85 | 0.12 | **0.004** | 3.89 | 1.44 | 2.70 | 0.03 | **0.007** |
| **Self-perception about own mental health** | | | | | | | | | | | |
| Good | 55.67 (14.85) | 0.47 | 0.96 | 0.49 | 0.01 | 0.624 | 0.31 | 1.18 | 0.27 | <0.01 | 0.789 |
| Bad | 55.20 (13.42) | Ref. |  |  |  |  | Ref. |  |  |  |  |

*Note:* B=unstandardized regression coefficient; SE=Standard error; β=standardized regression coefficient; Bold indicates significant; †F(18,1341)= 1.98; p<0.001, R2Adj=0.011.