**Table 1. Factors associated with dengue cases in different divisions using a generalized linear mixed model during 1 Jan 2023 and 31 Dec 2023.**

|  |  |  |
| --- | --- | --- |
| **Variables** | **Incidence risk ratio (IRR)** | |
| **95% Confidence Interval** | ***P*-value** |
| Urban-rural ratio | 1.04 (1.03 – 1.04) | <0.001 |
| Population density | 0.99 (0.99 – 1.00) | 0.056 |
| Distance from Dhaka (capital city) | 0.99 (0.99 – 1.00) | 0.005 |
| Daily average temperature | 1.13 (1.11 – 1.14) | <0.001 |
| Daily total rainfall | 0.99 (0.98 – 0.99) | <0.001 |
| Daily average relative humidity | 1.09 (1.08 – 1.09) | <0.001 |
| **Groups Name** | **Variance** | **Standard Deviation** |
| Location (Intercept) | 0.01652 | 0.1285 |
|  |  |  |
| **Akaike information criterion (AIC)** | **Bayesian Information Criterion (BIC)** | **Root Mean Square Error (RMSE)** |
| 23720.9 | 23774.8 | 181.804 |
| **Conditional *R2*** | **Marginal *R2*** | **Intraclass correlation (ICC)** |
| 0.436 | 0.435 | 0.002 |