| **Characteristic** | **Beta** | **95% CI***1* | **p-value** |
| --- | --- | --- | --- |
| Age\_of\_Participants | -0.14 | -0.49, 0.22 | 0.4 |
| Gender |  |  |  |
| Female | — | — |  |
| Male | 2.0 | -1.7, 5.8 | 0.3 |
| Marital\_Status |  |  |  |
| Married | — | — |  |
| Single | 3.9 | -3.5, 11 | 0.3 |
| Type\_of\_Family |  |  |  |
| Broken | — | — |  |
| Joint | 12 | -6.8, 31 | 0.2 |
| Nuclear | 17 | -1.7, 36 | 0.073 |
| Level\_of\_Education |  |  |  |
| Bachelor of Science | — | — |  |
| Can read and write | -2.4 | -13, 7.8 | 0.6 |
| High School | 0.20 | -8.6, 9.0 | >0.9 |
| Illiterate | -6.5 | -21, 8.2 | 0.4 |
| Master of Science | 3.2 | -9.0, 15 | 0.6 |
| Primary school | -3.4 | -13, 5.8 | 0.5 |
| Secondary school | -2.9 | -12, 6.1 | 0.5 |
| Occupational\_Status |  |  |  |
| Civil servant | — | — |  |
| High school student | -32 | -70, 6.2 | 0.10 |
| Housewife | -34 | -72, 4.0 | 0.080 |
| Self-employed | -30 | -67, 7.8 | 0.12 |
| Unemployed | -33 | -71, 4.5 | 0.084 |
| University student | -40 | -78, -1.9 | **0.040** |
| Area\_of\_Residence |  |  |  |
| Rural | — | — |  |
| Urban | 0.24 | -3.3, 3.8 | 0.9 |
| Economic\_Class |  |  |  |
| High income | — | — |  |
| Low income | 14 | -4.7, 33 | 0.14 |
| Moderate income | 13 | -5.5, 32 | 0.2 |
| Diagnosis |  |  |  |
| Beta thalassemia major | — | — |  |
| E-beta-thalassaemia | -1.6 | -5.6, 2.4 | 0.4 |
| Hemoglobin H | 14 | -5.3, 33 | 0.2 |
| Others | 9.5 | -4.2, 23 | 0.2 |
| Severity |  |  |  |
| No | — | — |  |
| Yes | -0.16 | -4.0, 3.7 | >0.9 |
| Transfusion\_Status |  |  |  |
| Transfusion dependent | — | — |  |
| Transfusion independent | 3.4 | -5.1, 12 | 0.4 |
| Frequency\_of\_Blood\_Transfusion |  |  |  |
| High (13-22 times/year) | — | — |  |
| Low (6-12 times/year) | 1.2 | -2.9, 5.3 | 0.6 |
| None | 6.5 | -4.8, 18 | 0.3 |
| Occasional (1-5 times/year) | 0.67 | -6.2, 7.6 | 0.8 |
| Previous\_3Months\_Transfution |  |  |  |
| No | — | — |  |
| Yes | 2.3 | -5.0, 9.6 | 0.5 |
| Splenectomy\_Status |  |  |  |
| No | — | — |  |
| Yes | -3.2 | -7.2, 0.85 | 0.12 |
| Comorbidities\_Status |  |  |  |
| Cardiological disorders | — | — |  |
| Diabetes mellitus | -17 | -37, 2.8 | 0.092 |
| Hepatitis B or C | -4.3 | -19, 9.9 | 0.5 |
| No comorbidity | 3.8 | -9.8, 17 | 0.6 |
| Others | -3.2 | -18, 11 | 0.7 |
| Ironchelating\_Therapy\_Status |  |  |  |
| Good compliance | — | — |  |
| Poor compliance | -0.23 | -8.7, 8.3 | >0.9 |
| Medical\_Expense | 0.00 | 0.00, 0.00 | 0.6 |
| *1*CI = Confidence Interval | | | |