E-supplement 2: Sensitivity analysis for missing outcome data based on the comparison between maximum likelihood (GLMM) results and multiple imputations results.

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| --- | --- | --- | --- |
|  | Variable | GLMM  | Multiple Imputations |
| Estimate(log Odds) | Std. error | P-value | Estimate(log Odds) | Std. error | P-value |
| Neck pain | Intercept | -0.710 | 0.122 | <0.0001 | -0.721 | 0.121 | <0.0001 |
| Age | 0.001 | 0.001 | 0.373 | 0.001 | 0.001 | 0.8371 |
| Gender  |  |  |  |  |  |  |
| Female | 0.306 | 0.025 | <0.0001 | 0.302 | 0.027 | <0.0001 |
| Male | - | - | - | - | - | - |
| Education  |  |  |  |  |  |  |
| Low | 0.037 | 0.055 | 0.5030 | 0.030 | 0.057 | 0.595 |
| Medium | 0.120 | 0.030 | <0.0001 | 0.114 | 0.030 | 0.0001 |
| High | - | - | - | - | - | - |
| Arm pain | Intercept | -2.906 | 0.119 | <0.0001 | -2.932 | 0.118 | <0.0001 |
| Age | 0.023 | 0.001 | <0.0001 | 0.023 | 0.001 | <0.0001 |
| Gender  |  |  |  |  |  |  |
| Female | 0.296 | 0.030 | <0.0001 | 0.299 | 0.033 | <0.0001 |
| Male | - | - | - | - | - | - |
| Education  |  |  |  |  |  |  |
| Low | 0.449 | 0.062 | <0.0001 | 0.421 | 0.063 | <0.0001 |
| Medium | 0.369 | 0.038 | <0.0001 | 0.344 | 0.039 | <0.0001 |
| High | - | - | - | - | - | - |
| Foot pain | Intercept | -2.804 | 0.107 | <0.0001 | -2.858 | 0.109 | <0.0001 |
| Age | 0.027 | 0.001 | <0.0001 | 0.027 | 0.001 | <0.0001 |
| Gender  |  |  |  |  |  |  |
| Female | 0.192 | 0.030 | <0.0001 | 0.199 | 0.033 | <0.0001 |
| male | - | - | - | - | - | - |
| Education  |  |  |  |  |  |  |
| Low | 0.188 | 0.061 | 0.0020 | 0.182 | 0.061 | 0.0028 |
| Medium | 0.130 | 0.036 | 0.0003 | 0.125 | 0.036 | 0.0004 |
| High | - | - | - | - | - | - |