**Table S1: Unadjusted and Adjusted OR for prolonged ED Length of Stay as a function of patient characteristics**

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| **Prolonged ED Length of Stay****(EDLOS ≥ 24 hours)** | **Odds Ratios** |
|  | Unadjusted |  | Adjusted |  |
|  | Estimate | 95% confidence interval | Estimate | 95% confidence interval |
| Telemetry status | 2.0 | 1.8 - 2.2 | 2.2 | 2.0 - 2.5 |
| Isolation status | 1.8 | 1.6 - 2.0 | 1.9 | 1.7 - 2.1 |
| Age Category (reference: Age Category 1)  | Ref |  | Ref |  |
| Age Category 2  | 1.2 | 1.1 - 1.4 | 1.2 | 1.0 - 1.3 |
| Age Category 3  | 1.6 | 1.4 - 1.8 | 1.4 | 1.3 - 1.6 |
| Age Category 4 | 1.7 | 1.5 - 1.9 | 1.5 | 1.3 - 1.7 |
| Comorbidity Level (reference: Comorbidity Level 0) | Ref |  | Ref |  |
| Comorbidity Level 1 | 1.2 | 1.1 - 1.3 | 1.1 | 1.0 - 1.2 |
| Comorbidity Level 2 | 1.2 | 1.0 - 1.3 | 1.1 | 1.0 - 1.3 |
| Comorbidity Level 3 | 1.5 | 1.3 - 1.7 | 1.4 | 1.2 - 1.6 |
| Comorbidity Level 4 | 1.6 | 1.3 - 1.9 | 1.4 | 1.2 - 1.7 |
| Day of the week (reference: Friday) | Ref |  |  |  |
| Monday | 1.8 | 1.5 - 2.1 |  |  |
| Tuesday | 1.7 | 1.4 - 2.0 |  |  |
| Wednesday | 1.6 | 1.3 - 1.8 |  |  |
| Thursday | 1.4 | 1.2 - 1.7 |  |  |
| Saturday | 1.3 | 1.1 - 1.6 |  |  |
| Sunday | 1.8 | 1.5 - 2.1 |  |  |