**Supplemental Table 2a: Covariates Included in Final Model: ICU LOS and VIS at 48 hours**

|  |  |  |
| --- | --- | --- |
| **Covariate** | **Estimate\*** | ***P* value** |
| Age 3 mo-2 years | 0.679 | <0.05 |
| Age 2 year – 7 years | 0.051 | 0.79 |
| Age 7 years – 13 years | 0.192 | 0.32 |
| Age 13 years – 18 years | 0.000 |  |
| PIM-3\_score | 0.027 | <0.05 |
| VIS at 48 hours | 0.126 | <0.0001 |
| Diagnosis other than Pneumonia | -0.407 | <0.05 |
| Diagnosis of Pneumonia | 0.000 | <0.05 |

\*log scale

**Supplemental table 2b: Covariates Included in Final Model: Ventilator Days and VIS at 48 hours**

|  |  |  |
| --- | --- | --- |
| **Covariate** | **Estimate** | ***P* value** |
| Age 3 mo-2 years | 1.35 | <0.05 |
| Age 2 year – 7 years | 1.15 | <0.05 |
| Age 7 years – 13 years | 1.04 | <0.05 |
| Age 13 years – 18 years | 0.00 | . |
| PIM-3 score | 0.04 | <0.01 |
| VIS at 24 hours | -0.05 | <0.05 |
| VIS at 48 hours | 0.08 | <0.01 |
| Time to antibiotic | 0.00 | <0.01 |
| Lactate in first 8 hours | -0.14 | <0.05 |
| Fluid Resuscitation in first hour | -0.10 | <0.0001 |
| Fluid Resuscitation in first 4 hours | 0.06 | <0.05 |
| Fluid Resuscitation in first 24 hours | -0.02 | <0.05 |
| Pneumonia Diagnosis | 0.63 | 0.11 |

**Supplemental Table 2c: Covariates Included in Final Model: Intubation and VIS at 48 hours**

|  |  |  |
| --- | --- | --- |
| **Covariate** | **Estimate** | ***P* value** |
| VIS at 24 hours | -0.1165 | <0.05 |
| Age | 0.858 | <0.01 |
| PIM-3 Score | 1.100 | <0.05 |
| VIS at 48 hours | 1.219 | <0.01 |
| Diagnosis of Pneumonia | 4.289 | <0.01 |
| Fluid Resuscitation in 4 hours | 0.968 | <0.05 |

**Supplemental Table 2d: Covariates Included in Final Model: Composite Outcome and VIS at 48 hours**

|  |  |  |
| --- | --- | --- |
| **Covariate** | **Estimate** | ***P* value** |
| VIS at 48 hours | 1.076 | 0.24 |
| PIM-3 Score | 1.082 | <0.05 |
| Fluid Resuscitation in first 24 hour | 0.927 | <0.05 |

**Supplemental Table 2e: Covariates Included in Final Model: Composite Outcome and VIS at 12 hours**

|  |  |  |
| --- | --- | --- |
| **Covariate** | **Estimate** | ***P* value** |
| VIS at 6 hours | 0.874 | <0.05 |
| VIS at 12 hours | 1.143 | <0.01 |
| PIM-3 Score | 1.103 | <0.05 |
| Diagnosis of Pneumonia | 3.491 | 0.11 |