**Supplementary Table 1. Comparison of Patients with and without Resistant Infections in the Cleveland Clinic Validation Set**

|  |  | **Resistance to CAP Therapy** |
| --- | --- | --- |
| **Factor** | **Total(N=33,814)** | **No(N=30,668)** | **Yes(N=3,146)** |
| Male | 16,812(49.7) | 15,059(49.1) | 1,753(55.7) |
| Admitted from SNF/ICF | 1,690(5.0) | 1,483(4.8) | 207(6.6) |
| Previous admission within 1 year  | 11,865(35.1) | 10,412(34.0) | 1,453(46.2) |
| Resistant organism in previous year | 6,992(20.7) | 5,785(18.9) | 1,207(38.4) |
| Paralysis | 1,635(4.8) | 1,383(4.5) | 252(8.0) |
| COPD | 14,818(43.8) | 13,797(45.0) | 1,021(32.5) |
| Pressure ulcer | 3,022(8.9) | 2,525(8.2) | 497(15.8) |
| Smoker | 5,559(16.4) | 5,167(16.8) | 392(12.5) |
| Low functional status/weight loss | 4,278(12.7) | 3,844(12.5) | 434(13.8) |
| ICU | 13,813(40.8) | 11,984(39.1) | 1,829(58.1) |
| IMV | 1,685(5.0) | 1,373(4.5) | 312(9.9) |
| Vasopressor | 3,263(9.6) | 2,658(8.7) | 605(19.2) |

**Supplementary Figure 1**

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| A. |
| B.  |

**Supplementary Figure 2**

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| A. |
| B.  |