Supplemental Table 1. Associations between antibiotic delay intervals and mortality or discharge to hospice among patients with suspected sepsis presenting to the Emergency Department among patients with sepsis diagnosis at discharge, N = 10,548 encounters

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| --- | --- | --- | --- |
| Interval  | n | OR (95%CI) | P value |
| Total antibiotic delay (arrival to administration time) |  |  | <0.01 |
|  <1hr | 1039 | reference |  |
|  1-3hr | 5275 | 0.88 (0.70-1.11) |  |
|  3-6hr | 2822 | 0.91 (0.70-1.12) |  |
|  >6hr | 1412 | 1.36 (1.02-1.83) |  |
| Recognition Delay (arrival to order time) |  |  | <0.01 |
|  <1hr | 2471 | reference |  |
|  1-3hr | 4947 | 0.92 (0.77-1.10) |  |
|  3-6hr | 2252 | 1.08 (0.86-1.35) |  |
|  >6hr | 878 | 1.51 (1.13-2.03) |  |
| Administration Delay (order to infusion time) |  |  | <0.01 |
|  <0.5 hr | 5298 | reference |  |
|  0.5-1.0 hr | 2997 | 1.09 (0.90-1.32) |  |
|  1-1.5 hr | 1101 | 1.05 (0.79-1.38) |  |
|  1.5-2.0 hr | 495 | 1.46 (1.02-2.08) |  |
|  2.0-2.5 hr | 230 | 1.90 (1.19-3.03) |  |
|  2.5hr-3.0 hr | 133 | 1.17 (0.58-2.34) |  |
|  >3.0 hr | 294 | 1.64 (1.06-2.55) |  |

Supplemental Table 2. Associations between antibiotic delay intervals and mortality or discharge to hospice among patients with septic shock (i.e., max lactate >2 and min MAP <65), N = 3681 encounters)

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| --- | --- | --- | --- |
| Interval  | n | OR (95%CI) | P value |
| Total antibiotic delay (arrival to administration time) |  |  | 0.21 |
|  <1hr | 467 | reference |  |
|  1-3hr | 1868 | not calculated |  |
|  3-6hr | 861 | not calculated |  |
|  >6hr | 485 | not calculated |  |
| Recognition Delay (arrival to order time) |  |  | 0.17 |
|  | 1060 | reference |  |
|  | 1664 | not calculated |  |
|  | 703 | not calculated |  |
|  | 254 | not calculated |  |
| Execution Delay (order to administration time) |  |  | 0.02 |
|  <0.5 hr | 1806 | reference |  |
|  0.5-1.0 hr | 998 | 0.95 (0.71-1.28) |  |
|  1-1.5 hr | 402 | 0.80 (0.53-1.21) |  |
|  1.5-2.0 hr | 174 | 1.68 (1.00-2.83) |  |
|  2.0-2.5 hr | 103 | 1.65 (0.87-3.13) |  |
|  2.5hr-3.0 hr | 54 | 0.92 (0.35-2.45) |  |
|  >3.0 hr | 144 | 0.90 (0.48-1.70) |  |