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| **Supplemental Table 5: Clinical Process Measures Over Time in Screen Positive Patients with Unsuspected Sepsisa** |
|  | **Percent of Patients at 3-Hrsb** | **Percent of Patients at 6-Hrsb** | **Percent of Patients at 48-Hrsb** |
| **Process Measure** | **Silent** | **Alert** | **P-value** | **Silent** | **Alert** | **P-value** | **Silent** | **Alert** | **P-value** |
| CBC or BMP | 45.3  | 48.9  | 0.06 | 71.2  | 72.1  | 0.64 | 95.4  | 94.0  | 0.14 |
| IV Fluid Bolus | 18.4  | 22.4  | 0.01 | 24.9  | 30.8  | <0.01 | 51.6  | 55.2  | 0.07 |
| Any Antibiotic | 12.8  | 13.5  | 0.64 | 18.7  | 20.3  | 0.32 | 47.9  | 45.9  | 0.33 |
| Sepsis Antibiotic(s)c | 11.1  | 11.7  | 0.70 | 15.6  | 17.2  | 0.27 | 34.4  |  34.3  | 1.00 |
| Blood Cultures | 11.8  | 12.4  | 0.66 | 16.3  | 17.6  | 0.4 | 32.3  | 34.7  | 0.21 |
| Lactate | 5.0  | 6.5  | 0.12 | 6.7  | 9.3  | 0.02 | 14.1  | 17.6  | 0.02 |
| Telemetry or ECG | 13.3  | 16.0  | 0.06 | 19.1  | 21.6  | 0.12 | 51.0  | 50.6  | 0.89 |
| Chest Radiograph | 8.9  | 9.1  | 0.93 | 13.3  | 11.9  | 0.31 | 35.7  | 32.9  | 0.15 |
| CT Imagingd | 4.6  | 4.1  | 0.56 | 7.3  | 6.2  | 0.32 | 16.4  | 17.0  | 0.72 |
| RBC Transfusion | 3.2  | 3.7  | 0.57 | 5.1  | 6.2  | 0.24 | 19.4  | 21.5  | 0.21 |
| Arterial Blood Gas | 2.3  | 2.5  | 0.80 | 3.3  | 4.0  | 0.43 | 8.4  | 9.8  | 0.24 |
| Vasopressor | 1.6  | 2.1  | 0.38 | 2.6  | 3.5  | 0.26 | 7.8  | 8.5  | 0.53 |
| AV Nodal Blockade | 2.8  | 3.6  | 0.30 | 4.0  | 5.7  | 0.06 | 13.7  | 14.4  | 0.65 |
| Diuretic | 3.8  | 4.0  | 0.88 | 6.9  | 6.1  | 0.44 | 23.4  | 20.5  | 0.08 |
| Naloxone | 0.1  | 0.1  | 0.62 | 0.3  | 0.1  | 0.43 | 0.9  | 0.7  | 0.78 |
| AV = atrioventricular, BMP = basic metabolic panel, CBC = complete blood count, CT = computed tomography, ECG = electrocardiogram, Hrs = hours, IV = intravenous, RBC = red blood cell. aUnsuspected Sepsis: less than two out of three of the following ordered within 12 hours preceding alert: (1) blood culture, (2) lactate, (3) broad spectrum antibiotic.bTime intervals after alert trigger.cList available in Supplemental Table 8. dIncludes CT chest, head, or abdomen. Silent period unsuspected sepsis n=1,144 (74% of total screen positive population), Alert period unsuspected sepsis n=1,561 (73% of total screen positive population. |