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| **Supplemental Table 3: Clinical Process Measures Over Time in Screen Positive Patients**  |
|  | **Percent of Patients at 3-Hrs**a | **Percent of Patients at 6-Hrs**a | **Percent of Patients at 48-Hrs**a |
| **Process Measure** | **Silent** | **Alert** | **P-value** | **Silent** | **Alert** | **P-value** | **Silent** | **Alert** | **P-value** |
| CBC or BMP | 46.9 | 51.0 | 0.01 | 73.0 | 74.1 | 0.48 | 96.4 | 95.1 | 0.06 |
| IV Fluid Bolus | 21.7 | 25.5 | <0.01 | 29.5 | 34.7 | 0.01 | 56.9 | 59.9 | 0.08 |
| Any Antibiotic | 17.3 | 16.9 | 0.76 | 24.3 | 25.4 | 0.46 | 56.8 | 54.9 | 0.29 |
| Sepsis Antibiotic(s)b | 15.6 | 15.2 | 0.76 | 21.3 | 22.6 | 0.35 | 45.3 | 44.3 | 0.59 |
| Blood Cultures | 14.0 | 15.7 | 0.18 | 20.2 | 22.7 | 0.08 | 40.2 | 43.0 | 0.10 |
| Telemetry or ECG | 12.8 | 14.5 | 0.15 | 18.7 | 20.9 | 0.11 | 51.1 | 52.3 | 0.49 |
| Chest Radiograph | 9.4 | 10.0 | 0.62 | 13.6 | 13.6 | 0.99 | 36.4 | 34.9 | 0.38 |
| Lactate | 8.0 | 11.7 | <0.01 | 10.5 | 15.6 | <0.01 | 20.9 | 25.9 | <0.01 |
| CT Imagingc | 5.3 | 4.6 | 0.38 | 8.3 | 7.1 | 0.18 | 18.2 | 19.4 | 0.39 |
| RBC Transfusion | 3.8 | 4.2 | 0.67 | 5.7 | 7.4 | 0.05 | 24.2 | 25.4 | 0.43 |
| Diuretic | 3.2 | 3.8 | 0.43 | 5.8 | 5.7 | 0.99 | 21.0 | 19.2 | 0.21 |
| AV Nodal Blockade | 2.9 | 3.4 | 0.39 | 4.0 | 5.3 | 0.06 | 12.7 | 13.6 | 0.46 |
| Arterial Blood Gas | 2.8 | 3.5 | 0.29 | 4.2 | 5.4 | 0.09 | 11.1 | 12.6 | 0.17 |
| Vasopressors | 2.2 | 2.8 | 0.30 | 3.4 | 4.4 | 0.12 | 9.0 | 10.0 | 0.37 |
| Naloxone | 0.1 | 0.2 | 0.40 | 0.3 | 0.3 | 0.95 | 0.7 | 0.9 | 0.69 |
| AV = atrioventricular, BMP = basic metabolic panel, CBC = complete blood count, CT = computed tomography, ECG = electrocardiogram, Hrs = hours, IV = intravenous, RBC = red blood cell. aTime intervals after alert trigger. bList available in Supplemental Table 8. cIncludes CT chest, head, or abdomen.Silent period n=1,540, Alert period n=2,137. |