**Report**

**Dataset: cardiac\_output\_export\_final.csv**

**Aim:**

Evaluate cardiac output (pulse pressure x HR) over first 24 hours of ICU sepsis admission. Exclude patients with pacemakers. Compare cardiac output for different patient subgroups, namely vasopressor use, survivors/non-survivors and normal/abnormal left-ventricular ejection fraction (LVEF).

**Variables (hourly averages) pulled from MIMIC**

* HR
* Pulse pressure (systolic – diastolic BP, both invasive and non-invasive)
* Lactic acid
* Urine output

Table 1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | No. | % | Age  Mean, Std | ICU Stay (days)  Median |
| Sepsis ICU adm | 3958 |  |  |  |
| Total Admissions w/o pacemaker | 3576 |  |  |  |
| Total Admissions w/ prior echo | 1309 | 100 | 66.6, 20.1 | 4.8 |
|  |  |  |  |  |
| Gender |  |  |  |  |
| M | 594 | 57.1 | 65.4,17.1 | 4.3 |
| F | 445 | 42.8 | 68.2,23.5 | 5.0 |
|  |  |  |  |  |
| Vasopressors |  |  |  |  |
| Y | 579 | 55.7 | 67.5,20,5 | 7.5 |
| N | 460 | 44.3 | 65.5,19.6 | 2.8 |
|  |  |  |  |  |
| Survivors (30day) | 411 | 39.6 | 69.3,21.0 | 4.4 |
| Non-Survivors | 628 | 60.4 | 64.8,19.4 | 4.9 |
|  |  |  |  |  |
| LVEF |  |  |  |  |
| Normal (>= 50) | 718 | 69.1 | 65.6,20.5 | 4.8 |
| Abnormal (<50) | 321 | 30.9 | 68.9,19.2 | 4.7 |

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