

Filter Patients

Gender

Male

Female

×

▼

Ward

Cardiology

×

GeneralWard

×

×

▼

ICU

×

Others

×

Filtered: 2,008 / 2,008 patients



Heart Failure Analytics Dashboard

Analyzing 2,008 patients from PhysioNet Dataset



KPIs



Demographics



Prescriptions



Hospital



CardiacComplications



Labs & GCS

Executive Summary

Total Patients

2,008

28d Mortality

1.8%

28d Readmit

7.0%

6m Mortality

2.8%

Score 3

99

↑ 4.9%



Triple Biomarker Risk

- 99 patients (4.9%) Score 3
- 40x mortality (6.1% vs 0.15%)
- p < 0.00001



Cryptic Shock

- 73% of deaths had elevated biomarkers
- Biomarkers reveal hidden risk



Key Insights

- High-Risk Severity** – NYHA IV + Killip IV account for ~64% of deaths.
- Biomarker Risk Score** – Lactate + Sodium + Troponin → 40× mortality risk.
- Neurological Warning** – Low GCS predicts ~64% of deaths.
- Frailty & Comorbidities** – Elderly, CKD, diabetes, COPD = higher risk.
- Long Stay Risk** – LoS ≥15 days → more mortality/readmission.
- Readmission Burden** – ~39% return within 6 months.
- ICU Gap** – Moderate-risk non-ICU patients drive readmissions.
- Medication Trends** – Emergency cases need injectable therapy.



Recommendations

- ✓ Automate biomarker + GCS alerts.
- ✓ Prioritize high-severity patients.
- ✓ 7-day follow-up after discharge.
- ✓ Telemonitor high-risk patients.