

Filter Patients

Gender

Male × Female × x ▾

Ward

Cardiology ×

GeneralWard × x ▾

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

- 1 High-Risk Severity – NYHA IV + Killip IV account for ~64% of deaths.
- 2 Biomarker Risk Score – Lactate + Sodium + Troponin → 40x mortality risk.
- 3 Neurological Warning – Low GCS predicts ~64% of deaths.
- 4 Frailty & Comorbidities – Elderly, CKD, diabetes, COPD = higher risk.
- 5 Long Stay Risk – LoS ≥15 days → more mortality/readmission.
- 6 Readmission Burden – ~39% return within 6 months.
- 7 ICU Gap – Moderate-risk non-ICU patients drive readmissions.
- 8 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.