

Chest Pain Evaluation

Risk Stratification Algorithm

High Risk

Immediate cath lab prep
Emergency coronary angiography

Medium Risk

Intensive monitoring
Cardiac biomarker tracking

Low Risk

Outpatient follow-up
Early discharge possible

AI Assessment Results

Acute MI Detection Rate	98%
False Negative Rate	0.5%
Unnecessary Admission Reduction	30%
Assessment Time	10 min

Clinical Improvement

Early Diagnosis	2 hr faster
Unnecessary Tests	25% reduction
ED Length of Stay	1.5 hr reduction
Patient Satisfaction	15% increase