

Early Sepsis Prediction

Prediction Model Input Features

Temperature

Heart Rate

Blood Pressure

Respiratory Rate

White Blood Cell Count (WBC)

Oxygen Saturation (SpO2)

Lactate Level

Urine Output

Consciousness Level (GCS)

ROC Curve Performance

AUC-ROC	0.89
Sensitivity	85%
Specificity	87%
Positive Predictive Value (PPV)	82%

Clinical Impact

Early Detection	4-6 hours
Mortality Reduction	15%
ICU Stay Reduction	2.3 days
Time to Antibiotics	1 hr faster

- 🔔 Real-time risk score calculation
- 🔔 Automatic high-risk patient alerts
- 🔔 Mobile push notifications for healthcare staff