Uncertainty Communication

Confidence Interval

95% CI: [0.60 - 0.90]

0.60 **0.75** 0.90

Probability Distribution

Mean: 0.75

0.5 1.0

σ = ±0.08

Calibration Curve

Observed Frequency

Predicted Probability

0 0.5 1.0

- - - Perfect —— Model

Risk Visualization

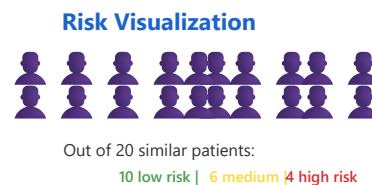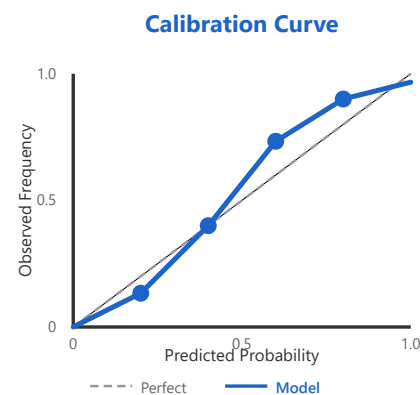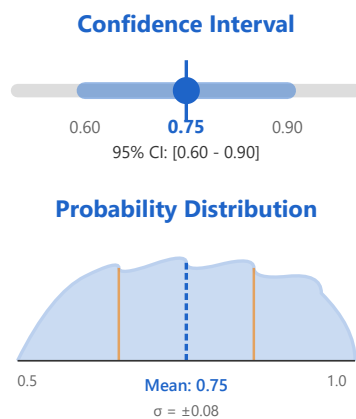Out of 20 similar patients:

10 low risk | **6 medium** | **4 high risk**

📊 Confidence Intervals

Quantifying prediction uncertainty with statistical bounds

🎲 Probabilistic Outputs

Expressing predictions as probability distributions

⚠️ Risk Communication

Clearly conveying model confidence to clinicians

🎯 Calibrated Predictions

Ensuring predicted probabilities match actual frequencies