

# Medical Readmission Risk Assessment Report

Humber College Institute of Technology & Advanced Learning  
Capstone Project - Computer Programming  
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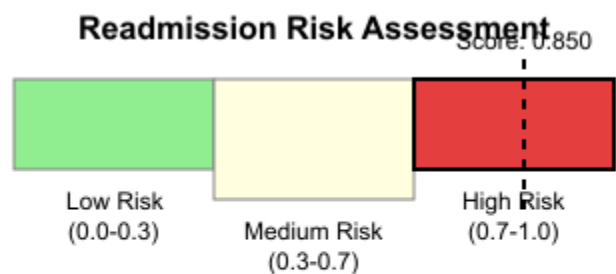
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## Patient Information

Age Group: [60-70)	Gender: Male
Time in Hospital (days): 7	Admission Type: 1
Discharge Disposition: 1	Admission Source: 1
Number of Medications: 15	Lab Procedures: 45
Medical Procedures: 3	Number of Diagnoses: 5
Previous Inpatient Visits: 2	Previous Outpatient Visits: 3
Previous Emergency Visits: 1	Diabetes Medication: Yes
Medication Change: Ch	A1C Test Result: >8
Max Glucose Serum: >200	Insulin: Up
Metformin: Steady	Primary Diagnosis: 250.01

## Risk Assessment Results

Readmission Risk Score: 0.850  
Risk Level: **High Risk**  
Model Confidence: 85.0%



## AI-Generated Medical Insights

This elderly male patient with poorly controlled diabetes (A1C >8, glucose >200, insulin increased) shows very high readmission risk (85%). Key factors include: advanced age, prolonged hospitalization (7 days), complex medication regimen (15 drugs with recent changes), multiple comorbidities (5 diagnoses), and previous healthcare utilization. Immediate interventions required: 1) Intensive diabetes management with endocrinology follow-up within 48 hours, 2) Comprehensive medication reconciliation and adherence counseling, 3) Home health nursing for blood glucose monitoring, 4) Scheduled primary care follow-up within 3-5 days, 5) Patient education on hypoglycemia recognition and management. Consider transitional care management program enrollment.

## Understanding Your Risk Score

The readmission risk score is calculated using advanced machine learning algorithms that analyze multiple patient factors including medical history, current medications, diagnosis codes, hospital stay characteristics, and previous healthcare utilization patterns.

Risk Categories:

- Low Risk (0.0-0.3): Minimal likelihood of readmission
- Medium Risk (0.3-0.7): Moderate readmission risk requiring attention
- High Risk (0.7-1.0): Elevated readmission risk requiring intensive follow-up

### **IMPORTANT MEDICAL DISCLAIMER:**

This report is generated by an AI system for informational purposes only and should not be considered medical advice, diagnosis, or

treatment recommendations. Always consult with qualified healthcare professionals for medical decisions. The predictions are based on statistical models and may not account for all individual patient factors.

Generated by SweatHogs Medical AI  
Prediction System  
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