Diabetic Patients Readmission Prediction Dashboard

Gender: All   Age: All   Race: All

Model Performance (AUC-ROC): **0.72**

Total Patients Visits (Before ML)

89603

51.92% No Readmission
36.58% Late Readmission (>30d)
11.50% Early Readmission (<30d)

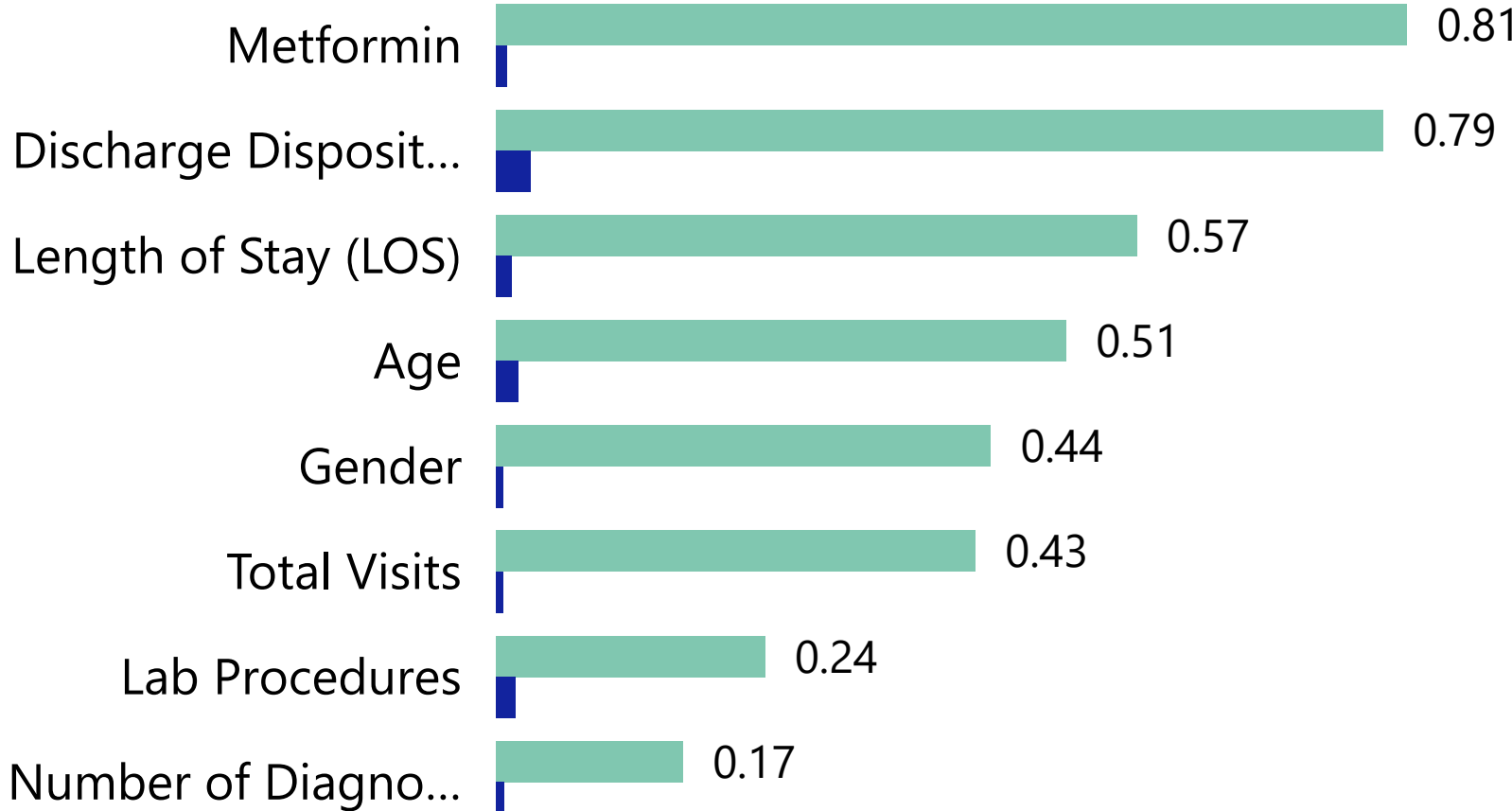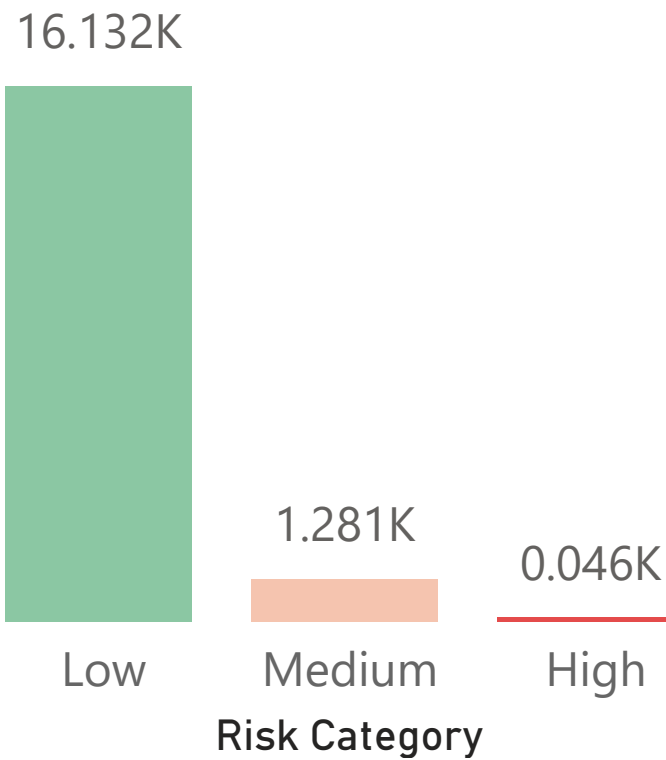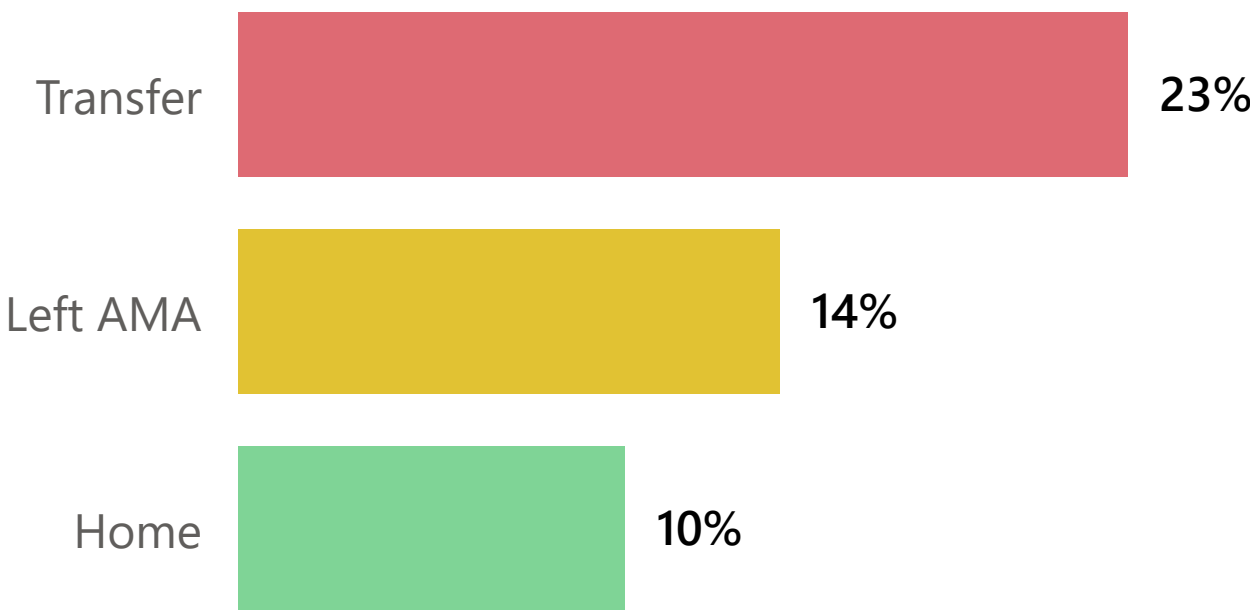## Total Patients Evaluated by Model

17459

92.40% Low Risk
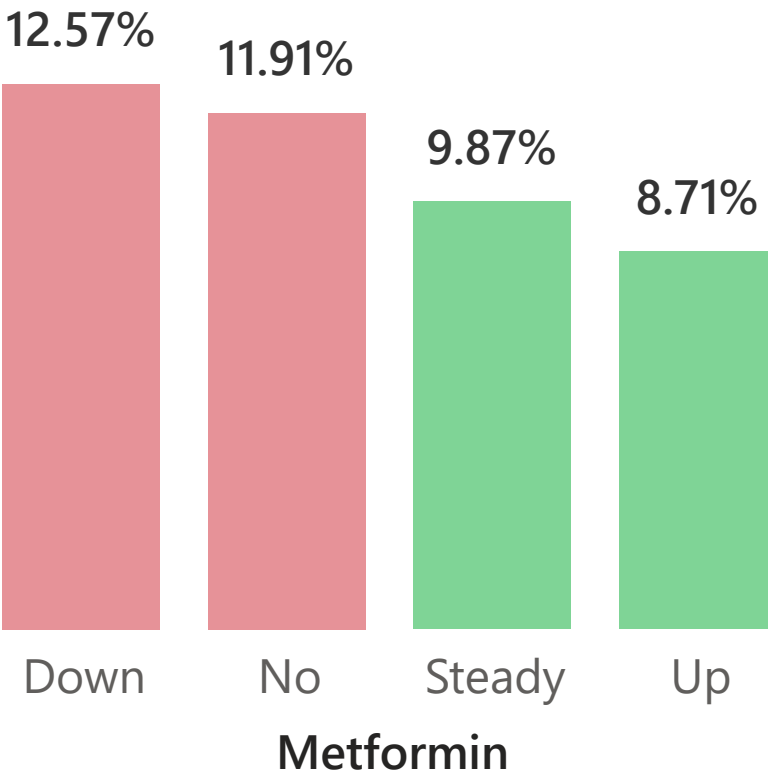7.34% Medium Risk
0.26% High Risk

Top Risk Factors

Factor	Value
Metformin	0.81
Discharge Disposit...	0.79
Length of Stay (LOS)	0.57
Age	0.51
Gender	0.44
Total Visits	0.43
Lab Procedures	0.24
Number of Diagno...	0.17

Number of Patients by Risk Category Probablity

16.132K Low
1.281K Medium
0.046K High

Risk Category

Readmission Rate by Discharge Disposition

Transfer 23%
Left AMA 14%
Home 10%

Impact of Metformin on Readmission

Down 12.57%
No 11.91%
Steady 9.87%
Up 8.71%

Metformin

Readmission Rate Across Age Groups

70+ 7.83%
60-69 3.58%
50-59 2.41%
40-49 1.45%
30-39 0.60%
18-29 0.33%
0-17 0.05%

Age Group
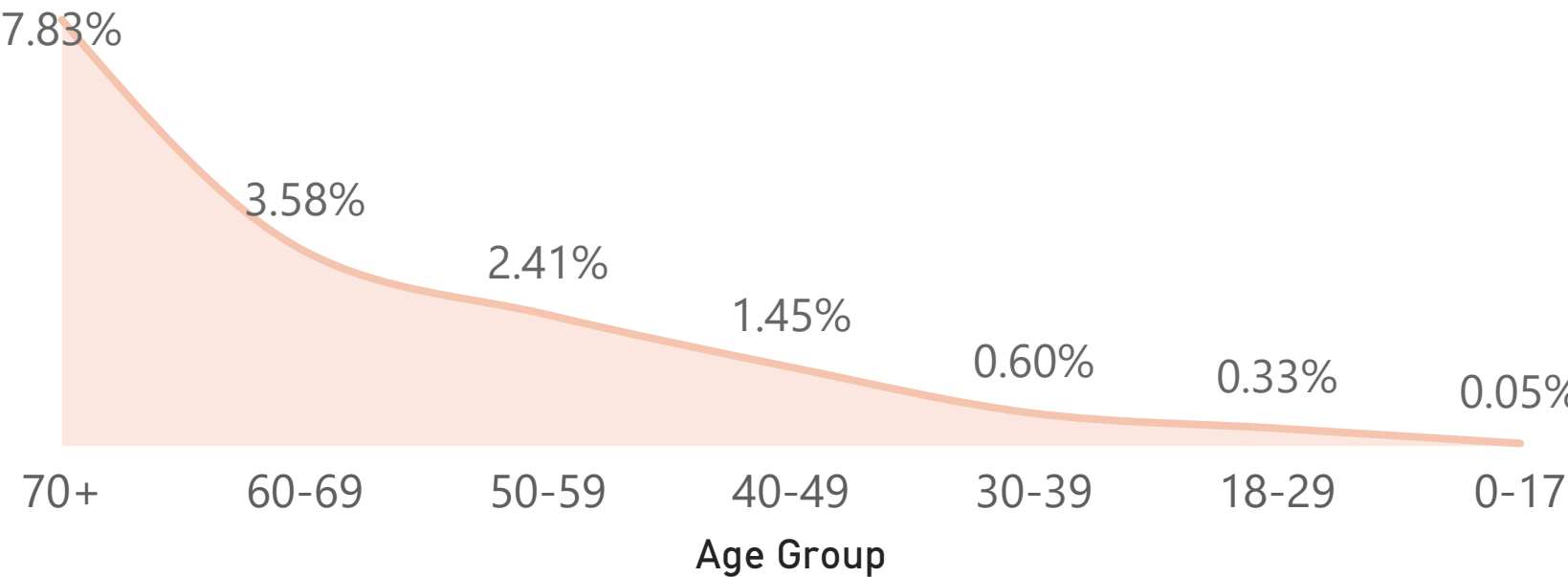
Lab Procedures Impact

Readmission Rate (%)
0.6%, 0.4%, 0.2%, 0.0%
Lab Procedures: 0, 50, 100
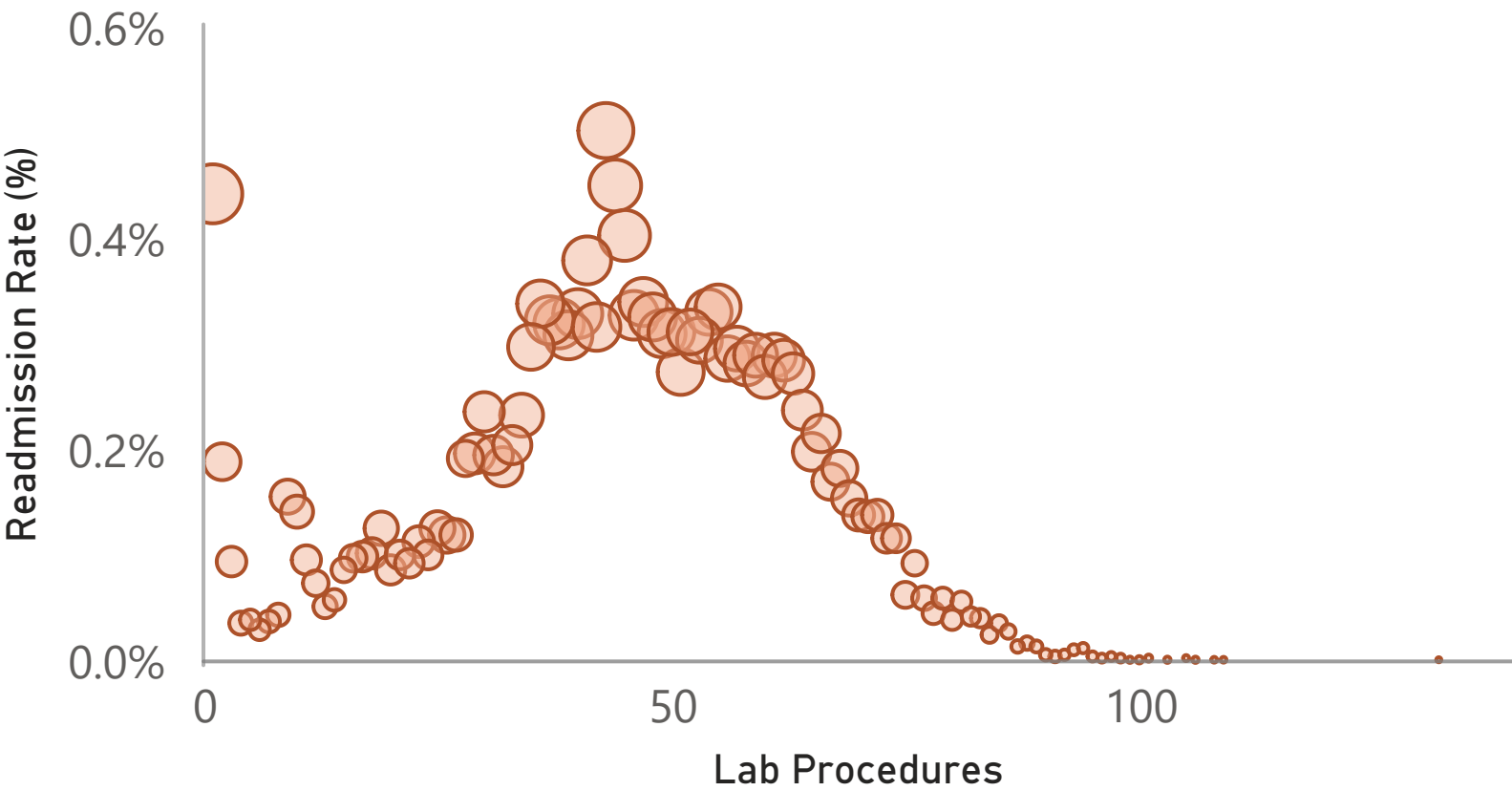
Readmission Rate by Length of Hospital Stay

1.7%, 2.7%, 0.3%, 0.3%, 0.2%

Time in Hospital (days): 5, 10
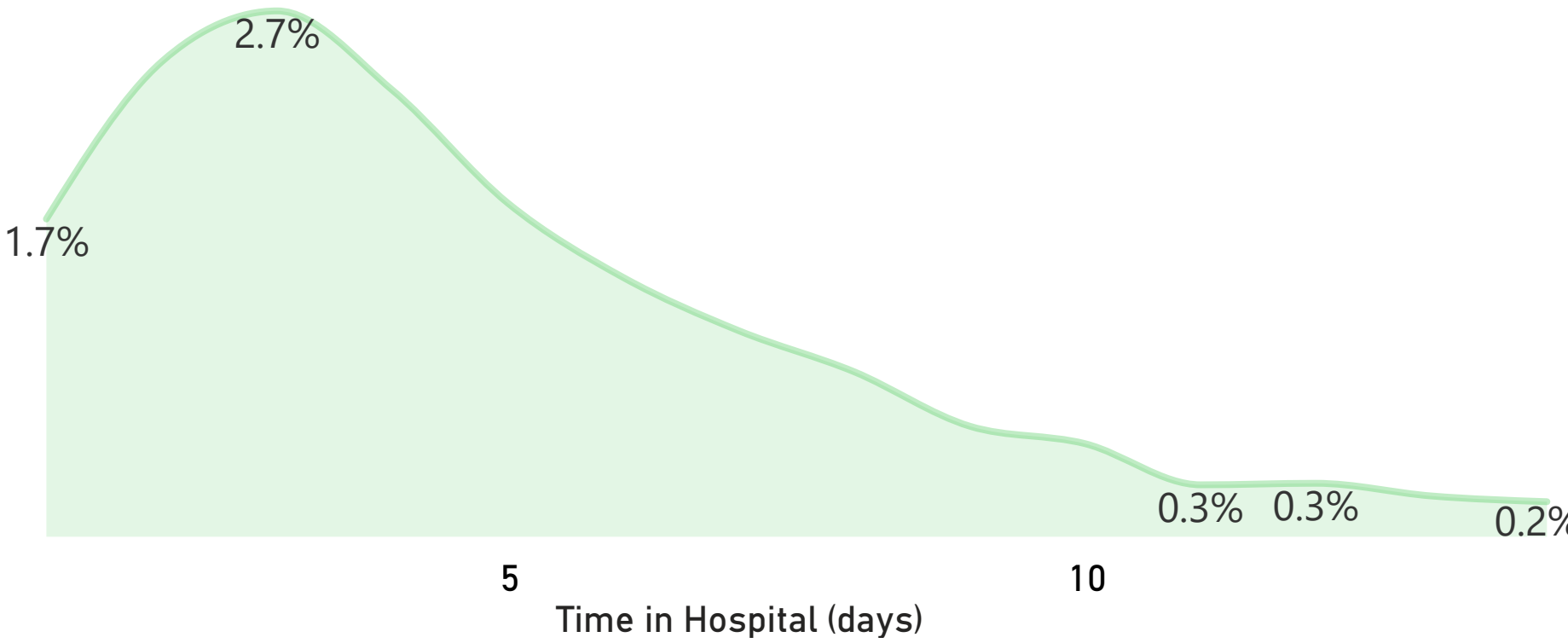
Patient_Id	Gender	Age	Prob_Readmitted	Risk_Category
2296296	F	35	0.51	
3401055	F	45	0.52	
3401055	F	45	0.53	
4790016	F	25	0.52	
4790016	F	25	0.60	
13532292	M	55	0.55	
19213839	M	65	0.57	
23398488	M	55	0.54	
Total				