EDA

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The following is the exploratory data analysis completed for Project 2 ("Predicting Re-admission for Diabetic Patients"). To see R code, please view the Rmarkdown file.

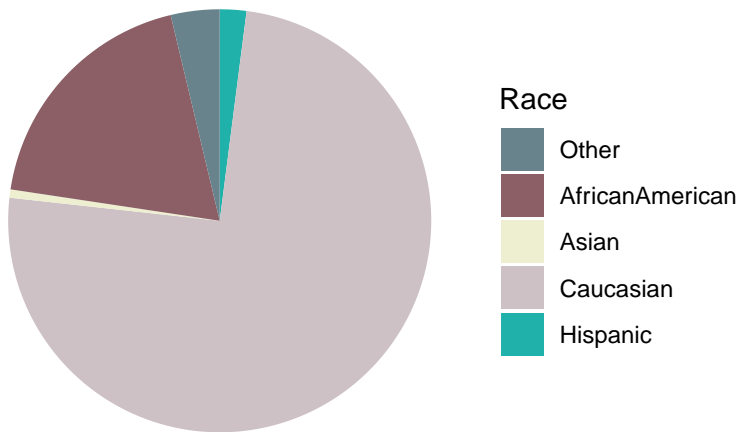## Race vs. Re-admission:

Distribution of Races

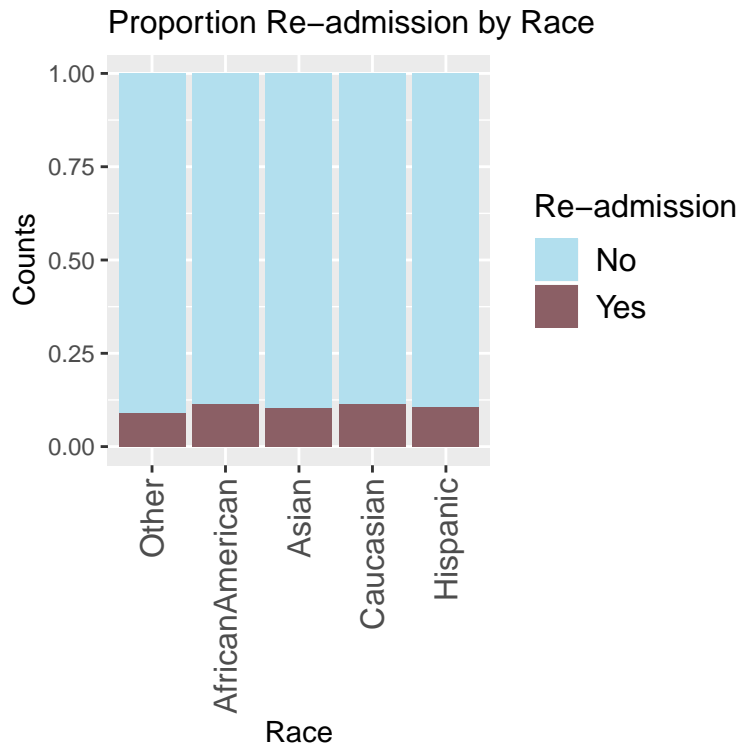Figure 1: A piechart displaying the distribution of patient's race in entire dataset

Figure 2: Proportion of readmitted vs. non-readmitted patients in each group
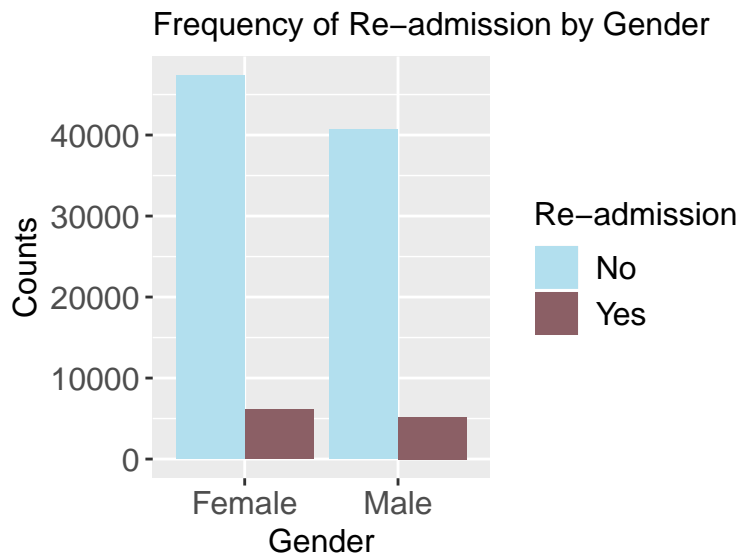
Gender vs. Re-admission

Frequency of Re–admission by Gender

Figure 3: Frequency of re-admission by gender

Age vs. re-admission
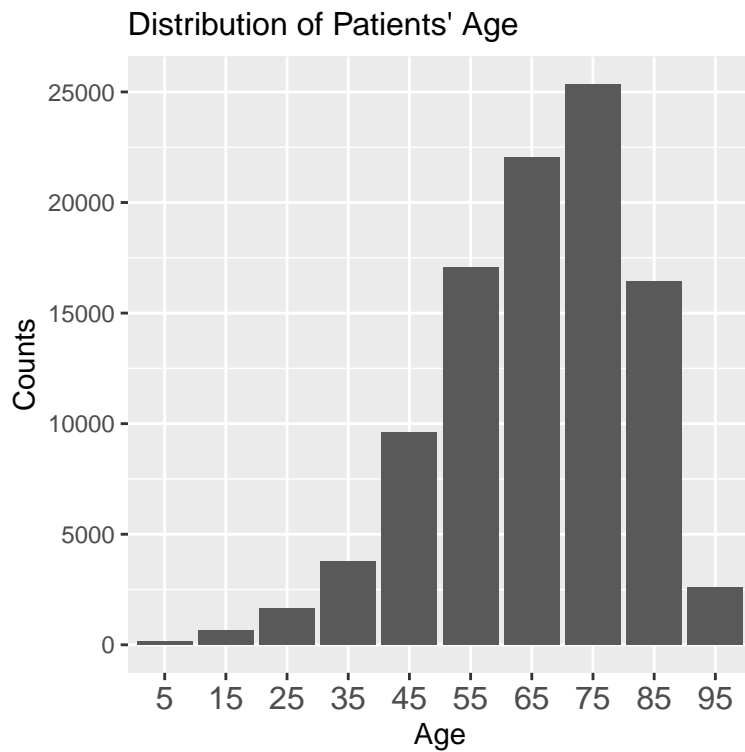
Distribution of Patients' Age
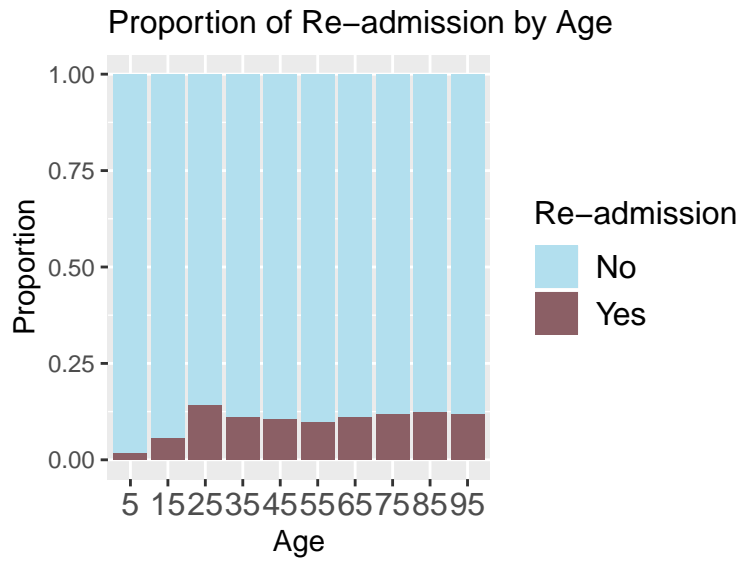

Figure 4: Distribution of patients' age

Figure 5: Proportion of re-admission within each age group

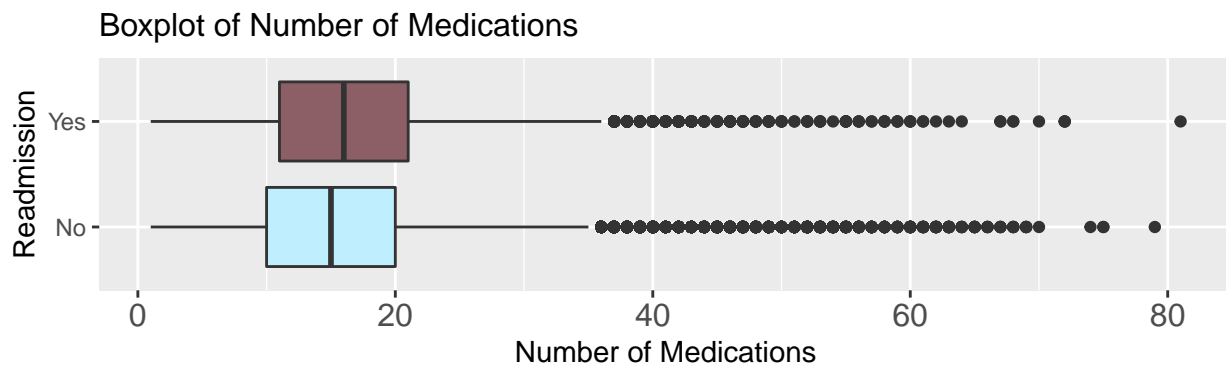## Medication and Procedures vs. Re-admission

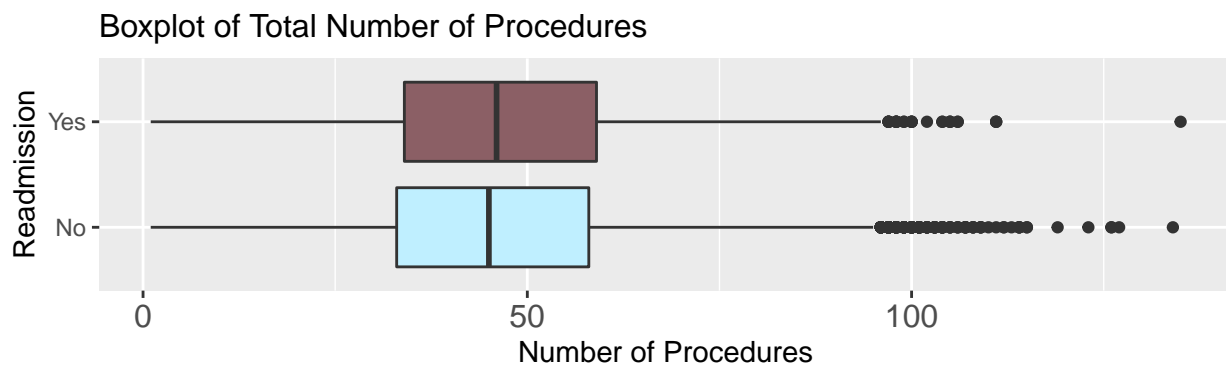Figure 6: Boxplot of number of medications for each re-admission type

Figure 7: Boxplot of total number of procedures for each re-admission type

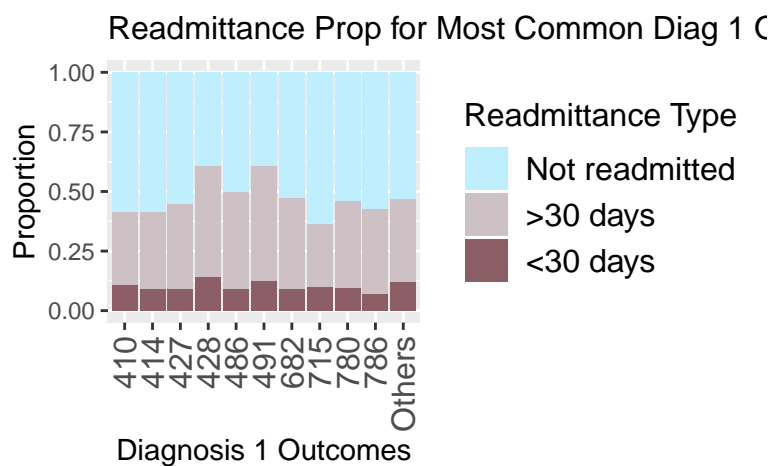**Diagnosis 1, 2, 3, vs. Re-admission**

Figure 8: Stacked bargraph of proportion of re-admission for top 10 most frequent outcomes of diagnosis 1
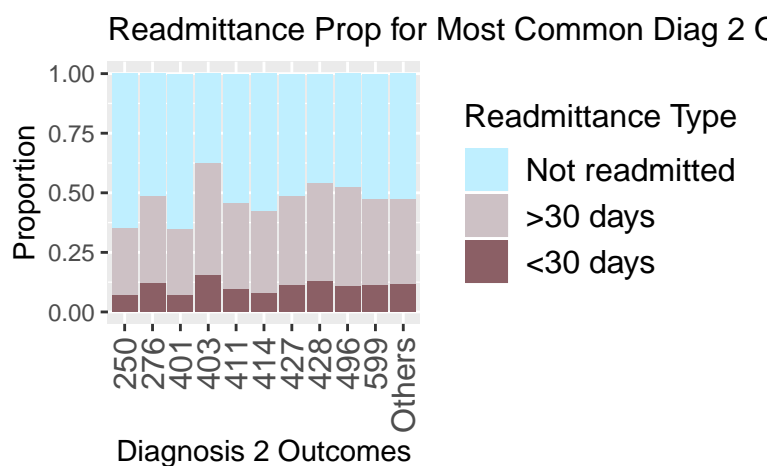

Figure 9: Stacked bargraph of proportion of re-admission for top 10 most frequent outcomes of diagnosis 2
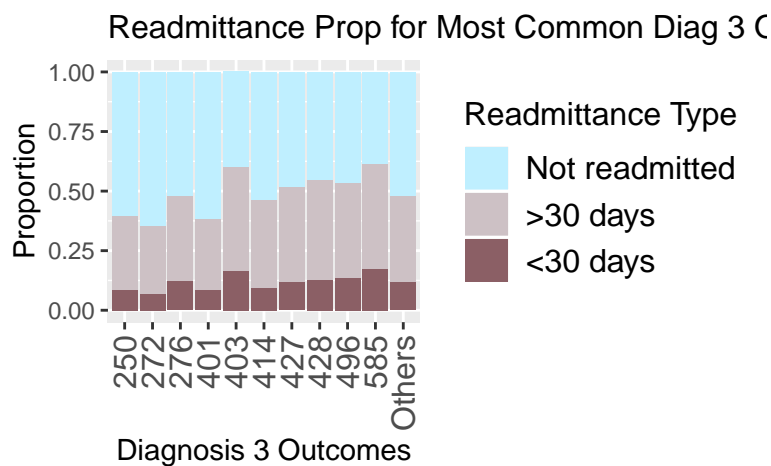

Figure 10: Stacked bargraph of proportion of re-admission for top 10 most frequent outcomes of diagnosis 3