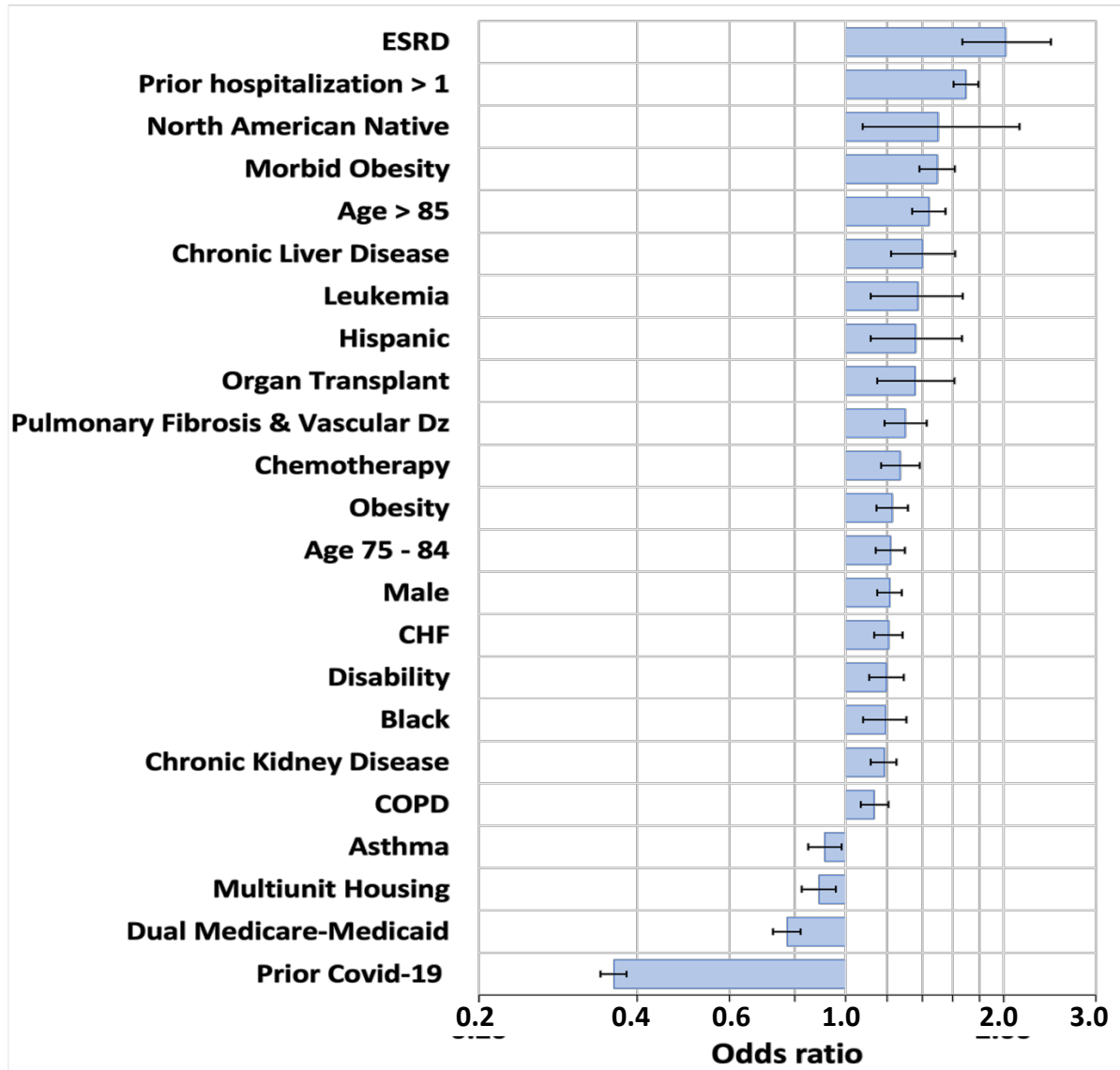


Risk Model for Breakthrough Hospitalization



- Risk of breakthrough hospitalization increases with time elapsed since mRNA vaccination with odds ratio increasing to 2.5 at 6 months post vaccination
- Prior COVID-19 infection has a major protective effect against breakthrough hospitalization
- There is a step up in risk in the 75-84 and again in the over 85 age categories compared to the 65-74 category
- Risk model can be used to stratify the over 65 population to best select those in most need of booster vaccine dose

Logistic Regression Model performance:
AUROC 0.73, balanced accuracy 0.67