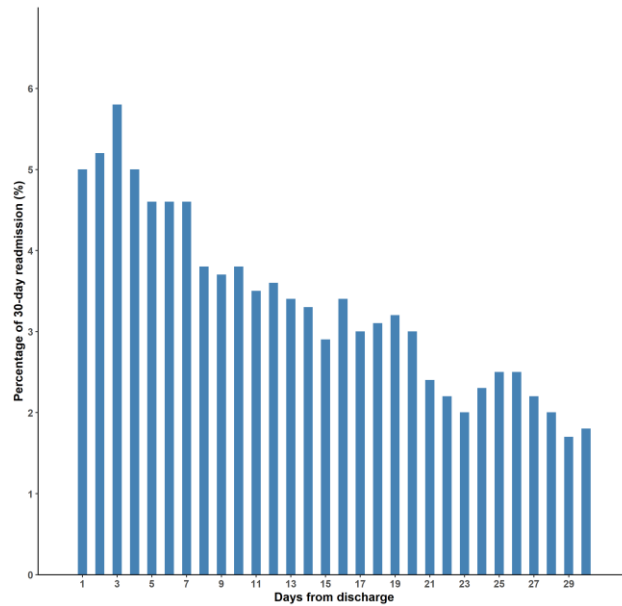


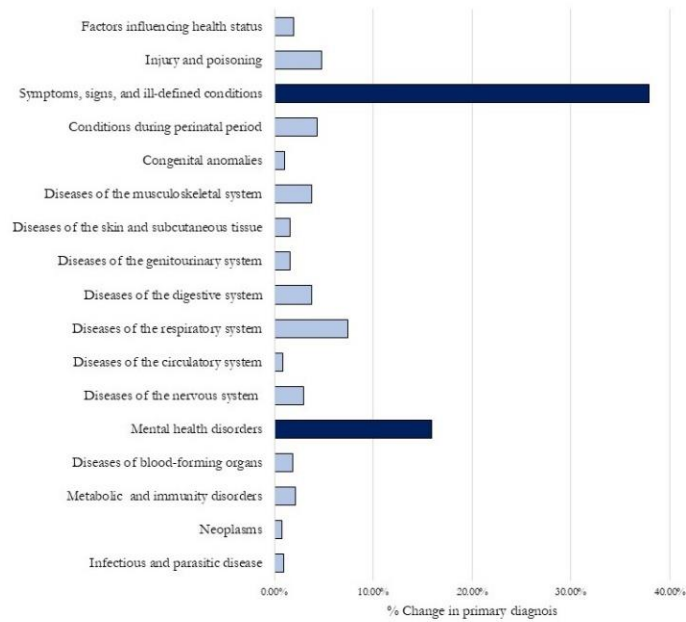
**Table S1:** Predictor variables included in the readmission prediction models.

Variable Type	Prediction Model Prior to Admission (PT-PDR)	Prediction Model at Admission (AD-PDR)	Prediction Model at Hospital Discharge (DS-PDR)
<b>Demographics</b>			
Age			
Race	X	X	X
Gender			
<b>Socioeconomic status</b>			
Insurance type	X	X	X
<b>Provider density</b>			
Designated medically underserved area (MUA)	X	X	X
<b>History of hospital visits</b>			
Prior Treat-and-Release ED visits	X	X	X
Prior hospital readmission			
<b>Community-level social determinants of health</b>			
The percentage of people with an income below 100% federal poverty level (FPL)			
The percentage of homes with no vehicles	X	X	X
The percentage of people with no high school diploma			
The percentage of the unemployed person			
<b>Individual-level social determinants of health</b>			
Potential health hazards related to children's family conditions		X	X
<b>Diagnosis at admission</b>		X	X
<b>Hospital characteristics</b>			
Children's hospital status			
Hospital location		X	X
Hospital ownership type			
Hospital bed size			
<b>Hospital travel distance</b>		X	X

Diagnosis during hospitalization	X
Hospital procedures	X
Discharge planning	X
Hospital length of stay	X



**Figure S1:** Timing distribution (%) of pediatric readmission after hospital discharge.



**Figure S2:** Changes (%) in primary diagnosis after hospital admission by diagnosis groups.