Simulated Hospital Report

2020 Encounter Report for Rhode Island Hospital

Encounter **reasons** and visits by date from a simulated population of 10k Rhode Islanders.

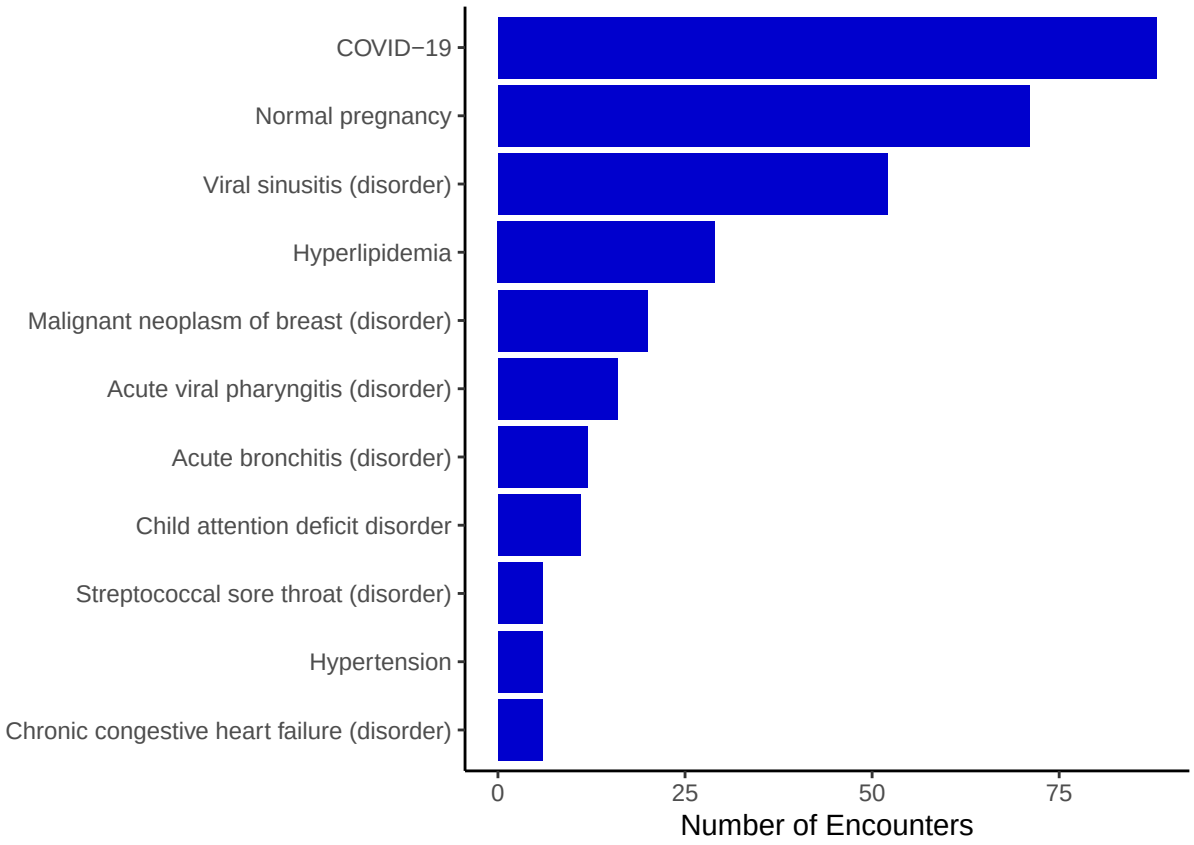
Data simulated using synthea: https://github.com/synthetichealth/synthea

Overview

- **509** individuals visiting
- **Encounter for symptom (procedure)** was the top encounter type
- **COVID-19** was the top condition targeted during encounters

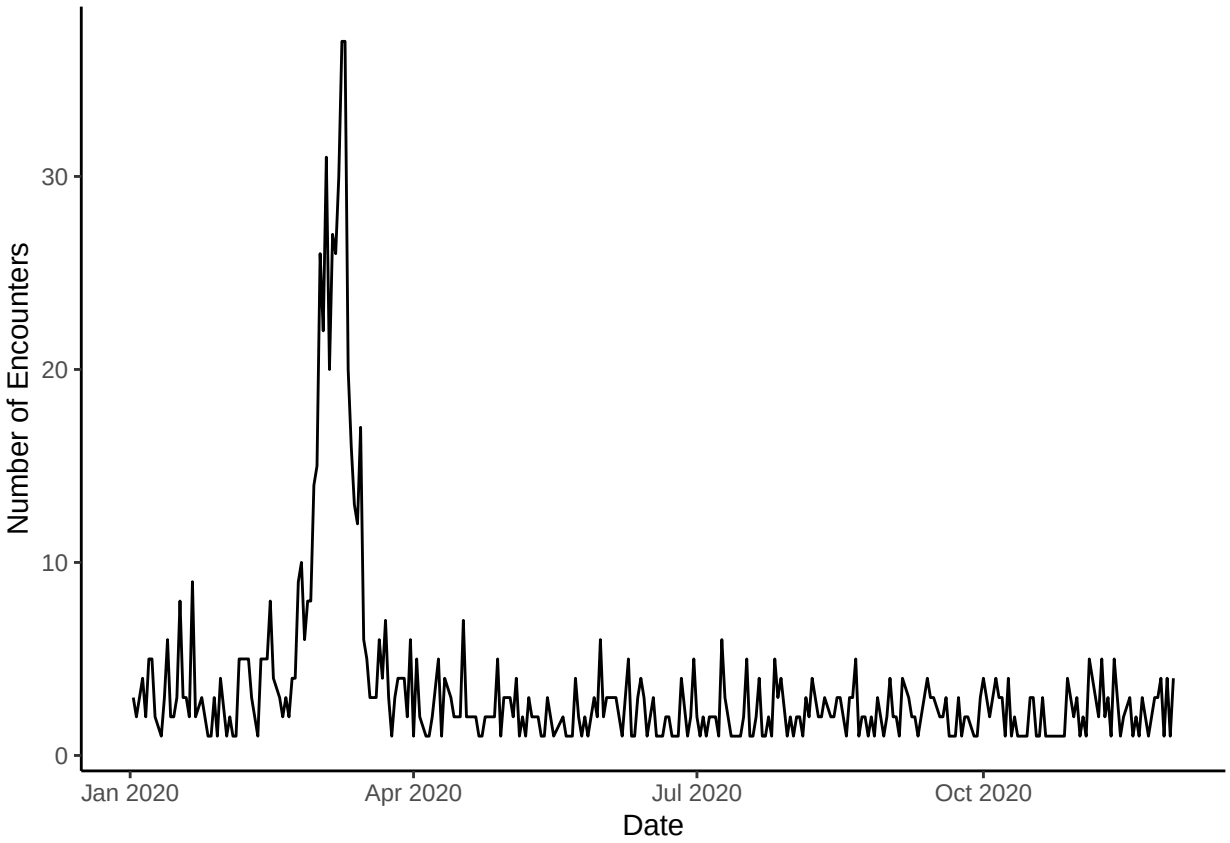
Top 10 reasons for visit

```
visits_by_reason %>% top_n(10, n) %>% drop_na() %>%
  ggplot()+
  geom_col(aes(y=reorder(reasondescription, n), x=n), fill='mediumblue')+
  theme_classic()+
  xlab('Number of Encounters')+
  ylab('')
```



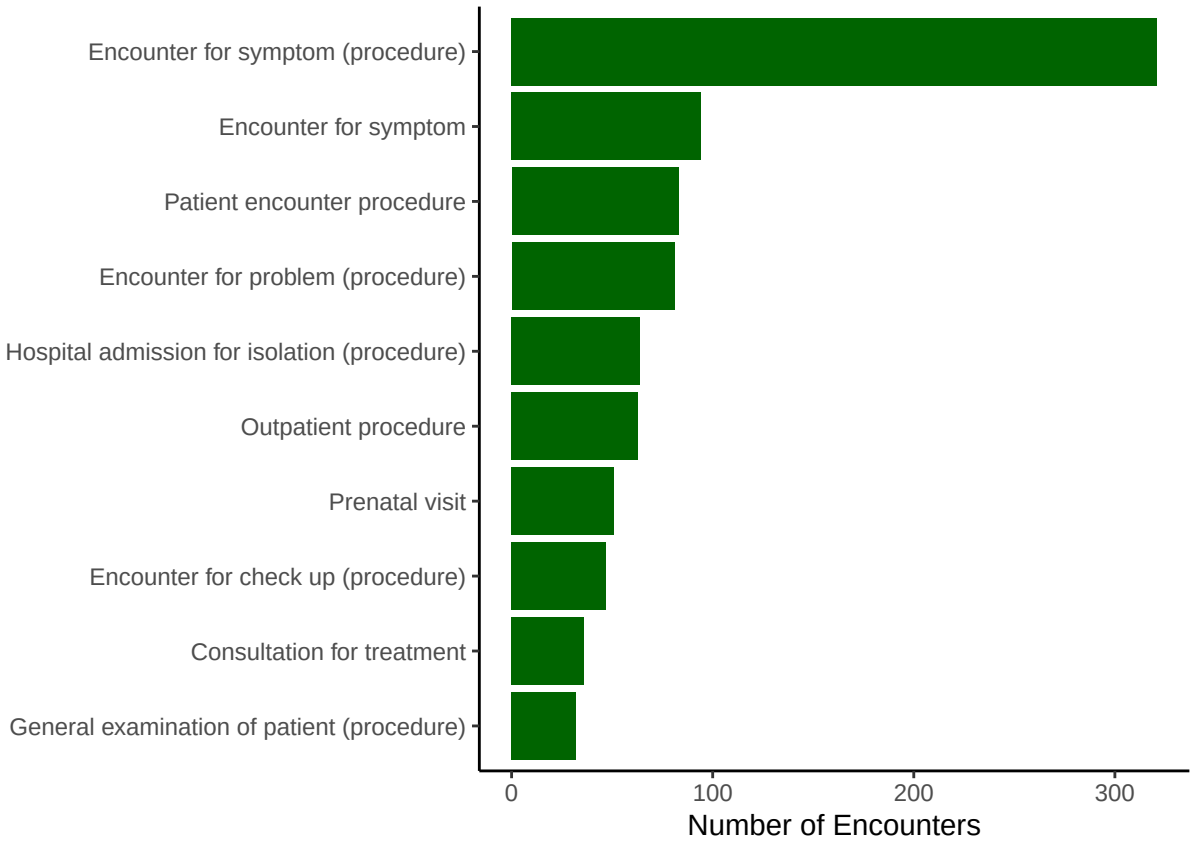
Encounters by date

```
ggplot(visits_by_date)+
  geom_line(aes(x=start_date, y=n))+
  xlab('Date')+
  ylab('Number of Encounters')+
  theme_classic()
```



Top Encounter Types

```
data %>% count(description) %>% drop_na() %>%  top_n(10,n) %>%
  ggplot()+
  geom_col(aes(y=reorder(description, n), x=n), fill='darkgreen')+
  theme_classic()+
  xlab('Number of Encounters')+
  ylab('')
```


Encounter for symptom (procedure)
Encounter for symptom
Patient encounter procedure
Encounter for problem (procedure)
Hospital admission for isolation (procedure)
Outpatient procedure
Prenatal visit
Encounter for check up (procedure)
Consultation for treatment
General examination of patient (procedure)
0
100
200
300
Number of Encounters