Surveillance Report for Central Hospital

Introduction

This document aims to analyze the linelist data to provide insights into the outbreak dynamics. The analysis includes age distribution, epidemic curve, gender distribution, symptoms analysis, geographic distribution, case fatality rate by age group, time from infection to hospitalization, and hospital stay duration.
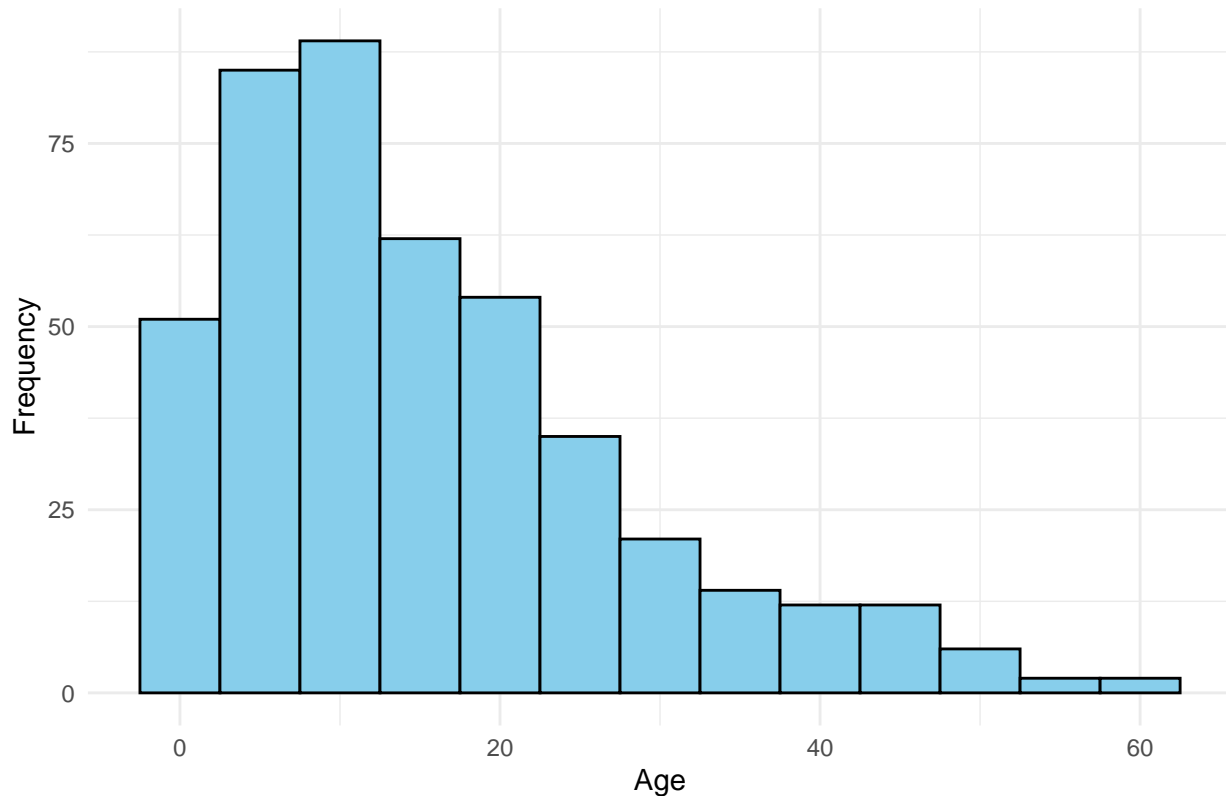
```
pacman::p_load(ggplot2,rio,dplyr)
library(tidyr)
```

Data as of 2024-05-22

```
linelist_hospital <- rio::import('linelist_cleaned.xlsx') %>% filter(hospital==params$hospital)
```

There were 454 cases in Central Hospital (up to 2024-05-22)

Age Profile of Cases

66.5% of cases were younger than 18 years (296 of 445).

Figure 1 On average, cases had an age of 15.72

```
# Symptoms Analysis
symptoms <- linelist_hospital %>%
  select(fever, cough, chills, aches, vomit) %>%
  pivot_longer(cols = everything(), names_to = "symptom", values_to = "presence") %>%
  filter(presence == "yes")
```

```
ggplot(symptoms, aes(x = symptom)) +
  geom_bar(fill = 'purple', color = 'black') +
  labs(title = 'Symptom Analysis', x = 'Symptom', y = 'Count') +
  theme_minimal()
```


Symptom Analysis