Impacts of the "Winter Crisis" and Covid on Scotland's Hospital Sector

Public Health Scotland - Dashboard and Analysis

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Overview

Overview

Topics to explore:

- What impact has the winter had on the hospital (acute care) sector?
- What impact has covid had on the hospital sector?
- What are the risks of winter during covid?

Data & related ethics:

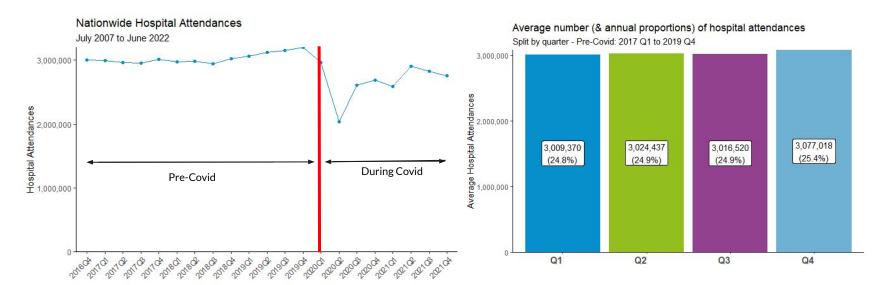
- Open Source Data from Public Health Website
 - Free to be analysed by anyone for any purpose
- Data is aggregated in a way which anonymises individuals
- Analysis presents the actual data and any metric calculated from this data

PHS - Dashboard



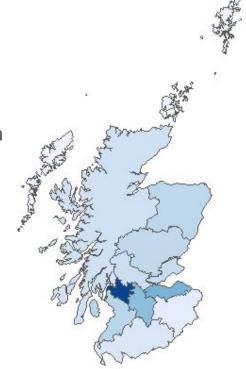
Demographics

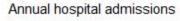
Total Hospital Admissions



Geographic

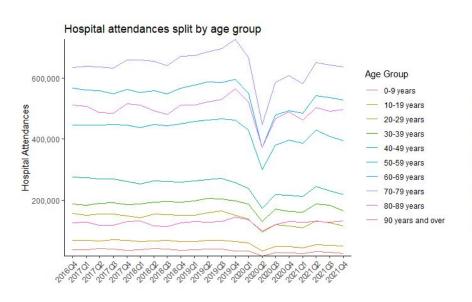
- Largest number of hospital admissions in the Central Belt:
 - Greater Glasgow & Clyde
 - Lothian
 - Lanarkshire
 - Arran and Ayrshire



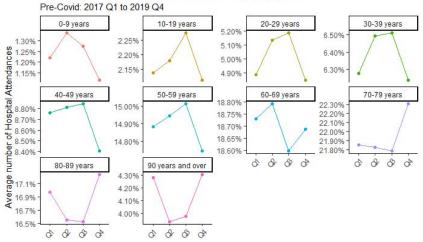


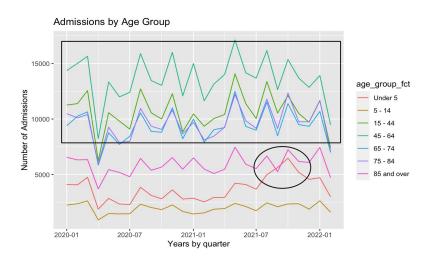






Average number of hospital attendances split by quarter





Age Brackets spanning 15 - 45's largest cohort being infected and being being admitted to hospital

Spike in Under 5's

Linked to second Covid "wave"?

Increase in births?

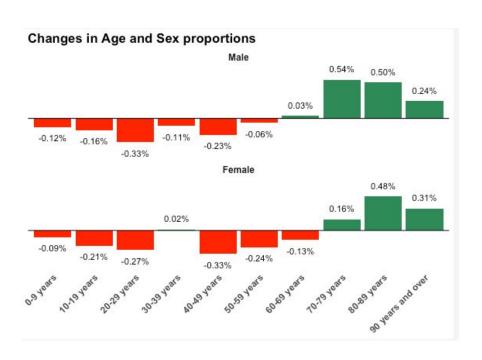
Gender split by quarter

2016 Q4 to 2019 Q4



Roughly even split of Males and Females

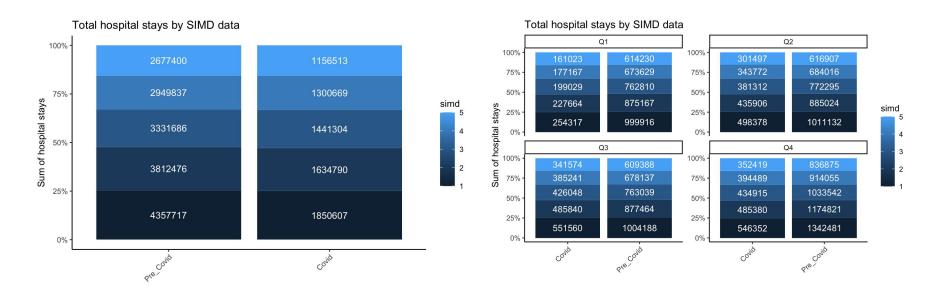
Though it should be noted that there are fewer men in the older age groups (over 75's).



Increase amongst older age groups overall.

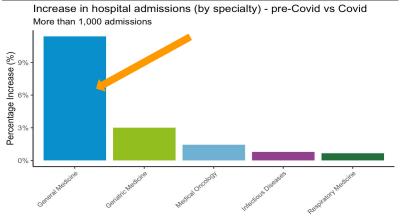
Predominantly males in the 70-79 and 80-89 age bracket; over 90's increase is in the female cohort (is this due to females living longer?)

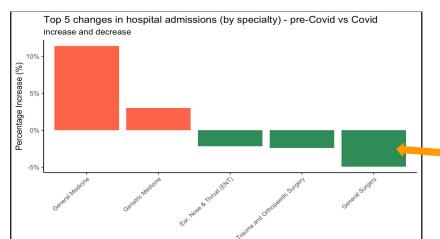
What time from does this cover? Is it only covid or pre-covid/covid? admissions?



Impact on Hospitals

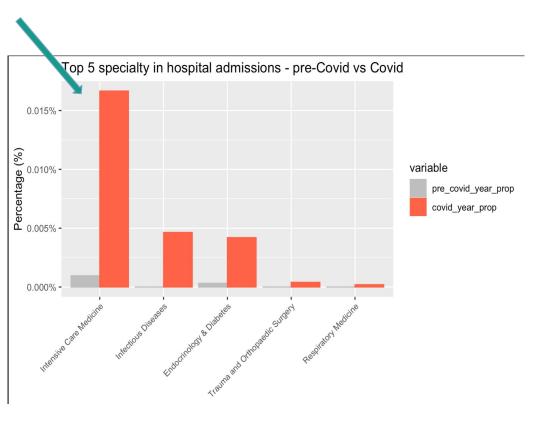
Admissions by specialty: pre-covid vs covid





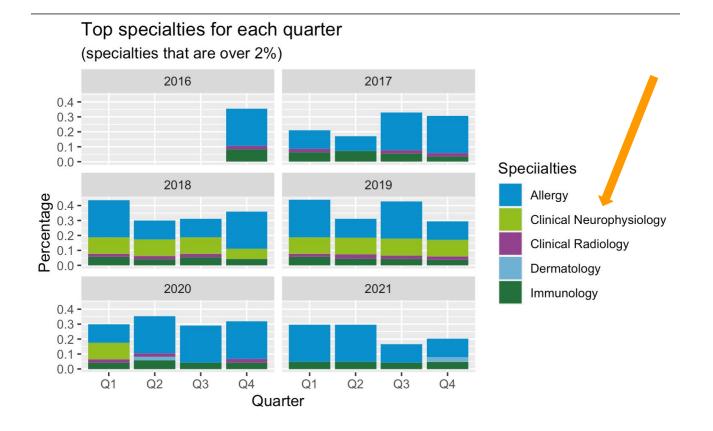
- -Measurement used : Changes as a percentage of total admissions
- -Increase and decrease
- Why do we use this one in out dashboard

Top 5: covid time vs pre-covid



- -Different measurement (changes as a percentage of pre-covid year)
- -Why is this graph important too?

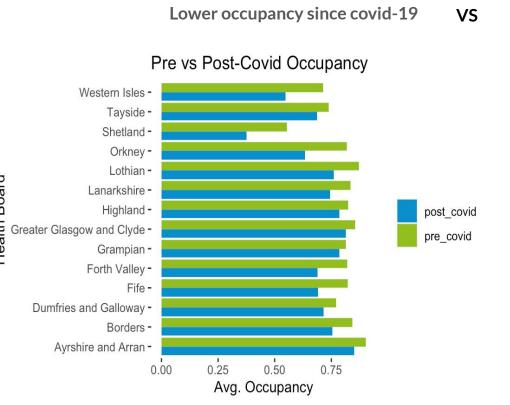
Specialties by quarter



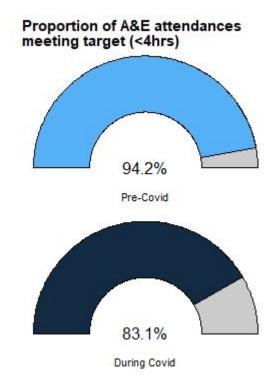
- -Measurements used
- -Not much difference
- -Clinical Neurophysiology, no data before 2018?

Hospital KPIs

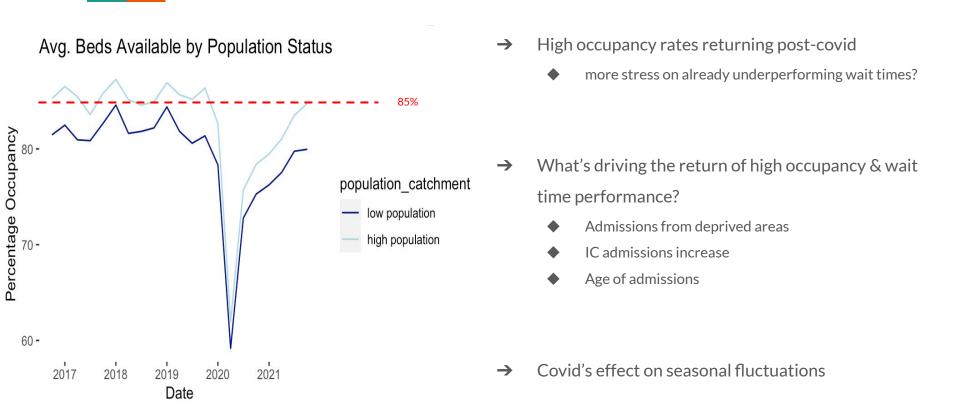
Hospital Performance Indicators



Longer wait times since covid-19



Future of Hospital Performance



Summary

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Seasonal trends:

- Higher proportion of males attending hospitals in winter (51.4%)
- Older age groups (over 60s) represent a large proportion of hospital visits

Impact of Covid:

- On demographics
 - Total attendance has reduced
 - Higher attendance rates of males and females over the age of 70
- On hospitals:
 - Proportions of specialties relating to covid treatment have increased significantly
 - Bed occupancy is on the rise
 - A&E waiting times are getting longer