

Situation report.

02/12/20

Greg Fell

# 1 epidemiology

# Epidemiology in one slide

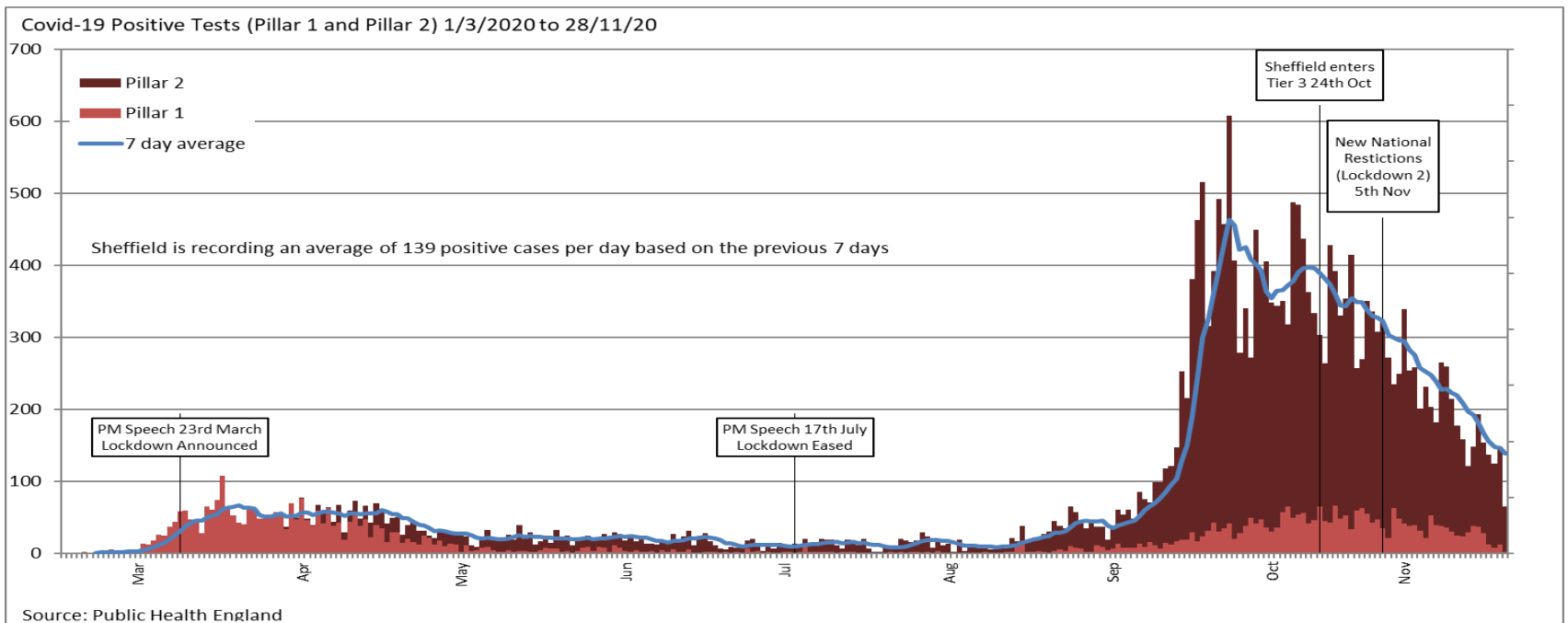
HIGH & fluctuating / falling rate. 139

cases per day

175 / 100,000 people over last 7d

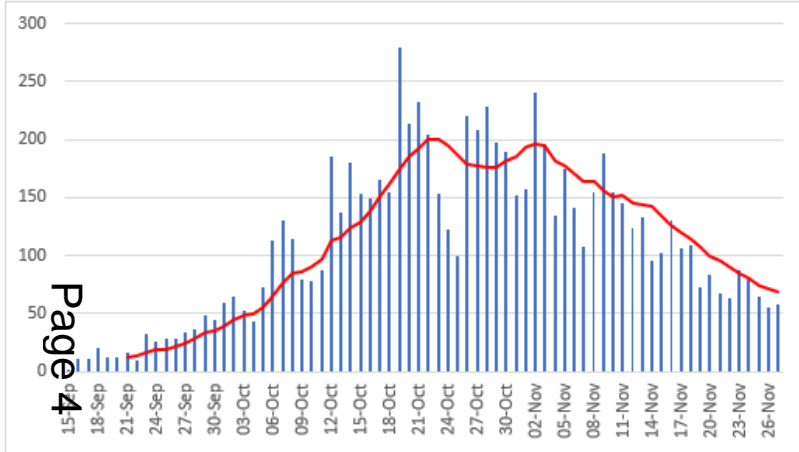
8.5% positivity.

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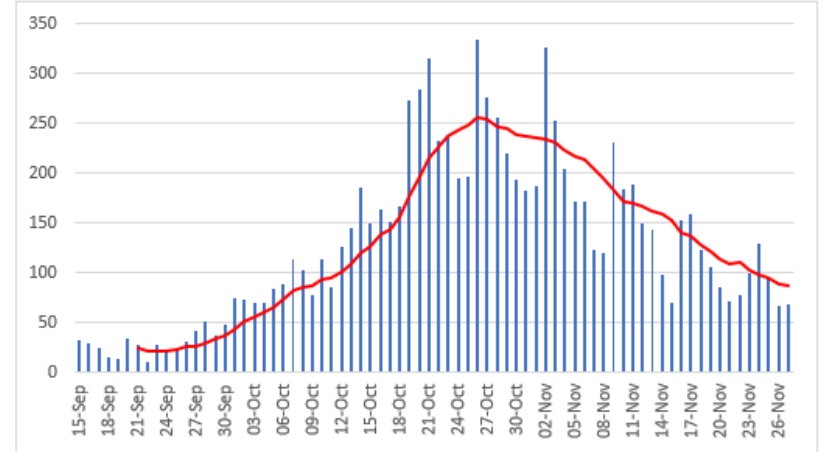


1/12/20

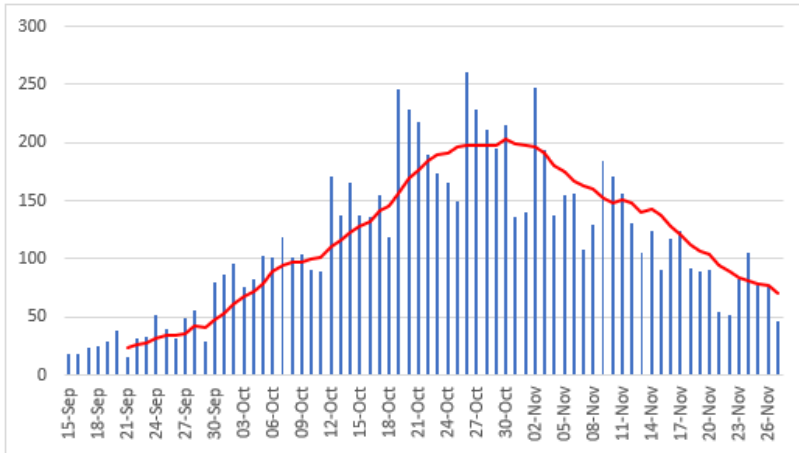
Barnsley



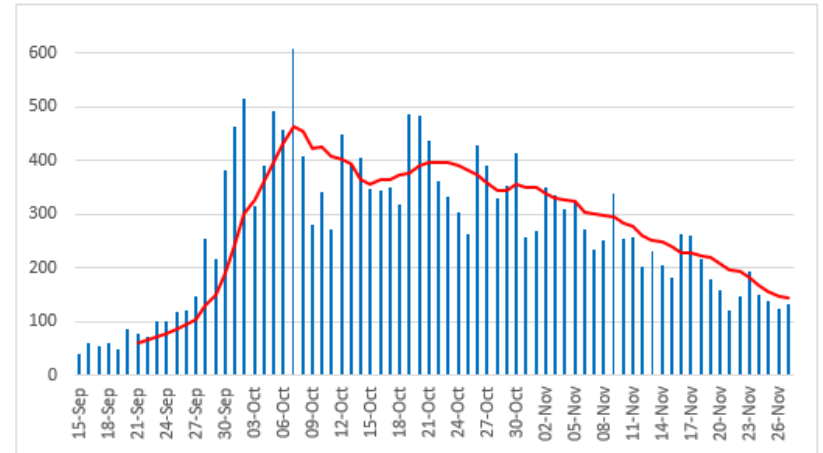
Doncaster



Rotherham



Sheffield

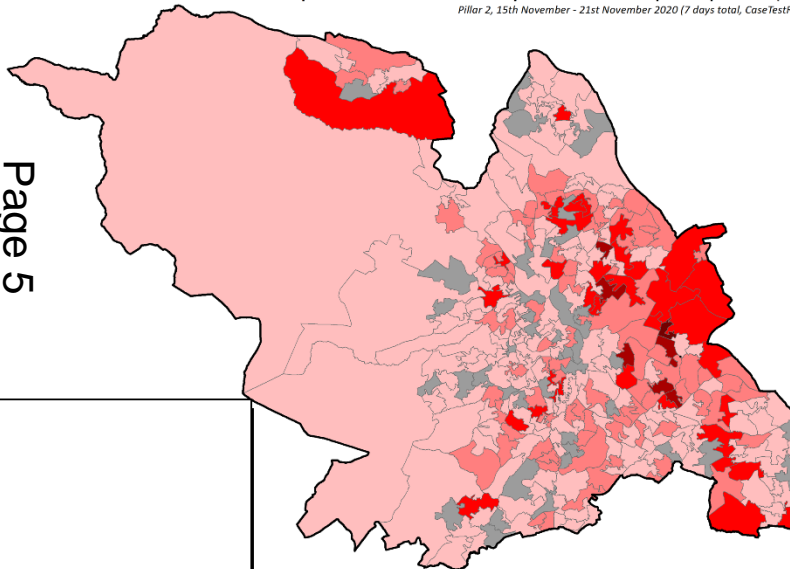


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Still principally household transmission  
Across the city.  
E of Sheffield becoming a concern (same  
pattern as we saw before)

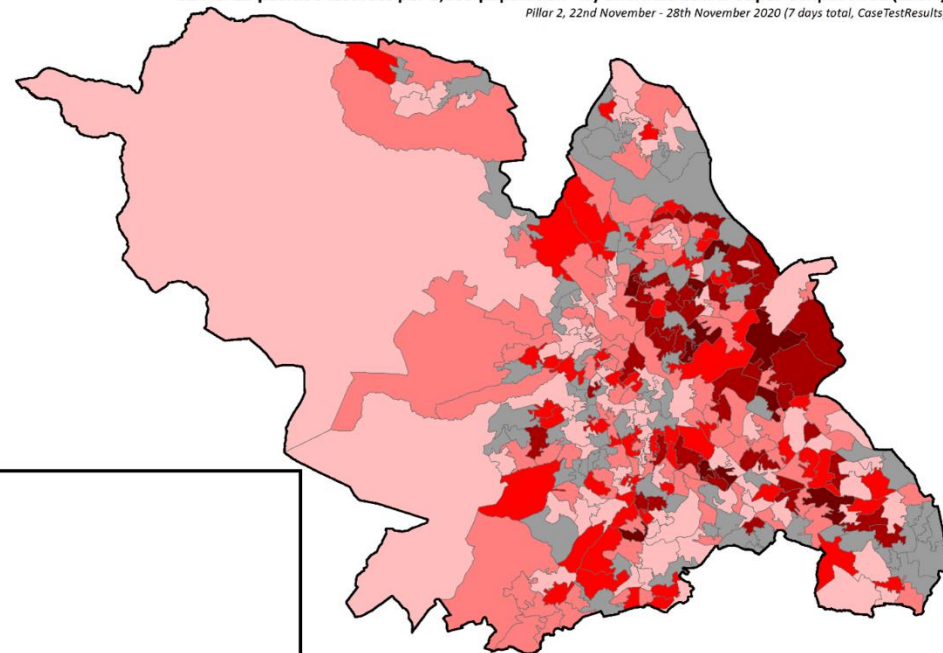
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COVID-19 positive test result numbers by Sheffield Lower Super Output Area (LSOA)  
*Pillar 2, 15th November - 21st November 2020 (7 days total, CaseTestResults)*



\* Note population denominator for crude rates now uses ONS 2019 mid-year population  
Mapped by Performance and Intelligence Team, Dale Burton, 24  
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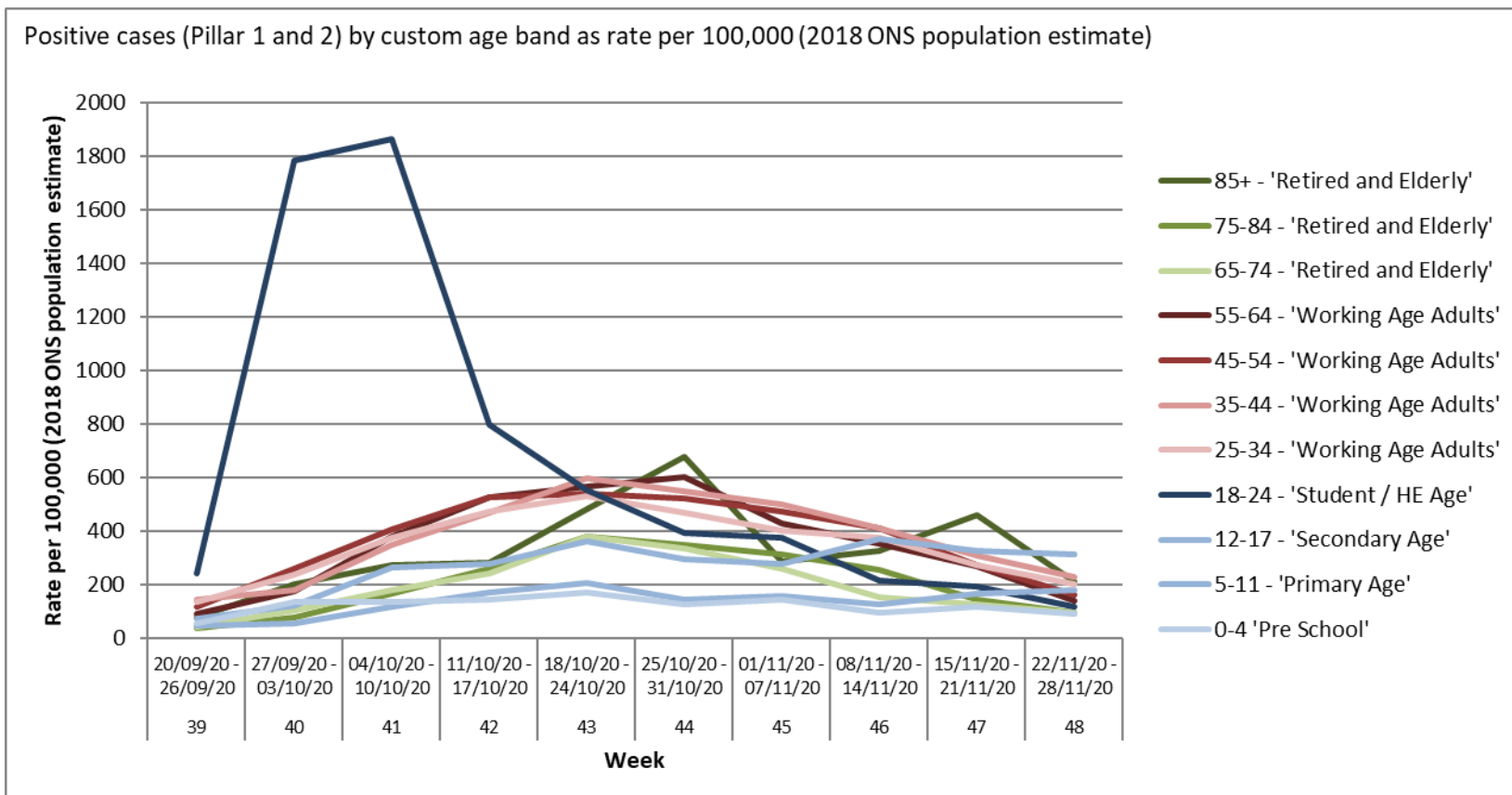
COVID-19 positive test rate per 1,000 population\* by Sheffield Lower Super Output Area (LSOA)  
*Pillar 2, 22nd November - 28th November 2020 (7 days total, CaseTestResults)*



\* Note population denominator for crude rates now uses ONS 2019 mid-year population estimates  
Mapped by Performance and Intelligence Team, Dale Burton, 30/11/2020  
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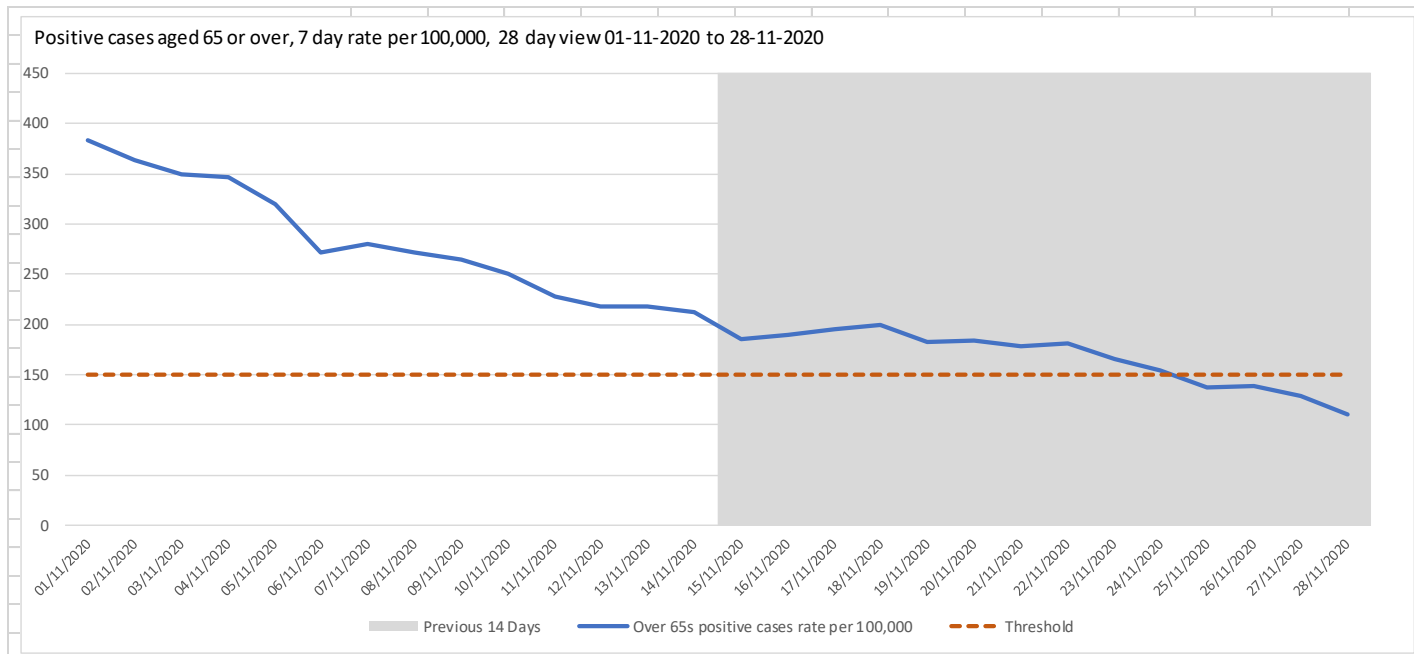
Age specific rates decreasing across the board.  
 Average age of a case is stable to falling  
 The rate is stable or decreasing in all age bands

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# Incidence in the elderly

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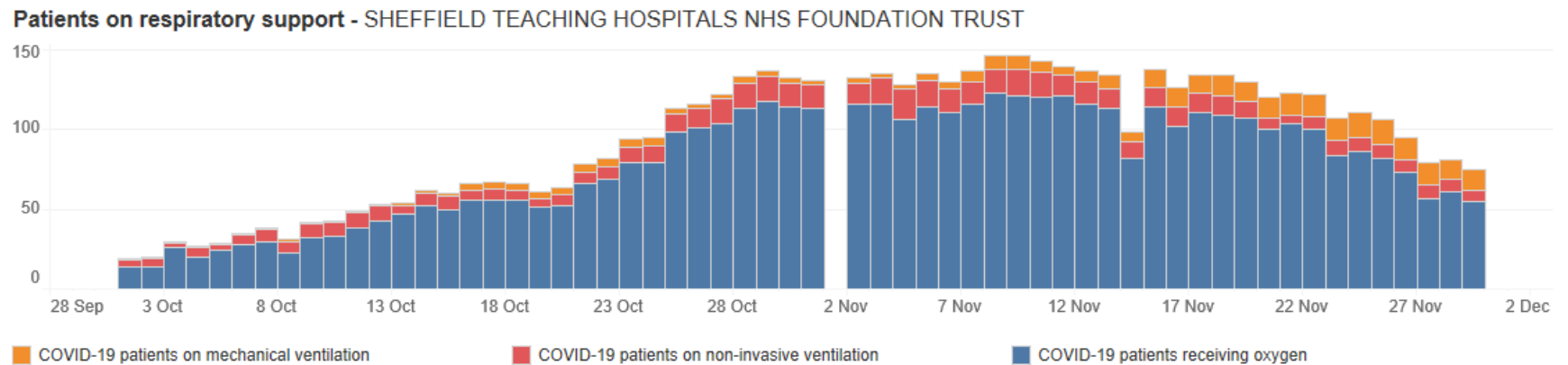
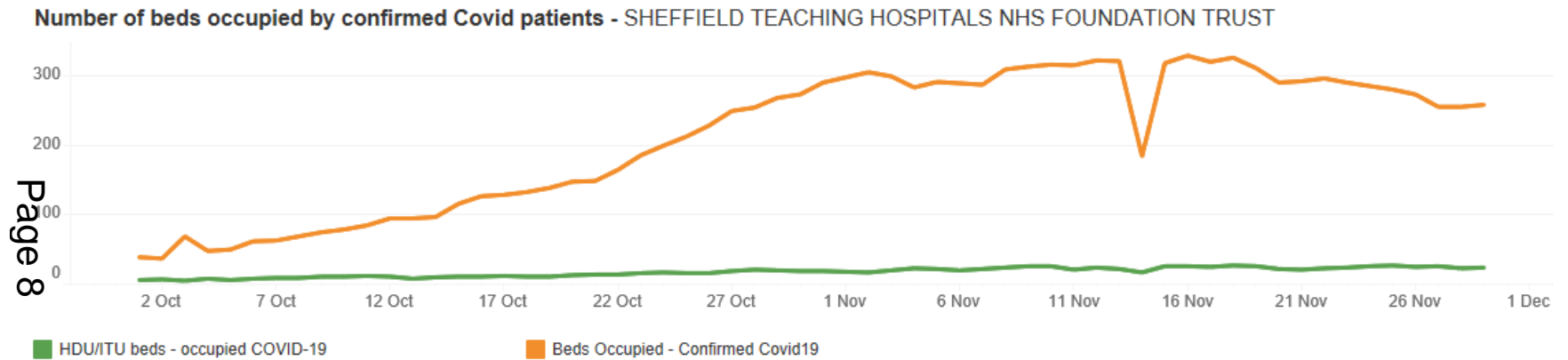


Previous 14 days														
Date	15/11/2020	16/11/2020	17/11/2020	18/11/2020	19/11/2020	20/11/2020	21/11/2020	22/11/2020	23/11/2020	24/11/2020	25/11/2020	26/11/2020	27/11/2020	28/11/2020
7 day rate per 100,000 for over 65s	185.3	189.5	194.8	199.1	182.1	184.2	177.9	181.1	166.2	154.6	137.7	138.7	129.2	111.2
Below Threshold? (150) per 100,000														
Sustained reduction? (less than threshold for 10 out of 14 days)	<b>No sustained reduction</b>													

# Hospital activity falling. Slowly

## The interpretation of this is nuanced. 1/12

Region Name: North East And Yorkshire | STP Name: South Yorkshire And Basselaw ICS | Trust\_Name: SHEFFIELD TEACHING HOSPITALS NHS FOU... | Select Period: 01/10/2020 to 29/11/2020





# Epi Summary

- <175 cases / 100k population in 7d
- Positivity 8.5% and falling
- $R_0 = 0.9$  (high but falling baseline infection rate) – epidemic is shrinking.
- Significant proportion of STH beds have a patient with COVID. Flat but at this level is still VERY difficult to manage.
- Thus the messaging needs to reflect we mustn't do anything that will make it worse. Numbers far too high for comfort.

## 2 Where next.

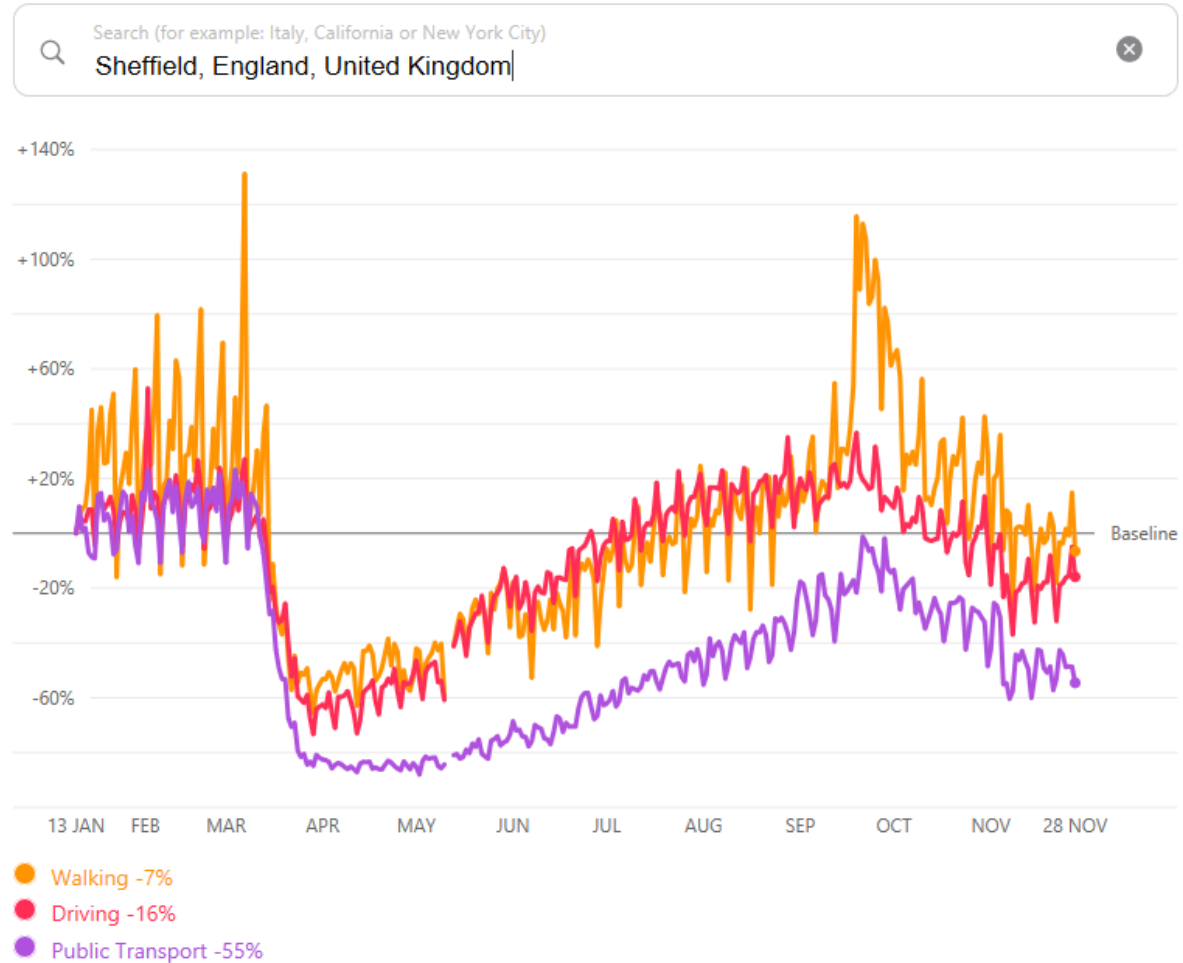
Lockdown did the job  
expected.

As did the restrictions prior to  
and after.

# Lockdown aim to get to May levels of mobility, currently June

## Mobility Trends

Change in routing requests since 13 January 2020

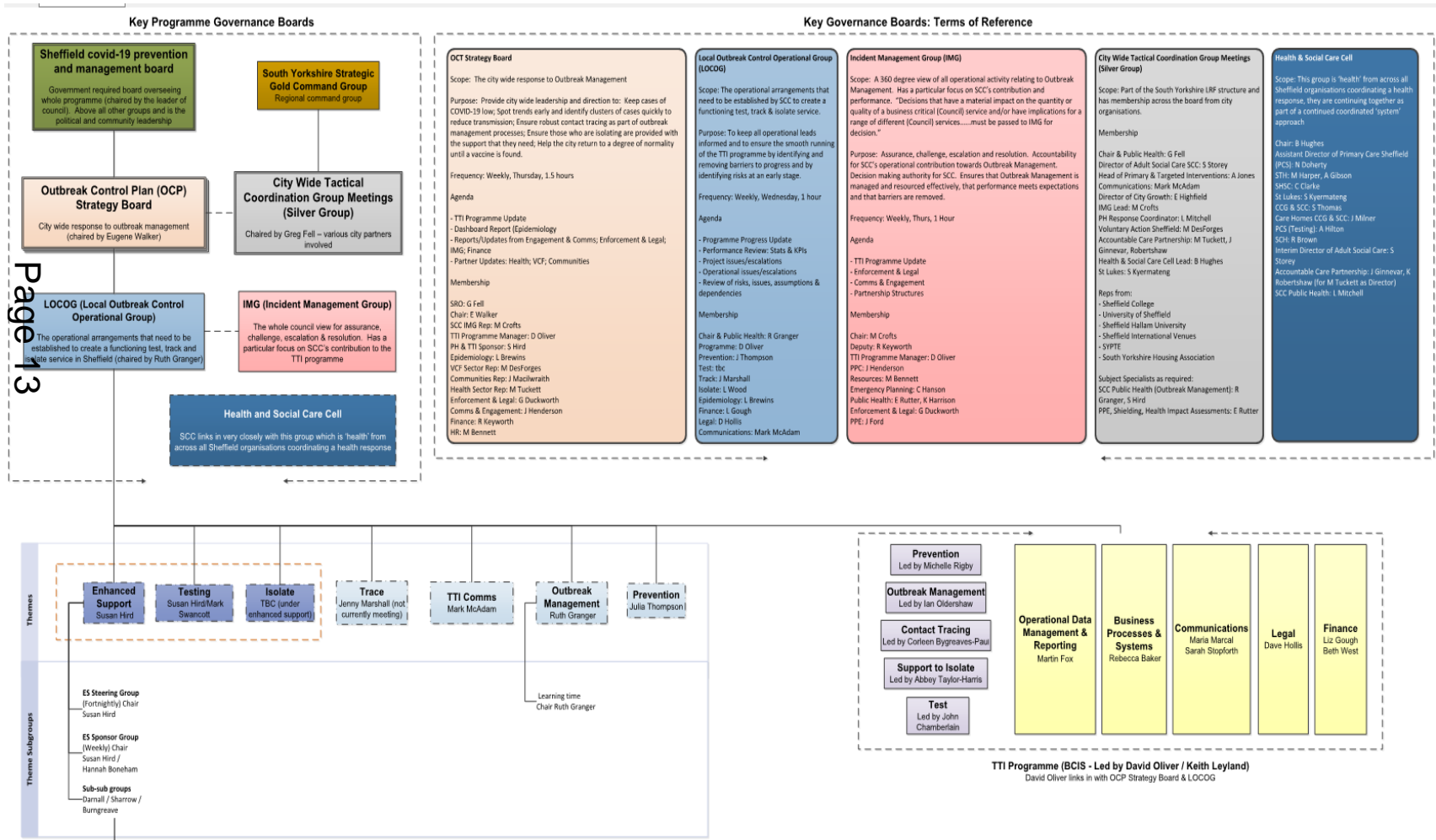


# Purpose

- Get  $R_0 < 1$
- Get level of infection back to mid May levels
- $R_0$  driven by out of household contacts and lockdown will make a difference to this
- Reduce mean number of contacts per case
- May reset expectations and behaviour?
- Some caveats – when people get fed up!
- Doesn't change the fundamentals
- $R_0 = 0.9$  where case numbers are low vs high. Room for manoeuvre is extremely limited.

# Strategy and plan remains in place

Strategy = Keep people safe, protect vulnerable, reopen Sheffield



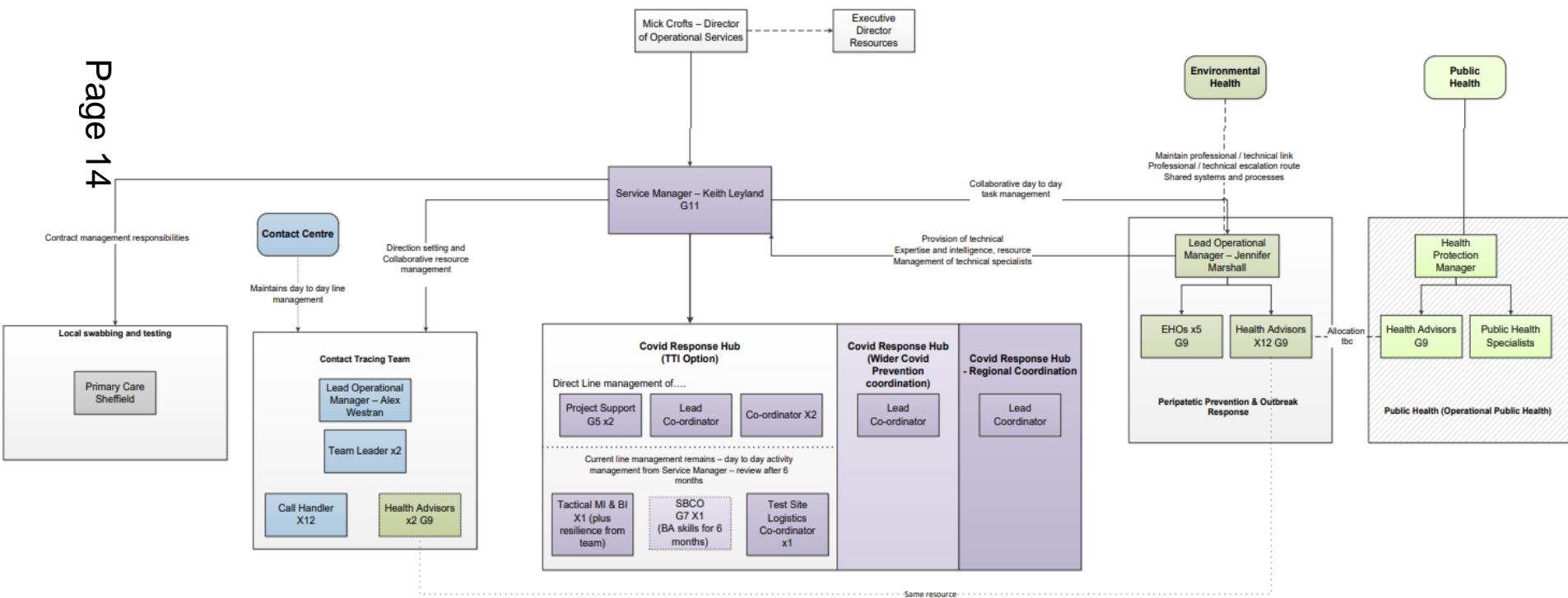
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# Operational response across many parts of the council

## Coordinated through the COVID hub

This, and the range of services stood up, are having impact

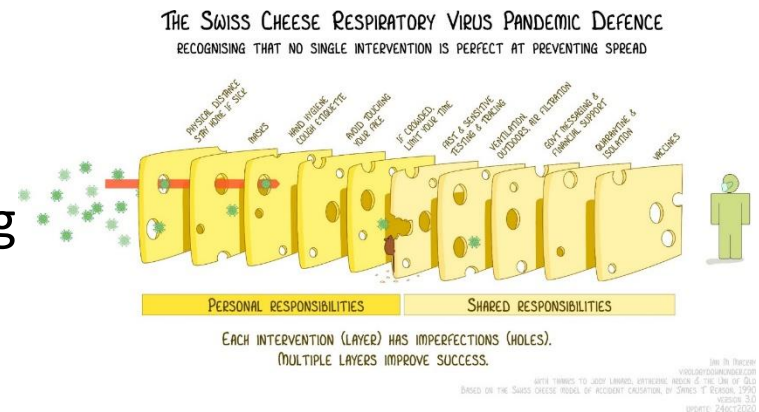
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# Outbreak control plan is largely intact

- Names as lead against each of the main themes
  - Prevention
  - outbreak management
  - Testing
  - contact tracing
  - support for isolating and shielding
  - other vulnerable groups
  - surveillance data and intelligence
  - Comms
  - enforcement and compliance
  - settings of concern
- Developed established infrastructure to deliver
- We keep adding – asymptomatic testing, vaccine.

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Outbreak plan <https://www.sheffield.gov.uk/home/your-city-council/preventing-and-managing-covid-19>

SCC Cabinet paper on implementing the

plan <http://democracy.sheffield.gov.uk/mglIssueHistoryHome.aspx?Ild=31389>

# Forward look

## 1. Mid December review.

- Tier 3 or 2, run up to Christmas, Christmas itself
- $R_0$  0.9 (but with high rate of infection)

## 2. Testing

- Testing in the context of everything else
- Testing for those with symptoms most important. Most with symptoms don't get tested.
- Asymptomatic testing and Lateral Flow Tests

## 3. Prep for vaccination. We cant relax until we have herd immunity

## 4. The fundamentals will remain the fundamentals till the end

## 5. The best way to protect the economy and our vulnerable loved ones is to keep community transmission low