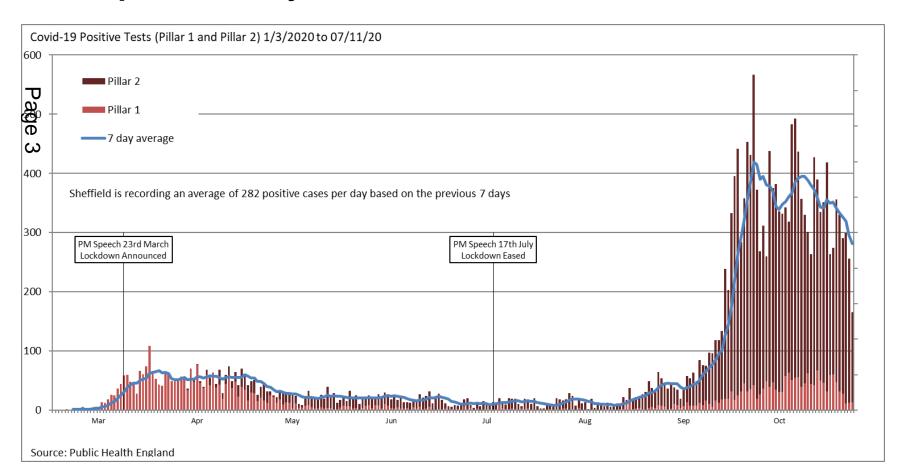
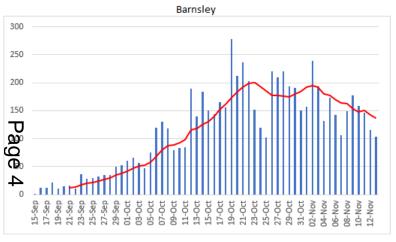
# Situation report. 18/11/20 Greg Fell

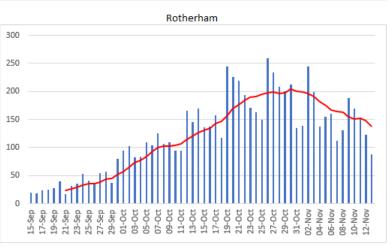
# 1 epidemiology

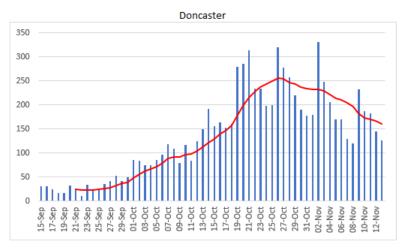
# Epidemiology in one slide HIGH & fluctuating / falling rate. 300 cases in 7 days / 100,000 people 15% positivity.

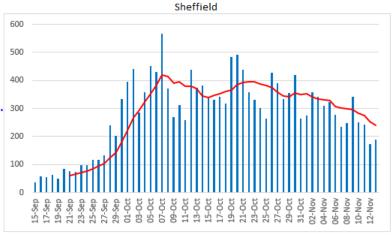


# Trends – daily cases Settling at a new cruising altitude



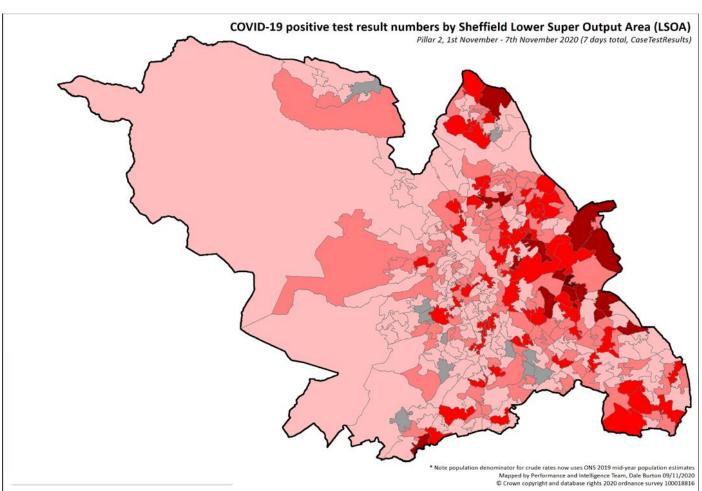






E of Sheffield becoming a concern (same pattern as we saw before)

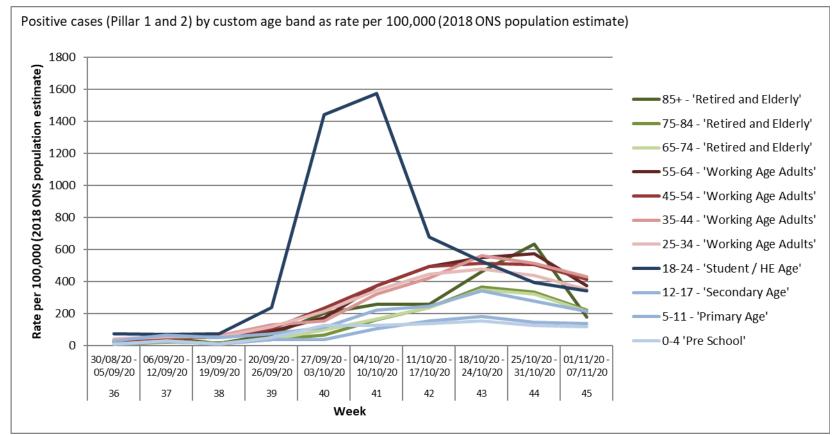




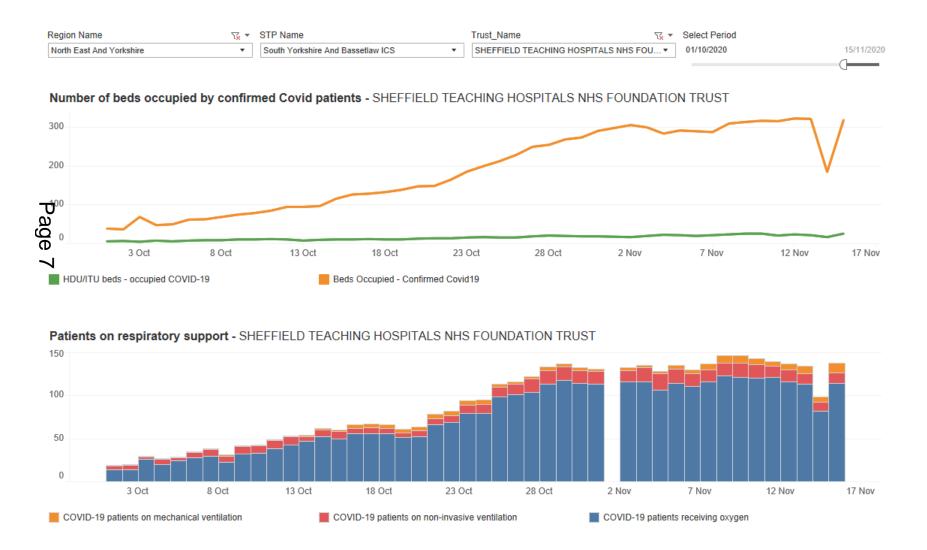
Age specific rates increasing across the board.

Average age of a case is increasing steadily Taking out 18-24 we are like S Yorks
The rate is decreasing in all age bands





# Hospital activity flattening? The interpretation of this is nuanced.



# **Epi Summary**

- 300 cases / 100k population in 7d 2000 per week
   (Number being tested is coming down?)
- Poss we will get to 200 by 2 Dec



Positivity above 14%

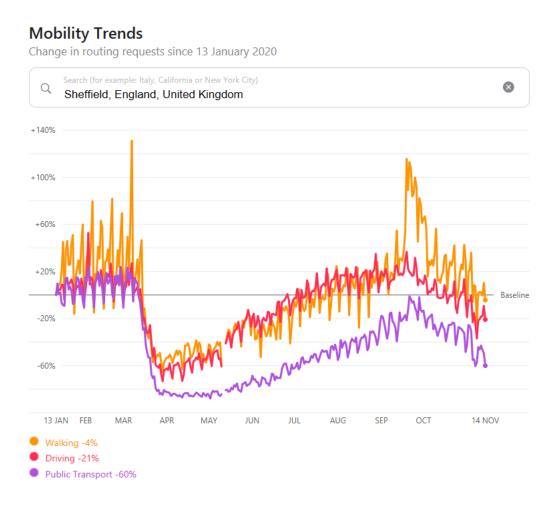
- Significant proportion of STH beds have a patient with COVID. Flat but at this level is still VERY difficult to manage.
- Thus the messaging needs to reflect we mustn't do anything that will make it worse. Numbers far too high for comfort.

#### 2 Two weeks into lockdown

Page

The tiered system prior to this HAS helped

# Mobility falling. Likely 2w left of lockdown will get to May levels of mobility, currently June



## Purpose

- Get R0<1</li>
- Get level of infection back to mid May levels
- R0 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

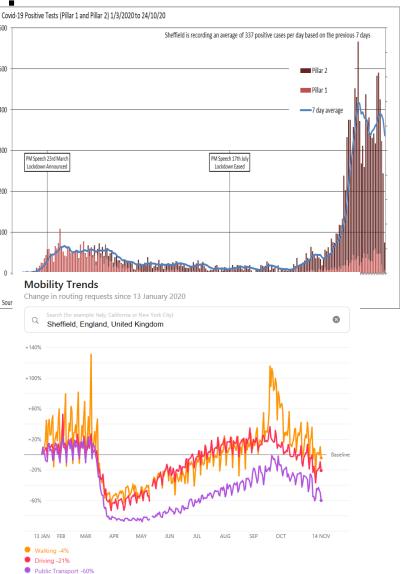
How long for? ....4 weeks?

What happens next?

 The measures currently in place have slowed spread (4d in March, 17d now)

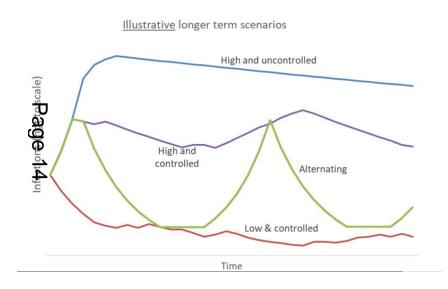
4 weeks will not, in and of itself, eradicate the virus.

- Not long enough?? See the curve shift from lockdown in March.
- This lockdown is less restrictive (education and many forms of employment)



- As restrictions are taken off on 2 Dec, recent positive changes might be lost
- ☑ We will be lucky to get R0 to 0.9 (March of lockdown got us to 0.6)
- R0 = 0.9 where case numbers are low vs high.
   Room for manoeuvre is extremely limited.

#### Scenarios for next 6m



High and controlled High uncontrolled Alternating Low and controlled

#### To get low and controlled

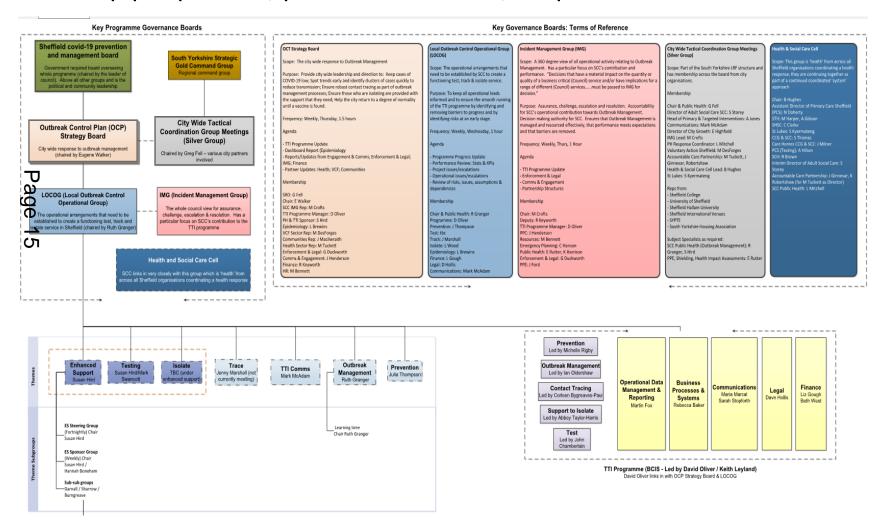
- Rapid and decisive interventions to push R well below 1 and maintain that for some time.
- Measures to hold R below 1 would need to be in place for longer in those areas that currently have higher prevalence
- Once prevalence is low, measures could eased somewhat.
- Substantial measures would need to be in place over winter in order to keep R around 1.
- Tier 1 is not enough to do so.
- Tier 2 with all the basic universal interventions in place MIGHT be.

 $\frac{https://www.gov.uk/government/publications/spi-m-o-covid-19-possible-scenarios-for-the-coming-months-28-october-2020$ 

https://www.gov.uk/government/publications/potential-trajectories-for-covid-19-in-the-next-6-months-29-october-2020

### Strategy and plan remains in place

Keep people safe, protect vulnerable, reopen sheff



## Plan is based on what makes most difference. No single thing.

- **Prevention** messaging, comms, approach to events and gatherings, enforcement (hard and soft)
- Managing individual incidents across multiple settings
- minimising testing delay had the largest impact on reducing onward transmissions. Making testing as accessible as possible. Page 16
  - consistent push on getting tested, even mild symptoms people need to understand why, and really believe it. How to get a test
  - **Optimising testing & tracing speed and coverage** especially in some of our communities where we know we have rates of infection. These latter three things have potential to prevent up to 80% of all transmissions
  - Optimising isolation we know 80% of people recommended to selfisolate don't - supporting people ++
  - Focus on consistent messaging, simplifying communications, consent and consensus.

### **Talking points**

- Compliance and lockdown v the nature of the illness itself
- Myths if you go into hospital you will never come out (treatments have improved massively, outcomes among hospitalised cases are hugely better)
  - Myths Its not so bad Still a serous illness, Incredibly infectious
  - Best way to protect Health service capacity to keep community transmission low
- Best way to protect vulnerable loved ones to to keep community transmission low
- Best way to protect the economy to keep community transmission low

#### Next week or two

#### 1. Post 2<sup>nd</sup> Dec

- We aren't near what might be considered "exit criteria"
- R0 will be likely just below 1 (but with high rate of infection)
- people will be fed up

#### 2. Testing

- Testing for those with symptoms most important. Most with symptoms don't get tested.
- Testing in the context of all of the other interventions that need to be in place
- Asymptomatic testing. The Liverpool pilot, use of testing in asymptomatic people within defined cohorts
- 3. Prep for vaccination.
- **4. Localised contact tracing** and future options for this (take up at 48 hr, maybe move to 24hr, reverse CT)
- 5. The fundamentals will remain the fundamentals. The basics of the strategy remain intact

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