## **COVID-19 Update**

Ian Wake

**Director of Public Health** 

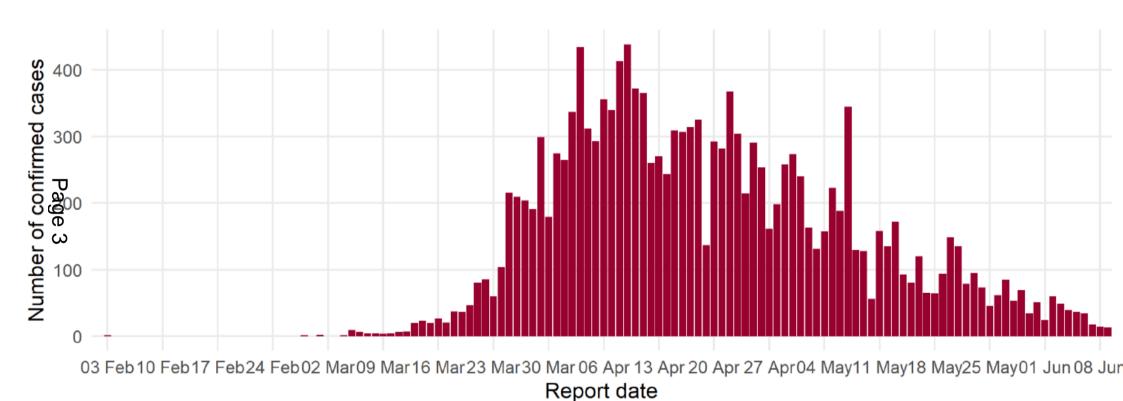
18 June 2020



### **Overview**

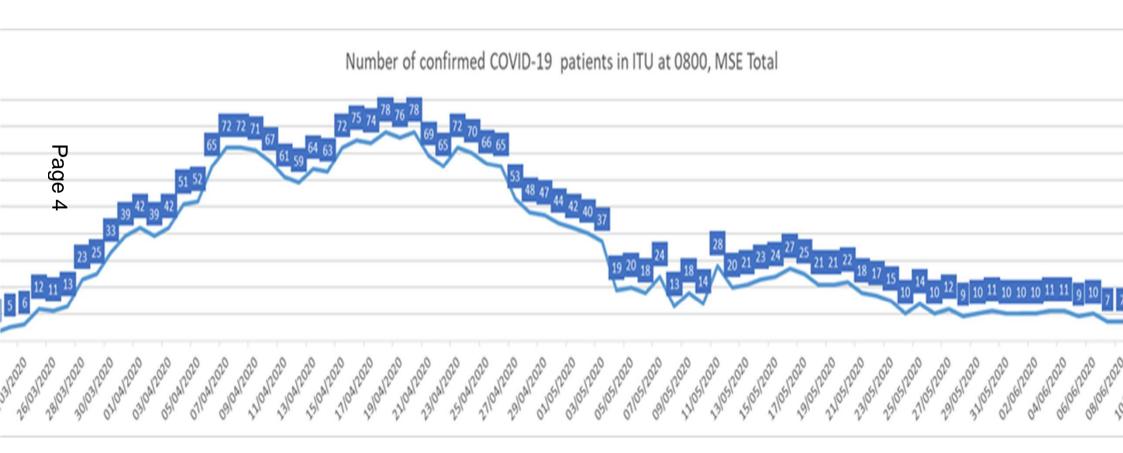
- Epidemic curve to date
- Deaths data
- •PImpact of lockdown
- Current situation
- Exiting lockdown future policy implications
- Test and Trace

## **Epidemic Curve: Lab Confirmed Cases**



Excludes cases with unassigned PHE Centre

## **Epidemic Curve: ICU Bed Occupancy**



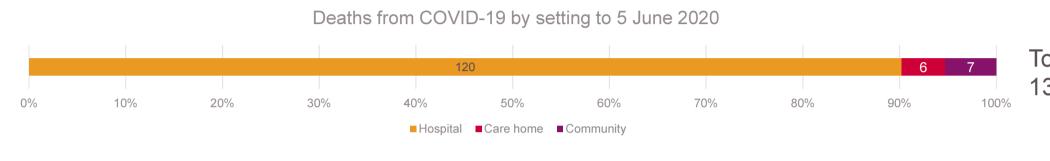
## **Health Service Usage**

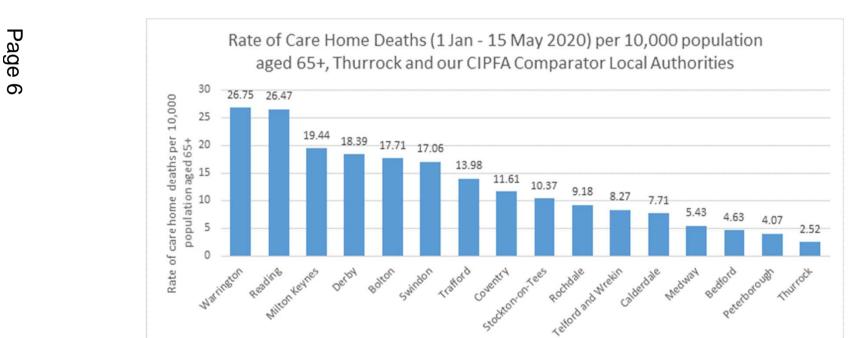
rio 4 - Demand vs. Capacity									
		Covid-19 Demand		% capacity for Covid	Available Non-Covid				
1	7	295	1215	24%	920				
2	age	41	225	18%	184				
3	ď	81	338	24%	257				
sive		103	210	49%	107				
iced		166	378	44%	212				

# Demand down for all aspects of the NHS ar ASC

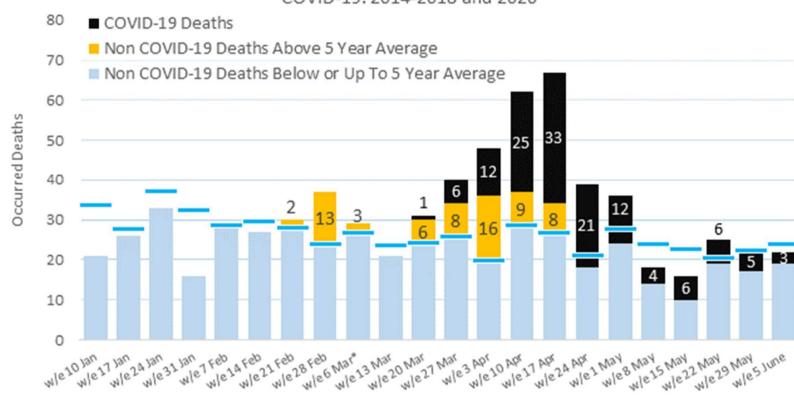
- A&E attendance
- Emergency non-COVID-19 hospital admiss
- Urgent cancer referrals
- IAPT
- Secondary MH care
- Care homes

## **Deaths from COVID-19 in Thurrock**



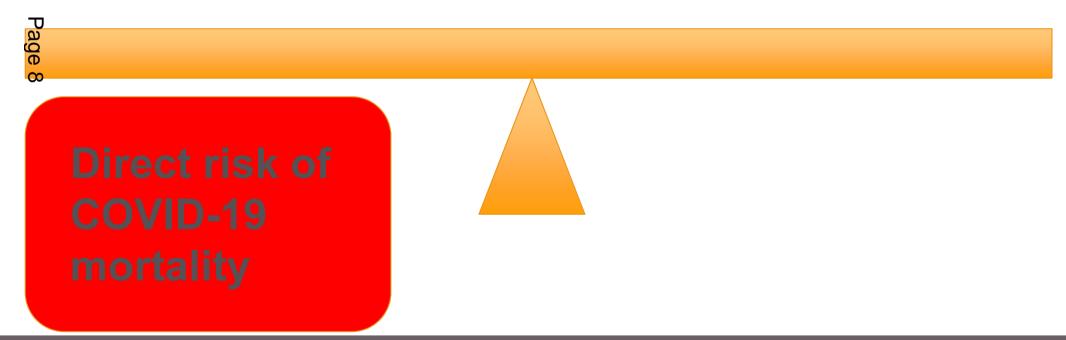




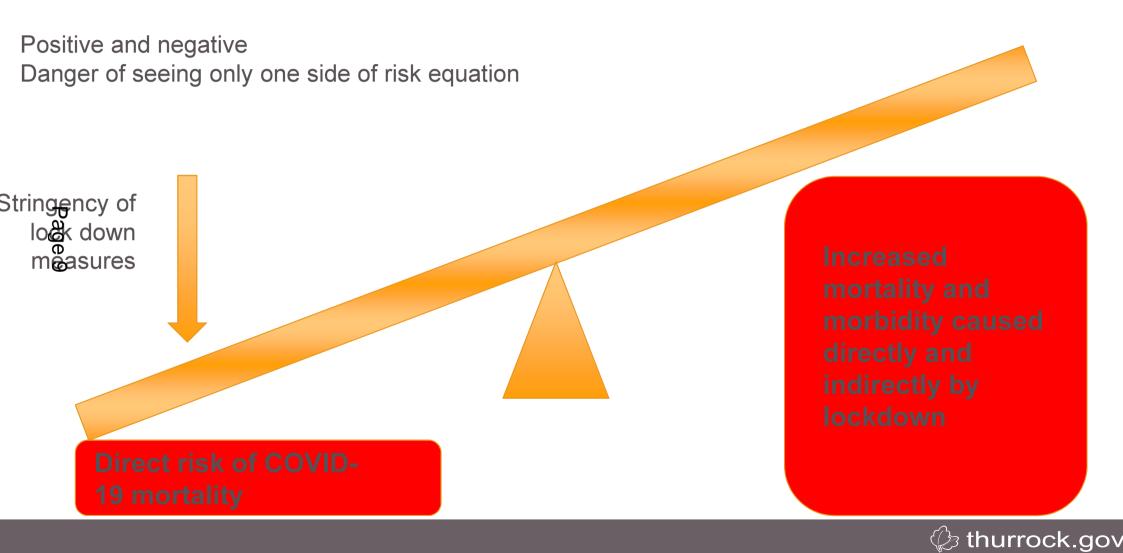


## Impact of Lockdown on health and wellbeing

Positive and negative Danger of seeing only one side of risk equation



## Impact of Lockdown on health and wellbeing



## Health impacts of lockdown

### Direct:

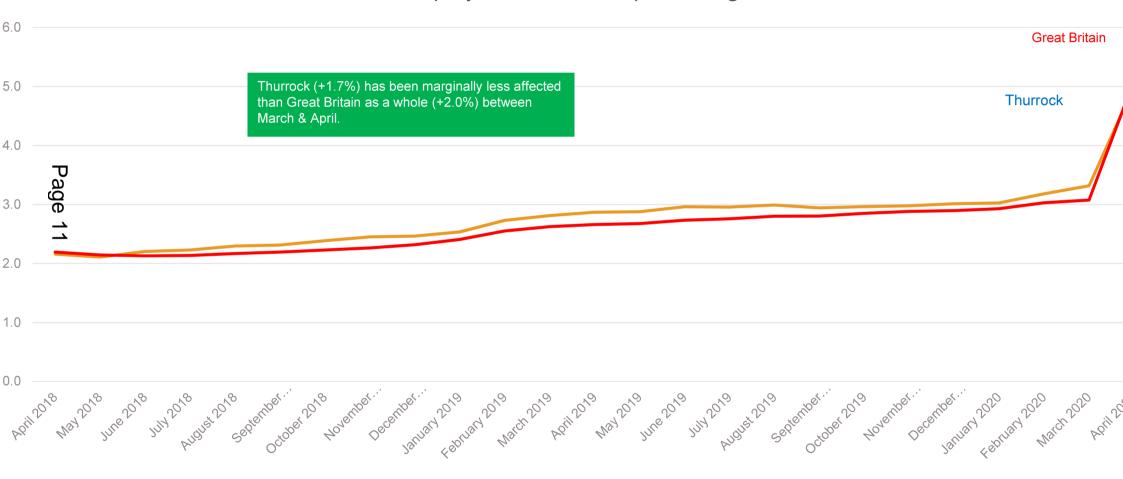
- MH and social isolation
- **DV**
- Far in accessing services

### Indirect

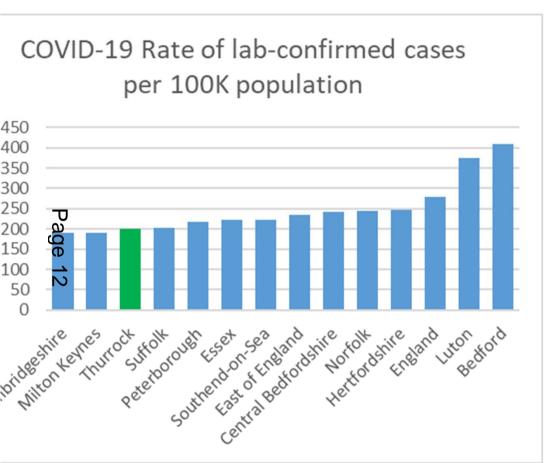
- Withdrawal of services, esp. health and education
- Wider determinants, particularly economic
- Taxation base

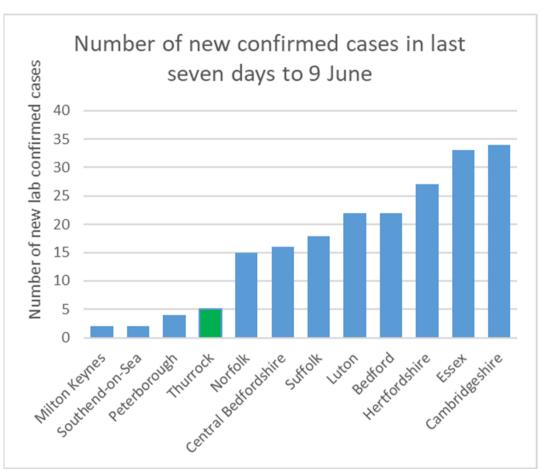
## **Economic Impact of Lockdown**

Unemployment claimant percentage



### **Current situation: Positive test results**





Ascertainment fraction extremely difficult to determine accurately but currently circa 10-15%

## **Current situation: R Value**

Region		Median	95% Crl (lower)	95% Crl (upper)
	East_of_England	0.94	0.73	1.14
Pa	London	0.95	0.72	1.20
Page 1	Midlands	0.90	0.73	1.07
<del>3</del>	North_East_and_Yorkshire	0.89	0.75	1.04
, )	North_West	1.01	0.83	1.18
	South_East	0.97	0.78	1.17
7	South_West	1.00	0.77	1.29

# Exiting Lockdown: Our knowledge is increasing but there's still much we don't know for certain

Only certain exit strategy is herd immunity either by vaccination or infection + recovery lerd immunity influenced by pathogen itself and variation in susceptibility

### Things we know more about:

- Variation in susceptibility: groups and settings
- Variation in transmission
- Variation in outcome after infection
- Some progress on treatment: Remdesivir / Dexamethosone.

### Jncertainty |

- Po<del>pu</del>lation herd immunity threshold
- Level of population immunity
- IgG concentration to deliver immunity
- Length of any immunity conferred by IgG
- Connection between public policy and population behaviour
- Connection between population behaviour and R
- Effectiveness of mitigation strategies like Test and Trace
- Can we relax public policy and keep R below 1?
- Importance of maintaining everything that can be done virtually, virtual.

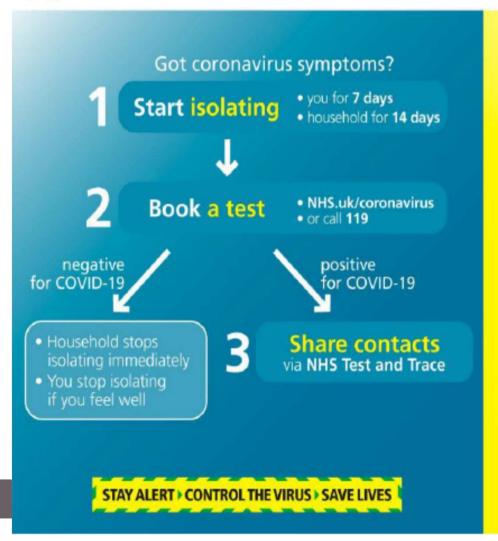


### **Test and Trace**



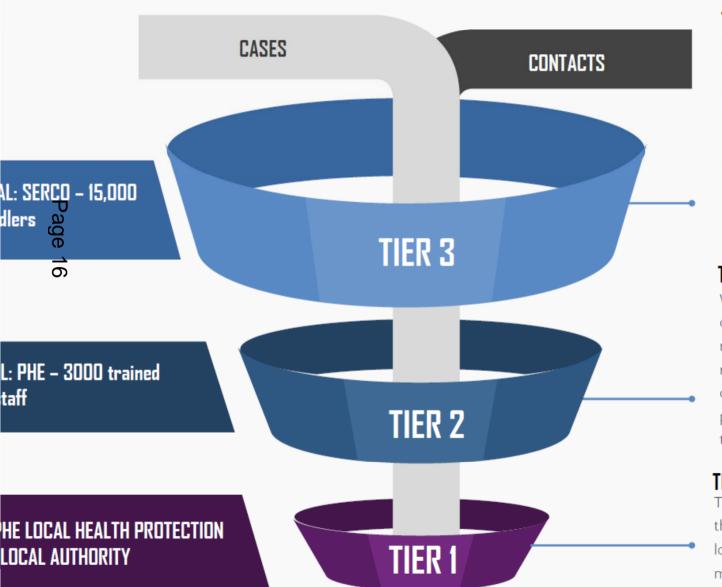


gov



If you have been in close contact with someone who tests positive You may be alerted by NHS Test and Trace for 14 days after close contact Isolate if you develop symptoms Household isolates Book a test for 14 days positive negative for COVID-19 for COVID-19 Household stops You begin new 7 day isolating immediately isolation You complete Household completes 14 day isolation 14 day isolation

## oposed Architecture of Test and Trace



#### TIER 3

In the vast majority of cases, details of contacts will be collected the case by the case completing an on-line form when they repositive test result. Call handlers at Tier 3 will then telephone cand cases and provide advice on self-isolation where the case hable to provide contact telephone details. Tier 3 call handlers we to a dedicated script. Tier 3 will do this for all routine cases when information has been provided.

#### TIER 2

Where a case has failed to or is unable to provide contact details are escalated to Tier 2. Tier 2 staff are entregionally by PHE, generally have some clinical training are received further training from PHE. Their main role will be telecases and interview them to collect as much information on compossible. They will then communicate with contacts and instruto self isolate.

#### TIER 1

Tier 1 staff will be a mixture of specialist Public Health staff em through PHE Health Protection Teams, and within other agen local authority level. Their primary function will be to contact tramanage outbreaks in complex or local settings (see next slide)

### **Escalation to Tier 1**

Page educational / educational / childcare setting OR where employer liaison is required

# Complex and high risk settings:

- Care homes
- Healthcare workers
- Emergency service worker
- Prison
- Attended
  healthcare setting
  for non-COVID-19
  reason
- Homeless/shelter

# Consequence Management

- Critical
  infrastructure or
  public sector
  operational viability
- High profile media interest
- Cases or contacts unable or unwilling to comply with quarantine

# Increased local disease frequency

- 2+ cases in schools
- High workplace absenteeism
- High number of hospitalisations

## ext Steps

- Extremely difficult
- Undertake local detailed capacity mapping / skill mix

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Dedicated cells and protocols for:

- Education / schools
- Early years
- Health and social care
- Workplaces
- Communities

Local additional testing capacity

Local dedicated contact tracing capacity

Data flows

- £1M funding allocation
- Overall plan under development

#### Clarify:

- Final arrangements with PHE
- Statutory Powers of Health Protection Board

Thurrock specific

Fully Assess Demand and Capacity Develop Local Programme and SOP

Develop LA Outbreak Control Plan

Agree and set up Governance Arrangements