

# Randomised Evaluation of COVID-19 Therapy: the RECOVERY trial

Collaborators' Meetings 20 & 21 April 2020





- 1. Introductions
- 2. Update on progress
- 3. Frequently Asked Questions
  - 1. Lopinavir-ritonavir
  - 2. Azithromycin
- 4. Tocilizumab and second randomisation
- 5. SAE reporting
- 6. Follow-up
- 7. Future plans
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### Introductions



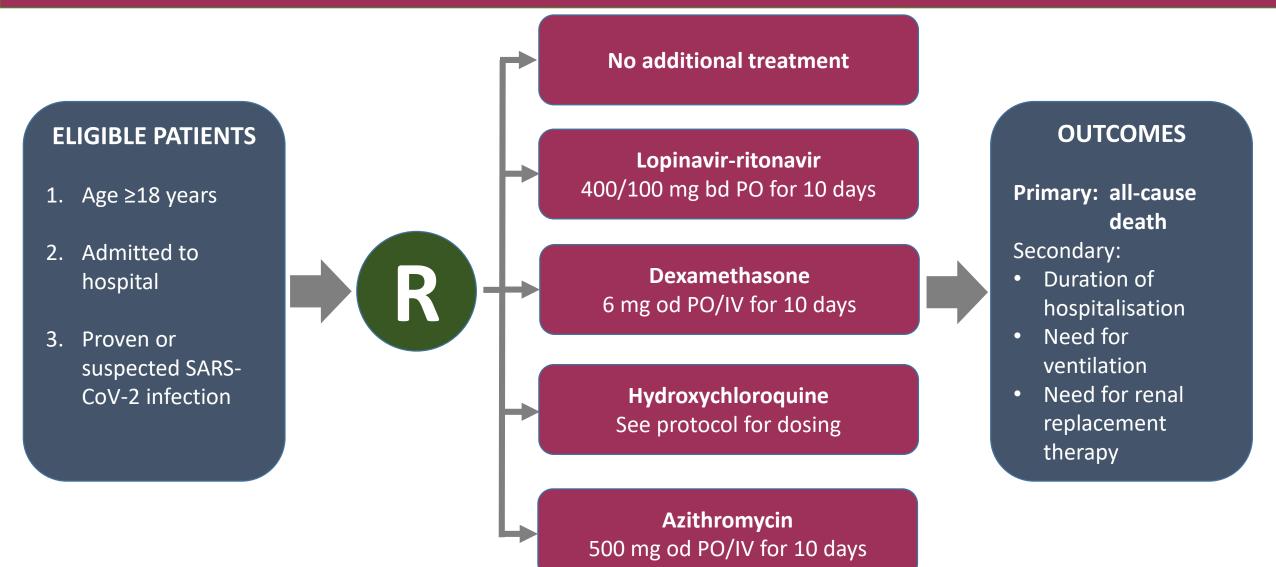
- One of the central study team will talk to the agenda
- If you have questions <u>about that particular topic</u> please enter them into the "chat"
- Please save other questions for the general Q&A at the end



### **UPDATE ON PROGRESS**

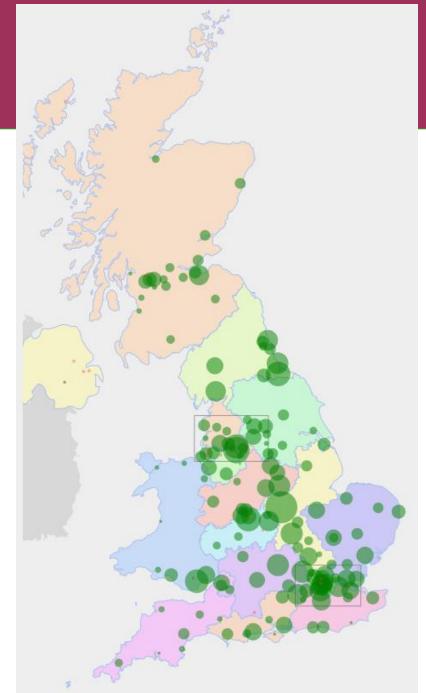
### **RECOVERY trial design**





### Update on progress





# Characteristics at randomisation REC&VERY (n=5265)



Characteristic		N (%), mean (SD) or median (IQR)
Male sex		3525 (65%)
Age		65 (15)
Days since symptom onset		10 (6-14)
Days since hospitalisation		3 (2-6)
Severity of disease	No oxygen required	950 (18%)
	Supplemental oxygen only	3272 (62%)
	Ventilation/ECMO	1043 (20%)
Prior disease	Diabetes	1405 (27%)
	Cardiovascular disease	1281 (24%)
	Chronic lung disease	1035 (20%)



### **FREQUENTLY ASKED QUESTIONS**

### Study treatments: Lopinavir-ritonavir



- HIV drug with activity against SARS-CoV-2 in tissue culture
- Delivery can be difficult especially in patients unable to swallow
  - Liquid formulation is being acquired by PHE so will be available to order soon
  - REMAP-CAP method of tablet dissolution being discussed with MHRA

### Study treatments: Azithromycin

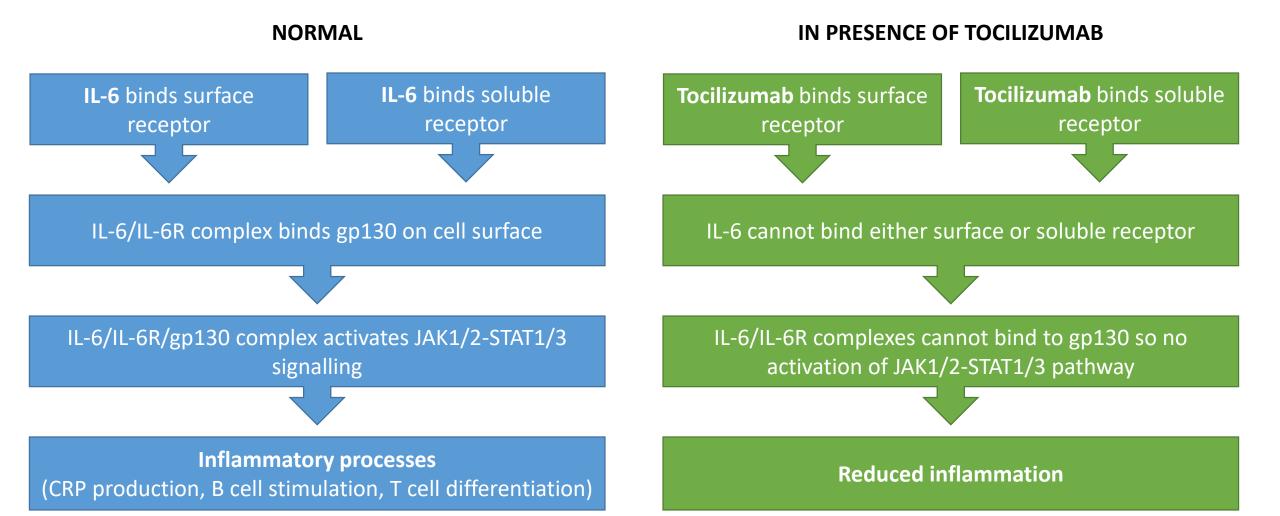
- Can patients at sites that use azithromycin (or other macrolides) be recruited?
- If patient already on a macrolide at randomisation, then can enter trial but will <u>not</u> be allocated azithromycin or hydroxychloroquine
  - Macrolides and hydroxychloroquine both prolong QT interval
- If patient not on a macrolide at randomisation, can enter any suitable arm of the trial
  - If managing doctors which to prescribe macrolide later, they may but must consider risks



### **TOCILIZUMAB AND SECOND RANDOMISATION**

### **IL-6 and Tocilizumab**



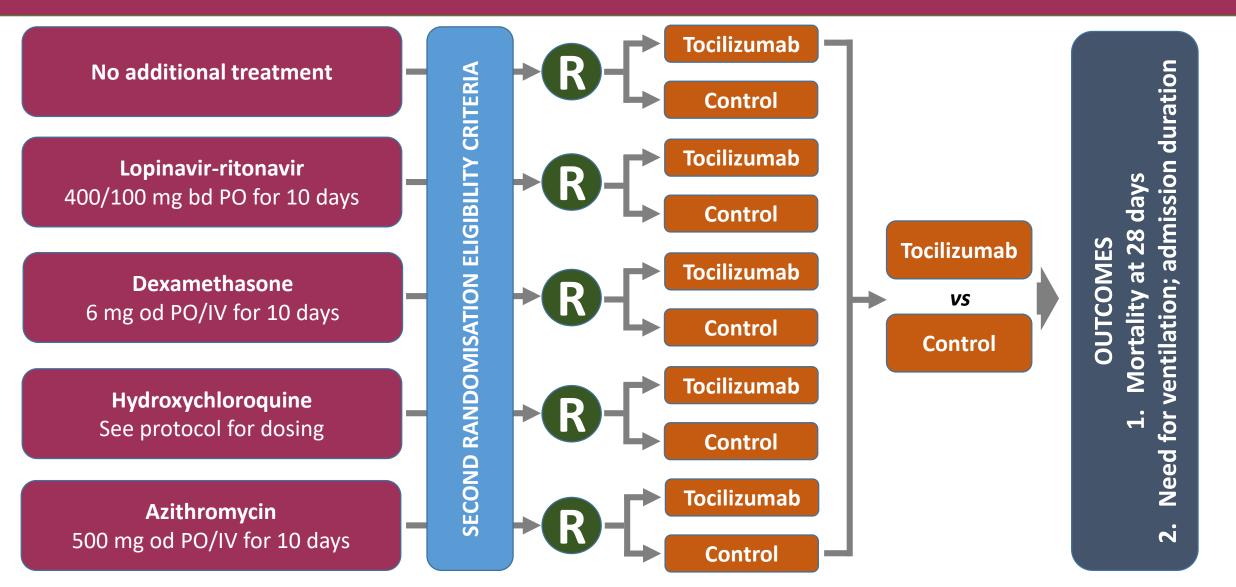


### Tocilizumab



- Humanized monoclonal antibody against IL-6 receptor
- Licensed for treatment in:
  - Rheumatoid arthritis
  - Cytokine release syndrome (CRS) after CAR-T cell therapy (new treatment for haematological malignancy)
- Also being tested in REMAP-CAP and COVACTA trials





### Second randomisation



- Will not be conducted at all study sites due to limited drug supply
  - Sufficient for 4000 participants to be randomised between tocilizumab and control
- May be done at <u>any time</u> from immediately after first randomisation until 21 days later
- Consent included in main PIS/ICF (V4.1)
  - For participants recruited using earlier PIS/ICF may be included without re-consent

## Second randomisation: eligibility



- Eligibility criteria:
  - Receiving oxygen <u>or</u> oxygen saturations <92% on air</li>
  - CRP ≥75 mg/L
  - No medical history that might, in the opinion of the attending clinician, put the patient at significant risk if s/he were to participate in this aspect of the RECOVERY trial
    - e.g. clear evidence of secondary bacterial infection causing deterioration

### Second randomisation: access



• Access (i) via main randomisation system:

Logged in as: Centre 1 (City 1)

#### Menu

Latest 3 participants					
Study no	NHS number	Date randomised	Time since randomisation		
1009913	8412658469	20/04/20 09:42	29 minutes		
1009908	0274793385	20/04/20 09:26	45 minutes		
1009896	5275396260	20/04/20 03:17	6 hours		

Please select one of the following options:

- 1. Enrol patient into study
- 2. View recent recruitment list
- **3. Enrol patient into second phase**
- 4. Log out

### Second randomisation: access



### • Or (ii) access at end of main randomisation:

This patient has been successfully randomised into the RECOVERY trial

Allocated treatment for the RECOVERY trial Dexamethasone

Administered as an oral tablet/liquid or intravenous preparation 6 mg once daily for 10 days or until discharge. (Note: It is permitted to switch between the two routes of administration according to clinical circumstances.)

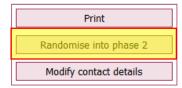
Please prescribe on this patient's drug chart as soon as possible

Patient RECOVERY study number 1009924

Please record this study number on the Consent Form and any other trial documentation for this patient and store in the patient's medical notes.

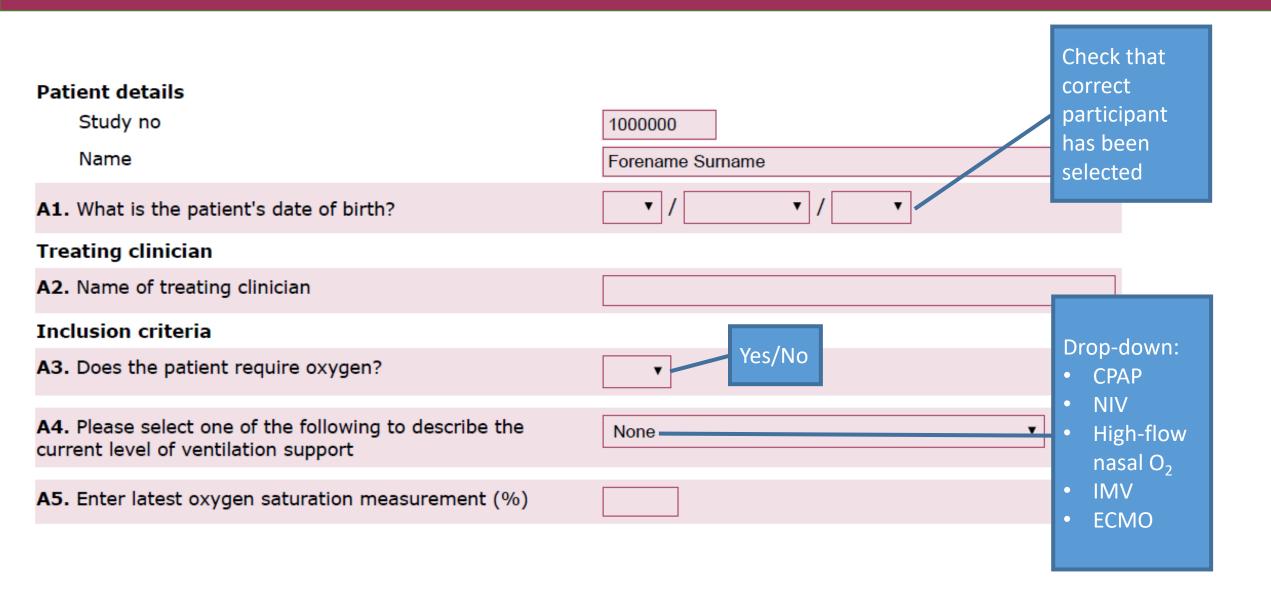
Date and time of randomisation 20/04/2020 10:15

Press the **Print** button below to generate a pdf which can be printed and stored in the patient's medical notes.



### Second randomisation: process





### Second randomisation: process



A6. Enter latest CRP measurement since admission to Tick if not measured Either enter result hospital (mg/L) Tick if greater than limit of measurement ("0" if below limit); Enter 0 if below the limit of measurement or tick box if A7. Enter latest ferritin measurement since admission to Tick if not measured 1. not measured; hospital (ng/mL) Tick if greater than limit of measurement or Enter 0 if below the limit of measurement Above limit (e.g. 2. A8. Enter latest creatinine measurement since admission Tick if not measured >250)

**A9.** Does the patient have any medical history that might, in the opinion of the attending clinician, put the patient at significant risk if they were to participate in this aspect of the trial?

#### Is the following treatment unsuitable for the patient?

A10.1 Tocilizumab

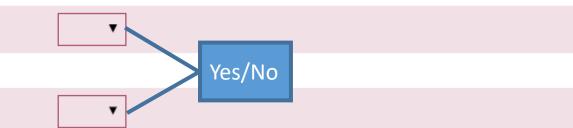
to hospital (µmol/L)

Is the following treatment available?

A11.1 Tocilizumab

#### Please sign off this form once complete





### **Tocilizumab prescribing**



### Weight-based dose

• Can use estimated weight if measurement not available/possible

Weight	Dose
>40 and ≤65 kg	400 mg
>65 and ≤90 kg	600 mg
>90 kg	800 mg

- If weight ≤40 kg, prescribe 8 mg/kg
- Single intravenous infusion over 60 minutes in 100 mL 0.9% sodium chloride
- Second dose can be given ≥12 <24 hours later if in clinician's opinion the patient's condition has not improved

### Tocilizumab stock



- Available via ImmForms/Movianto system
- Sites will be able to order sufficient for 20 patients initially; please contact coordinating centre once 10 patients treated

# SERIOUS ADVERSE EVENT REPORTING AND FOLLOW-UP



### **Serious Adverse Event reporting**



- Protocol specifies that adverse events only need to be reported if they are both:
  - Serious; and
  - Believed with reasonable probability to be **related** to study treatment

### **Serious Adverse Event reporting**



- As participants are inpatients already, can only be serious if:
  - Fatal or life-threatening
  - Prolong admission
  - Are another "important" event that requires intervention to avoid above
- Events should <u>not</u> necessarily be considered serious if:
  - Study treatment is discontinued
  - Do not require significant intervention (e.g. asymptomatic bradycardia)
  - They are recognised adverse effect of treatment but not otherwise serious (e.g. prolonged QTc interval without sequelae)

### **Serious Adverse Event reporting**



- Relatedness is based on "a reasonably probability"
  - Relationship to starting study treatment
  - Consideration of alternative causes
  - Not simply because "it can't be excluded"

 Readmissions do <u>not</u> need to be reported unless related to study treatment





- All sites now have teams of people who can complete Follow-up forms on OpenClinica
- Form collects simple information on
  - Use of study treatments
  - Discharge or cause of death
  - Requirement for ventilation or dialysis
- Please ensure you track who requires form to be completed
- Coordinating Centre will provide reports in due course



### **FUTURE PLANS**





- Trial now has 5 arms in main comparison and second randomisation
- No other arms to be added imminently
- Plans to include children in next protocol amendment
  - Need to identify paediatric co-investigator if you wish to recruit children at your site



### **QUESTIONS AND ANSWERS**





- Q: What about transfer of patient to another hospital?
- A: If for continuing acute care then should continue study treatment and not consider transfer to be "discharge"

If for rehabilitation then study treatment should stop and consider transfer to be discharge

- Q: When will RECOVERY results be ready?
- A: The quicker we recruit, the quicker the results will come! DMC review data every week.





- Thank you very much for your collaboration in these uniquely challenging circumstances
- RECOVERY will provide reliable information on treatments for COVID-19 in the coming weeks to months which could influence management both in the UK and globally
- And a challenge...