

INTERIM GUIDELINE FOR USE OF IL-6 INHIBITORS (TOCILIZUMAB OR SARILUMAB) IN THE MANAGEMENT OF SEVERE COVID-19 INFECTION

This guidance does not override the individual responsibility of health professionals to make appropriate decision according to the circumstances of the individual patient in consultation with the patient and /or carer. Health care professionals must be prepared to justify any deviation from this guidance.

Overview

This document forms part of the Worcestershire Acute Hospitals NHS Trust (WAHT) Antimicrobial Prescribing Guidelines, published on MicroGuide. It covers the use of Interleukin-6 (IL-6) inhibitors in the management of COVID-19.

This guideline is for use by the following staff groups:

This guideline is intended for use by all clinical staff who prescribe, administer or monitor treatment for patients requiring intensive care for the management of COVID-19.

Lead Clinician(s)	Dr Nicholas Cowley, Consultant Critical Care
Approved by Silver Command on:	11/01/2021
Approved by Medicines Safety Committee on:	Add date
This guideline should not be used after end of:	31/01/2022

Key amendments to this guideline

Date	Amendment	Approved by:
11/01/2021	Guidance published	Silver Command

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Guideline Details

Inclusion criteria

The following patients should be considered for therapy with either tocilizumab or sarilumab if they fulfil all of the following criteria:

- COVID-19 infection is confirmed by microbiological testing or where a multidisciplinary team has a high level of confidence that the clinical and radiological features suggest that COVID-19 is the most likely diagnosis.
- Is not eligible, refused participation in or a decision is taken to not recruit into a clinical trial with immunomodulation arm including an IL-6 inhibitor.
- Admitted to intensive care or a repurposed area designed to offer enhanced organ support, without palliative intent.
- Initiated on respiratory support (non-invasive ventilation/CPAP, high flow nasal oxygen, invasive mechanical ventilation) or cardiovascular support with vasopressors/inotropic drugs.
- Treatment initiation must be prescribed within 24 hours of respiratory or cardiovascular support.

Exclusion criteria

- Known hypersensitivity to tocilizumab or sarilumab
- Co-existing infection that might be worsened by tocilizumab or sarilumab
- More than 24 hours has elapsed since ICU/High Care admission or more than 24 hours after starting respiratory support (whichever is the greater)
- A baseline alanine aminotransferase (ALT) or aspartate aminotransferase (AST) more than 5 times the upper limit of normal (caution is recommended if hepatic enzymes are more than 1.5 times the upper limit of normal)
- A baseline platelet count of less than $50 \times 10^9/L$
- A baseline absolute neutrophil count of less than $2 \times 10^9/L$
- A pre-existing condition or treatment resulting in ongoing immunosuppression

Referral

Authorisation for prescription must be from a consultant respiratory physician, intensive care physician, or microbiologist.

Blueteq authorisation must be completed (see attached). This may be done retrospectively but ideally within 24 hours.

Treatment

Choice will depend on stock availability – please check prior to prescribing

Tocilizumab 8 mg/kg (actual body weight – see table below) (to max. 800 mg) as an intravenous infusion, repeated after 12 to 24 hours at consultant clinician discretion if there is no clinical improvement. The second dose should not be prescribed before clinical review of the patient response.

Tocilizumab should be diluted in a 100 mL bag of 0.9% sodium chloride, after removing an equivalent volume of saline (total volume 100mL) and given over 1 hour.

Weight	<41kg	≥41 and ≤45kg	≥46 and ≤55kg	≥56 and ≤65kg	≥66 and ≤80kg	≥81 and ≤90kg	≥91kg
Dose	8mg/kg (nearest 20mg)	360mg	400mg	480mg	600mg	680mg	800mg

Record the name and the batch number of the administered product on the patient drug chart.

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OR

Sarilumab 400 mg in 100 ml sodium chloride 0.9% as intravenous infusion over 1 hour as single dose.

Please select drug link to view preparation and administration guide.

Record the name and the batch number of the administered product on the patient drug chart.

Co-administration of corticosteroids

Administration of dexamethasone is recommended in severe or critical COVID-19.

Co-administration of remdesivir

There is no interaction of either tocilizumab or sarilumab with remdesivir expected. Follow local protocol for the use of Remdesivir for the management of COVID-19.

Monitoring

Report any suspected adverse reactions. This should be arranged through the ward pharmacist or Medicines Information (ext. 45776 or wah-tr.druginfo@nhs.net).

Reference:

1. Department of Health & Social Care, National Health Service. COVID-19 Therapeutic Alert - Interleukin-6 inhibitors (tocilizumab or sarilumab) for patients admitted to ICU with COVID-19 pneumonia (adults). Published 8th January 2021.
2. Department of Health & Social Care, National Health Service. Interim Position Statement: Interleukin-6 inhibitors (tocilizumab or sarilumab) for patients admitted to ICU with COVID-19 pneumonia (adults). Published 8th January 2021.
3. The REMAP-CAP Investigators. Interleukin-6 Receptor Antagonists in Critically Ill Patients with Covid-19 – Preliminary report. Published 7th January 2021. doi: <https://doi.org/10.1101/2021.01.07.21249390>
4. Roche Products Limited. RoActemra 20mg/ml Concentrate for Solution for Infusion – Summary of Product Characteristics. Last updated 02nd September 2020.

MICROGUIDE

Guideline

Monitoring Tool

This should include realistic goals, timeframes and measurable outcomes.

How will monitoring be carried out?

Who will monitor compliance with the guideline?

Page/ Section of Key Document	Key control:	Checks to be carried out to confirm compliance with the policy:	How often the check will be carried out:	Responsible for carrying out the check:	Results of check reported to: <i>(Responsible for also ensuring actions are developed to address any areas of non-compliance)</i>	Frequency of reporting:
	WHAT?	HOW?	WHEN?	WHO?	WHERE?	WHEN?
all	Compliance with protocol	Check of compliance of prescription with guidance including dose, frequency, route, eligibility criteria and completion of Blueteq form	Within 72 hours of each prescriptions	Clinical ward pharmacists for critical care areas	Critical Care Governance meeting	

Contribution List

This key document has been circulated to the following individuals for consultation:

Designation
Antimicrobial Stewardship Pharmacist
Keith Hinton, Lead Pharmacist Surgery and Critical Care
Critical Care consultants

This key document has been circulated to the chair(s) of the following committee's / groups for comments;

Committee
Medicines Safety Committee

Supporting Document 1 - Equality Impact Assessment Tool

To be completed by the key document author and attached to key document when submitted to the appropriate committee for consideration and approval.

	Yes/No	Comments
Does the policy/guidance affect one group less or more favourably than another on the basis of:		
• Race	No	
• Ethnic origins (including gypsies and travellers)	No	
• Nationality	No	
• Gender	No	
• Culture	No	
• Religion or belief	No	
• Sexual orientation including lesbian, gay and bisexual people	No	
• Age	No	
2. Is there any evidence that some groups are affected differently?	No	
3. If you have identified potential discrimination, are any exceptions valid, legal and/or justifiable?	No	
4. Is the impact of the policy/guidance likely to be negative?	No	
5. If so can the impact be avoided?	n/a	
6. What alternatives are there to achieving the policy/guidance without the impact?	n/a	
7. Can we reduce the impact by taking different action?	n/a	

If you have identified a potential discriminatory impact of this key document, please refer it to Human Resources, together with any suggestions as to the action required to avoid/reduce this impact.

For advice in respect of answering the above questions, please contact Human Resources.

Supporting Document 2 – Financial Impact Assessment

To be completed by the key document author and attached to key document when submitted to the appropriate committee for consideration and approval.

	Title of document:	Yes/No
1.	Does the implementation of this document require any additional Capital resources	No
2.	Does the implementation of this document require additional revenue	No
3.	Does the implementation of this document require additional manpower	No
4.	Does the implementation of this document release any manpower costs through a change in practice	No
5.	Are there additional staff training costs associated with implementing this document which cannot be delivered through current training programmes or allocated training times for staff	No
	Other comments:	n/a

If the response to any of the above is yes, please complete a business case and which is signed by your Finance Manager and Directorate Manager for consideration by the Accountable Director before progressing to the relevant committee for approval