

HSE Interim Guidance for the use of Tocilizumab in the Management of Hospitalised Patients with Severe COVID-19 Disease

This document is intended for use by healthcare professionals only.

This guidance is specific to the management of hospitalised patients with severe COVID-19 disease.

While the guidance is intended to strengthen clinical management of these patients it does not replace clinical judgment or specialist consultation.

This guidance should be read in conjunction with the $\underline{\text{National HSE Infection Prevention and Control (IPC)}}$ $\underline{\text{Guidance for Possible or Confirmed COVID-19}}.$

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Protocol Code: COVID19- TOCILIZUMAB Approved by: Dr Vida Hamilton, HSE National Clinical Advisor and Group Lead, Acute Hospitals	Contributors: Prof C Bergin, Prof P Browne, Dr C Oloughlin, Dr D Murphy, Dr L Bacon, Prof J Laffey, Prof A Nichol, Prof D Kane, Dr R Adams, F King, P Gilvarry.	Page 1 of 5

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This guidance document is informed by the evidence reported in the COVID-19 ERG Rapid Evidence Review "Tocilizumab in the Management of COVID-19 Version 5" published on 23 October 2020 (available from: https://www.hse.ie/eng/about/who/acute-hospitals-division/drugs-management-programme/rapid-evidence-reviews.html), the preliminary report (pre-print) from the REMAP-CAP¹ study and the published EMPACTA² study.

The following HSE interim guidance and advisory statements should also be considered for the management of patients with COVID-19, as appropriate:

- COVID-19 Interim Clinical Guidance VTE protocol and patient information for acute hospitals (available from: https://hse.drsteevenslibrary.ie/c.php?q=679077&p=4866382)
- The following interim guidance and advisory statements available from https://www.hse.ie/eng/about/who/acute-hospitals-division/drugs-management-programme/:
 - HSE Interim Guidance for the Use of Antiviral Therapy in the Clinical Management of Acute Respiratory Infection with SARS-CoV-2 (COVID-19)
 - HSE Interim Position Statement on the Use of Human Normal Intravenous Immunoglobulin (IVIq) in the Management of COVID-19.
 - HSE Interim Guidance for the use of Systemic Corticosteroids in the Management of Hospitalised Patients with Severe COVID-19 Disease

Section 1: Summary Guidance for the use of Tocilizumab in the Management of Patients with Severe COVID-19.

- A preliminary report from the REMAP-CAP trial suggests possible benefits with the use of IL6-inhibitors (tocilizumab or sarilumab) in critically ill COVID-19 patients admitted to intensive care (ICU).¹ The data are available as a pre-print only and are not yet peer-reviewed. Most patients evaluated in the REMAP-CAP trial were also treated with a corticosteroid and the reported benefits are thought to be supplementary to those from corticosteroids.
- 2. Published data from the EMPACTA study suggests possible benefit with the use of tocilizumab in non-ICU hospitalised patients with COVID-19 pneumonia who were not receiving mechanical ventilation. More than 25% of the patients in EMPACTA were older than 65 years of age, more than 75% had at least one coexisting condition, and more than 80% were in a minority racial or ethnic group.

¹ The REMAP-CAP Investigators. Interleukin-6 Receptor Antagonists in Critically III Patients with COVID-19 – Preliminary Report. medRxiv 2021.01.07; doi: https://doi.org/10.1101/2021.01.07.21249390.

² Salama C, Han J, Yau L, et al. Tocilizumab in Patients Hospitalised with COVID-19 Pneumonia. N Engl J Med

- 3. The HSE recommends that the use of tocilizumab in a defined cohort of patients infected with COVID-19 should be considered after consultant-level discussion in a multidisciplinary setting that includes colleagues from critical care medicine, haematology, infection specialists, respiratory medicine, and with patient engagement (or their relevant person, by phone). See Section 2 for patient selection criteria.
- 4. The potential for adverse events resulting from intravenous tocilizumab therapy must be considered before initiating therapy in patients with COVID-19. Notably, no new safety signals associated with intravenous tocilizumab were reported from the EMPACTA study or the preliminary report from the REMAP-CAP study.
- 5. Patients should continue to be enrolled in clinical trials, including trials to assess the safety and efficacy of IL6 -inhibitors compared to other immunomodulatory agents, wherever possible. Information on on-going clinical trials, including those recruiting, is available on the EU CT Register for COVID trials (https://www.clinicaltrials.gov.
- 6. There is a limited global supply of intravenous tocilizumab and judicious consideration before use is advised. Use should be restricted to clinical scenarios with potential for treatment benefit.
- 7. The use of tocilizumab in the management of COVID-19 is off-label. Off-label use of medicines should be managed under existing local hospital governance arrangements. The State Claims Agency advise that if a clinician should prescribe and/or administer an off-label medication with the explicit knowledge and authority of the hospital, the Clinical Indemnity Scheme will indemnify the hospital/clinician.
- 8. This guidance document replaces the *HSE Interim Advisory Statement for the use of Tocilizumab in the Management COVID-19*. The use of tocilizumab and other IL-6 modulating therapies continue to be investigated for the management of COVID-19 in a number of on-going clinical trials, including the RECOVERY and REMAP-CAP trials. Full publication of these and other studies will help inform future HSE recommendations.

Section 2: Patient Selection

- 1. Intravenous tocilizumab should only be considered for the management of COVID-19 disease in hospitalised patients with an inadequate clinical response to *systemic corticosteroid therapy requiring:
 - a. ICU admission with severe pneumonia and requiring organ support

OR

b. Non-ICU patients with COVID Respiratory Scale (CRS) category C1 or C2 disease.

The HSE National Clinical Programme for Respiratory Medicine/Irish Thoracic Society CRS is available from https://hse.drsteevenslibrary.ie/c.php?g=679077&p=4866795#appendix1%20021

AND

2. Exclusion of contraindications to intravenous tocilizumab, including acute severe infection from sources other than SARS-CoV2[^].

AND

3. If treatment is being considered, it should only be initiated after consultant-level discussion in a multidisciplinary setting that includes critical care medicine, haematology, infection specialists, respiratory medicine, and with patient engagement (or their relevant person, by phone).

*HSE Interim Guidance for the use of Systemic Corticosteroids in the Management of Hospitalised Patients with Severe COVID-19 Disease is available from:

https://www.hse.ie/eng/about/who/acute-hospitals-division/drugs-management-programme/hse-interim-guidance-for-the-use-of-systemic-corticosteroids-in-the-management-of-hospitalised-patients-with-severe-covid-19-disease.pdf .

Suspected co-infection with pathogens other than SARS-CoV2 should be investigated and treated empirically as per local antimicrobial policy with consideration of the principles of antimicrobial stewardship (Further information available from: https://www.hpsc.ie/az/respiratory/coronavirus/novelcoronavirus/guidance/infectionpreventionandcontrolguidance/antimicrob ialstewardship/

Section 3 Key Prescribing Information

Key Prescribing Information

Adapted from Summary of Product Characteristics³ for tocilizumab (RoActemra®) and the REMAP-CAP study protocol⁴.

Refer to the Summary of Product Characteristics³ for tocilizumab for full prescribing information.

Recommended Dose Schedule in Adults

(Specialist Paediatric advice required for patients aged under 18 years old)

- Tocilizumab should be administered as a single intravenous infusion at a dose of 8mg/kg (maximum 800mg per dose).
- Dose rounding to the nearest whole vial is recommended. Vial sizes available may include 80mg, 200mg, and 400mg.
- In exceptional circumstances, one additional dose may be considered 12-24 hours after the initial dose if there has not been sufficient clinical improvement.
- The decision to administer a second dose must only be made following consultant-level multidisciplinary specialist input (see **Section 2**).
- A maximum of two doses per course is recommended; subject to drug access.

Method of Administration for Adult Patients >30kg

- Withdraw a volume of sterile, non-pyrogenic sodium chloride 9 mg/mL (0.9%) solution for injection from a 100 mL infusion bag, equal to the volume of RoActemra® concentrate required for the patients dose, under aseptic conditions.³

(Specialist Paediatric advice required for patients aged under 18 years old)

- The required amount of RoActemra® concentrate (0.4 mL/kg) should be withdrawn from the vial and placed in the 100 mL infusion bag. This should be a final volume of 100 mL. To mix the solution, gently invert the infusion bag to avoid foaming.³
- After dilution, RoActemra® should be administered as an intravenous infusion over 1 hour.³

³ Summary of Product Charateristics. RoActemra 20 mg/mL concentrate for solution for infusion. Available online from: https://www.medicines.ie/medicines/roactemra-20-mg-ml-concentrate-for-solution-for-infusion-33648/spc.

⁴ REMAP-CAP Study Protocol. *Domain-Specific Appendix: COVID-19 Immune Modulation Therapy*. Available online from: https://www.remapcap.org/protocol-documents.