Distribution: As Appendix 1

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- **Category:** Immediate (cascade within 24 hours)
- **Title**: COVID-19 Therapeutic Alert Casirivimab and imdevimab for patients hospitalised due to COVID-19

Dear colleagues,

Neutralising monoclonal antibodies (nMABs) bind to specific sites on the spike protein of the SARS-CoV-2 virus particle, blocking its entry into cells and therefore inhibiting its replication. Ronapreve® is a combination nMAB containing equal amounts of casirivimab and imdevimab.

The RECOVERY trial has <u>demonstrated</u> that the casirivimab and imdevimab combination reduced the relative risk of mortality by 20%, and the absolute risk of mortality by 6%, in hospitalised patients with COVID-19 who had not mounted an antibody response of their own to the virus (i.e. were seronegative¹) at the time of treatment. Mortality was 24% in the casirivimab plus imdevimab treatment group vs 30% in those who received standard care alone. Risk of mortality in hospitalised patients has also been informed by the <u>QCOVID® analysis</u>.

A <u>UK-wide clinical commissioning policy</u> has now been published recommending consideration of the intravenous use of the combination neutralising antibody casirivimab plus imdevimab at a total dose of 2.4g (1.2g of casirivimab plus 1.2g of imdevimab) in antibody seronegative patients hospitalised for the management of symptoms of COVID 19 infection who are either:

• Aged 50 and above,

OR

• aged 12 to 49 AND determined to be immunocompromised by multidisciplinary team (MDT) assessment.

The casirivimab and imdevimab combination is licensed² in Great Britain for the treatment of COVID-19 in individuals aged 12 and above and weighing at least 40 kg but the published policy recommends an off-label use. A temporary regulation 174 approval is in place to cover

¹ Refers to patients who were negative for serum anti-s spike antibodies against SARS-CoV-2

² The conditional marketing authorisation covers use in Great Britain. A parallel regulation 174 approval covers use in Northern Ireland, ahead of the European Medicines Agency's determination.

use in Northern Ireland, pending a licensing decision by the European Medicines Agency (EMA).

Action:

Health boards and Trusts are asked to take the following immediate steps to support the treatment of patients admitted to hospital for the management of symptoms of COVID-19 infection:

1. Organisations are recommended to consider prescribing the casirivimab and imdevimab antibody combination in line with the published policy to PCR³ positive, antibody seronegative patients who have been hospitalised specifically to manage symptoms of COVID-19 infection and are either aged 50 and over, or aged between 12 and 49 and determined to be immunocompromised by multi-disciplinary team (MDT) assessment. In the absence of a confirmed virological diagnosis, the treatment should only be used when a multidisciplinary team has a high level of confidence that the clinical and radiological features suggest that COVID-19 is the most likely diagnosis.

2. As nMAB therapies should be given to eligible patients as early as possible to maximise benefit, **organisations should ensure that anti-s spike antibody testing is undertaken for all patients hospitalised with COVID at, or as soon as possible after, the point of admission.** Anti-s spike antibody testing is available at Public Health Wales' laboratory in Cardiff and all Health Boards and Trusts in Wales should send samples there unless notified otherwise. Supporting laboratory networks will aim for a maximum turnaround time for IgG anti-s antibody tests of no greater than 24 hours from the sample being taken to the result being returned. Positive and negative tests will need to be reported to Welsh Government, on request, to enable reimbursement of associated assay costs.

3. Treating clinicians are asked to ensure that routine PCR testing is undertaken (to enable viral genomic sequencing) through usual testing routes:

• on a weekly basis as a minimum during the patient's admission and

• if and when follow up chest x-rays are undertaken post discharge or the patient attends for any other face to face follow up

4. Clinicians are also asked to ensure that any additional data collection requirements are met for the purpose of relevant surveillance, audit and research around the use of nMABs. It is expected that there will be ongoing monitoring (involving sample collection) of selected patients treated with nMABs (led by Public Health England/UK Health Security Agency, for instance around the potential generation of new variants), as well as academic research to generate new knowledge around clinical effectiveness and other relevant aspects of public health. Organisations are asked to note that intermittent blood sampling ('sparse sampling') may also be required to enable testing of serum concentration levels to complement study pharmacokinetic data. Further information will be provided in due course.

5. Discharge letters to primary care should explicitly record that the casirivimab plus imdevimab combination has been given, together with the dose and date of administration.

The following SNOMED codes should be used to support evaluation and to inform subsequent treatment decisions:

Procedure code: 47943005 |Administration of anti-infective agent (procedure)

Presentations:

³ polymerase chain reaction (PCR) test

- Casirivimab 300 mg per 2.5 mL (120 mg/mL) with Imdevimab 300 mg per 2.5 mL (120 mg/mL) 2 vial pack 40025711000001108
- Casirivimab 1332 mg per 11.1 mL (120 mg/mL) with Imdevimab 1332 mg per 11.1 mL (120 mg/mL) 2 vial pack 39654011000001101

6. Any organisation treating patients with the casirivimab and imdevimab antibody combination as an off-label product will be required to assure itself that the necessary internal governance arrangements have been completed before the medicine is prescribed. These arrangements may be through the health board / trust drugs and therapeutics committee, or equivalent.

7. Organisations should adhere to the procedures outlined in the <u>institutional readiness</u> <u>document</u> which has been developed by the Specialist Pharmacy Service to support product storage, preparation and administration.

8. The All Wales Specialist Procurement Pharmacist will liaise with Health Board pharmacy procurement leads regarding initial supply arrangements for casirivimab and imdevimab.

9. Organisations should note that following initial nationally determined allocations to participating hospitals, ongoing supplies to each hospital will be replenished on the basis of relative use / need. Ongoing ordering will be through existing (business as usual) routes, supported by volume-based caps (reflecting estimated eligible admissions) where required.

10. Organisations should note that initial supply will be available within 'global pandemic' packaging, which differs from the planned Great Britain (GB) packaging / labelling aligned to the product's GB licence. For example, pandemic packs display a use by date 24 months from manufacture, but current GB regulatory requirements require the product is used within 12 months of manufacture. A 'Dear Healthcare Professional' letter will be available to explain any differences in packaging and supplied packs will be approved for use in both Great Britain and Northern Ireland. To preserve available supply, hospitals must ensure that packs with shorter use by dates are used first.

11. Regular stock updates will be required by Welsh Government. For consistency of reporting, Health Boards Hospitals should enter the product onto stock control and prescribing systems as described below:

Casirivimab 300 mg per 2.5 mL (120 mg/mL) with Imdevimab 300 mg per 2.5 mL (120 mg/mL) with the dose description as: 2 vial pack

AND/OR

Casirivimab 1332 mg per 11.1 mL (120 mg/mL) with Imdevimab 1332 mg per 11.1 mL (120 mg/mL) with the dose description as: 2 vial pack

Product Details:

Ronapreve® is supplied to the UK by Roche. It is a combination neutralising monoclonal antibody (casirivimab plus imdevimab) used to inhibit viral replication in individuals who have not yet mounted an adequate antibody response to the SARS-COV-2 virus following either exposure or vaccination. The casirivimab plus imdevimab combination for intravenous and subcutaneous use is authorised for use in the treatment and prophylaxis of COVID positive individuals aged 12 and above and weighing at least 40 kg. Supply of the casirivimab and imdevimab combination is subject to the same requirements in both Great Britain and Northern Ireland, and the product information in the Summary of Product Characteristics should be considered applicable across the UK.

Prescribing:

The casirivimab plus imdevimab combination product is authorised as a treatment for COVID-19 but the published policy recommends an off-label use. As such, clinicians prescribing this treatment should follow Heath Board/ Trust governance procedures in relation to the prescribing of off-label medicines. Further guidance on the prescribing of off-label medicines can be found below:

- <u>https://www.gov.uk/drug-safety-update/off-label-or-unlicensed-use-of-medicines-prescribers-responsibilities</u>
- <u>https://www.gmc-uk.org/ethical-guidance/ethical-guidance-for-doctors/good-practice-in-prescribing-and-managing-medicines-and-devices/prescribing-unlicensed-medicines</u>
- <u>https://www.rpharms.com/Portals/0/RPS%20document%20library/Open%20access/Support/toolkit/specials-professional-guidance.pdf</u>

Administration:

The casirivimab plus imdevimab combination should be administered as an intravenous infusion at a dose of 2.4g (1.2g casirivimab plus 1.2g imdevimab). A single dose is to be administered. A second dose should not be considered, given the uncertainty over evidence of additional benefit as well as the need to maximise available supply.

Co-administration:

The RECOVERY study demonstrated a mortality benefit for the combination of casirivimab plus imdevimab over and above standard of care in hospitalised COVID positive antibody seronegative patients. Its use should therefore be considered alongside other relevant COVID therapies (including corticosteroids, remdesivir, and tocilizumab or sarilumab) where appropriate and unless contraindicated. There is no interaction of the casirivimab plus imdevimab combination expected for either dexamethasone or hydrocortisone, remdesivir, or tocilizumab or sarilumab.

For further information please visit the University of Liverpool COVID-19 Drug Interactions website (<u>https://www.covid19-druginteractions.org/checker</u>).

The casirivimab plus imdevimab combination should not be infused concomitantly in the same IV line with other medications.

Monitoring, tracking and follow-up:

Monitoring of longer-term progress is strongly recommended via recruitment of patients receiving COVID therapies to the <u>ISARIC-CCP study</u>. All handovers of clinical care (including between hospitals if patients are transferred, between levels of care and clinical teams within hospitals, and between hospitals and primary care) should explicitly record that the casirivimab plus imdevimab combination has been given together with the dose and date of administration. SNOMED codes (see action section, above) should be used in discharge letters to primary care. Healthcare professionals are asked to report any suspected adverse reactions via the United Kingdom Yellow Card Scheme <u>www.mhra.gov.uk/yellowcard</u> or search for MHRA Yellow Card in the Google Play or Apple App Store8.

Enquiries:

Enquiries from hospitals in Wales should in the first instance be directed to the health board's Chief Pharmacist who will escalate issues to the Pharmacy and Prescribing Team at Welsh Government if required. Enquiries to the Welsh Government should be directed to: COVID-19.Pharmacy.Prescribing@gov.wales.

Yours faithfully,

Andrew M G S

DR FRANK ATHERTON

Chief Medical Officer

ANDREW EVANS

Prif Swyddog Fferyllol / Chief Pharmaceutical Officer To: Health Boards and NHS Trusts:

Chief Executives

Medical Directors

Nurse Directors

Chief Pharmacists

Directors of Therapies

Directors of Public Health

NHS Wales Shared Services Partnership to cascade to:

GPs