

Consideration for the Initiation of Casirivimab + Imdevimab in COVID-19 Ambulatory/Outpatients

For non-hospitalized adult patients (≥18 years old) with symptomatic mild-to-moderate COVID-19, **casirivimab + imdevimab** may be considered, as authorized by Emergency Use Authorization (EUA) by the Food and Drug Administration (FDA) [revised] 06/2021. **However, specific high-risk criteria are not required for use and can be prescribed at physician discretion.**

I. **Specific high-risk criteria are not required for use.**

II. **Evidence of the below creating High Risk from original EUA:**

- a. Non-hospitalized
- b. ≤7 days from initial symptom onset
- c. Age ≥18 years
- d. Weight ≥40kg
- e. High risk for progressing to severe COVID-19 and/or hospitalization (Must meet ≥1 criteria below)
 - BMI ≥25
 - Chronic kidney disease
 - Diabetes
 - Age ≥65
 - Pregnancy
 - Cardiovascular disease
 - Hypertension
 - COPD
 - Other chronic respiratory illness
 - HIV infection with CD4 count ≤200
 - Solid organ or stem cell transplant
 - Sickle cell disease
 - Chemotherapy in the past year
 - Immunosuppressant use for autoimmune disease
 - Prednisone ≥20 mg/day (or equivalent) for ≥14 days
 - Neurodevelopmental disorder
 - Medical-related technological dependence (ex: trach, PEG)

**Additional high-risk conditions qualify at the discretion of covering physician

III. **Limitations of Authorized Use**

- a. Casirivimab + imdevimab is not authorized for use in patients:
 - i. Who are hospitalized due to COVID-19, OR
 - ii. Who require oxygen therapy due to COVID-19, OR
 - iii. Who require an increase in baseline oxygen flow rate due to COVID-19 in those on chronic oxygen therapy due to underlying non-COVID-19 related comorbidity.
- b. Benefit of treatment with casirivimab + imdevimab has not been observed in patients hospitalized due to COVID-19. Monoclonal antibodies, such as casirivimab + imdevimab, may be associated with worse clinical outcomes when administered to hospitalized patients with COVID-19 requiring high flow oxygen or mechanical ventilation.

IV. **Dose:** Single intravenous (IV) infusion of 600 mg/600mg over at least 20 minutes

V. **Contraindications:** None

VI. **Monitoring:**

- a. No laboratory monitoring indicated
- b. Clinical monitoring for 60 minutes post infusion

VII. **Special considerations:**



- a. In patients who have received the first COVID-19 vaccine dose, casirivimab + imdevimab can still be given.
- b. The second COVID-19 vaccine dose should be delayed for at least 90 days after receiving casirivimab + imdevimab to avoid potential interference of the antibody therapy with vaccine-induced immune responses.

VIII. **Adverse Effects and Precautions:**

- a. Symptoms including nausea, diarrhea, dizziness, headache, pruritus, and vomiting were observed in clinical trials, though at rates comparable to placebo.
- b. Potential for serious hypersensitivity reaction, including anaphylaxis or infusion related reactions
 - i. Signs and symptoms of infusion reactions may include: fever, chills, nausea, headache, bronchospasm, hypotension, angioedema, throat irritation, rash including urticaria, pruritus, myalgia, dizziness.
 - ii. If an infusion reaction occurs, stop drug infusion and contact provider for further instructions.
 - iii. If anaphylaxis occurs, standard protocol should be followed

IX. **Restrictions, Approvals, and Ordering:**

- a. The EUA Fact Sheet should be provided to the patient and/or caregiver and documentation that it was reviewed should be placed in the clinical record.
- b. Medication errors and/or serious adverse events should be reported to the OLOL Main Pharmacy. They will assist with submitting the required FDA Medwatch reports within 7 days of event.

X. **Obtaining the medication**

- a. After patients have confirmed desire to receive casirivimab + imdevimab and the provider/pharmacy have confirmed that the patient meets appropriate criteria, the dose can be requested from pharmacy.

XI. **Administration**

- a. Spike and prime the medication using a Polyvinylchloride (PVC) infusion set containing a 0.20/0.22 micron in-line polyethersulfone (PES) filter.
- b. Administer the infusion solution via pump at a rate of 310mL/hr. (over 21 minutes).
- c. Clinically monitor patients during administration for signs of infusion reactions (listed above).
- d. If an infusion-related reaction occurs, consider slowing or stopping the infusion and administer appropriate medications and/or supportive care.
- e. Once infusion is complete, flush the infusion line to ensure delivery of the required dose.
- f. Discard unused product.
- g. Clinically monitor patients for at least 1 hour after infusion is complete.



Consideration for the Initiation of Casirivimab + Imdevimab in COVID-19 Inpatients

For hospitalized adult patients (≥18 years old) with symptomatic COVID-19, **casirivimab 600 mg + imdevimab 600 mg** may be considered for inpatient utilization based off results from the RECOVERY trial.⁴³ Trial results demonstrated that addition of the combination of 2 monoclonal antibodies to usual care resulted in a statistically significant improvement in mortality in **seronegative** patients at baseline. Allocation to the therapy arm was also associated with a lower risk of progression to mechanical ventilation. As a result, the FMOLHS System Task Force has agreed to addition of **casirivimab 600 mg + imdevimab 600 mg** to inpatient therapeutic regimen where indicated.

I. Indications for use

- a. Hospitalized COVID-19 positive patients
- b. **Seronegative** status (Lack of SARS-CoV2 IgG or IgM)
- c. Age ≥18 years

II. **Dose:** Single intravenous (IV) infusion of 600 mg/600mg over at least 20 minutes

III. **Contraindications:** None

IV. Monitoring:

- a. No laboratory monitoring indicated
- b. Clinical monitoring for 60 minutes post infusion

V. Adverse Effects and Precautions:

- a. Symptoms including nausea, diarrhea, dizziness, headache, pruritus, and vomiting were observed in clinical trials, though at rates comparable to placebo.
- b. Potential for serious hypersensitivity reaction, including anaphylaxis or infusion related reactions
 - i. Signs and symptoms of infusion reactions may include: fever, chills, nausea, headache, bronchospasm, hypotension, angioedema, throat irritation, rash including urticaria, pruritus, myalgia, dizziness.
 - ii. If an infusion reaction occurs, stop drug infusion and contact provider for further instructions.
 - iii. If anaphylaxis occurs, standard protocol should be followed

VI. Restrictions, Approvals, and Ordering:

- a. Medication errors and/or serious adverse events should be reported to the Main Pharmacy. They will assist with submitting the required FDA Medwatch reports within 7 days of event.

VII. Administration

- a. Spike and prime the medication using a Polyvinylchloride (PVC) infusion set containing a 0.20/0.22 micron in-line polyethersulfone (PES) filter.
- b. Administer the infusion solution via pump at a rate of 310mL/hr (over 21 minutes).
- c. Clinically monitor patients during administration for signs of infusion reactions (listed above).
- d. If an infusion-related reaction occurs, consider slowing or stopping the infusion and administer appropriate medications and/or supportive care.
- e. Once infusion is complete, flush the infusion line to ensure delivery of the required dose.
- f. Discard unused product.
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