



Manitoba COVID-19 Monoclonal Antibody Treatment

Instructions for preparing doses of casirivimab/imdevimab

Purpose: to inform health care providers regarding specific processes for preparing casirivimab/imdevimab doses for intravenous administration

This document is intended as a supplement to information contained within casirivimab/imdevimab monographs contained within regional specific Parenteral Drug Manuals

Procedure:

Prior to administration:

1. If possible, schedule 2 patients for similar times to minimize wastage of prepared medication.
2. Ensure you have the medication order and completed the patient consent process PRIOR to administering casirivimab/imdevimab
3. Ensure epinephrine is available for each infusion in case there is a need to treat an anaphylactic or hypersensitivity reaction. If available, diphenhydramine, corticosteroid and salbutamol nebulizer with face mask or salbutamol inhaler with aerochamber may be considered for use in treatment of reactions.

Reconstitution/ dilution:

Supplied as: 2 vials per package
1,332 mg/11.1 mL casirivimab (120 mg/mL) and 1,332 mg/11.1 mL imdevimab (120 mg/mL)

Protect from light. Store in the fridge.

Do not shake.

To prepare a 600 mg/600 mg dose for IV intermittent infusion:

1. Gather materials needed for dose preparation:
 - a. Two (2) sterile, prefilled 100mL bag (or 50 mL for fluid restricted patients) of 0.9% sodium chloride for injection
 - b. Four (4) x 10mL syringes

- c. Blunt fill needles
 - d. Alcohol wipes
 - e. One (1) x 1,332mg/11.1mL vial of each of casirivimab and imdevimab for injection (supplied as single kit containing 1 vial of each agent)
2. Allow casirivimab-imdevimab vials to come to room temperature for approximately 20 minutes prior to preparation. Do not expose to direct heat or shake the vials.
 3. The solution within each vial should be clear to slightly opalescent, colourless to pale yellow.
 4. Perform hand hygiene.
 5. Use separate syringes for casirivimab and imdevimab. For both casirivimab and imdevimab, withdraw **5 mL** from one 11.1 mL vial.
 6. Inject the contents of both syringes – 5mL each – into a single 100mL bag (or 50 mL bag for fluid restricted patients) of sodium chloride 0.9%. Gently invert the bag approximately 10 times to mix. Do not shake.
 7. Repeat steps 5 & 6 to prepare a second 600mg/600mg dose. If the second dose is not being administered immediately, label the bag with the name of the medication, dose and with an expiry of 24 hours. Store in the fridge.
 8. After preparing 2 doses, discard any remaining casirivimab and imdevimab contained in the vials.

Whenever possible, diluted casirivimab/imdevimab solution should be administered immediately after preparation. If immediate administration is not possible, label bag of diluted solution with an expiry date of 24 hours later and store in the fridge. Diluted casirivimab/imdevimab solution should be brought to room temperature prior to administration.

Refer to Regional specific Parenteral Drug Manual casirivimab/imdevimab monograph for information regarding administration and monitoring.