



## **Clinical trial guidance for Mount Sinai Nursing**

**Study sponsor:** CalciMedica

**Study acronym:** CARPO

**Study title:** A randomized, double-blind, placebo controlled dose-ranging study of auxora in patients with acute pancreatitis and accompanying systemic inflammatory response syndrome (CARPO)

**Study arms:** Auxora (3 different dose levels) vs placebo (randomized 1:1:1:1)

**Approvals:** IRB, ED medical/nursing leadership, Pharmacy, Clinical Nutrition Services, Patient Services, Food and Nutrition.

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*For study-related questions/issues, please contact:*

- *Clinical Trials Research Coordinator:* 646-960-1911 (weekday daytime)
- *Clinical Trials Manager:* 201-423-3585 (weekday daytime)
- *Site Principal Investigator:* Jonathan Schimmel, MD, via Epic Secure Chat or 646-818-9502 (24/7)

### **Study summary**

- Placebo-controlled, double-blind, randomized, study on efficacy/safety of a new IV drug (auxora) for pancreatitis. It works on pancreas calcium channels, and prior studies found it may improve pancreatitis.
- There are 4 treatment arms (placebo, or 3 different dose levels), so there is 25% chance of getting placebo.
- Subjects get a monetary stipend for participation.

### **Eligibility**

- Research Coordinators determine eligibility and obtain consent.
- Adults with pancreatitis + SIRS criteria + other criteria like abdominal guarding.
  - Excluded if suspected cholangitis, on dialysis, allergy to eggs.
  - Needs CT abdomen to exclude necrotizing pancreatitis.

### **Assessments**

- Labs are tested in the Mount Sinai lab. This trial does not use special research tubes for blood.
- *Please document accurate blood draw times in an Epic note.*
  - Research Coordinators will attempt blood draws, but may need assistance. They will tell you what time windows to anticipate for phlebotomy.
- Assessment (baseline)
  - Height/weight (Research Coordinator assists)
  - Vitals
  - Blood tests
- Dose #1 administer
  - Start tracking food tolerance (see below)
- Dose #2 administer
  - Occurs 24 hours after Dose #1 starts.
  - Has blood tests just before the dose.
- Dose #3 administer
  - Occurs 48 hours after Dose #1 starts.
  - Has blood tests just before the dose.
- Continue tracking food tolerance until discharge
- Research team will follow the patient throughout hospitalization.

### **Food tolerance**

- Primary outcome of this trial is solid food tolerance, so this is important.

### **Offer food**

- Patient will have Heart Healthy Diet order. This diet should start immediately, even if the patient remains in the ED. Nutrition services will be aware.
- If patient does not tolerate a solid meal, RN should offer a liquid diet from items in the unit (eg applesauce, Ensure, yogurt, juice, instant oatmeal). If patient finds these unappetizing, RN can call Food and Nutrition Services to send a full liquid diet for that meal (eg broth, cream of wheat, etc).

### **Assess food tolerance**

- Note each meal/snack delivery time, and keep each tray at bedside for at least 2 hours.
- **2 hours after each meal/snack is served, do a meal assessment by copying the text below into a new note and fill it out:**

#### **Food Tolerance Assessment for CARPO trial**

- Did patient get a solid meal delivered? \_\_\_\_\_ \*(write Heart Healthy Diet or specify)
- Time of meal/snack delivery: \_\_\_\_\_
- Time of 2-hour assessment: \_\_\_\_\_
- If solid food was delivered
  - At 2 hours was **more** or **less** than 50% of the meal/snack eaten (estimate): \_\_\_\_\_
- If no solid food was delivered
  - Did patient drink PO liquid (yes/no): \_\_\_\_\_
- Did abdominal pain increase within 2 hours of the meal (yes/no)? \_\_\_\_\_
- Did vomiting increase within 2 hours of the meal (yes/no)? \_\_\_\_\_

### **Drug info**

- Epic order: "GCO#21-1120 auxora/placebo in 0.9% sodium chloride."
- Research Coordinators bring the drug from pharmacy to RN (not via tube station).
- Drug is dissolved in a lipid emulsion. Dose may be 0.3125, 0.625, or 1.25 mL/kg (based on randomization).

### **Drug administration instructions (over 4h)**

- Peripheral IV must be at least 20 gauge

#### **Bag #1 (study drug in lipid emulsion)**

- Drug is delivered to the RN (not tube system) with the line already primed by pharmacy, with a 1.2-micron filter
- Set up pump at rate \_\_\_\_\_ mL/hour, VTBI \_\_\_\_\_ mL
- Scan the patient wristband and drug barcode then start infusion
  - Note the start time that Epic lists
- Occasionally check Bag #1 is infusing (eg patient bends elbow or air in line)
  - If infusion is interrupted, resolve the issue and restart it asap
- Bag #1 will empty in 1.5-3 hours
  - When Bag #1 is empty, spike the tubing that contains study drug into Bag #2, and discard Bag #1

#### **Bag #2 (normal saline flush)**

- When Bag #1 is empty, spike the tubing that contains study drug into Bag #2
  - Study drug still in the drip chamber/line must enter the patient from the line being slowly flushed
- Continue infusion at \_\_\_\_\_ mL/hour (same rate as Bag #1)
- Occasionally check Bag #2 is infusing (eg patient bends elbow or air in line)
  - If infusion is interrupted, resolve the issue and restart it asap
- Tubing turns clear slowly over ~2 hours as saline flushes study drug into the patient
- Stop Bag #2 when the line near the patient's IV is clear

- **Infusion completion is based on when the line is fully clear, meaning the last bit of study drug enters the patient, *NOT* the time the saline flush starts/ends**
- You do *NOT* need to infuse the full saline bag
- o Total infusion duration should be 4 hours (includes all of Bag #1 plus some of Bag #2 until line clear).
  - If >4 hours is needed for the line to run clear, keep infusing Bag #2 and notify the study team.
- o Write Epic event note: “Study drug infusion started at \_\_\_\_\_, completed at \_\_\_\_\_.”
  - Start and completion times should be roughly 4 hours apart.

### **Risks**

- Possible risks are palpitations, headache, infusion site pain, dermatitis.
- Possible lab abnormalities are hyperglycemia, ↑ cholesterol/triglycerides, hypoK, hypophosphatemia.
- Patients with acute pancreatitis are at risk for adverse outcomes related to their underlying pancreatitis.
- Notify provider team immediately for new signs, symptoms, or vital sign changes.

### **Monitoring**

- No specific monitoring is required for this drug. Treating team may order telemetry if severe pancreatitis.
- Record times accurately (vitals, drug start/end, blood draws, meal/snack delivery, 2-hour post-meal assessment).
- Record vitals accurately (eg respiratory rate, well-fitting BP cuff).