



**ARROWHEAD REGIONAL MEDICAL CENTER**  
**Department of Anesthesiology Policies and Procedures**

Attachment C

**POLICY NO. 500.30 Issue 1**  
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**SECTION: CLINICAL ANESTHESIA PATIENT CARE**

**SUBJECT: SET UP AND PRIMING OF INTRAVENOUS (IV) FLUID WARMERS LINES AND A-LINES FOR TRAUMA OPERATING ROOMS (OR'S) AND EMERGENCY C-SECTION OR**

**APPROVED BY:**

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Steven Barr, M.D., Chairman Department of Anesthesia, Assistant Medical Director

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**POLICY**

This policy allows set up and priming of IV Fluid warmer lines and arterial lines in the Trauma OR, Neuro Trauma OR, and the Emergency C-Section OR.

**PROCEDURES**

- I. IV Fluid Warmers and A-Lines are to be set up and primed in advance in the Trauma OR, Neuro Trauma OR, and the Emergency C-Section Room.
- II. All primed IV Warming and A-Line sets are labeled and out date 24 hours from the time of initial set up.
- III. Equipment Set up:

**IV Set with Ranger Warming set and IV Extension Set.**

**A. Materials:**

1. 1000 ml 0.9% Sodium Chloride (NS)
2. Y-Type Blood set
3. Ranger Blood/Fluid Warming Set
4. Anesthesia Extension Set

**B. Set-Up:**

1. Insert Ranger cassette into Ranger warming unit.
2. Close clamp on one side of the Y-blood tubing and distal clamp.
3. Spike NS bag with unclamped side of Y-blood tubing. (Maintaining sterility of anything that is in contact with NS.)
4. Squeeze first drip chamber until half-filled. Turn second drip chamber upside down. Open clamp to allow filling of second drip chamber. Once chamber is filled and free of air bubbles return tubing to hanging position and flush remainder of tubing. Close clamp.
5. Attached distal end Y-Type blood set to inlet line of Ranger Cassette (already in the Ranger Unit). Invert (Turn upside down) drip chamber of Ranger Cassette. Open clamp on blood set and allow cassette to prime and fill drip chamber until half-filled. Return drip chamber to

hanging position and allow remainder of tubing to prime. Close clamp on distal side of cassette tubing.

6. Connect Anesthesia Extension Set to cassette tubing. Open clamp on cassette and prime the Anesthesia Extension set. Close clamp on extension set once tubing is primed and there is no air present.
7. Label NS bag and tubing with appropriate stickers to change set the following day. (e.g. etc., setting up on Tuesday morning use Wednesday sticker, time, date and initial.
8. \*CHECK the entire tubing to make sure there are no air bubbles.

### **Arterial Line Set-up:**

#### **C. Materials:**

1. 500 ml 0.9% Sodium Chloride (NS)
2. Pressure Bag
3. Transducer Set

#### **D. Set-Up:**

1. Prepare transducer by tightening all connections on transducer tubing. (Save yellow occlusive caps that are included in packaging).
2. Place NS in pressure bag and pump to 300 mg Hg.
3. Turn stopcock on pressure bag to upward position (to keep inflated).
4. Invert (turn upside down) pressure bag assembly.
5. Spike NS bag with transducer set. (Maintaining sterility of anything that is in contact with NS.)
6. Squeeze transducer flush (white tab) to purge bag of all air and allowing drip chamber to fill halfway. Return bag to upright position.
7. Squeeze transducer flush to prime tubing and remove air through first vented white cap. Remove vented white cap and replace with yellow cap. Open stopcock to allow flow.
8. Repeat procedure to flush through second vented white cap and white cap at distal end (patient connection).
9. Label NS bag and tubing with appropriate stickers to change set the following day. (E.g. if setting up on Tuesday morning use Wednesday sticker, time, date and initial.
10. \*Check the entire tubing to make sure there are no air bubbles.

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- DEFINITIONS:** N/A
- ATTACHMENTS:** N/A

**APPROVAL DATE:**

6/1/2021

**Steven Barr, MD, Associate Medical Director**

Applicable Administrator, Hospital or Medical Committee

5/5/2022

**Quality Management Committee**

Applicable Administrator, Hospital or Medical Committee

5/26/2022

**Medical Executive Committee**

Applicable Administrator, Hospital or Medical Committee

5/6/2025

**Board of Supervisors**

Approved by the Governing Body

**REPLACES:** N/A

**EFFECTIVE:** 5/5/2022

**REVISED:** N/A

**REVIEWED:** N/A