

PROCEDURE FOR: OrthoPAT Use

- POLICY:
1. Perioperative blood salvage will be used whenever possible per physician order to minimize the risk associated with allogeneic blood transfusion. The OrthoPAT® system is one option for perioperative blood salvage.
 2. The OrthoPAT® system will be used according to manufacturer's recommendations. Staff members will be expected to access all support information *prn*, including users' manual, instructional posters, Zimmer 24-hr Hotline, etc.
 3. Administration of all salvaged blood will be done in accordance with hospital standards in the Nursing Practice Manual "Procedure for: Blood Components: Administration of".
 4. Use of the OrthoPAT® system with patients who are of the Jehovah's Witness faith will ensure that a closed-loop system is maintained at all times.
 5. Documentation of intake / output and all medications used in conjunction with the OrthoPAT® system will be entered in the medical record. The Estimated Blood Loss (EBL) worksheet for the OrthoPAT® system will be used to aid in calculating output over time.
 6. Infection control precautions will be followed to eliminate possibility of cross-contamination, including UCHC Infection policy 01-11 (Cleaning, Sterilization, and Disinfection of Patient Care Equipment) and the OrthoPAT® cleaning guide.
 7. Quality Control measures will be conducted according to manufacturer's recommendations to assure quality of product.

- DESIRED PATIENT OUTCOME:
1. The patient has wound / tissue perfusion consistent with or improved from baseline levels established preoperatively.
 2. The patient demonstrates knowledge of the expected use of the OrthoPAT® system.
 3. The patient is free from signs and symptoms of infection and/or transfusion reaction.

- EQUIPMENT:
- Intraoperative:
- a. Wound drain
 - b. OrthoPAT® system
 - c. OrthoPAT® disposable set
 - d. 0.9% Normal Saline 1000ml for IV injection
 - e. Heparin for injection - 30,000 units per 1000ml 0.9% Normal Saline
 - f. standard Blood Administration IV tubing set
 - g. 0.9% Normal Saline 500ml for IV injection
 - h. extra red blood cell collection bags
 - i. extra waste bag
- Postoperative
- a. extra red blood cell collection bags
 - b. extra waste bags
 - c. standard Blood Administration IV tubing set

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d. 0.9% Normal Saline 500ml for IV injection

PROCEDURE:

Action - Intraoperative

Points of Emphasis

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| <ol style="list-style-type: none">1. Verify need / preference for use of OrthoPAT® system with the attending surgeon.2. Follow manufacturer's recommendations for use of OrthoPAT® system.3. Provide salvaged red blood cells to anesthesiology staff for re-infusion per hospital standards within six (6) hours of collection.4. Use the Autotransfusion Worksheet to calculate an accurate estimated blood loss (EBL). | <ol style="list-style-type: none">1. System can be used only with a physician order.2. Access users' manual, posters, support Hotline, etc.3. Follow hospital standard, as appropriate.4. Intake and output must be documented in medical record. |
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Action - Postoperative

Points of Emphasis

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| <ol style="list-style-type: none">1. Verify written order for infusion of salvaged red blood cells.2. Process unit until empty every five (5) hours.3. Infuse a minimum of 20cc of salvaged red blood cells per hospital standards within six (6) hours of collection.4. Discard salvaged amounts less than 20cc collected in 6 hours.5. If amount of salvaged red blood cells is less than 20cc for four (4) consecutive cycles, discontinue use of OrthoPAT® system and use suction mode only. | <ol style="list-style-type: none">1. Written order applies, just as for other blood components. |
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Action - Jehovah's Witness Recipient

Points of Emphasis

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| <ol style="list-style-type: none">1. Spike Y-type blood administration set into 1000cc bag 0.9% normal saline and prime tubing.2. Connect tubing to IV site.3. Spike other end of Y to the collection bag of red blood cells.4. Disconnect collection bag of red blood cells. | <ol style="list-style-type: none">3. Connections to both bags and the IV site form the closed loop system prior to any disconnections. |
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5. Disconnect the collection bag from the OrthoPAT® system and hang to re-infuse salvaged red blood cells.
5. Assuring the disconnect is the last step maintains the closed loop system, as required for members of the Jehovah's Witness faith.

APPROVAL: Nursing Standards Committee

EFFECTIVE DATE: 11/03