

SURETRANS™

Autotransfusion System



BD / BARD has worked in partnership with surgeons and nurses for almost two decades to deliver the benefits of autologous blood to patients.

The SURETRANS™ Autotransfusion System for orthopaedics offers simplicity while helping to ensure patient and clinician safety.

PERFORMANCE IRRIGATION
SYSTEMS

SURETRANS™ Autotransfusion System

An easy-to-use system providing simultaneous collection and reinfusion of autologous blood following orthopaedic surgery



Setup and Collection

- System is easy to set up
- Convenient injection port with finger guard allows administration of anticoagulant
- SURETRANS™ System toll-free technical support is available 24 hours a day, 7 days a week
- Internal 260 micron pre-filter designed to remove debris and clots
- SOLCOVAC™ 3-spring suction evacuator or wall suction with built-in vacuum limiter provides controlled suction
- Easy-to-read graduations to 800 ml
- Removable SURETRANS™ Sleeve keeps unit clean during set up





Transport

- With up to 500 ml of blood in the collection container, the unit may be placed on its back eliminating clamping and preserving the patient's blood
- Convenient strap attaches easily to bed rail



Reinfusion

- Simply press the button to quickly and atraumatically transfer the total volume of blood to the blood bag
- Simultaneous reinfusion and collection provides fresh quality blood
- System provides multiple transfusions with a single device, eliminating the need and expense of a second autotransfusion device*
- Closed system with aseptic connectors helps prevent blood contact and contamination



Closed Wound Drainage

- System offers two choices for drainage: large capacity container or 3-spring SOLCOVAC™ evacuator
- Lightweight unit allows easy ambulation

* Refer to the American Association of Blood Bank Standards for the current collection and reinfusion guidelines.

SURETRANS™ Autotransfusion System

Indications

Simultaneous collection and reinfusion of autologous shed blood following orthopaedic surgery.

Contraindications

1. Systemic infections.
2. Suspected infection of wound or drain site(s).
3. Septic contamination of autologous blood.
4. Malignant neoplasms in the area of blood accumulation.
5. Collected blood containing topical hemostatic agents, topical antiseptics or antibiotics contraindicated for systemic use.

Warnings

1. **Due to the potential for air embolism, do not pressure reinfuse while using the SURETRANS™ autotransfusion transfer bag.**
2. This device has been designed for single use only. Reuse, reprocessing, resterilization or repackaging may compromise the structural integrity and/or essential material and design characteristics that are critical to the overall performance of the device and may lead to device failure which may result in injury to the patient. Reuse, reprocessing, resterilization or repackaging may also create a risk of contamination of the device and/or cause patient infection or cross infection, including, but not limited to, the transmission of infectious diseases from one patient to another. Contamination of the device may lead to injury, illness or death of the patient or end user.
3. To reduce the possibility of infection when reinfusing autologous shed blood, "The time from collection to expiration should be less than 6 hours for recovered blood that is not processed." (AABB. (2010) Guidelines for Blood Recovery and Reinfusion in Surgery and Trauma; pp. 10-11). For proper identification, record the patient's name, ID number and time collection was initiated on the collection container label.
4. Autotransfusion of wound drainage blood has been associated with complications due to blood trauma. Coagulopathy and particulate or air embolism have been reported. Proper procedural techniques should be followed to avoid such complications.
5. Salvaged blood deficient in coagulation factors may, on reinfusion, dilute the patient's clotting factors in vivo and promote postoperative bleeding. Therefore, monitoring of the patient's coagulation status is necessary to avoid coagulopathy.
6. Anticoagulant (ACD-A) may be used at the discretion of the physician. Determination of the amount of anticoagulant to be used should be adjusted according to the patient's condition and type of procedure. Careful attention should be paid to the amount of anticoagulant used on the amount of shed blood collected so as not to exceed 15 mL of ACD-A anticoagulant for every expected collection of 100 mL of blood. Per AABB Guidelines, the administration rate for citrate-bearing anticoagulants is 15 mL per 100 mL of collected blood. (AABB. (2010) Guidelines for Blood Recovery and Reinfusion in Surgery and Trauma; pp. 3-4). The ratio should be followed to prevent reactions such as citrate toxicity or bleeding tendency. In the event of suspected citrate toxicity, calcium administration should be considered.
7. A 20-40 micron microaggregate blood filter is required for use during blood reinfusion.
8. Prior to reinfusion, fully prime the blood administration set to remove air. Also, monitor the infusion line for the presence of air during reinfusion.
9. The one-way valve must be replaced by the tethered plug on port (B) of the SOLCOVAC™

For more information, call your local Davol Representative or customer service at 1.800.556.6275.

For technical support, call Medical Services & Support at 1.800.562.0027.

Please consult product labels and inserts for any indications, contraindications, hazards, warnings, precautions and instructions for use.

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suction reservoir when using it for drainage collection to prevent leakage.

10. When collection unit contains more than 500 mls of fluid, the SURETRANS™ unit must be kept upright.
11. To avoid the possibility of drain damage or breakage:
 - Additional perforations should not be made in the drain.
 - Avoid suturing through drain.
 - Drain should lie flat and in line with the skin exit areas.
 - Particular care should be taken to avoid any obstacles to the drain exit path.
 - Drain should be checked during closure for free motion to avoid possibility of breakage.
 - Drain removal should be done gently by hand. It should not be handled with pointed, toothed or sharp instruments which could cause cuts or nicks and lead to subsequent structural failure of the drain.
 - Surgical removal may be necessary if drain is difficult to remove or breaks.

Cautions

1. Read all instructions prior to use.
2. To help prevent serious adverse events such as allergic reactions to autologous blood transfusions, all transfusion and medical society guidelines, as well as, hospital and institution specific rules, regulations and requirements must be strictly followed.
3. Aseptic technique should be used when exposing and making all connections.
4. Prior to use, ensure that the round white stickers on the 3 Quick-Disconnect Luer-Locks are not damaged or broken. All connections must be properly secured to provide an airtight system.
5. The closed wound drain(s) must be firmly inserted into the Y-connector. The eyes of the drain(s) should not be exposed.
6. To ensure proper blood flow during collection and reinfusion, routinely check the tubing for patency and make sure that the clamps are open.
7. For effective drainage, promptly recharge the SOLCOVAC™ suction evacuator when it is expanded.
8. Although the system will function without regulated suction, suction regulators (set at -80 to -100 mmHg) are always recommended.
9. The responsibility for the use of this device in all cases belongs solely to the physician ordering its use.
10. Actual performance results may vary depending on the many in-use variables.

SURETRANS™ Orthopaedic Drainage Reinfusion Systems

Catalog Number	Quantity	Description
8590000	6/cs.	SURETRANS™ System with 1/8" PVC Drain & (2) Trocars
8592000	6/cs.	SURETRANS™ System with 3/16" PVC Drain & (2) Trocars
8594000	6/cs.	SURETRANS™ System with 1/4" PVC Drain & (2) Trocars
8595000	6/cs.	SURETRANS™ System (Drain & Trocars not included)

SURETRANS™ Orthopaedic Drains and Trocars

Catalog Number	Quantity	Description
8596000	6/cs.	SURETRANS™ 1/8" Round PVC Drain and (2) Trocars
8597000	6/cs.	SURETRANS™ 3/16" Round PVC Drain and (2) Trocars
8598000	6/cs.	SURETRANS™ 1/4" Round PVC Drain and (2) Trocars