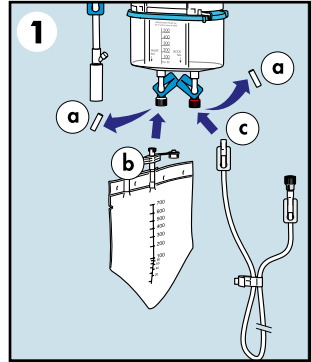


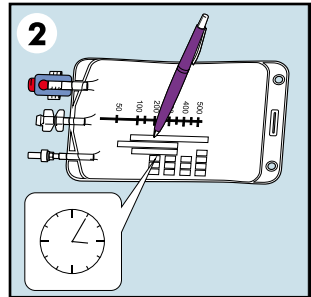
SET UP

Open the Sangvia™ package ensuring that the contents do not become contaminated.

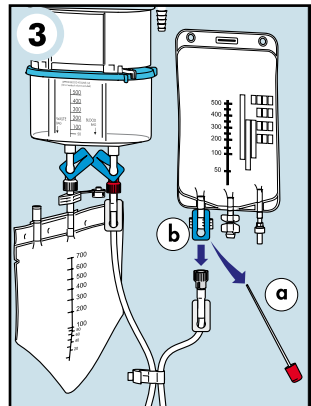
1. a) Remove the protective covers from the outlets of the collection unit.
 b) Connect the waste bag to the waste outlet (white connector).
 c) Connect the autotransfusion tubing to the autotransfusion outlet (red connector).



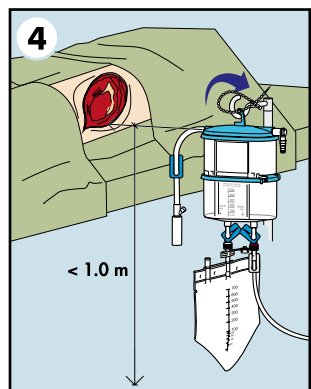
2. Mark the autotransfusion bag with the patient's name, date of birth, gender and hospital number. Mark also the date and time that blood collection started.



3. a) Remove the protective cover from the autotransfusion bag.
 b) Connect the autotransfusion bag to the autotransfusion tubing.

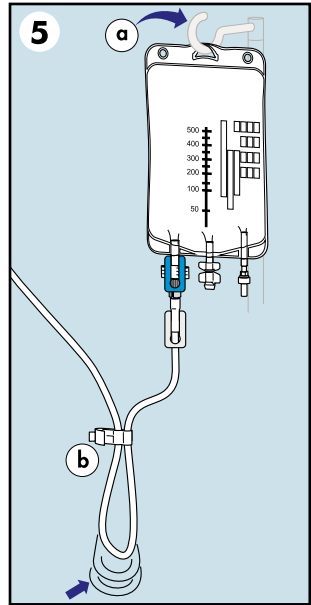


4. Place the collection unit in an upright position no higher than the operation site – approximately 1 m above the floor. Ideally, keep the suction line as horizontal as possible.

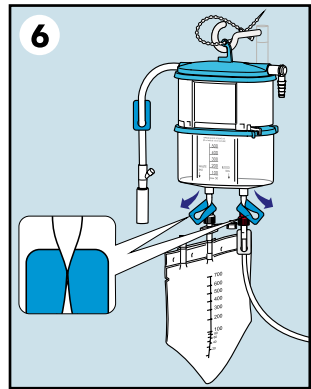


SET UP

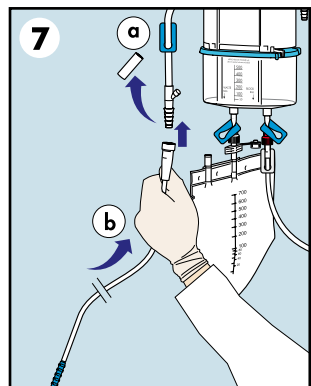
5. a) Suspend the autotransfusion bag from a suitable place, for example on an IV pole.
- b) If necessary, adjust the length of the tubing by the tube clip.



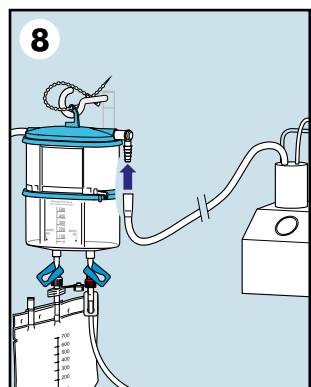
6. Close the slide clamps at the outlets of the collection unit.



7. a) Remove the protective cover from the inlet tubing.
- b) Connect the suction tubing to the inlet tubing.



8. Connect the vacuum port of the collection unit to an external suction source.

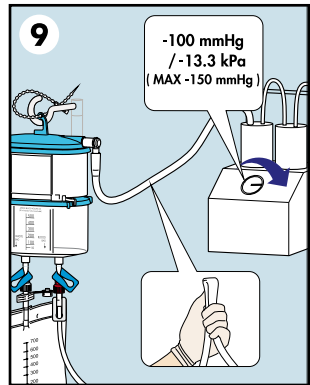


SET UP

- 9.** Set the vacuum regulator to the recommended negative pressure. Important – ensure that the vacuum tubing is kinked when setting or adjusting the negative pressure.

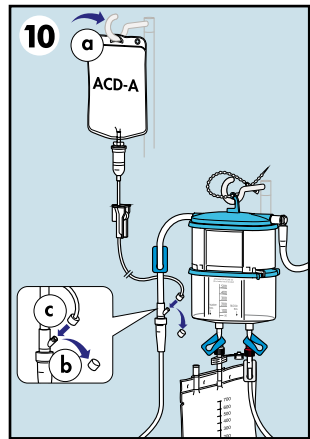
Note: Recommended negative pressure: 100 mmHg / 13.3 kPa.

Maximum permitted negative pressure: 150 mmHg / 20 kPa.

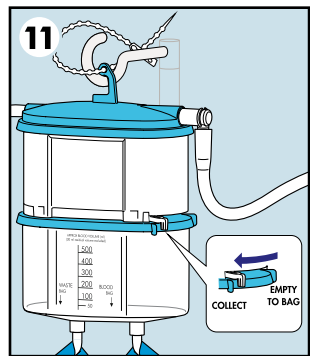


- 10.** a) Prepare the anticoagulant solution, insert an infusion set and suspend from an IV pole.
b) Remove the protective cover from the injection port.
c) Connect the infusion set from the anticoagulant solution to the injection port on the inlet tubing.

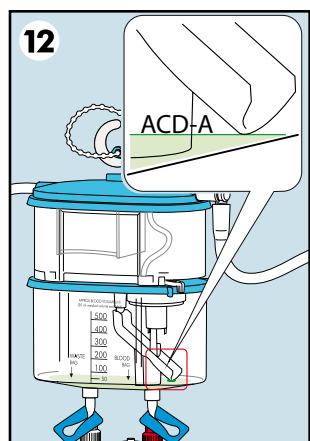
Note: The recommended anticoagulant is ACD-A. If ACD-A is not available, sodium citrate or CPD may be used instead.



- 11.** Ensure that the slider is in the COLLECT position.

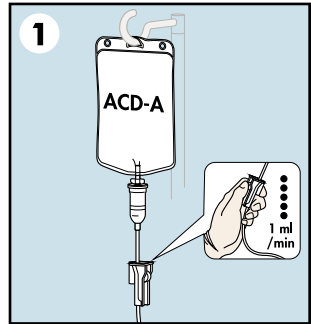


- 12.** Prime the system with anticoagulant solution up to the lower end of the slide (see illustration).

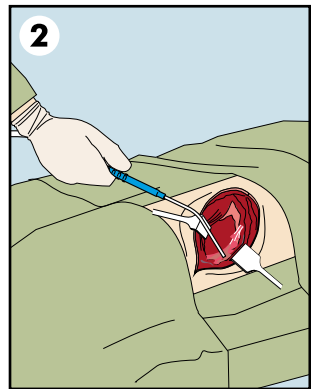


BLOOD COLLECTION

1. When bleeding starts set the anti-coagulant drip to the recommended rate of 1 ml per minute.

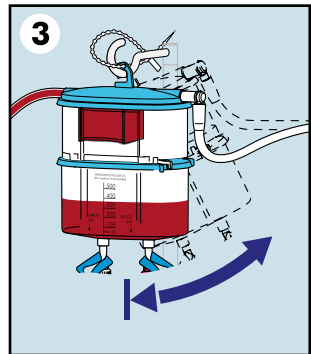


2. Start collecting pooled blood into the system. For optimal blood quality avoid excessive mixing of air and blood during the collection. A separate aspirator must be used when higher vacuum is required or when removing substances unsuitable for reinfusion e.g.
 - When cleaning the wound area with saline.
 - When anchoring the or removing a cemented prosthesis.
 - When removing bone marrow.



3. Mix the blood and anticoagulant by gently shaking the collection chamber forwards and backwards, avoiding blood contact with the air filter.

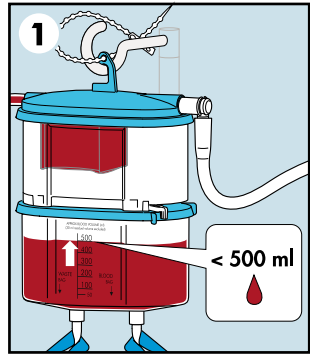
Continue tilt/mix procedure for 10 seconds every 10–15 minutes. Preferably more frequent during the initial collection phase.



Important – ensure that the vacuum tubing is kinked if adjusting the negative pressure during the procedure.

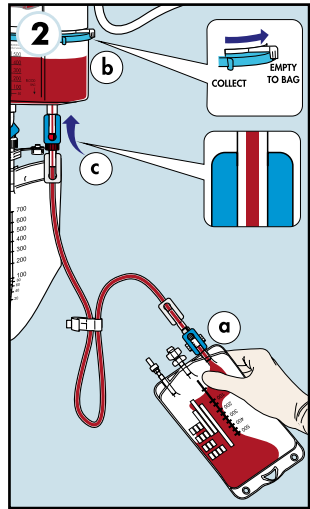
REINFUSION

1. Start the reinfusion phase before the blood has passed the 500 ml level in the lower chamber of the collection unit, or at the end of the operation.



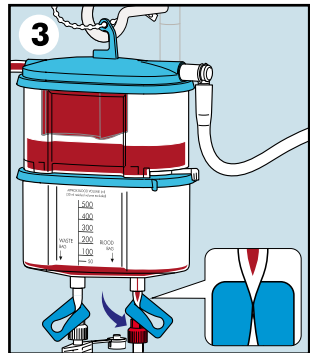
2. a) Make sure that the autotransfusion bag is positioned lower than the collection unit.
b) Move the slider to EMPTY TO BAG position.
c) Open the slide clamp between the collection unit and the autotransfusion tubing.

The blood in the lower chamber will be emptied in the autotransfusion bag. Any blood that is aspirated during emptying of the lower chamber will stay in the upper chamber.



3. When the blood has emptied in to the autotransfusion bag, close the clamp.

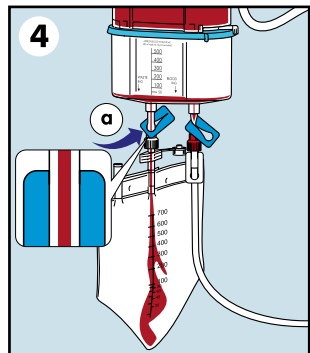
Note: There will always be a residual volume of fat-concentrated blood at the bottom of the lower chamber that can only be emptied in the waste bag.



4. Empty the fat-concentrated blood in to the waste bag:

- a) Open the slide clamp to the waste bag. The contents in the lower chamber will be emptied in to the waste bag.

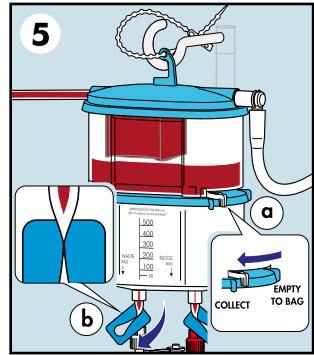
Note: If the slider is not in the EMPTY TO BAG position – move it to this position.



REINFUSION

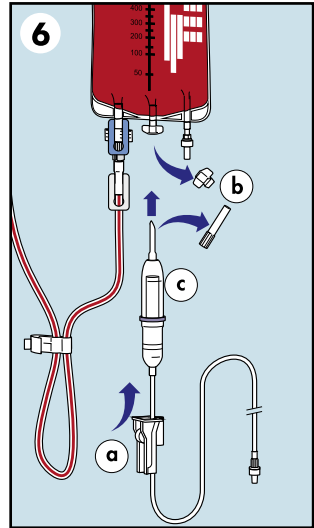
5. When emptying has finished:
- Move the slider back to COLLECT position.
 - Close the slide clamp. The blood in the upper chamber will flow down to the lower chamber.

Note: If more blood is to be collected the collection unit should be re-primed with anticoagulants.

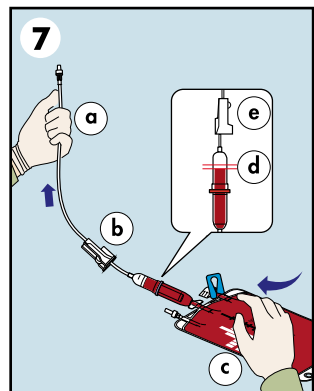


Open the transfusion set without contaminating the connections.

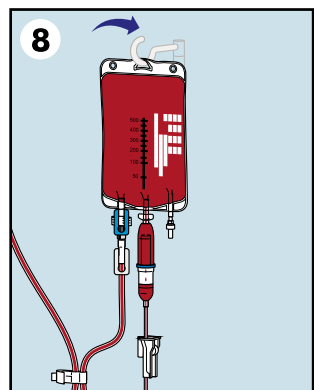
- Position the roller clamp on the transfusion tubing adjacent to the drip chamber. Close off the roller clamp.
- Remove the protective caps from the piercing spike and the spike port of the autotransfusion bag.
- Insert the piercing spike into the spike port.



- To expel any air from the autotransfusion bag and to prime the filter and drip chamber:
 - Invert the transfusion set and the autotransfusion bag.
 - Open the roller clamp.
 - Gently squeeze the autotransfusion bag (retrograde priming).
 - Fill up to the mark on the drip chamber.
 - Close the roller clamp ensuring that the level is maintained in the drip chamber.



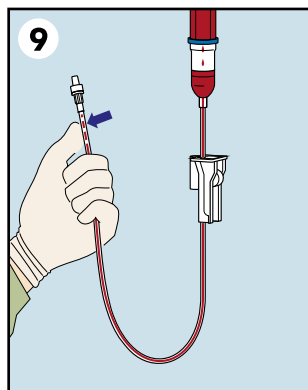
- Suspend the autotransfusion bag on the IV pole.



REINFUSION

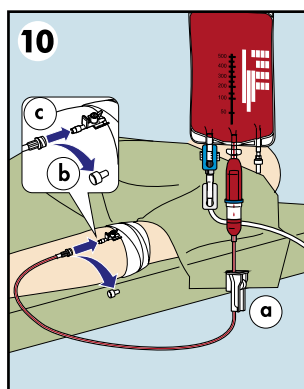
9. Carefully open the roller clamp and expel all the air from the transfusion tubing.

Note: The transfusion tubing must not be connected to the patient's IV cannula while air is being expelled.



10. a) Close the roller clamp.
b) Remove the protective cap from the end of the transfusion tubing.
c) Connect the transfusion tubing to the patient's IV cannula.

Adjust the roller clamp to start reinfusion



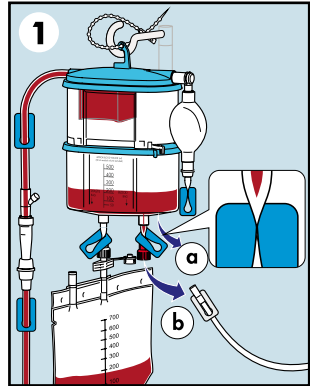
Steps 1–10, excluding steps 6, may be repeated.

Note: Blood collection must be completed within 6 hours from the start of the intraoperative collection.

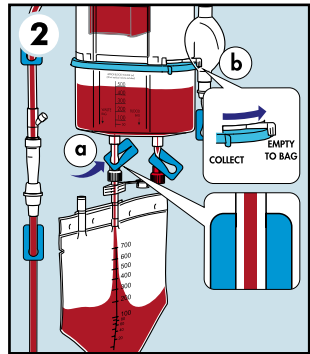
CONTINUATION

After conducted reinfusion, the system can be used as a standard drain.
Remove the autotransfusion tubing, the autotransfusion bag and transfusion set to make the system more compact.

1. a) Close the slide clamp at the autotransfusion outlet.
b) Disconnect the autotransfusion tubing. Discard tubing, bag and transfusion set following the hospital procedures for contaminated waste.

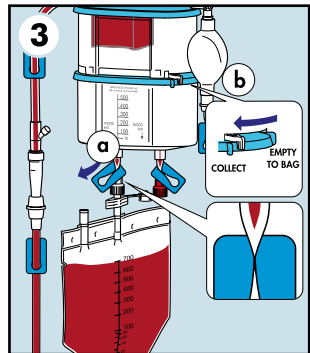


2. The contents of the collection unit can be emptied in to the waste bag:
 - a) Open the slide clamp to the waste bag.
 - b) Move the slider to EMPTY TO BAG position. The contents in the lower chamber will be emptied in to the waste bag.



3. When emptying has finished:
 - a) Close the slide clamp.
 - b) Move the slider back to COLLECT position, to continue the collection of drainage fluid.

Note: If the waste bag is full, it can be replaced by a new one.



Sangvia product range

- 68430 Sangvia® Blood Salvage System, Intra-operative Set
- 68437 Sangvia® Vacuum Tubing
- 68438 Sangvia® Suction Set
- 68431 Sangvia® Suction Set Mega
- 68379 Companion Set
- 68337 Exchange Waste Bag
- 68381 Transfusion Set
- 68376 Y-connector and catheter FG 10
- 68385 Y-connector, catheter and trocar FG 10
- 68377 Y-connector and catheter FG 14
- 68386 Y-connector, catheter and trocar FG 14
- 68378 Y-connector and catheter FG 18
- 68387 Y-connector, catheter and trocar FG 18

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