

An abstract artistic composition featuring a dark grey background. A thick, glossy, red liquid flows from the top right, forming large, undulating ribbons that curve across the frame. Numerous smaller, spherical red droplets of varying sizes are scattered throughout the scene, some appearing to float in the air and others resting on the flowing liquid. The lighting creates bright highlights and deep shadows on the droplets and the folds of the liquid, emphasizing its viscosity and three-dimensional form.

MEDI PLAST

BELLOVAC ABT™

Every drop counts



BELLOVAC ABT™

– Post-operative Autologous Blood
Transfusion for Orthopaedic Surgery



Post-operative autologous transfusion for orthopaedics

Bellovac ABT is a closed, post-operative wound drainage and autologous blood transfusion system for orthopaedic procedures, in particular hip and knee surgery in adult patients. It collects shed blood from the surgical site and enables controlled reinfusion of the patient's own blood, helping to maintain haemoglobin levels and reduce exposure to allogeneic (donor) blood transfusion.



Preserving donor blood, protecting patients

Autologous blood reinfusion is an important component of blood management programmes in elective orthopaedic surgery. By facilitating the use of patients' own blood, Bellovac ABT supports patient safety, preservation of allogeneic blood stocks and more efficient use of transfusion resources at the hospital.



Closed system design for safety and simplicity

Bellovac ABT provides a fully closed system with triple non-return valves to protect both patient and staff. No capital equipment is required and, thanks to its dual function as drainage and autotransfusion system, additional wound drainage sets are not needed.



Complete, sterile and ready-to-use

The Bellovac ABT System is supplied sterile and ready to use. Each set contains a trocar and catheter, suction bellows, autotransfusion bag and transfusion set – all intended for single use. A dedicated accessory range allows adaptation to different procedures and institutional protocols.

Inlet clamp

Controlled, ergonomic handling

The inlet clamp is designed for secure, one-hand operation when starting and stopping drainage into the bellows.

Triple non-return valves

Safety in a closed circuit

Bellovac ABT incorporates triple non-return valves: one in the bellows inlet, one in the bellows outlet and one in the autotransfusion bag. These elements help maintain a closed circuit and minimise the risk of backflow, air entry and contamination, enhancing safety for patients and staff.

Suction bellows

Gentle, effective drainage

The suction bellows can be filled to a maximum of 220 ml and operate at an initial negative pressure of 90 mmHg / 12 kPa. This provides gentle, controlled suction for effective post-operative wound drainage while helping to protect delicate tissues.

Outlet clamp

Controlled, ergonomic handling

The outlet clamp is designed for secure, one-hand operation when transferring blood from the bellows to the autotransfusion bag and during bag changes.

Double filters

Filtration for reinfusion quality

The system includes a 200 µm macrofilter in the autotransfusion bag and a 40 µm microfilter in the transfusion set. Together, they help retain clots and micro-particles, supporting high-quality blood for reinfusion.

Transfusion set

Controlled reinfusion to the patient

The dedicated transfusion set is used for the reinfusion phase. It includes a flow regulator and drip chamber for visual monitoring and adjustment of the flow rate, an integrated 40 µm microfilter and a closure-piercing device for secure connection to the autotransfusion bag, providing controlled, single-use reinfusion according to local protocols.

THIS IS BELLOVAC ABT



Biocompatible materials
Designed to meet current standards
 All components are DEHP-free and made from biocompatible, pyrogen-free materials.

BELLOVAC ABT PRODUCT RANGE

Bellovac ABT System with trocar – Complete and ready to use

The Bellovac ABT System is delivered sterile, complete and ready to use for the collection and reinfusion of one unit of autologous blood.



Ref. no.	Pack configuration	Description
68306	2 x 10 pcs	Bellovac ABT System FG 10
68307	2 x 10 pcs	Bellovac ABT System FG 14
68308	2 x 10 pcs	Bellovac ABT System FG 18

Companion System – For additional collection and reinfusion

When post-operative blood loss exceeds one unit (500 ml), the Companion System can be added. It consists of an autotransfusion bag and transfusion set, enabling continued autologous transfusion without replacing the drainage system.



Ref. no.	Pack configuration	Description
68309	4 x 5 pcs	Autotransfusion bag (500 ml) and transfusion set

Extension line – Maintaining a closed circuit

The extension line allows the system to remain closed from patient to reinfusion, which may be required by local policy or individual patient preference (e.g. certain religious groups).



Ref. no.	Pack configuration	Description
68380	4 x 5 pcs	Extension line

Exchange drainage bags – Continued drainage after transfusion phase

Within six hours from the start of collection, the blood collection phase is ended and standard wound drainage continues. Exchange drainage bags enable straightforward transition from autotransfusion to conventional drainage using the same catheter.



Ref. no.	Pack configuration	Description
68337	12 x 50 pcs	Exchange drainage bag – PVC-free

Other accessories – Configurable for different procedures

A broad range of Y-connectors and catheters, with or without trocar, supports adaptation to various procedures and individual patient needs.



Ref. no.	Pack configuration	Description
68376	25 / 100 pcs	Y-connector and catheter FG 10
68377	25 / 100 pcs	Y-connector and catheter FG 14
68378	25 / 100 pcs	Y-connector and catheter FG 18
68385	25 / 100 pcs	Y-connector and catheter FG 10 with trocar
68386	25 / 100 pcs	Y-connector and catheter FG 14 with trocar
68387	25 / 100 pcs	Y-connector and catheter FG 18 with trocar

Autologous transfusion as part of modern blood management

The risks and limitations associated with allogeneic (donor) blood transfusion are well described in the literature, and donated blood is a limited and costly resource. Many institutions therefore implement patient blood management strategies to reduce unnecessary exposure to allogeneic transfusion.

Bellovac ABT supports these strategies by enabling safe, post-operative autologous transfusion in orthopaedic surgery.

Potential benefits include:

- ✓ Reduced need for allogeneic (donor) blood transfusion
- ✓ More predictable use of blood resources
- ✓ Support for institutional patient blood management policies
- ✓ A standardised, easy-to-learn system for clinical staff

Autologous blood can be integrated into several stages of peri-operative care, including pre-donation, haemodilution, intra-operative and post-operative autotransfusion. Bellovac ABT is intended specifically for autologous transfusion of blood collected from the wound after surgery.

References

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Weber EWG. Optimized blood management for elective orthopaedic surgery. Doctoral thesis. Maastricht University; 2003. ISBN 90-5278-394-2.
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