



The Hemobag®

Nothing Could Be Better For Your Patient's
Than Their OWN Concentrated Whole Blood!

Hemostasis is Really Improved by Removing Water From Blood

Coagulation Parameter	Reference Range	Pre-processing Mean	Post-processing Mean	Change	P
PT	11.0-15.0 sec	23.32	15.02	-8.3	<0.01
INR	2.0-4.0	2.03	1.28	-0.75	<0.01
Reptilase Time	14.0-18.5 sec	18.25	19.20	0.95	0.02
Fibrinogen	150-350 mg/dl	216.64	366.00	132.7	0.01
F II	0.70-1.50 U/ml	0.49	1.30	0.8	<0.01
FV	0.70-1.50 U/ml	0.43	1.15	0.72	<0.01
F VII	0.60-1.60 U/ml	0.54	1.31	0.78	<0.01
FX	0.70-1.50 U/ml	0.45	1.11	0.65	<0.01
F VIII	0.60-1.50 U/ml	1.03	2.71	1.69	<0.01
F IX	0.60-1.50 U/ml	0.79	2.00	1.21	<0.01
ADAMTS-13	>68%	48.00	75.67	27.67	<0.01
vWF	0.50-1.60 U/ml	1.53	2.86	1.32	<0.01
PC	70-140 %N	57.64	155.27	97.64	<0.01
PS	58-128%N	52.55	178.45	125.91	<0.01
ATIII	80-120 %N	41.64	117.64	76	<0.01
Hematocrit	36.0-45.0%	20.93	49.97	29.03	<0.01
PLT count	150-370	157.11	181.33*	24.22	0.43
PLT Agg (20µM ADP)	60-100%	71.63	60.13	-11.5	0.04

The AABB is suggesting the use of Whole Blood.

*110K Functional Autologous Platelets Returned

Salvaging & Concentrating Autologous Whole Blood

Better than Traditional MUF with Less
Blood Product Exposure and NO AKI.

Able to Give Protamine • Close the Chest • No Delays

It's the **Right Thing** at the **Right Place** at the **Right Time**

The Hemobag® Salvaging your Circuits Plasma & Platelets!

Improve your Patient's Outcomes **QUICKLY** and **EASILY.**

Call **(800) 942-9243** or visit **www.mybloodfirst.com**



**Global Blood
 Resources**

The Hemobag® from Global Blood Resources (GBR)

What is it:

The Hemobag® is a product and a method that is used for concentrating anticoagulated whole blood using a technique that will allow for quick return of all blood components (Red Cells, Platelets, Plasma Proteins) back to the patient, in a concentrated form. Unlike most forms of blood salvage that only save the red blood cells, the Hemobag preserves all of the components necessary for coagulation. The Hemobag may be used for any procedure where large volumes of anticoagulated blood have been salvaged and or remain in an anticoagulated circuit; the primary focus is the volume of diluted blood that remains in a heart/lung machine circuit (cannula-to-cannula) after the cardiopulmonary bypass system has been disconnected from the patient at the end of surgery which is similar in every case. Both patient and laboratory studies have consistently demonstrated improved blood parameter values using the Hemobag versus other methods. No other product or method used in cardiac surgery, for blood processing, has demonstrated the improved blood component parameters for all blood components. The salvage, concentration and return of all blood components are essential for the stability, coagulation and homeostasis of the surgical patients exposed to hemodilution and blood loss. In addition to the clinical benefit of helping to eliminate donor blood component exposure, the Hemobag helps reduce the overall cost of the procedure. Through minimizing or eliminating blood component administration, which is very costly, and improving recovery times, the Hemobag has demonstrated significant cost reductions.

Who is it for:

The Hemobag is a product and method that benefits all groups focused on improving the process of blood conservation and the care of patients in cardiac surgery and other large invasive blood loss procedures requiring careful management of a patient's blood due to dilution and loss. The added benefit is the Hemobag reduces cost to all parties involved in paying for both the delivery and receiving of care.

Patients: receive the most complete restoration of their blood component content and function that is available with current technologies focused on salvaging, processing and returning a patient's own blood during and after the surgical procedure.

Perfusionists: utilize a product and technology that is a time proven perfusion technique that has been developed specifically to simplify, speed-up, and safely and reproducibly improve the product and process of whole blood recovery after cardiopulmonary bypass.

Surgeons & Anesthesiologists: direct the use of a product and technology knowing there is sound clinical evidence and research data to support the clinical benefits to patients and cost savings to all involved.

Administrators: receive the managed solution to assist in the significant reduction of procedural cost while improving a clinical process.

The Hemobag is for all concerned with blood processing during surgery; the quality, cost and impact on the patient's care and recovery.

Why use it:

The Hemobag® end product is proven through extensive laboratory testing to be the most complete blood product of the patient's own blood, being processed and returned quickly to the patient at the conclusion of heart surgery. All other FDA approved products used for processing blood from the heart/lung machine, at the conclusion of surgery, are designed to salvage and process only certain components of the blood, leaving the remaining blood component volume as waste. Red cell mass, Platelets and Plasma proteins necessary for normalization of the coagulation process and patient stability are not only salvaged and processed by the Hemobag, they are concentrated. The result of providing such a complete whole blood product is a faster return to normal coagulation, Homeostasis and a reduction of allogeneic transfusion exposure.

The Hemobag helps reduce or eliminate allogeneic blood component exposure which is not only a significant clinical advantage, but Hospital Value Analysis has demonstrated a significant impact on the reduced cost of blood components due to the Hemobag use.

Clinicians use the Hemobag because:

- It has consistent reproducible results
- The technology is time tested in cardiac surgery globally
- The end product is more complete, and has greater patient advantages than cell washing where only RBC's are salvaged
- It reduces allogeneic exposures
- It reduces cost
- It is easy to use and it keeps your circuit primed at all times in case of an emergency