HEMAsavR™

Case Study

HEMAsavR™ reduces allogeneic transfusion in post op cardiac care.

Comprehensive Blood Management demonstrated that HEMAsavR can significantly reduce the allogeneic transfusions following open heart surgery by salvaging shed blood from chest drains at a level I trauma center.

Comprehensive Blood Management implemented HEMAsavR with chest drains after cardioPAT, a post op collection and reinfusion device, was discontinued. The CV surgeons, nursing team and perfusion teams evaluated options to support their focus on blood conservation, reducing allogeneic transfusions and their associated risks. After a short trial period, the team decided to implement the HEMAsavR because it is easy to use and cost effective.

Ecomed Solutions worked with perfusion, nurses and cardiac surgeons to develop protocols and implement HEMAsavR to collect shed blood from chest drains. The HEMAsavR was easily integrated into existing clinical practice by an interdisciplinary team.

The original protocol at the hospital targeted 1000 mL of blood loss collected with HEMAsavR for transfer, salvage and reinfusion of shed blood from chest drainage. However, utilizing HEMAsavR's sampling port to determine hematocrit, it quickly learned the chest tube blood had hematocrit of 20% and higher and reduced its blood loss target. The hospital's updated protocol is to evaluate, process and reinfuse shed blood once it has collected 500 mL's in the HEMAsavR.

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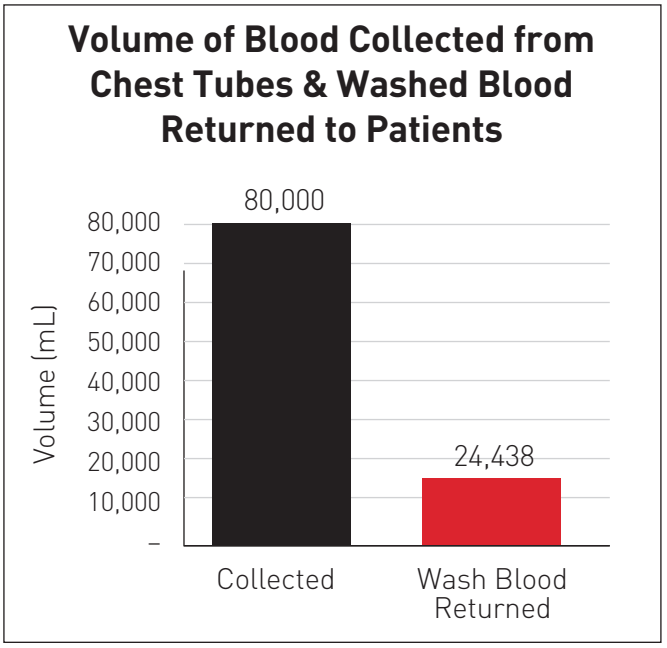

Expanded Collection of Post Cardiac Shed Blood

- ~80,000 mL of blood collected from chest drains
- 24,438 mL of washed autologous blood returned to patient with HCT of ~65%

Cost Savings of $137,284

- 98 units of bank blood avoided
- 98 patients during first 12 months
- Cost effective collection

Reduction in Allogeneic Transfusion

- Avoid risks and costs associated with the use of allogeneic blood

"By implementing HEMAsavR, we are able to optimize blood management and salvage high quality blood that would otherwise be thrown away. This supports our goals of improving patient care and reducing costs to our hospital," —PBM Medical Director.

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