TERUMO BCT SOFTWARE CASE STUDY

Software Helps the Blood Center of Ribeirão Preto, Brazil
Meet the Community’s Need for High-Quality Platelets

OVERVIEW

■ Customer: The Blood Center of Ribeirão Preto is a public institution that serves a population of 5 million people in the state of São Paulo, Brazil. The organization has twelve units: five are hematology and hemotherapy centers, three are hemotherapy units and four are transfusion agencies. The center supplies blood components to approximately 140 hospitals, serving 200 municipalities, and it performs an average of 120,000 whole blood collections, 2,000 apheresis collections and about 400 therapeutic apheresis procedures per year.

■ Contact: Dr. Benedito de Pina Almeida Prado, Jr., Apheresis Technical Manager

ISSUES/CHALLENGES

■ Budgetary constraints made it difficult to purchase additional sets and to meet the demand for high-quality blood components

TERUMO BCT SOLUTION

■ Trima Accel® Automated Blood Collection System
■ TOMEs (Terumo Operational Medical Equipment Software)
■ Trima KPI Dashboard

This chart from KPI Dashboard shows a 30 percent reduction in single-component procedures in just over a year.

BENEFITS

Terumo BCT worked with the blood center to provide device and software training, as well as the technical assistance to implement these new technologies.

The center now uses Trima Accel to collect the right component, at the right time, from the right donor. Trima Accel provides procedure priority lists that help operators better match collections with patients’ needs. Blood center managers, rather than individual operators, develop these lists for greater control of collections. Trima Accel helps ensure donor safety and promotes operator confidence by displaying post-collection platelet count and hematocrit.

After TOMEs was installed, the software began sending real-time data from Trima Accel to KPI Dashboard. This new data gave blood center managers insight into the blood center’s performance, allowing them to measure and track their apheresis program. Now, they could easily identify areas for improvement and optimize efficiency within the center. Using KPI Dashboard to measure productivity and efficiency of their collections, they were able to reduce single-component procedures by 30 percent. This equated to 600 additional platelet units available for transfusion without any additional collection costs.

Dr. Benedito says, “What I appreciate most about KPI Dashboard is the real-time data analysis, without potential manual data entry errors. Another benefit is the real-time communication with other people in the collection process. For example, I can collaborate with the lab and the collection team to share productivity indicators, helping us optimize our entire operation. Each person is alerted when we don’t meet the standards and we need to adjust to reach our goals.”
FUTURE
The center will continue using TOMEs and KPI Dashboard to help improve data collection and analysis of the products collected. Blood center managers would also like to add quality control data from the products to complete analysis of the blood component production cycle. This new data will help them safely collect higher-quality products, ultimately benefiting patients.

A manager can now configure Trima Accel to match each donor to the most efficient and productive procedure based on gender, weight, height, platelet count and hematocrit. The system maximizes multiple-component and maximum-volume collections while safeguarding each donor’s post-collection platelet count and hematocrit. This means the operator simply enters the donor data, and Trima Accel automatically prioritizes the optimal collection. TOMEs then allows managers to analyze post-procedure data by extracting it from Trima Accel and sending it to KPI Dashboard.

ADVICE FOR OTHER BLOOD CENTERS

“I recommend that other blood centers leverage Terumo BCT technologies to help them perform better collections and to identify the best donors for multiple product collections.”

—Dr. Benedito de Pina Almeida Prado, Jr.

The information in this case study is based on an interview with Dr. Benedito de Pina Almeida Prado, Jr. in February 2018.

Trima Accel is available in select markets.

TOMEs is available in select markets. Not approved for sale in the U.S.