Customer Success Story

Hospital Decreases Cell Collections Not Meeting Target From 53% to 8%

TERUMO BLOOD AND CELL TECHNOLOGIES

The customer: Avera McKennan Hospital and University Health Center

The problem: More than half — 53% — of cell collections were not meeting target yields, resulting in extra time and cost for additional patient procedures.

How Veda Solutions helped: The team created a prediction algorithm customized for each patient to calculate the volume to process for that individual's target dose. Using the algorithm, the percentage of collections that failed to reach target yields decreased from **53% to 8%** (Figure 1). Other improvements: the average volume of whole blood processed **decreased 11% from 18,043 to 16,002 mL** (Figure 2), and the average procedure time **decreased 24% from 380 to 287 minutes** (Figure 3).

Figure 1: Failure to Reach Target Yields

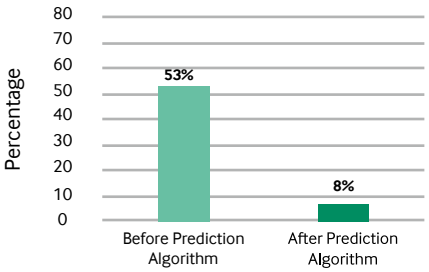


Figure 2: Average Volume of Whole Blood Processed

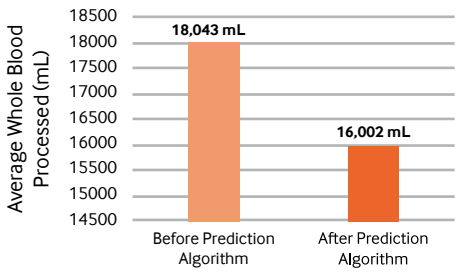
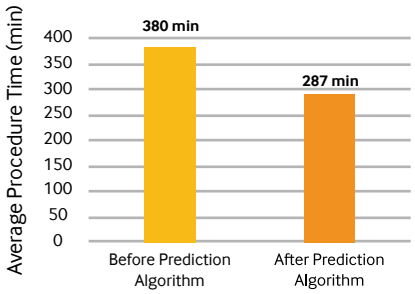


Figure 3: Average Procedure Time



*Figures created using unpublished data internal to Terumo Blood and Cell Technologies and the subject customer.
The examples provided are not meant to be interpreted as a guarantee of results.

> **"The prediction algorithm our team helped to develop saves us from processing higher volumes than needed especially when the CD34 is high. An example is when our collection manufacturer customer asks us to process 24 L, but we only need to process 8 L, and we still reach our goal. We have been using the prediction algorithm for about five years."**
>
> - Apheresis Supervisor, Avera McKennan

Ready to optimize your cell collection process?

Let's Connect!

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TERUMO BLOOD AND CELL TECHNOLOGIES

Terumo Blood and Cell Technologies is a medical technology company. Our products, software and services enable customers to collect and prepare blood and cells to help treat challenging diseases and conditions. Our employees around the world believe in the potential of blood and cells to do even more for patients than they do today. **TerumoBCT.com**

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