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BACKGROUND

Reduction in red blood cell transfusion decreases morbidity, mortality, length of stay and the costs associated with each.

Thomas Jefferson University Hospital (TJUH) embarked on the integration of patient blood management (PBM) as a daily, embedded quality improvement strategy with SpecialtyCare, an outsourced provider of patient blood management services.

GOALS

Optimizing PBM by:

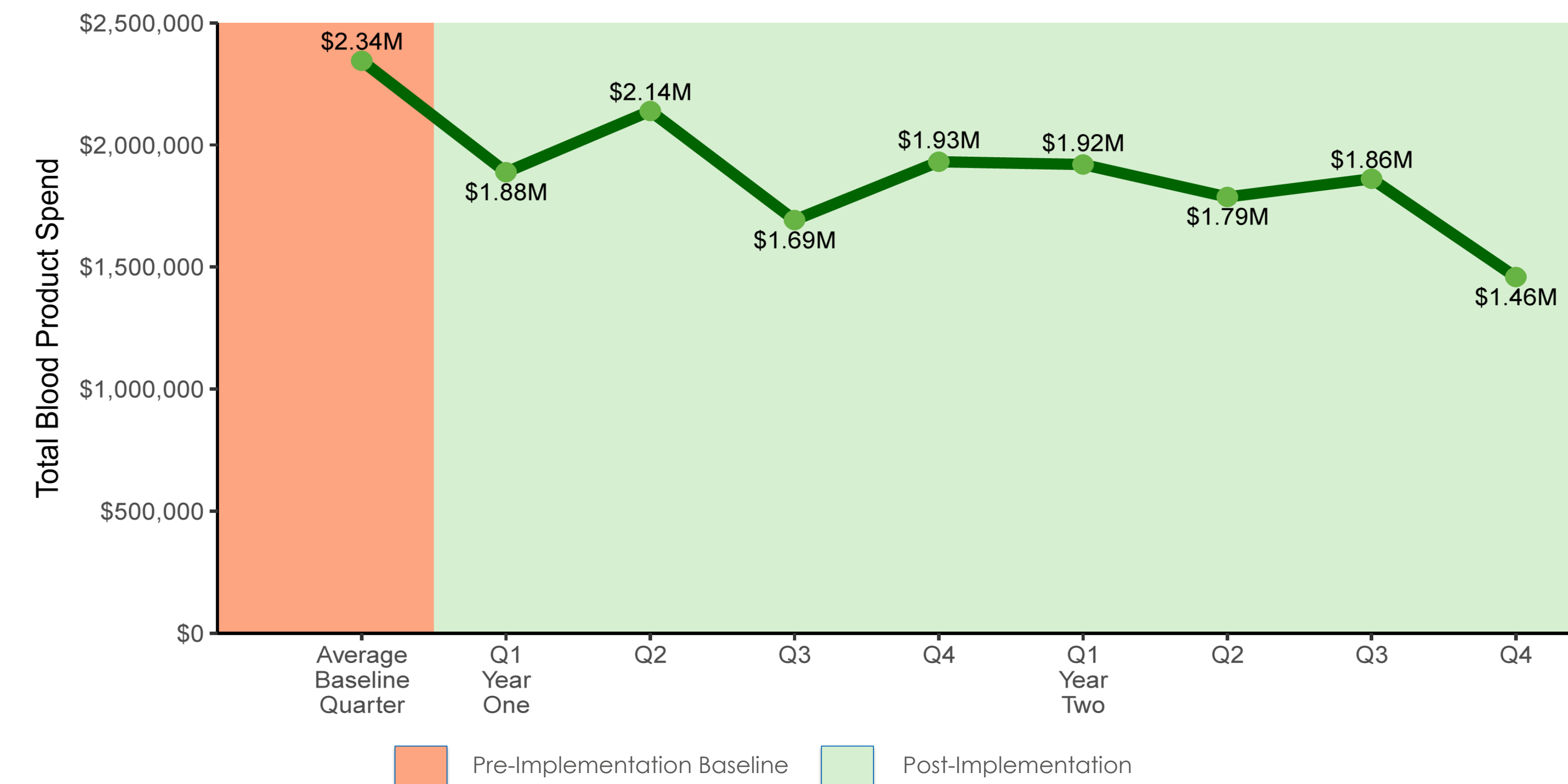
- Focusing on patient-centered transfusion with specific criteria
- Reducing cross-match/transfusion ratio
- Reducing unnecessary transfusions and blood wastage
- Re-evaluating policies, consents, and refusal of blood products

METHODS

- Blood policy review
- Evidence based guidelines established
- Conducted intensive education sessions for all clinical decision makers
- Tracked key metrics to reduce transfusions
- In-service training to physicians and staff
- Daily focus through central team to align medical specialties

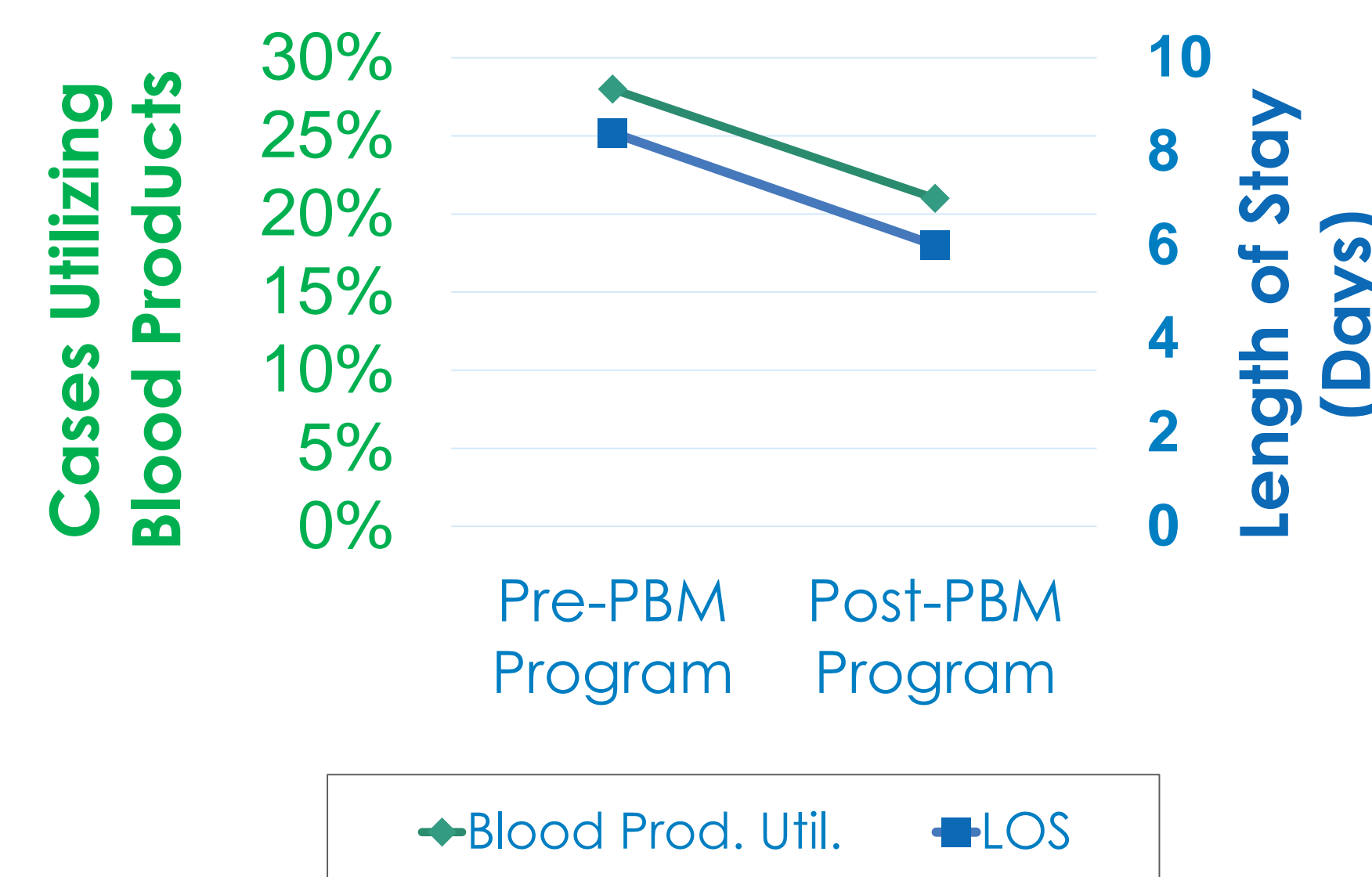
RESULTS

Effective PBM Reduced Total Hospital Spending on Blood Products by 28%



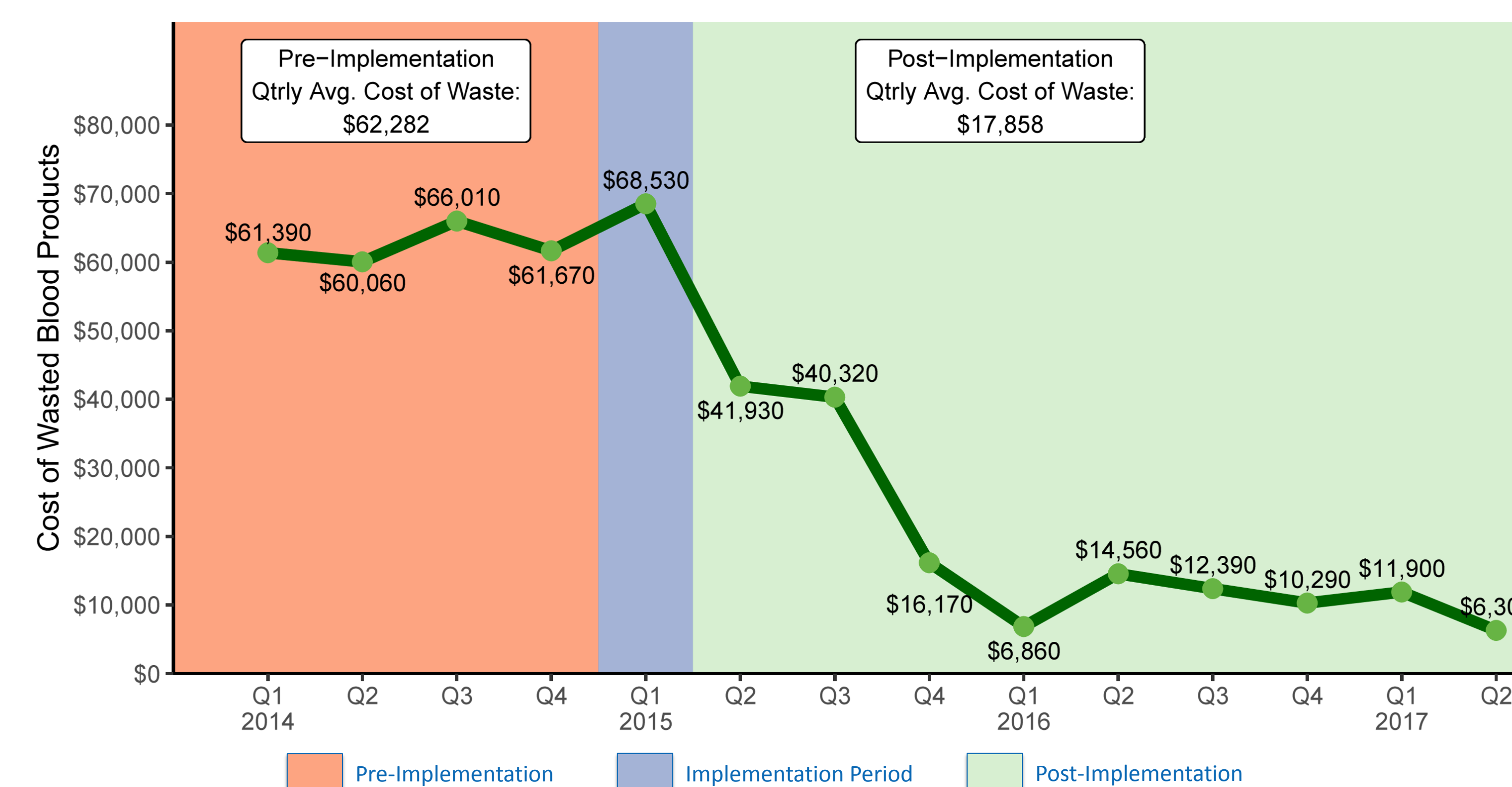
Blood Usage Reductions Were Associated with Reduced Length of Stay

Intracranial Hemorrhage Patients



	Mean Blood Product Use	Mean LOS
Liver Disorders : DRG-442		
Pre-PBM Program	22% (26/119)	8.4
Post-PBM Program	14% (10/72)	3.9
Renal Failure: DRG-682		
Pre-PBM Program	30% (49/161)	10.6
Post-PBM Program	26% (31/119)	5.6
Craniotomy: DRG-025		
Pre-PBM Program	32% (102/322)	9.7
Post-PBM Program	26% (74/285)	7
Revision of Hip/Knee Replacement: DRG-468		
Pre-PBM Program (2014)	16% (33/210)	6.1
Post-PBM Program (2016)	11% (20/182)	3.8

Cost of Wasted Blood was Reduced by 71% in Neuro and Spine Surgery



RESULTS

- 12,654 fewer blood component units transfused over 2 years
- 22% reduction in packed red blood cell transfusion rate over 2 years
- Over \$4M in total savings over 2 years
- Blood Product Cost/Patient Reduced 33% from Baseline
- PBM Program Overall ROI 277%, Annual ROI 138%

CONCLUSION

An effectively managed and coordinated PBM program can:

- Reduce blood product utilization
- Lower RBC unit waste
- Reduce spending on blood products and associated complications

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