A Journey of Educational Transformation and Organizational Improvement through Development of an Institutional Patient Blood Management Program

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PHCMC Inpatient RBC transfusions from July 2016 through June 2017 shows significant improvement.

- Increased RBC transfusion criteria compliance rate from 59% to 80%.
- Decreased RBC transfusion volume from an average of 346 units/month to 296 units/month; 15% reduction.
- Decreased RBC transfusions per 1000 patient days from 58.6 to 51.3; 13% reduction.

Method adoption from the CA Region of 6 ministries (hospitals) resulted in approx. $4.5M annual direct and indirect savings.

PHCMC formed an interdisciplinary team consisting of physicians, nurses, quality management specialists, and representatives from perioperative services and blood bank to build the PBM program.

Review of several TJC, AABB, and SABM resources including current, evidence-based transfusion criteria and strategies guided our PBM program development.

The regional healthcare data team created reports which helped identify outlier specialties, and individual providers for targeted education.

PBM Process Improvement Plan:

- Providing CME lectures on blood management and bloodless medicine.
- Aligning the Transfusion Committee’s peer review criteria with current AABB transfusion guidelines.
- Sending educational letters to outlier physicians following peer review of their cases.
- Presenting current, evidence-based transfusion criteria to our SNF Collaborative.
- Presenting outliers based on specialty at the designated medical staff committees.
- Creating required clinical employee education modules on the PBM program and recommended best practices for transfusion.
- Monthly blood administration tracers.
- Displaying the AABB Infographics Poster throughout the hospital.
- Developing index reference cards with indications for RBC transfusions.
- Physician attestation letter (sample on poster).
- Featured section on weekly CMO Brief email sent to all physicians.

The PHCMC PBM program continues to collaborate with key stakeholders throughout the organization and with community business leaders to identify best practices in transfusion care. In addition, the program focuses on reducing the need for transfusion by optimizing the patient condition through the use of transfusion alternatives and decreasing iatrogenic blood loss.

Summary

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