Aim: Patient Blood Management (PBM) is a National Patient Safety initiative that is recognized by several care collaboratives as part of their Choosing Wisely® campaigns. Some of these care collaboratives include the American Society of Hematology, the Society of Hospital Medicine, the Critical Care Societies Collaborative, and many others. Edward-Elmhurst Health (EEH) evaluated transfusion practice across all specialties, recognizing over-transfusion in both hemoglobin thresholds for transfusion as well as transfusion dosing. EEH had initial performance rates of 41% of transfusions happening at a hemoglobin of less than 7g/dL and a Single Unit Transfusion (SUT) rate of 61%. The percentage of transfusions occurring at hemoglobin threshold greater than or equal to 8g/dL was 17%. These performance rates are based on 4483 transfusions in non-hemorrhaging, non-OR, adult patients. Over a two-year period, through implementation of a comprehensive PBM program, Edward-Elmhurst Health has reduced patient exposures to blood and blood components by over 25%, all while improving patient outcomes and reducing the cost of care.

Methods:
- Hospital engaged nationally recognized PBM experts
- Multidisciplinary group identified to evaluate, analyze, implement and re-evaluate data and processes on a regular basis
- Ongoing data analysis, evaluation, and dissemination to high utilizing specialties, including physician level data
- Implementation of a best-in-class CPOE for RBC ordering
- Broad education and awareness campaign focusing on the importance of restrictive transfusion practice, not only with lower hemoglobin thresholds, but also single unit transfusion

Results: Hospital-wide improvement in clinical metrics as follows (Jan-Jun 2017 compared to Jan-Jun 2019):
- Improvement in Single Unit Transfusions from 61% to 86%
- Improvement in Transfusions for Hemoglobin Less than 7g/dL from 41% to 65%
- Decrease in Transfusions for Hemoglobin Greater than/equal to 8g/dL from 17% to 9%
- Reduction in Average Pre-Transfusion Hemoglobin from 7.2g/dL to 6.8g/dL
- Reduction in overall number of RBCs transfused from 4483 to 3187

Next Steps: With the success that has been achieved in Patient Blood Management and the reduction of unnecessary transfusion across Edward Elmhurst Health, our multi-disciplinary team is shifting the focus to other utilization opportunities such as Test Utilization and Imaging Stewardship. Using the same methods and engaging the same stakeholders, we will continue to monitor blood utilization while reducing other unnecessary waste across our system.