Reducing blood loss in hip & knee replacement surgery

Inelda Gjata, Shawn Dowling, Sampson Law, Lara Cooke, Kelly Burak, Leyla Baghirzada, Ryan Endersby, Lori Olivieri

1 University of Calgary Physician Learning Program, 2 Alberta Health Services

Hip & knee replacement surgeries are increasingly common in our aging population.

There is a risk of substantial blood loss with these surgeries.

Clinical Evidence shows that IV Tranexamic Acid (TXA) reduces the risk of a blood transfusion in these surgeries.

Our data showed an increase in TXA use and a decrease in blood transfusions in hip and knee replacements.

How we did it:

- Provide anesthesiologists with data reports on their use of TXA and blood transfusions
- Host a facilitated feedback session
- Evaluate changes in TXA use and blood transfusions

South Health Campus Hospital Anesthesiologists believed TXA was being used inconsistently.

We set out to:

- Patients who did not receive TXA were 2.3x more likely to receive a blood transfusion

Our research found that...