2016 Repeat Audit of Patient Blood Management in Adults undergoing elective, scheduled surgery



PBM Audit Sep to Nov 2016



156 hospitals participated, 138

138 hospitals also participated in the 2015 audit



3266 patients

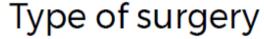
median age 76 years

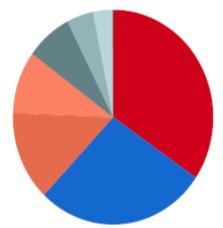


7000 red cell units

There has been an improvement in PBM practice since 2015, when the original audit was performed







- Orthopaedic (elective) (34.54%)
- Fractured neck of femur (27.59%)
- Cardiac surgery (13.50%)
- Gynaecological surgery (9.46%)
- GI surgery (7.38%)
- Vascular surgery (4.32%)
- Nephrectomy (3.15%)
- Unknown (0.06%)

Pre-Operative Patient Blood Management



50%

of patients received appropriate pre-operative anaemia management before surgery

Compared to

46%

in 2015

(1004/2185)



6.3% of patients received a pre-operative transfusion (207/3262)

13%

received a transfusion when the Hb threshold was below the national guidelines, compared to 8.9% (18/203) in 2015



34%

of patients received a transfusion using a single unit approach

Compared to

27% in 2015

(57/213)

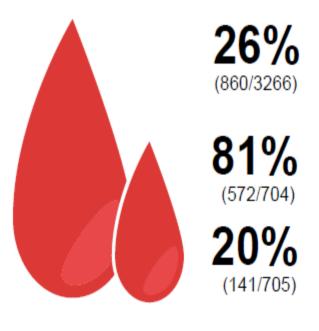


2%

of patients that had pre-operative anaemia management and received a transfusion were given the transfusion appropriately



Patient Blood Management in theatre and recovery



of patients received an intraoperative transfusion

of patients who had received an intraoperative transfusior had received at least one appropriate PBM measure

had received all appropriate PBM measures



Tranexamic Acid



42% (1367/3255)

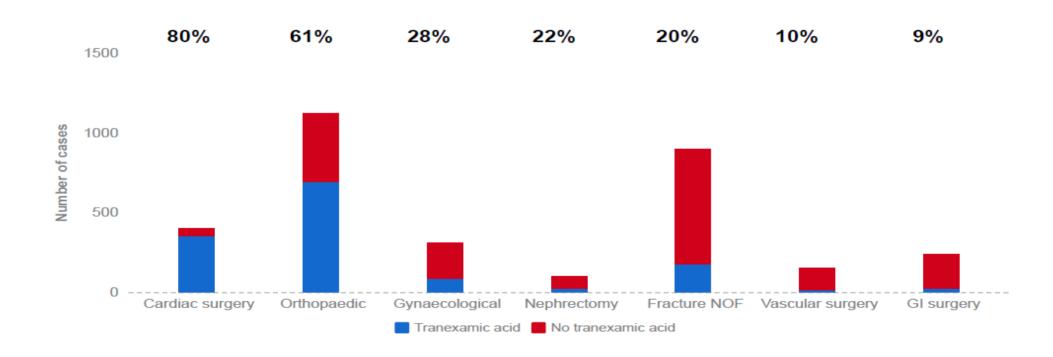
of all patients received tranexamic acid

Compared to

32% in 2015



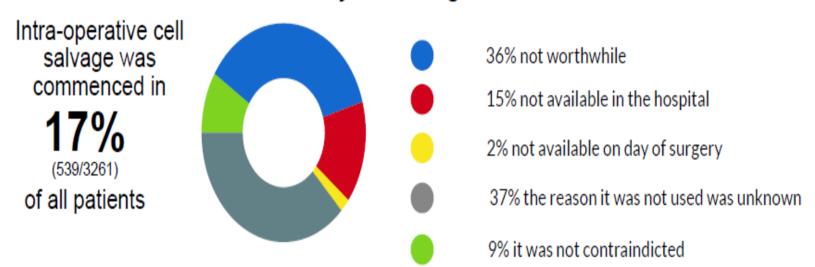
Number of surgical cases and percentage that used tranexamic acid





Intra-operative cell salvage

Reasons why cell salvage was not started



Post-Operative Patient Blood Management



74% (2396/3256) of patients received a post-operative transfusion

84% (1494/1672)

of patients who had received a post-operative transfusion had received at least one appropriate PBM measure

10% (172/1668)

had received all appropriate PBM measures, compared to

7.5% in 2015



(797/2356)

of patients received their first post-operative transfusion when actively bleeding or when the Hb was less than the national guidelines

Compared to

in 2015

(503/2158)



Clinical staff used a single unit transfusion approach in of patients who were not actively bleeding

Compared to

37% in 2015



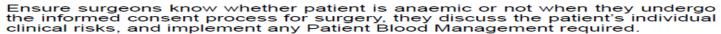
49%

Key Recommendations

Pre-operative anaemia management

Clinical Staff

Use whatever time is available before operation for anaemia investigation and treatment initiation (if appropriate), even when surgery is urgent



Ensure anaemia screening occurs as soon as possible after the decision to proceed (ideally same visit) to allow investigation and correction if appropriate.

Ensure blood results are reviewed in a timely fashion, and that patients with previously undetected and potentially serious anaemia are appropriately referred, including deferring non-urgent non-cancer surgery where appropriate.

Hospital Transfusion Committee/Hospital Transfusion Team
Ensure healthcare pathways are structured to enable anaemia screening
and investigation/ correction before surgery

Work with Commissioners to formalise integrated pathways and funding for the referral of patients found to be anaemic during surgical workup, if the nature of the anaemia suggests unexpected significant underlying disease.



Clinical Staff

Only prescribe a red cell transfusion in stable, asymptomatic, non-bleeding patients who have a pre-transfusion Hb of less than 70g/L, or less than 80g/L in those with cardiovascular disease.

In stable non-bleeding patients, recheck Hb after each transfused unit.

Record the reason for transfusion in the patient's case notes and record a justification for transfusion if the transfusion was prescribed for a patient with a Hb higher than the recommended thresholds.

Hospital Transfusion Committee/Hospital Transfusion Team For hospitals with access to electronic order comms systems, the team should work with the IT department to design a decision support system that supports best practice.

Ensure education programmes for clinical staff include randomised trial findings which compare the patient outcomes of different red cell transfusion strategies

Support transfusion laboratory staff to query requests that are outside recommended guidelines prior to issuing blood.

Patient Blood Management Measures

Clinical Staff

The theatre team, anaesthetists and surgeons should ensure that the PBM measures are implemented as appropriate.

Where available, peer data should be applied to compare individual surgical teams and encourage participation in PBM

Hospital Transfusion Committee/Hospital Transfusion Team Identify the need for intra-operative cell salvage and resource appropriately

Ensure local guidelines exist regarding the use of PBM measures

Ensure tranexamic acid use is the standard of care for surgical patients expected to have moderate or severe blood loss unless contraindicated.









Key Recommendations

Pre-operative anaemia management

Clinical Staff

Use whatever time is available before operation for anaemia investigation and treatment initiation (if appropriate), even when surgery is urgent



Ensure surgeons know whether patient is anaemic or not when they undergo the informed consent process for surgery, they discuss the patient's individual clinical risks, and implement any Patient Blood Management required.

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Transfusion Practice



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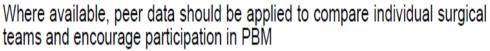
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