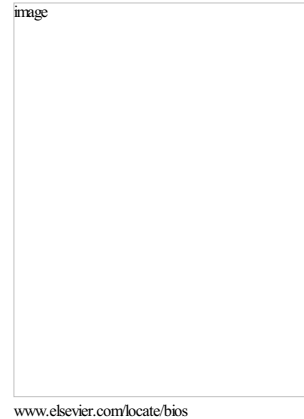


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# Blood Conservation: Pre-, Peri- & Post-Operative Blood Management Options

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## ABSTRACT

Perioperative blood loss during elective total joint arthroplasty (TJA) can be significant, traditionally resulting in high blood transfusion rates. However, due to the risks and costs of allogeneic blood transfusion, the focus in contemporary TJA has been on strategies to minimize perioperative blood loss. While a multimodal approach is paramount in elective TJA, three main factors have contributed dramatically to the reduced allogeneic blood transfusion rates: 1) preoperative assessment and treatment of anemia, 2) expanded use of antifibrinolytics, particularly tranexamic acid (TXA), and 3) a restrictive transfusion strategy postoperatively.

**Keywords:** Total Joint Arthroplasty (TJA); Total Hip Arthroplasty (THA); Total Knee Arthroplasty (TKA); Tranexamic Acid (TXA); Blood Conservation

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