Antifibrinolytic tranexamic acid (TXA) reduces postoperative blood loss after total knee arthroplasty (TKA).

The efficacy of intravenous vs topical administration of TXA was evaluated in... 640 TKA patients who were randomized into

640 TKA patients
who were randomized into

Intravenous group (n=320)

Topical group (n=320)

Blood loss

Blood transfusion rate

Rate of thrombotic events

<table>
<thead>
<tr>
<th>Blood loss</th>
<th>Blood transfusion rate</th>
<th>Rate of thrombotic events</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intravenous TXA</td>
<td>271 mL</td>
<td>Intravenous TXA</td>
</tr>
<tr>
<td>Topical TXA</td>
<td>324 mL</td>
<td>Topical TXA</td>
</tr>
</tbody>
</table>

Patients from both groups had...

Although the intravenous group showed less blood loss and lower transfusion rates than the topical group, these differences were small and may not be clinically important.

Low rates of blood transfusion were observed in both intravenous and topical TXA groups. However, given the low prevalence of thrombotic complications, the relative safety of one formulation over the other could not be established.