<table>
<thead>
<tr>
<th>Study†‡</th>
<th>Patient Group</th>
<th>Hemoglobin Trigger (No. of Patients)</th>
<th>Transfusion Rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carson et al.71 (1998)</td>
<td>Hip fractures with hemoglobin level of &lt;10 g/dL postop.</td>
<td>&lt;10 g/dL (42) &lt;8 g/dL or symptomatic (42)</td>
<td>97.6 45.2§</td>
</tr>
<tr>
<td>Carson et al.72 (2011)</td>
<td>Hip fractures with history of, or risk factors for, cardiovasc. disease</td>
<td>&lt;10 g/dL (1007) &lt;8 g/dL or symptomatic (1009)</td>
<td>96.3 40.9§</td>
</tr>
<tr>
<td>Foss et al.73 (2009)</td>
<td>Hip fractures</td>
<td>&lt;10 g/dL (60) &lt;8 g/dL (60)</td>
<td>74 37§</td>
</tr>
<tr>
<td>So-Osman et al.77 (2010)</td>
<td>Primary or revision THA or TKA</td>
<td>Standard protocol (304)**</td>
<td>NR NR</td>
</tr>
<tr>
<td>So-Osman et al.76 (2013)</td>
<td>Primary or revision THA or TKA</td>
<td>Most liberal (304) Most restrictive (299)††</td>
<td>39.1 26.4§</td>
</tr>
<tr>
<td>Naylor et al.75 (2010)</td>
<td>Primary THA</td>
<td>Standard (93) New (347)‡‡</td>
<td>41 18§</td>
</tr>
<tr>
<td>Grover et al.74 (2006)</td>
<td>Primary THA or THA without cardiovasc. disease</td>
<td>&lt;10 g/dL (109) &lt;8 g/dL (109)</td>
<td>43 34***</td>
</tr>
</tbody>
</table>

*Reproduced, with modification, from: Munoz M, Leal-Noval SR. Restrictive transfusion triggers in major orthopaedic surgery: effective and safe? Blood Transfus. 2013;11(2):169-171. Reproduced with permission. †TKA = total knee arthroplasty, THA = total hip arthroplasty, DVT = deep venous thrombosis, PE = pulmonary embolism, and NR = not reported. ‡All studies are Level I except Naylor et al.75, which is a Level II. §Significant difference. #Duration of stay for U.S. patients. **Inconsistent protocol at each study site; see reference for details of each protocol. ††This study reported only in-hospital mortality rates. †††This study is based on the 2010 data by the same group77. One of that earlier study’s flaws was that one hospital’s standard policy was more restrictive than the new policy. As a result, they reanalyzed their data after reclassifying that hospital’s standard policy as the more restrictive protocol and the new protocol as the liberal protocol. §§Hemoglobin level of <10 g/dL for high risk, ≤9 g/dL for symptomatic, and ≤7.5 g/dL for asymptomatic. ##Study described six-month mortality rates. ***No statistical comparison was done.

<table>
<thead>
<tr>
<th>Thirty-Day Mortality (%)</th>
<th>Cardiovascular Complications (%)</th>
<th>Mean Duration of Stay (days)</th>
<th>Infections (%)</th>
<th>DVTs or PEs (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liberal</td>
<td>Restrictive</td>
<td>Liberal</td>
<td>Restrictive</td>
<td>Liberal</td>
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<tr>
<td>2.4</td>
<td>2.4</td>
<td>2.4</td>
<td>2.4</td>
<td>6.4</td>
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<tr>
<td>5.2</td>
<td>4.3</td>
<td>13.9</td>
<td>14.8</td>
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<tr>
<td>0</td>
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<td>2</td>
<td>10§</td>
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<tr>
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<td>0.3††</td>
<td>7.6</td>
<td>11.4</td>
<td>10.2</td>
</tr>
<tr>
<td>1.00††</td>
<td>–</td>
<td>8.9</td>
<td>10.0</td>
<td>9.0</td>
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<tr>
<td>0</td>
<td>1#</td>
<td>4</td>
<td>4</td>
<td>6.4</td>
</tr>
<tr>
<td>0.9</td>
<td>0††</td>
<td>1.8</td>
<td>4.6***</td>
<td>7.5</td>
</tr>
</tbody>
</table>