

	PILLAR ONE	PILLAR TWO	PILLAR THREE
PREOPERATIVE	Optimise RBC Mass	Minimise Blood Loss	Manage Anaemia
INTRAOPERATIVE			
	<ul style="list-style-type: none"> <li>&gt; detect/treat anaemia &amp; iron deficiency</li> <li>&gt; treat underlying causes</li> <li>&gt; optimise haemoglobin</li> <li>&gt; cease medications</li> </ul>	<ul style="list-style-type: none"> <li>&gt; identify, manage &amp; treat bleeding/bleeding risk</li> <li>&gt; minimise phlebotomy</li> <li>&gt; plan/rehearse procedure</li> </ul>	<ul style="list-style-type: none"> <li>&gt; patient's bleeding history &amp; develop management plan</li> <li>&gt; estimate the patient's tolerance for blood loss</li> <li>&gt; optimise cardiopulmonary function</li> </ul>
POSTOPERATIVE	<ul style="list-style-type: none"> <li>&gt; time surgery with optimisation of erythropoiesis &amp; red blood cell mass</li> </ul>	<ul style="list-style-type: none"> <li>&gt; meticulous haemostasis/ surgical/anaesthetic techniques</li> <li>&gt; cell salvage techniques</li> <li>&gt; avoid coagulopathy</li> <li>&gt; patient positioning/warming</li> <li>&gt; pharmacological agents</li> </ul>	<ul style="list-style-type: none"> <li>&gt; optimise cardiopulmonary function</li> <li>&gt; optimise ventilation &amp; oxygenation</li> <li>&gt; restrictive transfusion strategies</li> </ul>
	<ul style="list-style-type: none"> <li>&gt; manage anaemia &amp; iron deficiency</li> <li>&gt; manage medications &amp; potential interactions</li> </ul>	<ul style="list-style-type: none"> <li>&gt; monitor &amp; manage post op bleeding</li> <li>&gt; keep patient warm</li> <li>&gt; minimise phlebotomy</li> <li>&gt; awareness of drug interactions &amp; adverse events</li> <li>&gt; treat infections promptly</li> </ul>	<ul style="list-style-type: none"> <li>&gt; maximise oxygen delivery</li> <li>&gt; minimise oxygen use</li> <li>&gt; treat infections promptly</li> <li>&gt; tolerance of anaemia</li> <li>&gt; restrictive transfusion strategies</li> </ul>

Adapted from Spahn DR, Goodnough LT. *Alternatives to Blood Transfusion*. Lancet 2013; 381:1855-65; Hofman A, Farmer S, Towler SC. *Strategies to preempt and reduce the use of blood products: an Australian perspective*. Curr Opin Anaesthesiol. 2012; 25:66-73; Isbister JP. *The three-pillar matrix of patient blood management – an overview*. Best Pract Res Clin Anaesthesiol. 2013; 27:69-84.