

Syllabus	VS_IK_12, MT_IS_04, OR_IK-04
Topic	Cell salvage

**a)**

List 9 key stages and / or components of cell salvage (9 marks)

1. ....
2. ....
3. ....
4. ....
5. ....
6. ....
7. ....
8. ....
9. ....

**b)**

List 5 indications for considering cell salvage (5 marks)

1. ....
2. ....
3. ....
4. ....
5. ....

**c)**

List 4 contraindications to using cell salvaged blood (4 marks)

1. ....
2. ....
3. ....
4. ....

**d)**

When should leucodepletion filters be considered for reinfusion of salvaged blood? (2 marks)

1. ....
2. ....

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Q	Answer	Mark	Guidance
a)	<ul style="list-style-type: none"> <li>• Low pressure suction for blood aspiration</li> <li>• Mixed with anticoagulant (usually heparinised saline)</li> <li>• Collected in a reservoir</li> <li>• Passed through a filter</li> <li>• Centrifugation separates red cells from anticoagulated blood</li> <li>• Cells washed with 0.9% saline</li> <li>• Blood pumped into reinfusion bag</li> <li>• Blood administered to patient within 4 hours</li> <li>• Blood administered via appropriate filter</li> </ul>	9	
b)	<ul style="list-style-type: none"> <li>• &gt;500ml blood loss in adults undergoing surgery</li> <li>• 10% of calculated blood volume in children &gt;10kg</li> <li>• If patient is at increased risk of bleeding e.g. due to coagulopathy</li> <li>• If the patient is anaemic and there is insufficient time to optimise this</li> <li>• Patient refusing allogenic blood products</li> </ul>	5	
c)	<ul style="list-style-type: none"> <li>• Patient Refusal</li> <li>• Contamination of blood with bowel or infection or tumour cells</li> <li>• Patient history of HIT</li> <li>• Blood not reinfused within 4 hours</li> </ul>	4	
d)	<ul style="list-style-type: none"> <li>• Cancer surgery</li> <li>• Possible infection in the surgical field</li> </ul>	2	

References:

1) Association of anaesthetists. Cell salvage for peri-operative blood conservation 2018.  
<https://anaesthetists.org/Home/Resources-publications/Guidelines/Cell-salvage-for-peri-operative-blood-conservation-2018>