REMO WELL

THE FIRST OXYGENATOR WITH INTEGRATED LIPIDS & LEUKOCYTES REDUCER

CARDIOPULMONARY
Despite improvements in cardiopulmonary bypass (CPB) brain injury remains a significant sequela of cardiac surgery.*

Cardiopulmonary bypass is associated with an inflammatory reaction that involves activation of plasma proteins and cells.

Activation of leukocytes, in particular neutrophils, directly contributing to issue and organ injury.*

INNOVATIVE CARDIOTOMY CHARACTERISTICS

Two steps lipid-leukocytes depletion:
• multilayer cascade filtration (for lipids and leukocytes)
• supernatant separator (lipids only)

Cardiotomy ready for vacuum (equipped with over-under safety valve)
Connectors: 2 x 1/4”
1 x 3/8”
2 x Luer Lock
1 x POS Lock - Luer Lock
1 x 1/4” Cell Saver outlet Line
Phosphorylcoline or PC is the predominant lipid headgroup found in the outer layer of cell membranes. PC has a natural affinity for water and binds water tightly around itself. As a result, the outer layer of the cell membrane does not promote clots formation (thrombosis).

- low thrombogenic
- low inflammatory
- stable
- resistant to
  - bacterial adhesion
  - resistant to
  - protein deposition
<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>N°/PACK</th>
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<tbody>
<tr>
<td>EU5015</td>
<td>REMOWELL Oxygenator (Oxy PC Coated only)</td>
<td>01</td>
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<tr>
<td>AG5015</td>
<td>REMOWELL Oxygenator PC Fully Coated</td>
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<tr>
<td>EU2331</td>
<td>Holder for REMOWELL</td>
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<tr>
<td>EU5016</td>
<td>Admicard 1800ml REMOWELL</td>
<td>03</td>
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<tr>
<td>EU2080</td>
<td>Holder for Admicard 1800ml REMOWELL</td>
<td>01</td>
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<tr>
<td>EU5000</td>
<td>Oxy Module 1,35m² (PC Coated)</td>
<td>03</td>
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</tbody>
</table>

**REFERENCES**

The diffuse brain damage (DBD) after cardiac operation is reported as a frequency within a range of between 20% and 80%. Karl Gunnar Engstrom. The embolic potential of liquid fat in pericardial suction blood, and its elimination.  Perfusion 2003; 18:69-74

Current estimates indicate that > 50% of patients who undergo CPB have neurological or neuropsychological deficits during the first week after surgery, 10% to 30% have long-term or permanent deficits, and 1% to 5% experience severe disability or die. William R. Brown et al. Longer duration of cardiopulmonary bypass is associated with greater numbers of cerebral microemboli. Stroke 2000; 31:707-713


Lipid particles in the side range of 10 μm to were characterized in shed mediastinal blood, until 300,000 particles per milliliter of blood were found. Atli Eyjolfsson, Henrik Jonsson et al. Characterization of Lipid Particles in Shed Mediastinal Blood. Ann Thorac Surg 2008; 85: 978-81

Embolization of lipids is not a phenomenon restricted to the brain, but affected other organs which kidneys1, spleen1 and lung2.

2 AI de Vries et al. The rationale for fat filtration during cardiac surgery. Perfusion 2002; 17: 29-33

Activation of the systemic inflammatory response during CPB has been a major problem for clinicians because of the potential deleterious effect on organs such as the heart, brain, lungs, kidneys. one strategy may be the use of leukocyte-depleting filters. Oliver Warren et al. The effect of various leukocyte filtration strategies in cardiac surgery. Eur J Cardiothorac Surg 2007; 31: 665-676 Shalini Boodram et al. Use of Leukocyte-depleting Filters During Cardiac Surgery with Cardiopulmonary bypass: A Review. JECT 2008; 40: 27-42

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