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- 3750 - 3500 - 3250 - 3000 - 2750 - 2500 - 2250 - 2000 - 1750

- 1500 - 1250 - 1000 - 900 - 900 - 850 - 750



REM2WELL

DESIGNED TO REDUCE THE INTENSITY AND DURATION OF POST-OPERATIVE SEVERE DELIRIUM IN PATIENTS UNDERGOING CARDIAC SURGERY.

In elderly patients undergoing cardiac surgery, extracorporeal circulation affects the incidence of post-operative delirium and cognitive impairment with an impact on quality of life and mortality. Despite improvements in the biocompatibility of CPB circuits, the activation of inflammatory systemic response may result in clinically relevant organ dysfunction. Concerning brain, prolonged hypoperfusion and microembolization during conventional CPB have been related to postoperative neurologic impairment with an incidence varying from 30% to 60%.¹

REMOWELL2 is designed to reduce the intensity and duration of post-operative severe delirium in patients undergoing cardiac surgery, thanks to its unique and patented cardiotomy features that can reduce lipids and leukocytes coming from pericardial suction blood.

Evidence in the literature² shows that the REMOWELL technology offers efficient LME filtration (Lipid Micro Emboli) in the clinical setting and the subsequent attenuation of NSE release, a known marker of neurological injury. In addition, significantly lower concentration of cystatin C, a known biomarker of kidney function, was found in the postoperative period, suggesting a renoprotective role for LME filtration.

The Remowell filtration technology effectively contributes to reduce the intensity and duration of post-operative delirium with a reduced need for active involvement of intensive care personnel with the patient.³

DEVICE PERFORMANCE



DEVICE CLINICAL PERFORMANCE



2500 2000 1500 PRE SURGERY 24H 72H

DEVICE CLINICAL BENEFIT³

SEVERE DELIRIUM*



*Severe delirium:

- \geq 4 positive CAM (> 24h)
- Delirium therapy in hospital
- Delirium therapy at discharge

Control



A.L.ONE AF PLUS

OPTIMIZED PRESSURE RESISTANCE OXYGENATOR MODULE WITH INTEGRATED CASCADE ARTERIAL FILTER

TECHNICAL CHARACTERISTICS

Priming volume: Contact surface area: Max. blood flow rate: Cascade Arterial Filter pore size: Heat Exchanger surface area: H.E. Performance Factor: Material: **Coating:**

CARDIOPLEGIA ADAPTER

Poslock - 1/4" M (1 pc)

ISO 7199 conditions

ISO 7199 conditions

7

7

5 6

4 5 6

225 ml 1.65 m² 7.0 l/min 80 µm + 38 µm 0.08 m² $\eta = 0.64$ (at 4 l/min) stainless steel **Phosphorylcholine (PC)**





AMG OXYGENATOR MODULE

220 ml

1.81 m²

8.0 l/min

0.08 m²

n = 0.64 (at 4 l/min)

Phosphorylcholine (PC)

Stainless Steel

TECHNICAL CHARACTERISTICS

Priming volume: Contact surface area: Max. blood flow rate: Heat Exchanger surface area: H.E. Performance Factor: Material: **Coating:**

CARDIOPLEGIA ADAPTER

Poslock - 1/4" M (1 pc)









PHOSPHORYLCHOLINE COATING

Phosphorylcoline or PC is the predominant lipid headgroup found within 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 clot formation (thrombosis).



ORDERING GUIDE BESEDVOIR	A.L.ONE AF Plus (1.65 m²) code AG5204 (4 pcs/pack)	AMG (1.81 m ²) code AG5012 (4 pcs/pack)
	REMOWELL2 AF Plus (1.65 m ²) code AG5301 (1 pc/pack) INTEGRATED	REMOWELL2 AMG (1.81 m²) code AG5103 (1 pc/pack)
REMOWELL2 CVR code AG5074 (1 pc/pack)	A.L.ONE AF Plus MODULE and REMOWELL2 CVR	INTEGRATED AMG MODULE and REMOWELL2 CVR

CODE	DESCRIPTION	NO./PACK
EU2331	Adult/paediatric Oxygenator Holder	1
EU2489	Holder for Oxygenator adult light	1
EU2490	Adjustable holder for adult Oxygenator	1
EU2147/P	REMOWELL2 CVR holder	1
EU2257	Holder for A.L.ONE Oxygenator	1

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2. R. Issitt et al. Quantification of lipid filtration and the effect on cerebral injury during CPB. Ann Thorac Surgeons 2017;104:884-90

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