PEDIATRIC OXYGENATOR
WITH INTEGRATED ARTERIAL FILTER
PHOSPHORYLCHOLINE COATING

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 response
- stable
- resistant to bacterial adhesion
- resistant to protein deposition

alkaline chains spread across the surface yielding a stable coating through hydrophobic interactions

layer of hydration around pc - with a coated substrate the blood therefore "sees" a layer of water

zwitterionic pc groups expressed outwards from the surface

PHOSPHORYLCHOLINE COATING

FOREIGN SURFACE

PHOSPHORYLCHOLINE COATING

low /f_low
intracavitary/extracavitary suckers
over/under safety valve

FOREIGN SURFACE

PHOSPHORYLCHOLINE COATING

intracavitary/extracavitary suckers

FOREIGN SURFACE

PHOSPHORYLCHOLINE COATING

intracavitary/extracavitary suckers

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FOREIGN SURFACE

PHOSPHORYLCHOLINE COATING
**TRILLY PEDIATRIC AF**

**PEDIATRIC OXYGENATOR MODULE WITH INTEGRATED CASCADE ARTERIAL FILTER**

**TECHNICAL CHARACTERISTICS**

- **Priming volume:** 130 ml
- **Contact surface area:** 1.10 m²
- **Blood flow rate:** 0.5 - 3.5 l/min
- **Reference blood flow (AAMI Standard):** 4 l/min
- **Cascade Arterial Filter pore size:** 80 μm + 38 μm

- **Heat Exchanger surface area:** 0.04 m²
- **H.E. Performance Factor:** \( \eta = 0.60 \) (@ 3.5 l/min)
- **Material:** stainless steel
- **Coating:** PC phosphorylcholine

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**Bovine blood**

- \( Hb = 12 \pm 1 g/dL \)
- \( SVO2 = 65 \pm 5\% \)
- \( PVCO2 = 45 \pm 5 \text{ mmHg} \)
- \( B.E. = 0 \pm 5 \text{ mEq/L} \)
- \( \text{Temp} = 37 \pm 1 \text{ }^\circ\text{C} \)
- \( \text{FiO2} = 100\% \)

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*ISO 7199 condition*

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**Blood Flow (l/min)**

- O\(_2\) T (ml/min)
- CO\(_2\) T (ml/min)
- dP\(_B\) (mmHg)

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*Water Flow 10 l/min*

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*ISO 7199 condition*
<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>N°/PACK</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG5232</td>
<td>TRILLY PEDIATRIC AF (Cardiotomy reservoir pre-connected with oxygenator module, PC coated)</td>
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<tr>
<td>EU2331</td>
<td>Holder for TRILLY PEDIATRIC AF</td>
<td>1</td>
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