Ideal combinations for chronic HD treatment of low body weight patients

Gambro disposable range for low body weight patients
Big efforts for small patients yield great rewards

The primary concern with expanding a disposable range to small, low weight patients is to facilitate a comprehensive renal therapy platform to meet the needs of every single patient regardless of physical dimensions.

Low weight patients require delicate and gentle renal care. By developing products and supplies for renal therapy aimed at patients with low body weight, we give the smallest patients access to the same high quality hemodialysis as everybody else.
**Polyflux 2H and Polyflux 6H dialyzers**

Designed to provide the best treatment tolerance and optimal efficiency, Polyflux 2H and Polyflux 6H dialyzers feature the latest Polyflux H innovative developments.

**A gentle treatment for low body weight patients**

The low blood priming volumes of Polyflux 2H (17 ml) and Polyflux 6H (52 ml) dialyzers permit adjustment of the extra-corporeal volume to individual needs in low body weight patients and may help reduce the need for repeated blood transfusions.

A unique membrane offering the best hemocompatibility due to:

- the fibers microdomain structure of the inner surface preventing interaction with blood proteins and cells.
- the property of endotoxin rejection, avoiding the risks associated with backfiltration.
- steam sterilization.

**The best performance**

- High-flux dialysis providing enhanced clinical benefits to low body weight patients through consistent removal of a wide range of uremic toxins and selectivity (no albumin loss) with the Polyamix 3-layer structure membrane.
- A state-of-the-art fiber bundle and housing design further improving treatment efficiency.

**Operational efficiency**

- Convenient deaeration and rinse-back enhance treatment performance and give staff more time to care for patients rather than having to focus on the treatment delivery.

<table>
<thead>
<tr>
<th>Specifications*</th>
<th>Polyflux 2H</th>
<th>Polyflux 6H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood compartment volume</td>
<td>17 ml</td>
<td>52 ml</td>
</tr>
<tr>
<td>Surface</td>
<td>0.2 m²</td>
<td>0.6 m²</td>
</tr>
<tr>
<td>Application</td>
<td>HD, HDF, HF</td>
<td>HD, HDF, HF</td>
</tr>
<tr>
<td>Blood flow rates</td>
<td>20–100 ml/min</td>
<td>50-300 ml/min in HD, HDF 100–200 in HF</td>
</tr>
<tr>
<td>Membrane</td>
<td>Polyamix (PA/PAES/PVP)</td>
<td>Polyamix (PA/PAES/PVP)</td>
</tr>
<tr>
<td>Sterilization mode</td>
<td>Steam</td>
<td>Steam</td>
</tr>
</tbody>
</table>

* For more detailed product information, please refer to individual technical data sheets.
Pediatric bloodlines

Gambro provides advanced blood transportation systems designed to meet the unique requirements of delicate treatments of low weight patients. With the low priming volumes ranging from 33 ml to 131 ml, Gambro bloodlines create a blood-flow environment representing the closest possible match to the vascular system of any low weight patient.

**Biocompatibility**

Gambro pediatric bloodlines are made using patented formulas specifically developed for radiation sterilization (minimizing the effect of materials turning yellowish). Not included is DEHP, a plasticizer notorious for its migration ability and added as a category 2 reproductive toxin to the list of the carcinogenic, mutagenic or reprotoxic substances (CMR). All are latex-free to prevent sensitive patients from being exposed to adverse sensitizing reactions.

**Environment-friendly**

Gambro bloodlines are sterilized by Electron-beam radiation using chemical-free technique for which no toxic gas is necessary.

**Easier handling**

Gambro bloodlines successfully combine excellent flow dynamics, improved reliability and efficiency with ergonomic and user-friendly components.

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### Injection port
Latex-free

### Dialyzer connectors
A clear lining in the color-coded connectors of the dialyzers ensures that a patient’s blood never comes in contact with chemical dyes or colorants.

### Pinch clamps
Easy to handle

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<table>
<thead>
<tr>
<th>Model</th>
<th>A5.129-B4 / V5.129-X</th>
<th>BL223 PB</th>
<th>BL121P</th>
<th>BL130 PSN</th>
<th>BIO-A76/V76</th>
<th>Cartridge set, pediatric</th>
<th>Cartridge ped low vol</th>
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<tbody>
<tr>
<td>Machine type</td>
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<td>AK 200, AK 200 ULTRA</td>
<td>AK 95, AK 96, AK 200, AK 200 ULTRA</td>
<td>AK 200, AK 200 ULTRA</td>
<td>Integra (ALPHA)</td>
<td>Cobe CS 3 / INNOVA</td>
<td>Cobe CS 3 / INNOVA</td>
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<tr>
<td>Treatment</td>
<td>HD - DN</td>
<td>DN / HDF Pre-Post</td>
<td>HD - DN</td>
<td>HD - SN</td>
<td>HD - DN</td>
<td>HD - DN</td>
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<tr>
<td>Total filling volume (ml)</td>
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<td>85</td>
<td>99</td>
<td>131</td>
<td>110</td>
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<tr>
<td>Filling volume (ml) of arterial line</td>
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<td>33</td>
<td>47</td>
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<td>Filling volume (ml) of venous line</td>
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<td>Beta</td>
<td>Beta</td>
<td>Beta</td>
<td>Beta</td>
</tr>
</tbody>
</table>
References


Bunchman, T. E., Chronic dialysis in the infant less than 1 year of age, Pediatric Nephrology, 1995; 9:518-522
Because every patient is different …

We’ve developed Individualized Quality-assured Dialysis (IQD) tools to help you deliver the best care to every single patient, in every single session.

IQD tools let you choose the right therapy and adapt it to an individual patient’s needs. They give you confidence that the session is easily and effectively delivered and the target dose is consistently reached. They also help you keep staff happy and make the best use of the clinic’s resources.

IQD tools are all about making a difference in the daily lives of you and your patients.

Because every session is different …