INNOVATIVE CARE FOR EVERY DIALYSIS PATIENT
ADVANCED MEMBRANE DESIGNS SUPPORTING ALL HEMODIALYSIS THERAPY OPTIONS
HELPING SAVE AND SUSTAIN LIVES
At Baxter, our mission is to save and sustain lives. We believe we can achieve this by providing healthcare professionals with an innovative portfolio of dialyzers that empowers them to deliver the right therapy, for the right patient.

As the pioneering innovator in dialyzer technology, we have developed a unique expertise in membrane design in relation to toxin removal by dialysis. Each of our dialyzers has a unique membrane that has been designed for the needs of a specific therapy and patient population while delivering safe and effective removal of a wide range of uremic solutes.

PIONEERS & INNOVATORS
IN RENAL CARE

Dialysis therapies have progressed through time, primarily along dialyzer membrane innovations and advancements.

Dialyzer membrane design is defined by both its physical and chemical structure. A dialyzer membrane’s capability to remove molecules depends on these structures and the therapy, or form of fluid transport mechanism, being performed.

However, for both diffusive and convective therapies, the membrane’s effective pore size distribution determines the molecular weight of the uremic toxins that can be removed safely and efficiently.

Today, a range of therapies and specific dialyzers are available to address dialysis patients’ personal needs for safe and effective uremic toxin removal.

Our Dialyzer Design Principles
We believe there needs to be a balance across three elements in all therapeutic and dialysis innovations.

QUALITY
Measuring and substantiating quality is an important factor for dialysis. The element of quality is defined by:
• Biocompatibility
• Engineering and manufacturing attributes
• Treatment consistency
• Sustainability

SIMPLICITY
Simplicity and clinical integration of therapeutic solutions is an important parameter and is defined by a dialyzer’s ability in regards to:
• Usability
• Compatibility
• Operational efficiency

PERFORMANCE
Performance is defined by how well a particular therapy solution can accomplish the necessary treatment requirements for patients. In dialysis, this is defined by the following main parameters:
• Clearance
• Selectivity
• Adsorption
• Dialysis dose

Classification of uremic solutes by molecular weight (Daltons)

<table>
<thead>
<tr>
<th>Molecular Weight</th>
<th>Uremic Solutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 500 Da</td>
<td>Urea</td>
</tr>
<tr>
<td>500 - 15,000 Da</td>
<td>Conventional middle molecules</td>
</tr>
<tr>
<td>15,000 - 60,000 Da</td>
<td>Large middle molecules</td>
</tr>
<tr>
<td>&gt; 60,000 Da</td>
<td>Essential proteins</td>
</tr>
</tbody>
</table>

Classification of uremic solutes by membrane permeability

<table>
<thead>
<tr>
<th>Membrane Permeability</th>
<th>Uremic Solutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diffusive</td>
<td>Urea</td>
</tr>
<tr>
<td>Convective</td>
<td>Other solutes</td>
</tr>
<tr>
<td>High Flux</td>
<td>Large molecules</td>
</tr>
<tr>
<td>Low Flux</td>
<td>Essential proteins</td>
</tr>
</tbody>
</table>

THERAPY INNOVATIONS
DRIVEN BY MEMBRANE DESIGN
Our technological advances in membrane design and our deep understanding of each renal therapy has allowed us to create a portfolio of advanced dialyzers. Each dialyzer brand is unique in the way it meets the requirements of renal therapies performance, but it benefits from Baxter’s tradition and expertise in performance, quality and simplicity.

**A PORTFOLIO OF DIALYZERS TO MEET INDIVIDUAL NEEDS**

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**LFHD**

**LOW FLUX HD**

**THE PROVEN BALANCE OF QUALITY AND PERFORMANCE IN LOW-FLUX**

**Polyflux L**

The Polyflux L dialyzer series is specialized for low-flux hemodialysis treatments, featuring a distinctive membrane acting as an effective barrier to potential fluid contaminants, while still delivering high performance. Polyflux L dialyzers are a good choice for proven biocompatible yet effective low-flux therapies, designed with safety in mind.

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**HFHD**

**HIGH FLUX HD**

**OPTIMIZING HIGH FLUX PERFORMANCE**

**Revaclear**

The Revaclear dialyzer series is a range of high efficiency high-flux dialyzers designed to enhance safety and biocompatibility for your patients, while optimizing clearance with a smaller surface area.

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**HDF-HF**

**CONVETIVE THERAPIES**

**FOR EFFECTIVE CONVETIVE THERAPIES**

**Polyflux H**

The Polyflux H dialyzer series deliver proven biocompatibility and endotoxin retention with consistent performance. The Polyflux H dialyzers effectively support the delivery of high-volume convective therapies, while helping control the loss of essential proteins such as albumin, particularly challenging at high flows and TMPs.

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**HDx**

**EXPANDED HEMODIALYSIS**

**HDF PERFORMANCE AND BEYOND, AS SIMPLE AS HD***

**Theranova***

The HDx therapy is enabled by the Theranova* dialyzer series, featuring an innovative membrane design that combines a higher permeability than regular high-flux dialyzers with effective selectivity for large proteins.

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**SPECIAL**

**THERAPEUTIC APPLICATIONS**

**Polyflux 2H/6H**

SPECIALIZED FOR LOW BODY WEIGHT PATIENTS

The Polyflux 2H/6H dialyzer series enables high dialysis compatibility and performance to low body weight patients, typically children.

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**Nephral ST**

SPECIALIZED FOR HIGH BLOOD-COMPATIBILITY AND ADSORPTION

The Nephral ST dialyzer series features a heparin adsorptive hydrogel membrane, for a reduced use of systemic heparin during dialysis. The membrane is designed to provide effective removal of uremic toxins and inflammatory mediators by adsorption.

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**Evodial**

SPECIALIZED FOR HIGH BLEEDING RISK PATIENTS

The Evodial** dialyzer series is specialized for patients with a high risk of bleeding. It has been designed with the HeparAN heparin-grafted membrane and provides a convenient solution for patients requiring reduced or even heparin-free dialysis.

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**Theralite**

SPECIALIZED FOR MULTIPLE MYELOMA PATIENTS

The Theralite*** dialyzer, featuring the proprietary High Cut-Off (HCO) membrane, targets the removal of free light chain (FLC) proteins when needed in patients with multiple myeloma cast nephropathy experiencing renal failure.

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**SPECIALIZED FOR LOW BODY WEIGHT PATIENTS**

*Do not use Theranova dialyzers in HDF or HF mode

**Do not use Evodial in patients with a known allergy to heparin or type II thrombocytopenia caused by heparin (hit syndrome type II)

*** Do not use Theralive dialyzers in HDF or HF mode

** Theralive dialyzers must not be used for pediatric dialysis and for regular treatment of chronic renal failure

** CAUTION! Theralive dialyzers must only be used on the direction of a physician who has evaluated all the pertinent features of this device in relation to the individual patient
ENSURING YOU HAVE THE TOOLS, TRAINING AND SUPPORT YOU NEED

Baxter has been a full-service provider for more than 60 years and we remain committed to helping you achieve the best outcomes possible for both home and in-center dialysis.

**TRAINING:**
To help ensure that everyone in your clinic understands their preferred dialyzer and the benefits it delivers, we provide you with*

- Technical and product training
- Therapy training
- Scientific and research partnership
- Tailored in-service planning

**SUPPORT:**
In addition to our local and expert sales and clinical teams, Baxter offers direct support at all times:

- Technical support (call-in)
- Renal Clinical Helpline — offering real-time support during business hours
- On-site technical/repair services*

**DELIVERY:**
We have the capabilities of supporting your dialysis unit through our strong global supply chain, local distributors and delivery network*:

- Customer service (order support)
- Direct deliveries

* Contact your local Baxter representative for regional availability
REFERENCES


For safe and proper use of the device, please refer to the Instructions for Use

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