

# ONE EFFORTLESS DIALYZER SWITCH

## CAN MAKE A WORLD OF DIFFERENCE

LOT

3 mB

NOV

HDF Henodafitration

BAXTER KIDNEY CARE PD | HD | HDx | EDUCATION | SUPPORT

> HDx THERAPY ENABLED BY THERANOVA DIALYZERS MAY LEAD TO: LESS HOSPITALIZATIONS<sup>1,2</sup>

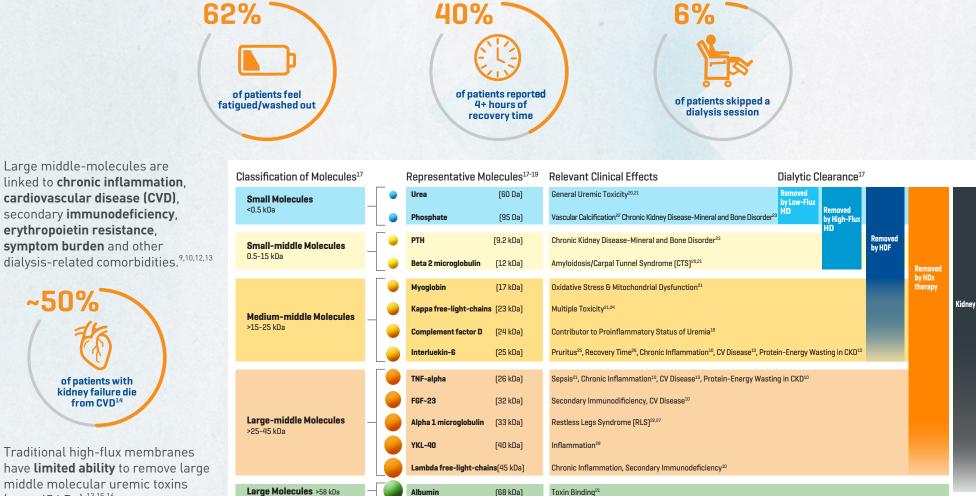
LESS MEDICATION USAGE<sup>3-6</sup>

LESS PATIENT-REPORTED RECOVERY TIME<sup>7</sup>

LESS PATIENT-REPORTED SYMPTOM BURDEN<sup>8,9</sup>

# ACCUMULATION OF LARGE MIDDLE MOLECULAR UREMIC TOXINS CONTRIBUTES TO DISEASE BURDEN IN KIDNEY FAILURE PATIENTS<sup>9,10</sup>

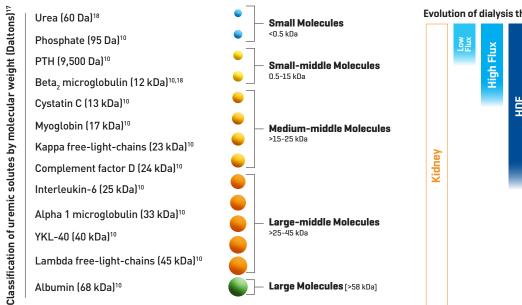
In a National Kidney Foundation (NKF) online survey, **87% of patients** (n=359) receiving in-center hemodialysis reported experiencing **interdialytic symptoms**:<sup>11</sup>



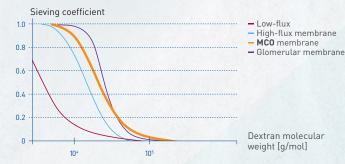
(up to 45 kDa).<sup>13,15,16</sup>

## **HDx** THERAPY ENABLED BY THERANOVA DIALYZERS: ONE STEP CLOSER TO THE NATURAL KIDNEY

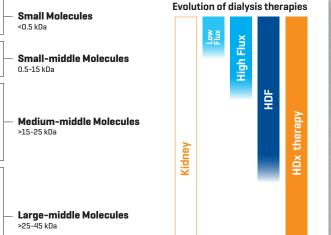
With HDx therapy, diffusion and convection are conveniently combined along a hollow fiber Theranova dialyzer equipped with MCO membrane.<sup>13,29</sup> The patented MCO membrane's molecular weight retention onset (MWRO) and molecular weight cut-off (MWCO) range delivers superior removal of large-middle molecules (up to 45 kDa)<sup>12,15-17,34</sup>, while selectively retaining endotoxins<sup>43</sup> and essential proteins and maintaining stable serum albumin levels<sup>30,31</sup>, resulting in a sieving curve closer to that of the natural kidney.<sup>13,16</sup>



Adapted after Rosner M, et al. Classification of Uremic Toxins and Their Role in Kidney Failure. Clin J Am Soc Nephrol. 2021;16(12):1918-1928<sup>17</sup> and EUTOX Uremic Solutes Database. June 2022. Uremic-toxins.org.<sup>19</sup>



Adapted after Boschetti-de-Fierro: MCO Membranes: Enhanced Selectivity in High-Flux Class.1

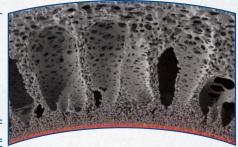


#### THIS EXPANDED CLEARANCE PROFILE IS MADE POSSIBLE BY FOUR PRINCIPLES OF THE THERANOVA DIALYZER:

- High permeability to large-middle molecules<sup>13,16,19</sup>
- Effective selectivity by size exclusion<sup>16</sup>
- Enhanced internal filtration<sup>13,16,19</sup>
- Retention of endotoxins<sup>16,19</sup>

The membrane structure is asymmetric and can be seen in cross section as three distinct layers.44

A finger-like macroporous outer layer A sponge-like intermediate layer A very thin inner layer (skin)



Adapted from Ronco and Clark, et al.44

The **Theranova** dialyzer is the only device falling in the classification of hemodialyzers with an expanded solute removal profile, as approved by the US FDA through De Novo pathway, enabling HDx therapy - the next evolution in dialysis.

HDx therapy is an effective alternative and has increased clearance of large-middle molecules compared to online HDF<sup>6</sup> with no special requirement of particular hardware, preparation of replacement fluid, or additional nursing skill compared to that required for conventional HD.<sup>29</sup> This is important where online HDF is not available.

## ONE **EFFORTLESS** DIALYZER SWITCH CAN MAKE A WORLD OF DIFFERENCE

### FOR YOUR FACILITY



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### **LESS HOSPITALIZATIONS**

Up to 45% reduction in all-cause hospitalizations.<sup>1</sup> Randomized controlled trial of US hemodialysis patients

#### LESS MEDICATION USAGE

Decreased Erythropoietin Resistance Index (ERI), lower ESA dose over time (without a concomitant reduction in hemoglobin level), and decreased use of supportive medications such as iron, insulin and antihypertensive medications.<sup>3-6</sup>

Multicenter, observational study; retrospective analysis; and prospective, randomized, controlled, open-label studies

#### **LESS COST OF CARE**

Up to \$4,772 lower cost per-patient, with savings demonstrated in 96% of the 10,000 simulations.<sup>1</sup>

Randomized controlled trial of US hemodialysis patients

Lower cost of care with use of the **Theranova** dialyzer was driven by potential reduction of cardiovascular events<sup>19</sup>, infections<sup>24</sup>, medication usage<sup>4,5</sup>, and all-cause hospitalizations.<sup>1</sup>

## AND FOR YOUR PATIENTS



Prospective cohort study (n=6,040)



Dialysis Outcomes and Practice Patterns Study (n=18,801)



Single center, observational study (n=137); Observational, cross-sectional study (n=326)

### LESS PATIENT-REPORTED RECOVERY TIME

Up to 2.5 hours reduction in patient-reported recovery time.<sup>6</sup>

Single center, retrospective analysis

### LESS PATIENT-REPORTED PRURITIS

Reduction in patient-reported pruritis.<sup>9</sup> Randomized, prospective, controlled, open-label study

### LESS PATIENT-REPORTED RESTLESS LEG SYNDROME

Up to 55% reduction in patients meeting diagnostic criteria for RLS.  $^{\rm 8}$ 

Prospective, multicenter, observational study

### **GO BEYOND UREA**

### TRY HDx THERAPY ENABLED BY THERANOVA DIALYZERS TODAY

#### Contact your local **Baxter sales representative** at 1-888-736-2543 and visit **renalcareus.baxter.com/hdx** for more information.

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Indications: The Theranova Dialyzer is indicated for patients with chronic kidney failure who are prescribed intermittent hemodialysis. It provides an expanded solute removal profile with increased removal of various middle and large molecules (up to 45 kDa) that may play a pathologic role in the uremic clinical syndrome. The **Theranova** Dialyzer is not intended for hemofiltration or hemodiafiltration therapy. The total extracorporeal blood volume for the **Theranova** Dialyzer and the set should represent less than 10% of the patient's blood volume. For single use only.

**Rx only.** For safe and proper use of this device refer to the Instructions for Use.

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