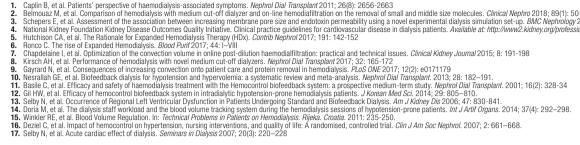
We believe every person suffering from kidney disease deserves the right therapy, at the right time, in the right clinical environment.

What's more, as a global provider, we understand that every patient. and clinic, is different and has different needs.

One of the main challenges healthcare professionals face is achieving balance between clinical targets and operational requirements. Attaining these two objectives can be challenging.

It is for this reason that we have designed **a wide range of treatment** options, that help enable healthcare professionals overcome their challenges, their way.



For further information visit hdxtheranova.com:



Do not use THERANOVA dialyzers in HDF or HF For safe and proper use of the device, please refer to the Instructions for Use



OPERATIONAL EFFICIENCY

Controlling and minimizing operational costs



HDx-HC is the integration of expanded hemodialysis (HDx) targeting removal of large middle molecules, and the HEMOCONTROL modality (HC) aiming at reducing the occurrence of intradialytic hypotension.

> Baxter Healthcare Corporation One Baxter Parkway Deerfield, IL 60015 USA

Caplin B, et al. Patients' perspective of haemodialysis-associated symptoms. Nephrol Dial Transplant 2011; 26(8): 2656-2663 Selmouaz M, et al. Comparison of hemodialysis with medium cut-off dialyzer and on-line hemodialitration on the removal of small and middle size molecules. Clinical Nephro 2018; 89(1): 50-56 Schepres E, et al. Assessment of the association between increasing membrane pore size and endotoxin permeability using a novel experimental dialysis simulation set-up. BMC Nephrology 2018; 19:1 National Kidney Foundation Kidney Disease Outcomes Quality Initiative. Clinical practice guidelines for cardiovascular disease in dialysis patients. Available at. http://www2.kidney.org/professionals/KD00l/guidelines_cvd/intradialytic.htm. Accessed: April 207

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An integrated approach to renal care



Baxter

BAXTER IN-CENTER TREATMENT OPTIONS **CARE FOR YOUR PATIENTS, YOUR WAY.**

Our integrated treatment options have been created to reach two objectives:



PATIENT **OUTCOMES**

Improving the quality of treatment for the patients

THE TREATMENT OPTION INTEGRATING **EXPANDED HEMODIALYSIS (HDx) AND** THE HEMOCONTROL (HC) MODALITY

By combining monitors and features, consumables, systems and services into one integrated treatment option, we aim to help healthcare professionals with improving outcomes for their patients, all while controlling their operational efficiency.

The HDx-HC treatment option considers everything from patient's clinical needs to the governmental and economic factors at work in a particular environment.

This is how we are Making Possible Personal.

GROWING CONCERNS FOR HD PATIENTS CARDIOVASCULAR STRESS AND ACCUMULATION OF LARGE MIDDLE MOLECULES

Intradialytic hypotension is the second most common patient-reported symptom during HD¹

Too fast or excessive fluid removal by HD can induce myocardial ischemia, a risk factor for cardio-vascular events.¹⁷

Many large middle molecules are not cleared effectively using current HD technologies⁶

Current dialyzer design, limited by membrane permeability, does not provide effective reduction of middle molecules, and their concentration increases in body fluids as renal function deteriorates.⁵

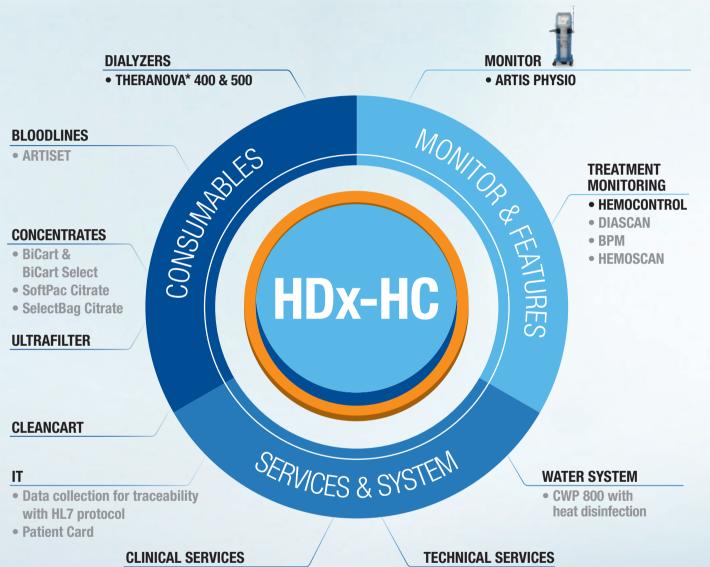
Consistent delivery of high volume post dilution HDF may be challenging⁷

HDF requires well-performing vascular access with large needle size to allow high blood flow.⁷ Hemoconcentration or pressure alarms may require nurse intervention, and may not allow the targeted convective volume to be reached⁹

Intradialytic hypotension may impair the delivery of treatment targets

Repeated Intradialytic hypotension can preclude delivery of prescribed dialysis dose, and may lead to chronic fluid overload due to suboptimal ultrafiltration and fluid boluses.⁴

THE TREATMENT OPTION INTEGRATING **EXPANDED HEMODIALYSIS (HDx) AND THE HEMOCONTROL (HC) MODALITY**



HDx clearance App

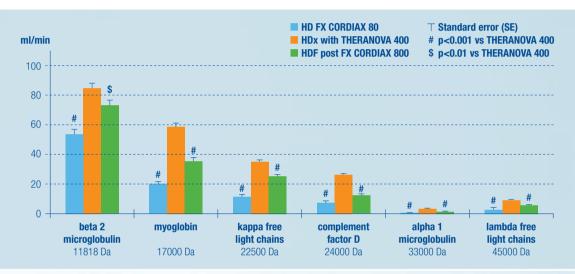
- Hotline
- Technical training
- Service contract

MEMBRANE INNOVATION **DESIGNED TO TARGET LARGE MIDDLE MOLECULES EFFECTIVELY**

Thanks to the unique permeability and selectivity properties of the THERANOVA membrane, the clearance of large middle molecules is significantly higher than with conventional high-flux membranes.⁸

OVERALL CLEARANCE HD VS. HDx VS. HDF

HD with latest generation high-flux dialyzer HDx with THERANOVA 400 dialyzer HDF with latest generation high-flux dialyzer for HDF Qb = 400 ml/min – Treatment Time = 4.4 h – Vconv = 24L (Mean) – n = 20



Adapted from 8) Kirsch et al. Nephrol Dial Transplant 2017

HEMOCONTROL MODALITY ON **THE ARTIS PHYSIO SYSTEM**

Compared to conventional HD, The HEMOCONTROL HD provides benefits on session tolerance and treatment delivery:

- Fewer muscle cramps and intradialytic hypotension¹
- Lower burden of kidnev disease¹⁶
- Reduction of cardiac stunning observed during HD¹³
- Less nurse intervention¹⁴
- More achievable fluid removal¹⁵
- Shorter recovery time¹²

The ARTIS PHYSIO systems puts you in control on treatment delivery with innovative technologies

- The simple five-button NAVPAD controller
- The help-on-screen feature providing step-by-step instructions
- ARTISET blood circuit with one-button priming reducing waiting times



OUR HDX-HC TREATMENT OPTION MAY HELP **REDUCE CARDIOVASCULAR STRESS AND INCREASE REMOVAL OF LARGE MIDDLE MOLECULES**

Biofeedback dialysis reduces the appearance of intradialytic hypotension by 39% according to a systematic review¹⁰ of controlled studies HEMOCONTROL modality can help to reduce symptoms¹¹ recovery time¹² and cardiac stunning observed during HD.¹³

The HDx therapy provides HDF performance and beyond in the removal of large middle molecules

Despite its higher permeability, the membrane of the THERANOVA* dialyzer retains essential proteins to ensure albumin removal in the range of data observed in HDF treatment^{8,2}; it also remains an effective barrier to potential dialysis fluid contaminants³

The HDx treatment is simple and can be delivered effectively to all patients

HDx therapy does not induce high hemoconcentration often observed in HDF⁹, and the high clearances for the large middle molecules are also achieved with a blood flow rate of 300 ml/min⁸

HEMOCONTROL modality can reduce nurse intervention and minimize disruption of treatment scheduling¹⁴

Fluid removal is also more achievable¹⁵ allowing to reach post-dialysis target weight.