NorrDia High Flux Dialyzer

DESIGNED FOR
High Flux Hemodialysis (HFHD)

OTHER APPLICABLE THERAPIES
Hemofiltration (HF)
Hemodiafiltration (HDF)

MEMBRANE
POLYETHERSULFONE (PES)

High permeability for Effective Treatment

NorrDia H dialyzer series is designed for high permeability, efficiently removing small and large uremic toxins to support effective hemodialysis. With high clearance rates for all key molecules they enable the prescribed removal targets to be met within standard treatment times—critical for delivering high-quality dialysis care.

High Permeability with Minimal Albumin Loss

NorrDia H dialyzer series is based on a membrane with well-defined and controlled pore size distribution, ensuring effective removal of middle molecules while preserving essential proteins. Maintaining blood albumin levels is critical, as low albumin levels are linked to significantly higher mortality risks in dialysis patients. There is a low risk of a significant albumin loss during treatment with NorrDia H dialyzer series..

Advanced Membrane Technology for Safe and Effective Treatment

NorrDia's state-of-the-art membrane production ensures well controlled pore size distribution with a high overall porosity for optimal dialysis performance.

BPA-Free for Enhanced Patient Safety

NorrDia H dialyzer series prioritizes patient safety with a BPA-free polypropylene housing, reducing exposure to bisphenol A (BPA)—a substance classified by the European Commission as toxic to reproduction (Category 1B) and an endocrine disruptor of very high concern (SVHC).

Optimized Flow Design to Reduce Clotting and minimize blood loss

Leveraging advanced hydrodynamic research, NorrDia H dialyzer series features an optimized blood inlet design that ensures a homogeneous blood distribution in the dialyzer header avoiding all dead zones.

Efficient Priming for Time and Cost Savings

NorrDia H dialyzer series features an optimized dialysate flow channel design, enabling top-down priming without the need for manual intervention. This allows staff to use automatic priming functions without having to turn the dialyzer, improving workflow efficiency and freeing up time for other critical tasks.

NORRDIA

Product specification

MATERIALS	14H	18H	20H	24H
Membrane	Polyethersulfone (PES) hollow fiber membrane			
Potting	Polyurethane			
Housing	Polypropylene			
Gaskets	Silicone			
Protection caps	Polyethylene			
Sterilization	Radiation sterilization			
Sterile barrier	PE-PA synthetic film			

SPECIFICATIONS				
UF-Coefficient (mL/(h*mmHg))	51	65	72	87
KoA urea*	1265	1771	2060	2778
Blood Compartment volume (mL)	78	101	110	134
Minimum recommended priming volume (mL)	500			
Maximum TMP (mmHg)	500			
Storage conditions	Relative humidity < 80%, 0-40°C (32°F-104° F)			
Units per box	24			
Unit net weight (g)	132±2	142±2	168±2	183±2

MEMBRANE				
Effective Membrane Area (m^2)	1,4	1,8	2	2,4
Fiber inner diameter (μm)	200±20			
Fiber wall thickness (μm)	40±10			

* SIEVING COEFFICIENTS	
Vitamin B12 (1,4kDa)	1
Inulin (5,2 kDa)	0.9±10%
β2-microglobulin (11,8kDa)	≥0.7
Myoglobin (17 kDa)	≥0.55
Albumin (66,4 kDa)	≤0.01

CLEARANCES IN VITRO (mL/min)	14H	18H	20H	24H
HEMODIALYSIS MODE (HD)				
Urea (60 Da) (QB-QD, mL/min)				
200/500	195	199	200	200
300/500	275	288	292	297
400/500	318	344	350	365
Creatinine (113 Da)				
200/500	193	196	199	200
300/500	258	270	274	283
400/500	290	310	320	338
Phosphate (142 Da)				
200/500	181	191	194	196
300/500	236	255	262	274
400/500	268	296	310	326
Vitamin B12 (1.4 kDa)				
200/500	138	159	165	175
300/500	168	195	203	223
400/500	186	218	225	245

Reference Document: Version: ZOEY-TXQ-GT-PP-IFU-04_A01 2024.05.23

*According to ISO 8637-1: 2017

- UF-Coefficient: measured with bovine blood, Hct 32%, Pct 60g/L, 37°C
- KoA urea: calculated at QB=300 mL/min, QD=500mL/min, UF=0 mL/min
- Clearances In Vitro: measured at UF=10mL/min

Distributed by:

Nikkiso Belgium BV
Industriepark 6
3300 Tienen
Belgium

Suzhou ZOEY Medical Devices Co., Ltd.
2nd Floor, Building 18, Guanpu Road
No.333, Guoxiang Street, Wuzhong
Economic Development Zone, 215100
Suzhou, China

NORRDIA