

Evodial

DESIGNED FOR:

HFHD (High flux)

OTHER APPLICABLE THERAPIES:

CONVECTIVE (HDF-HF)

MEMBRANE:

HEPRAN (heparin-grafted AN 69 ST, BPA-free)

SPECIALIZED FOR HIGH BLEEDING RISK PATIENTS

The **Evodial*** dialyzer series is specialized for patients with a high risk of bleeding.^{1,2} It has been designed with the **HeprAN** heparin-grafted membrane,^{3,4} and provides a convenient solution for patients requiring reduced or even heparin-free dialysis.¹

FOCUSED ON HEPARIN-FREE DIALYSIS

- May increase the rate of successful heparin-free HD therapy sessions, compared to the current standard of care for high bleeding risk patients¹
- May allow reduced systemic heparin dosing, without compromising the dialysis sessions^{4,5,6}
- Study data indicate that no significant amount of heparin is released from the membrane during a dialysis session⁷

WITH ENHANCED CONVENIENCE¹

- May reduce nurse workload and disposable consumption
- This could result in a lower use of healthcare resources, compared to standard heparin-free dialysis
- Polyvalent dialyzer design, which can accommodate standard hemodialysis, but also convective therapies (hemodiafiltration and hemofiltration).



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

Evodial Specifications

MATERIALS	EVODIAL 1.0	EVODIAL 1.3	EVODIAL 1.6	EVODIAL 2.2
Membrane	HeprAN (heparin-grafted AN 69 ST) Acrylonitrile and Sodium methallyl sulfonate blend BPA-free			
Potting	Polyurethane (PUR)			
Housing	Polycarbonate (PC)			
Surface treatment agent	Polyethyleneimine (PEI)			
Protection caps	Polyethylene (PE): Blood caps (HDPE)/Dialysate caps (LDPE)			
Sterilization	Gamma ray [wet]			
Sterile barrier	PET/Aluminium/LDPE			

SPECIFICATIONS	EVODIAL 1.0	EVODIAL 1.3	EVODIAL 1.6	EVODIAL 2.2
UF-Coefficient (mL/h*mmHg)*	30	40	50	65
KoA urea*	530	637	824	1045
Blood Compartment volume (mL)	66	83	100	129
Minimum recommended priming volume (mL)	1000 [at UFR = 2000 mL/h]			
Maximum TMP (mmHg)	450			
Recommended Q _B (mL/min)	150-400	200-400	200-500	200-500
Storage conditions	≥4°C (or ≥39°F) and ≤30°C (or ≤86°F)			
Units per box	24			
Gross/net weight (g)	216/188	233/205	284/251	327/295

MEMBRANE	EVODIAL 1.0	EVODIAL 1.3	EVODIAL 1.6	EVODIAL 2.2
Effective Membrane Area (m ²)	1.05	1.30	1.65	2.15
Fiber inner diameter (µm)	210			
Fiber wall thickness (µm)	45.5			

SIEVING COEFFICIENTS	EVODIAL 1.0	EVODIAL 1.3	EVODIAL 1.6	EVODIAL 2.2
Vitamin B12 (1,4 kDa)	1.0			
Inulin (5,2 kDa)	0.96			
Myoglobin (17 kDa)**	0.7			
Albumin (66,4 kDa)**	<0.0065			

- * According to ISO 8637:
 - UF-Coefficient: measured with bovine blood, Hct 32%, Pct 60g/L, at 37°C
 - KoA urea: calculated at Q_B=300 mL/min, Q_D=500mL/min, UF=0 mL/min
 - Sieving coefficients: measured with bovine (or human**) plasma, Q_B=300 mL/min, UF=60 mL/min
 - Clearances In-Vitro: measured at UF=0 mL/min, ±10% [excepted for vit.B12 ±20%]

1. Laville M, et al. *Results of the HepZero study*. *Kidney Int* 2014; 86:1260-1267.
2. Kessler M, et al. *Anticoagulation in chronic hemodialysis: progress toward an optimal approach*. *Semin Dial* 2015; 28:474-489.
3. Thomas M, et al. *AN69: Evolution of the world's first high permeability membrane AN69: Evolution of the world's first high permeability membrane*. *Contrib Nephrol* 2011; 173:119-129.
4. Kessler M, et al. *Heparin-grafted dialysis membrane allows minimal systemic anticoagulation in regular hemodialysis patients: A prospective proof-of-concept study*. *Hemodial Int* 2013; 17:282-293.
5. Morena M, et al. *Biocompatibility of heparin-grafted hemodialysis membranes: Impact on monocyte chemoattractant protein-1 circulating level and oxidative status*. *Hemodialysis International* 2010; 14:403-410.
6. Frascá GM, et al. *Post-Dilution Hemodiafiltration With a Heparin-Grafted Polyacrylonitrile Membrane*. *Ther Apher Dial* 2015; 19:154-161.
7. Baxter. Data on File. *Evodial Heparin leaching data*. Study report BM10-008.

The products meet the applicable provisions of Annex I (Essential Requirements) and Annex II (Full quality assurance system of the Council Directive 93/42/EEC of 14 June 1993, amended by Directive 2007/47/EC)

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

CE 0086

MANUFACTURER
 Gambro Industries
 7, Avenue Lionel Terray
 69883 Meyzieu Cedex
 France

Baxter Healthcare
 One Baxter Drive
 Old Toongabbie, Sydney 2146
 NSW, Australia
 1800-BAXTER (229837)

Baxter Healthcare
 33 Vestey Drive,
 Mt Wellington, Auckland, 1060
 New Zealand
 +64 9 574 2400

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