

Gambro **evodial**

THE FIRST DIALYZER WITH A HEPARIN-GRAFTED MEMBRANE

The Gambro EVODIAL dialyzer represents our specialized dialyzer for patients with a high risk of bleeding.^{1,2} It has been designed with the HeprAN heparin-grafted membrane.^{3,4} This dialyzer provides a convenient solution for patients requiring reduced and heparin-free dialysis.^{1,a,b}

FACILITATES HEPARIN-FREE DIALYSIS

- Increases the rate of successful heparin-free HD therapy sessions, compared to the current standard of care in high bleeding risk patients^{1,a}
- Allows for a reduction of systemic heparin dosing, without compromising the dialysis session⁵⁻⁷
- No heparin is released from the membrane during the dialysis session⁸

TREAT ACROSS A VARIETY OF MODALITIES

- EVODIAL dialyzers can be used in hemodialysis, hemodiafiltration and hemofiltration therapies to potentially provide individualized patient treatments⁹
- Also available for acetate-free biofiltration (AFB & AFB-K)

ENHANCED CONVENIENCE^a

- May reduce nurse workload and disposable consumption, which could result in lower healthcare resource use, compared to the standard for heparin-free dialysis^{1,a}
- Available traceability label

HIGH PERFORMING MEMBRANE^c

- Anticoagulation benefits for high bleeding risk patients⁴
- Improved adsorptive capabilities vs. other types of membranes³



 **TYPICAL PATIENT PROFILE: HIGH BLEEDING RISK PATIENTS AND PATIENTS WITH HEPARIN SENSITIVITIES (EXCLUDING HIT SYNDROME TYPE II)**

^a Standard of care includes saline flushes and blood predilution
^b Excluding patients with HIT (heparin-induced thrombocytopenia)
^c The AN 69 membrane is the predecessor to the HEPRAN membrane

Gambro EVODIAL Dialyzer HeprAN Membrane

IN VITRO CLEARANCES* (ml/min)

Q_g = 200 ml/min, Q_b = 500 ml/min, Q_{uf} = 0 ml/min

	EVODIAL 1.0	EVODIAL 1.3	EVODIAL 1.6	EVODIAL 2.2
Urea	173	181	189	195
Creatinine	156	166	176	184
Phosphate	135	146	156	168
Vitamin B ₁₂	85	96	111	126

Q_g = 300 ml/min, Q_b = 500 ml/min, Q_{uf} = 0 ml/min

Urea	216	231	250	265
Creatinine	187	204	220	237
Phosphate	156	172	187	207
Vitamin B ₁₂	92	106	124	143

Q_g = 400 ml/min, Q_b = 500 ml/min, Q_{uf} = 0 ml/min

Urea	241	261	287	310
Creatinine	205	226	246	269
Phosphate	168	187	205	230
Vitamin B ₁₂	96	111	131	153

ULTRAFILTRATION COEFFICIENT**

(± 20 %) – ml/(h x mmHg)

	33	40	50	65
--	----	----	----	----

Membrane

Surface area (m ²)	1.05	1.30	1.65	2.15
Inner thickness (µm)			42	
Internal diameter (µm)			210	

Sieving coefficients***

Inulin			0.96	
Albumin			< 0.01	

Materials

Membrane	HeprAN: AN 69 ST**** membrane heparin grafted			
Housing	Polycarbonate			
Blood headers	Polycarbonate (no joint)			
Potting	Polyurethane			

Sterilization

	Gamma ray			
Blood priming volume (ml) ±10%	66	83	100	129
Residual blood volume (ml)			< 1	
Maximum TMP (mmHg)			450	
Recommended blood flow rates (ml/min)	150-300	200-400	200-500	300-500
Weight (g)	160	200	240	255
Quantity per box			24	

* ±10% excepted for vit. B₁₂ (± 20%) – Phosphates values measured with a pH = 7.4 ± 0.1.

** Bovine blood (Htc: 32%, protein concentration = 60 g/l, T = 37°C, Q_b = 300 ml/min).

*** Protein concentration = 60 g/l, Q_b = 300 ml/min, Q_{UF} = 20% x Q_b = 60 ml/min.

**** Values measured according to ISO 8637.

***** Acrylonitrile and sodium methallyl sulfonate copolymer – Polyethyleneimine – Heparin grafted

CE 0086

Evodial is contraindicated in patients presenting with a known allergy to heparin or who have type II thrombocytopenia caused by heparin (HIT Syndrome type II).

Baxter Healthcare Corporation
One Baxter Parkway
Deerfield, IL 60015
USA
1-800-422-9837

1. Laville M, et al. *Kidney Int* 2014; 86:1260–1267.
2. Kessler M, et al. *Semin Dial* 2015; 28:474–489.
3. Thomas M, et al. *Contrib Nephrol* 2011; 173:119–129.
4. Chanard J, et al. *Nephrol Dial Transplant* 2008; 23:2003–2009.
5. Kessler M, et al. *Hemodial Int* 2013; 17:282–293.
6. Morena M, et al. *Hemodialysis International* 2010; 14:403–410.
7. Frascá GM, et al. *Ther Apher Dial* 2015; 19:154–161.
8. Baxter. Data on file. EVODIAL Risk Analysis Summary. 2013.
9. Baxter. EVODIAL Instructions for use. 2010.

Baxter, Gambro, AN 69, AN 69 ST, Evodial and HeprAN are trademarks of Baxter International Inc. or its subsidiaries.