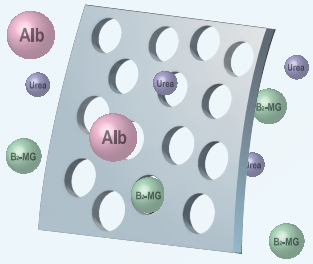
Beyond the High Flux
Key concept and benefit of new dialyzer

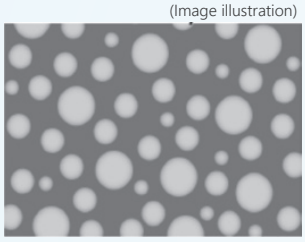
NIPRO



Our POLYNEPHRON™ membrane has high water permeability and a property to remove uremic toxin.
It has an excellent design concept, not only small molecule uremic substances but also low molecular weight protein such as β2-Microglobulin.
Although it has high removal efficiency, it also incorporates a design that suppresses leakage of essential proteins such as albumin, which should suppress leakage, and has excellent removal characteristics.

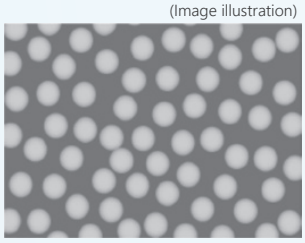
The case of uneven pores

(Image illustration)



The case of equalized pore

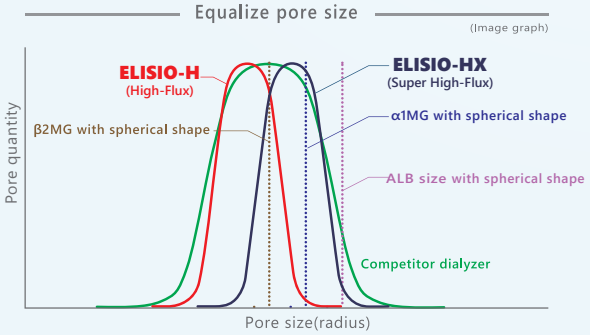
(Image illustration)



With considering the selection ability between uremic toxin and non-uremic toxin, homogenize technology of pore size are required.
Current membranes has non-uniformed pore structure.
Our POLYNEPHRON™ has highly homogenized and controlled pore and these will helps the therapy to be moreefficient

Equalize pore size

(Image graph)



ELISIO™-HX

Super High Flux Dialyzer

Beyond the High Flux with synthetic hollow fiber POLYNEPHRON™

CE 0123

Do not use ELISIO-HX dialyzer for HDF or HF mode

ELISIO™-HX

PERFORMANCE

Clearance

〔衛部醫器輸字第030228號〕

mL/min	Qb/Qd(mL/min)	11HX	13HX	15HX	17HX	19HX	21HX
Urea	200/500	193	197	199	199	200	200
	300/500	257	268	276	282	288	292
	400/500	298	316	329	341	351	358
Creatinine	200/500	181	188	193	196	198	199
	300/500	233	247	258	270	277	283
	400/500	263	284	300	314	325	334
Phosphate	200/500	175	182	187	191	194	197
	300/500	216	232	245	255	264	271
	400/500	239	256	274	290	302	314
Vitamin B_{12}	200/500	129	142	153	162	170	177
	300/500	150	168	183	195	206	217
	400/500	162	182	200	214	226	240
Myoglobin	200/500	74	88	97	108	118	128
	300/500	81	94	105	116	127	139
	400/500	86	100	113	124	137	148
KUF(mL/hr/mmHg)		47	53	60	67	75	82

SPECIFICATION

		11HX	13HX	15HX	17HX	19HX	21HX
Effective Surface Area(m^2)		1.1	1.3	1.5	1.7	1.9	2.1
Priming Volume(mL)		68	80	90	102	114	125
Effective Length(mm)		228	245	259	271	281	290
Inner Diameter(μm)		200	200	200	200	200	200
Membrane Thickness(μm)		40	40	40	40	40	40
Maximum TMP(mmHg)		500	500	500	500	500	500
Pressure Drops	Qb/Qd(mL/min)	200/500	200/500	200/500	200/500	200/500	200/500
	Blood /Dialysate (mmHg)	56/25	54/30	52/32	50/33	49/28	45/30

In-Vitro Test Conditions

Clearance：Qd 500mL/min, Qf 10mL/min
KUF：Bovine Blood（Hct 32±2%, Protein 60g/L, 37℃）, Qb 300mL/min

Sieving Coefficient

Vitamin B_{12}	1.00	Membrane	POLYNEPHRON™
Inulin	1.00		Polyethersulfone
β2-microglobulin	1.00	Housing	Polypropylene
Myoglobin	0.86	Potting compound	Polyurethane
Albumin	0.0024	Sterilization	Gamma Ray

Recommended connectors for blood ports Acc.to ISO 8637-1
Recommended connectors for dialysate ports Acc.to ISO 8637-1

Note：Operation of the dialyzer under clinical conditions may produce values different from those illustrated because of the variables involved in the clinical dialysis procedure, in the POLYNEPHRON Polyethersulfone membrane, and in the manufacture of the device. Therefore, the values given are for approximate only. See in-vitro test conditions for explanatory materials relating to the test conditions from which the data were derived

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