

Αιμοπροσφόρηση

μια παλιά τεχνική σε νέες εφαρμογές

στη μονάδα εντατικής θεραπείας

Dr. Χρήστος Μπαντής

Νεφρολόγος

Επιμελητής Α΄

Νοσ. «Γ. Παπανικολάου» Θεσσαλονίκη

Conflicts of interest?



Medtronic

(speaking fees)

Φαράγγι του Βίκου

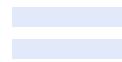
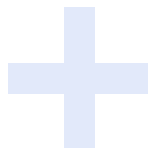


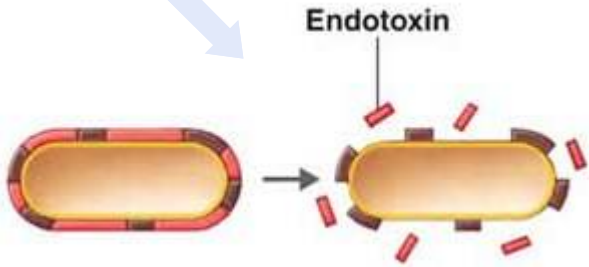
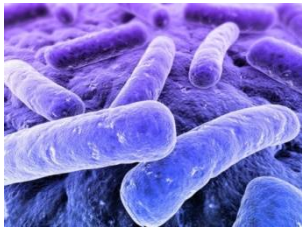
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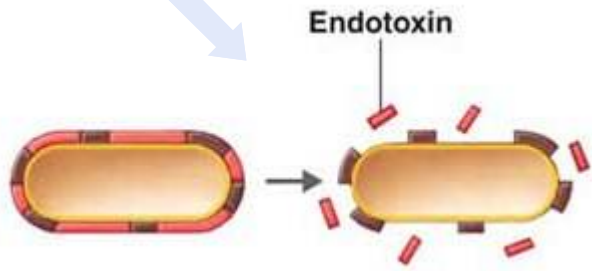
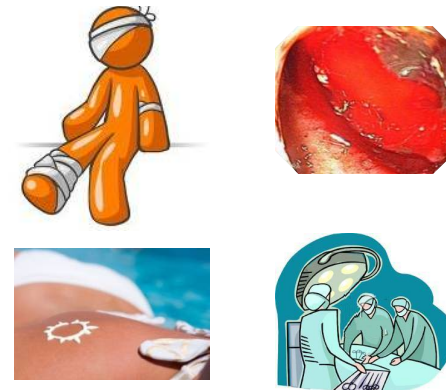
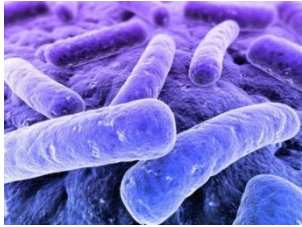


pathogen-associated molecular patterns



systemic inflammatory response syndrome





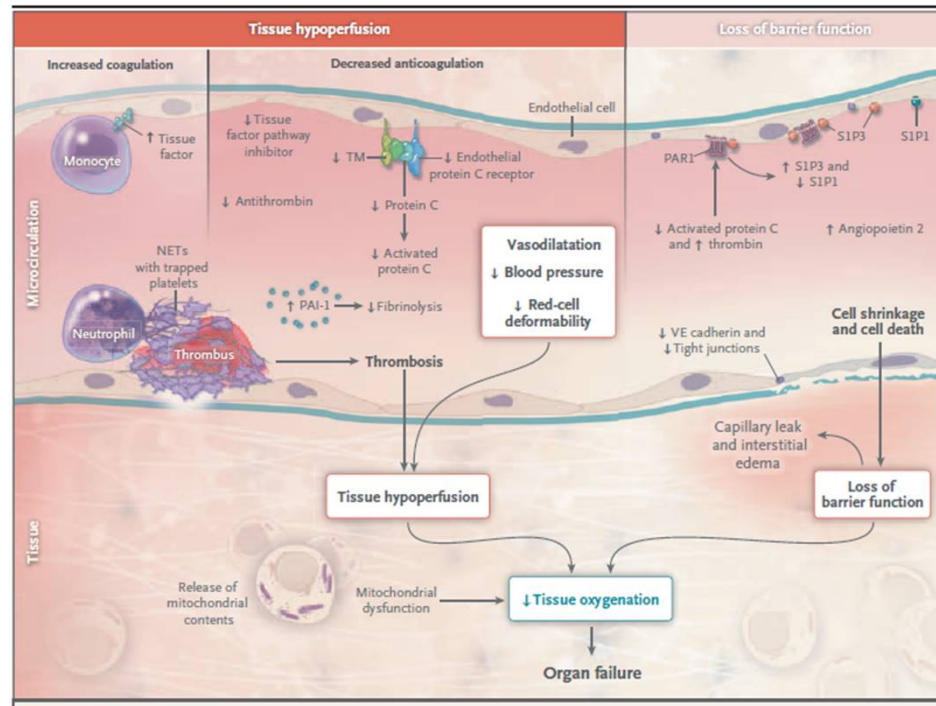
pathogen-associated molecular patterns

damage associated molecular patterns

systemic inflammatory response syndrome



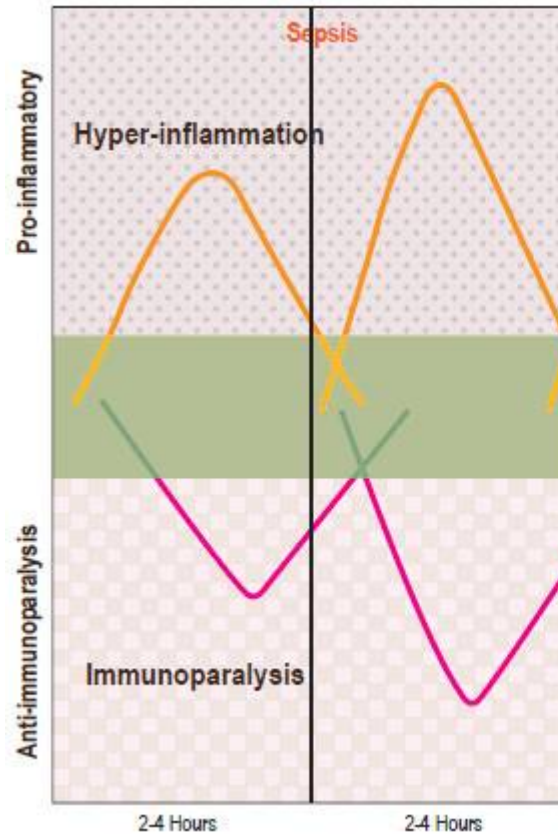
systemic inflammatory response syndrome (SIRS)



cytokine storm

**systemic
inflammatory
response
syndrome
(SIRS)**

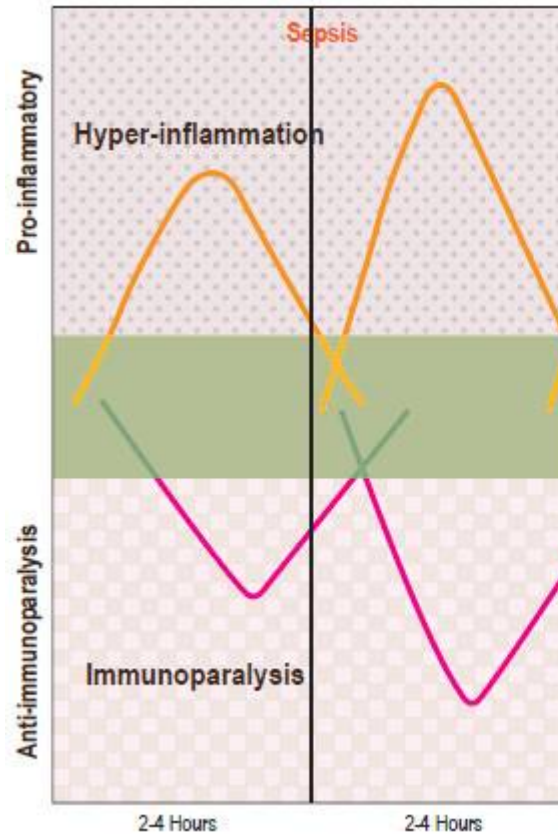
**compensatory
anti-inflammatory
response
syndrome
(CARS)**



peak concentration hypothesis

systemic inflammatory response syndrome (SIRS)

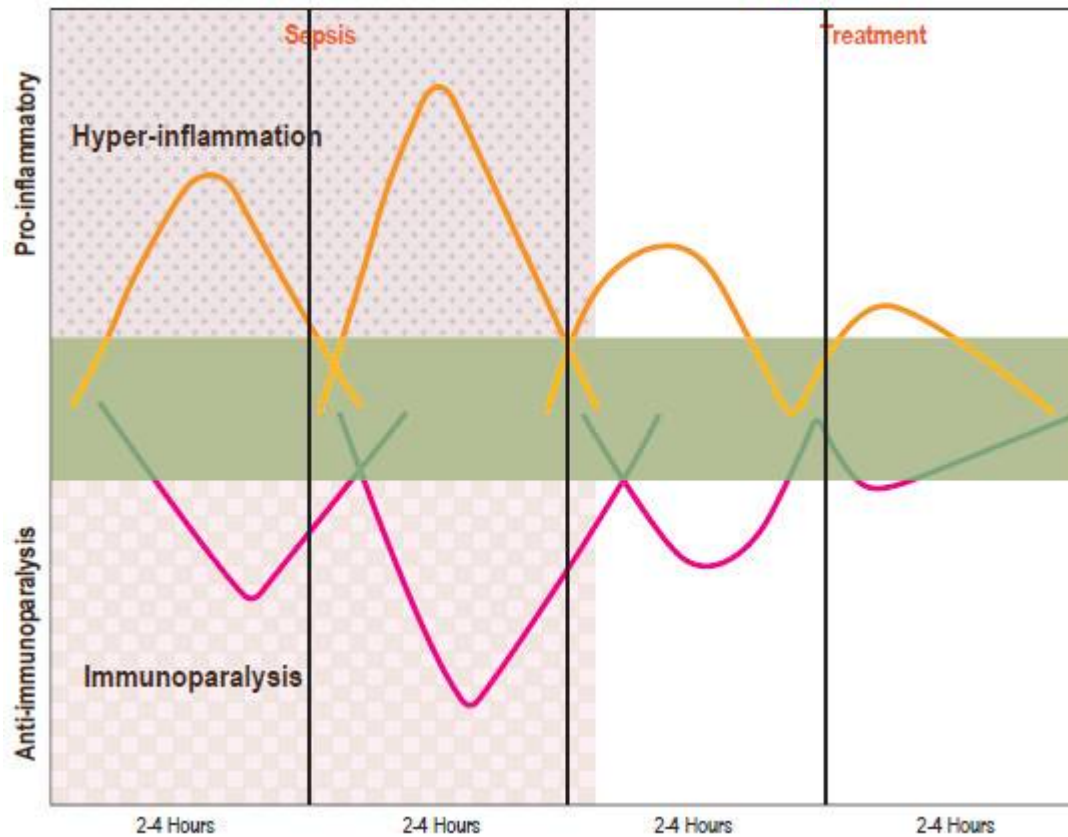
compensatory anti-inflammatory response syndrome (CARS)



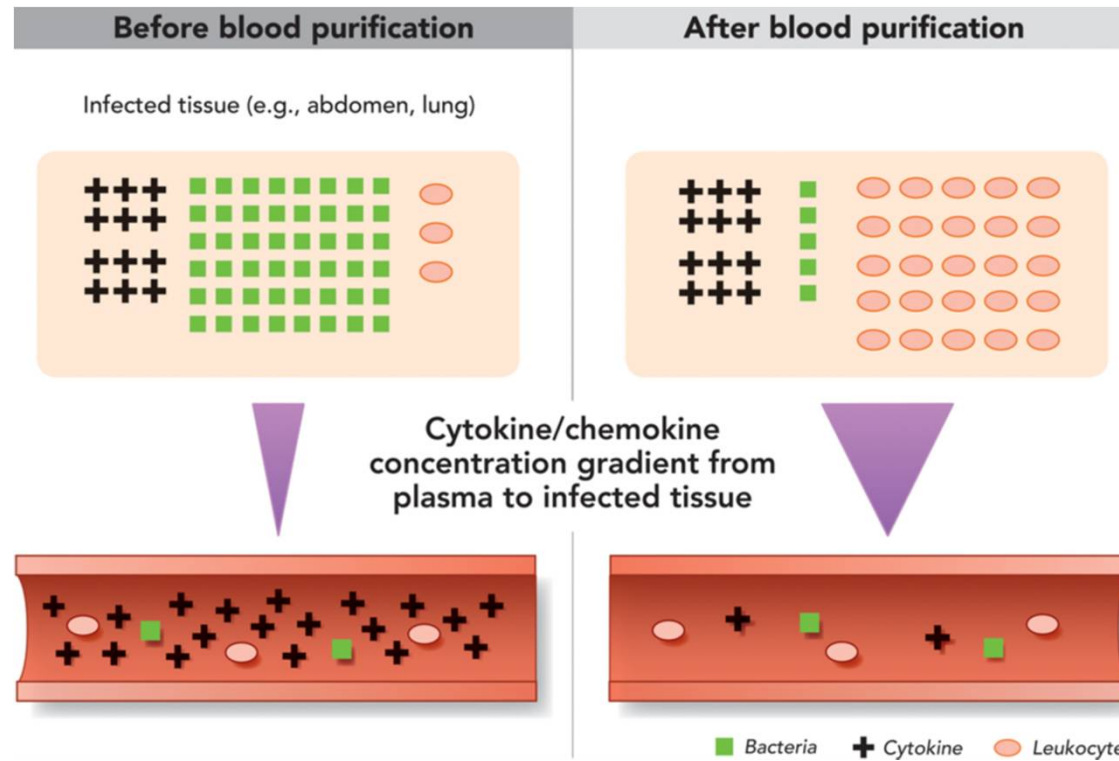
peak concentration hypothesis

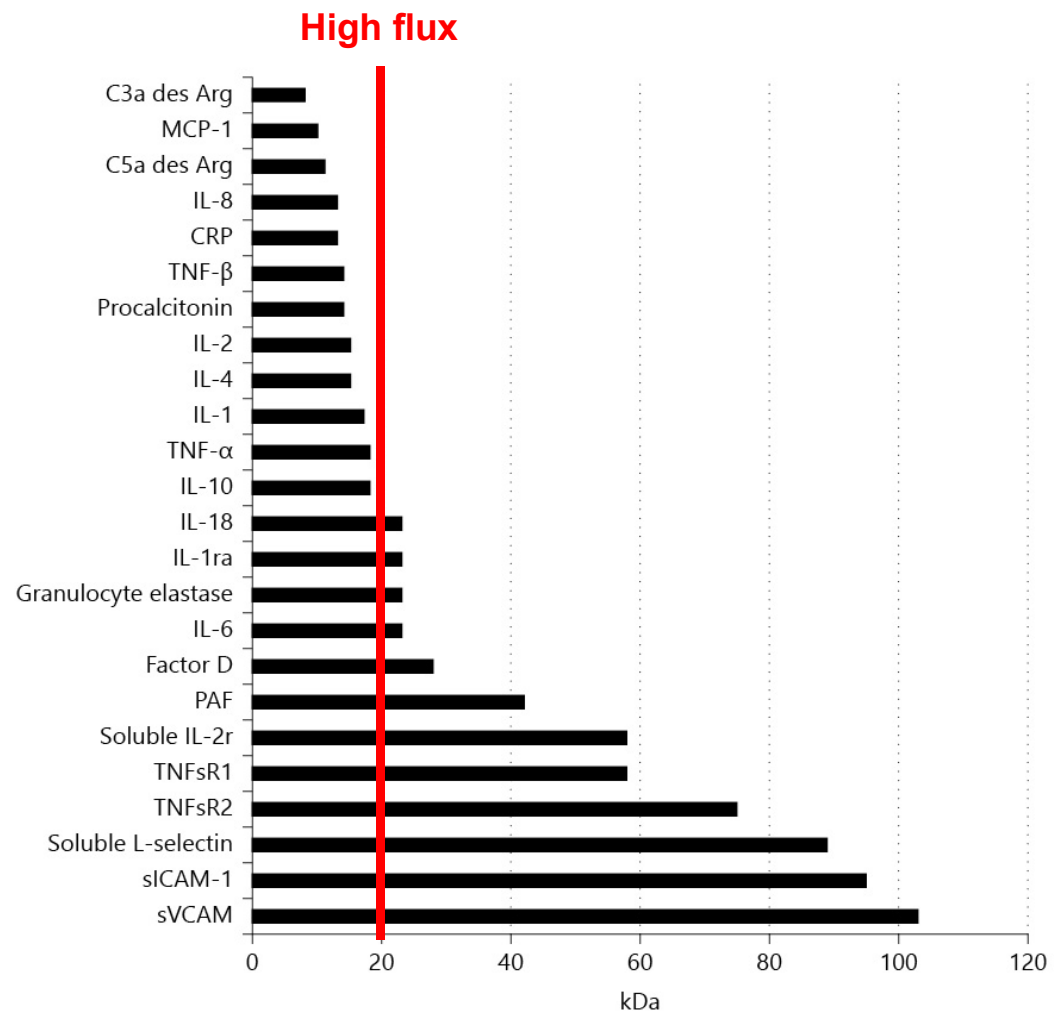
systemic inflammatory response syndrome (SIRS)

compensatory anti-inflammatory response syndrome (CARS)

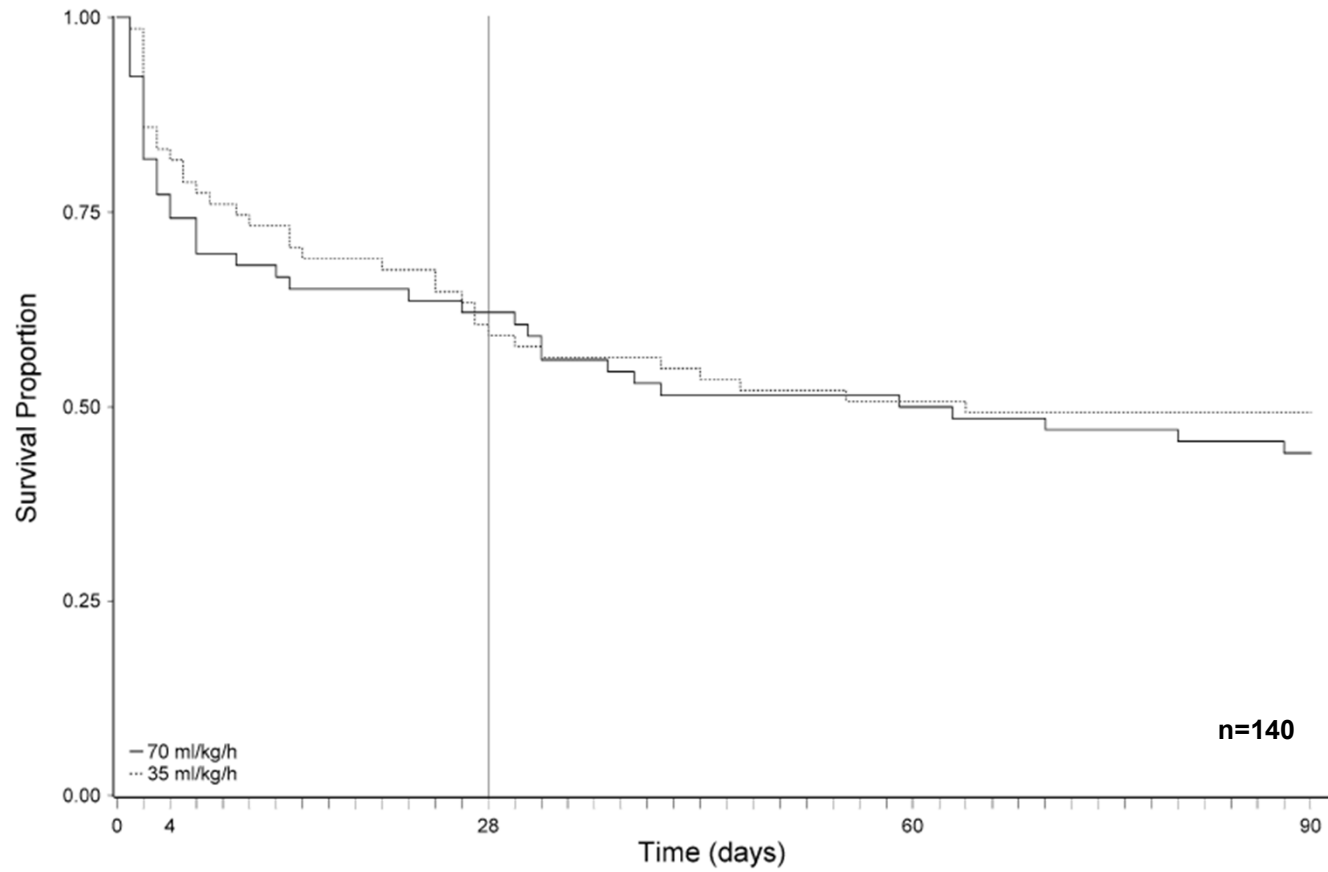


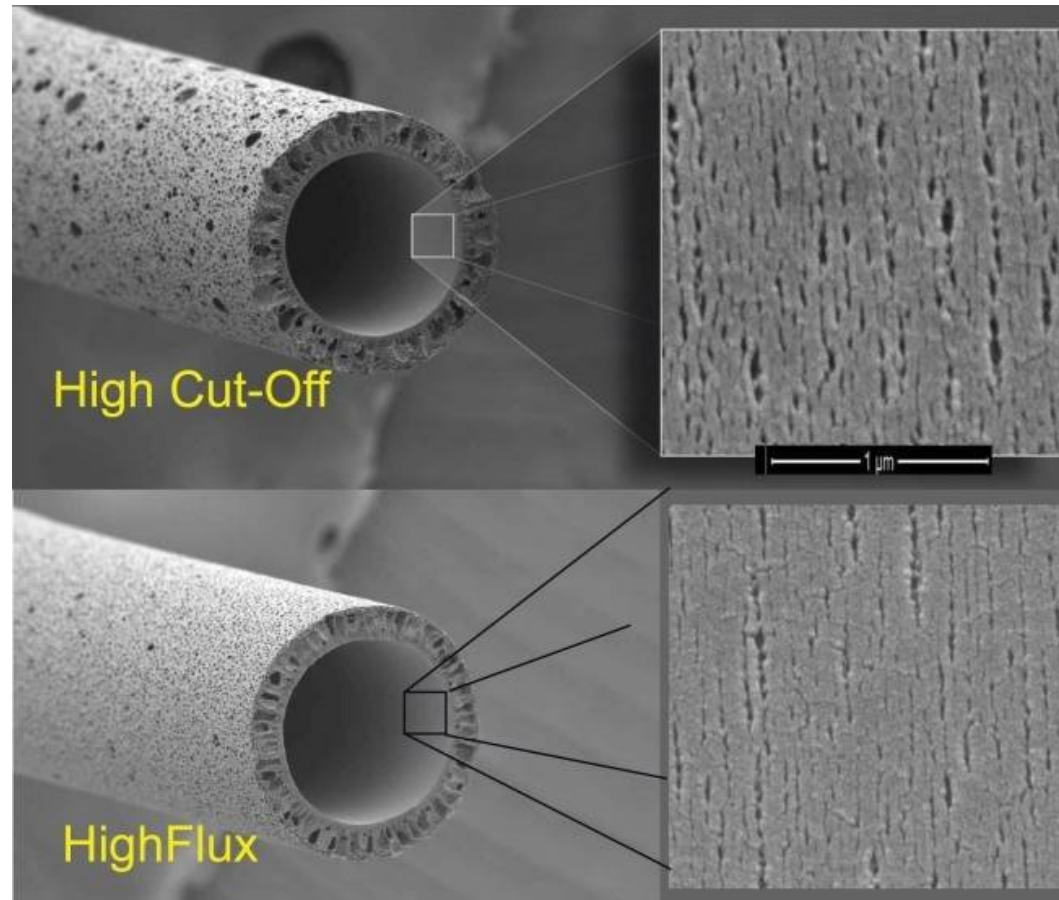
cytokinetic model





high volume hemofiltration



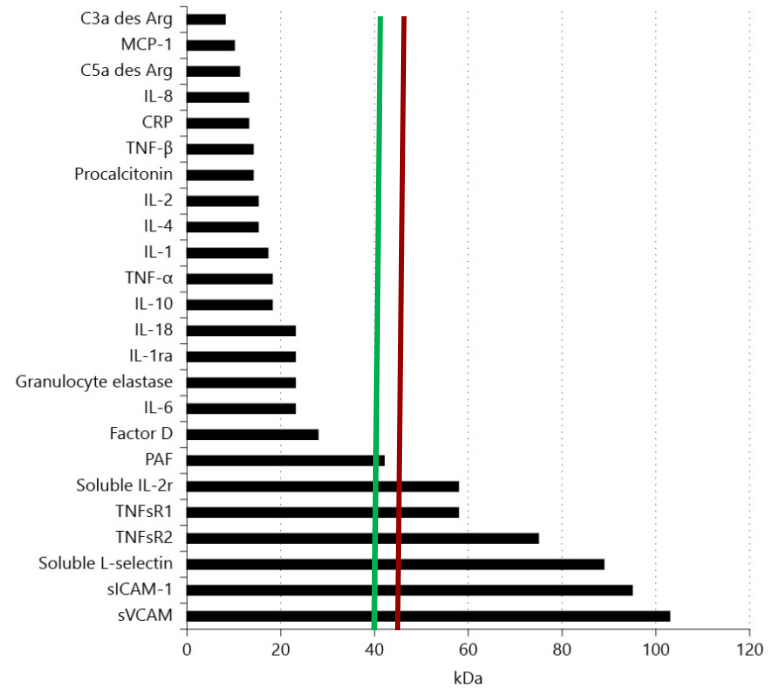


high cut-off membranes



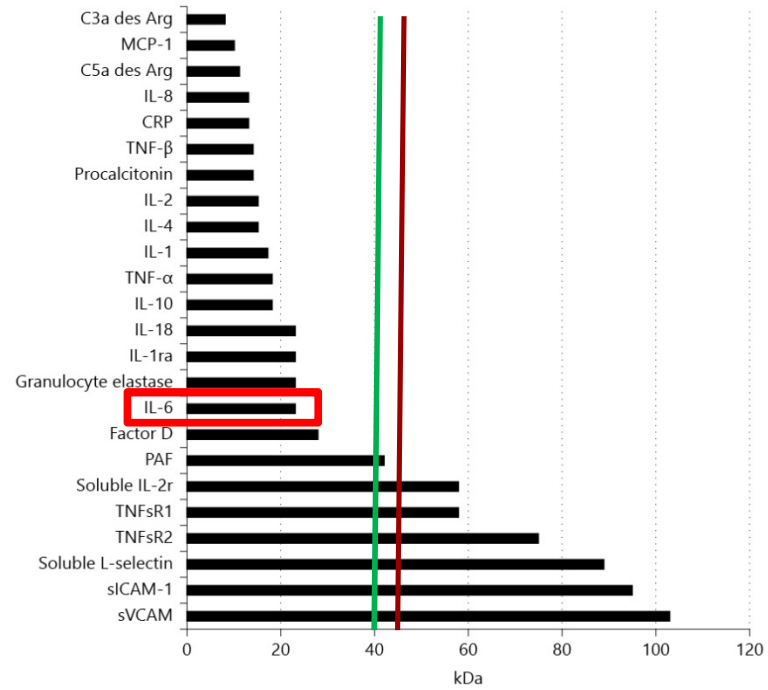
septex

high cut-off membranes



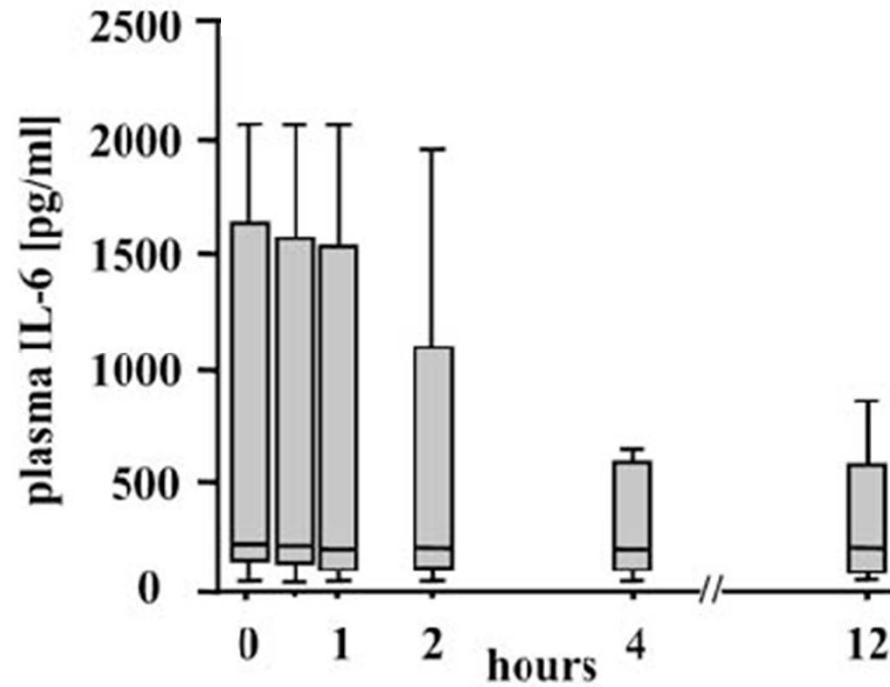
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high cut-off membranes

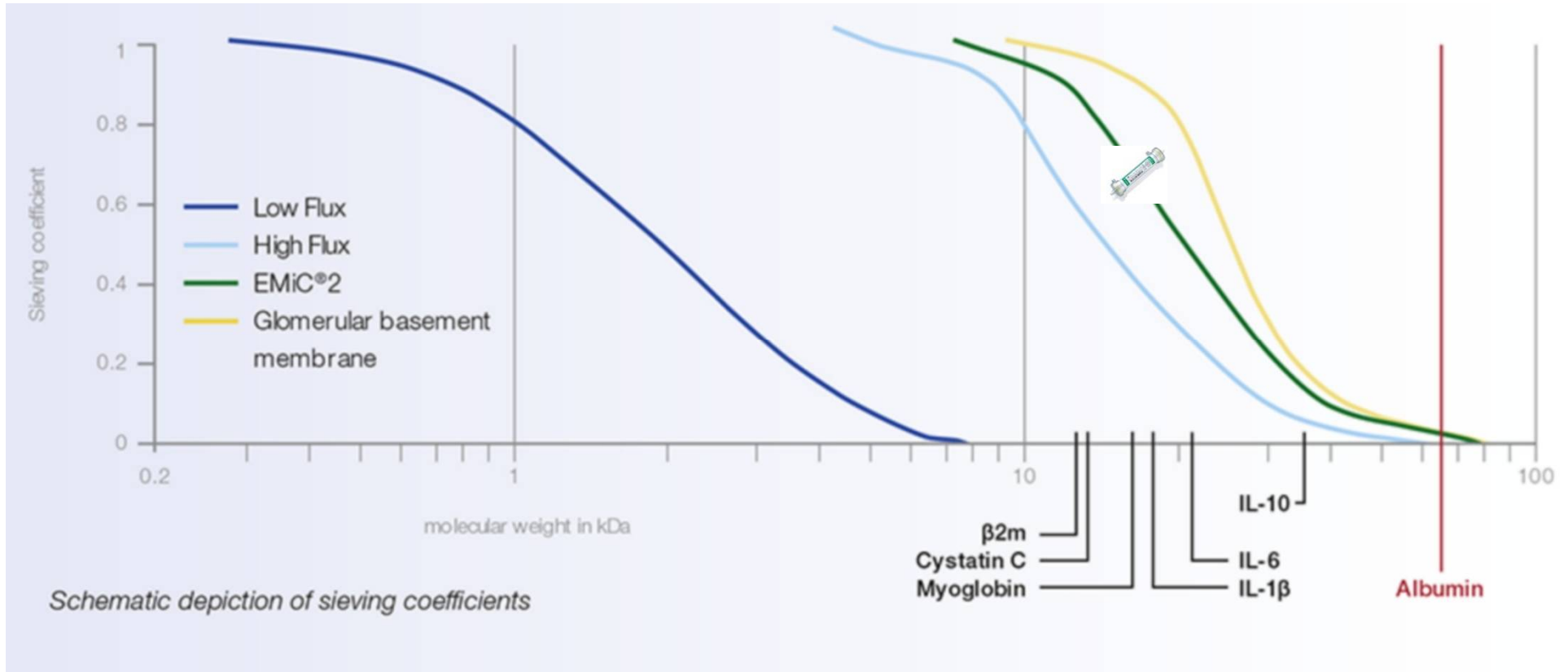


septeX

high cut-off membranes

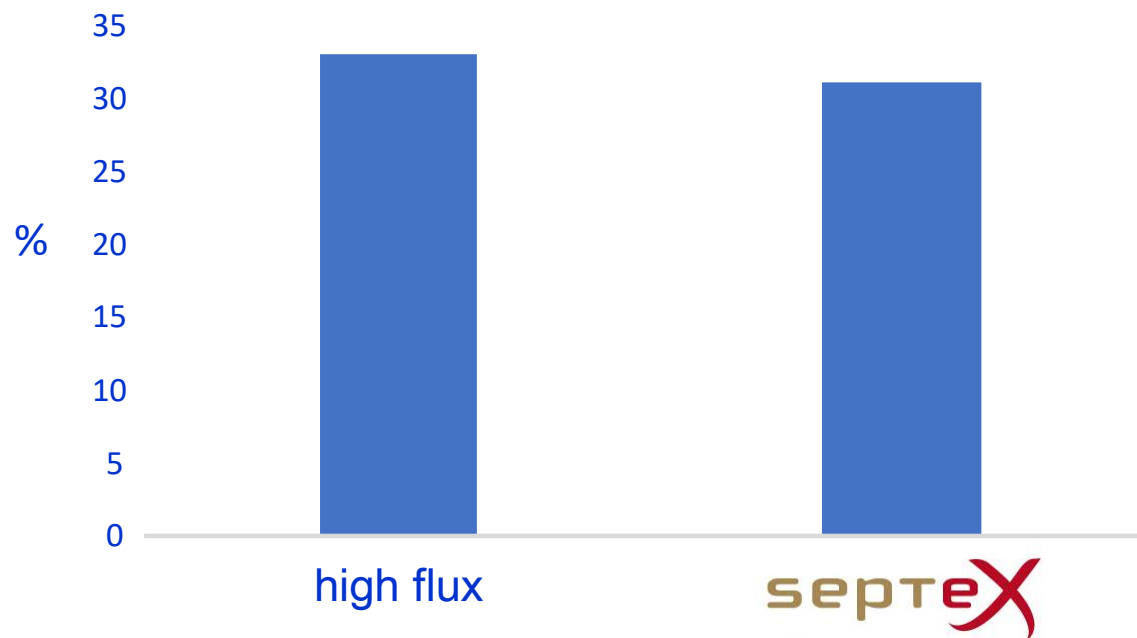


high cut-off membranes



High Cut-Off Sepsis study

n=81 (120)







トレミキシン® PMX-20R
TORAYMYXIN

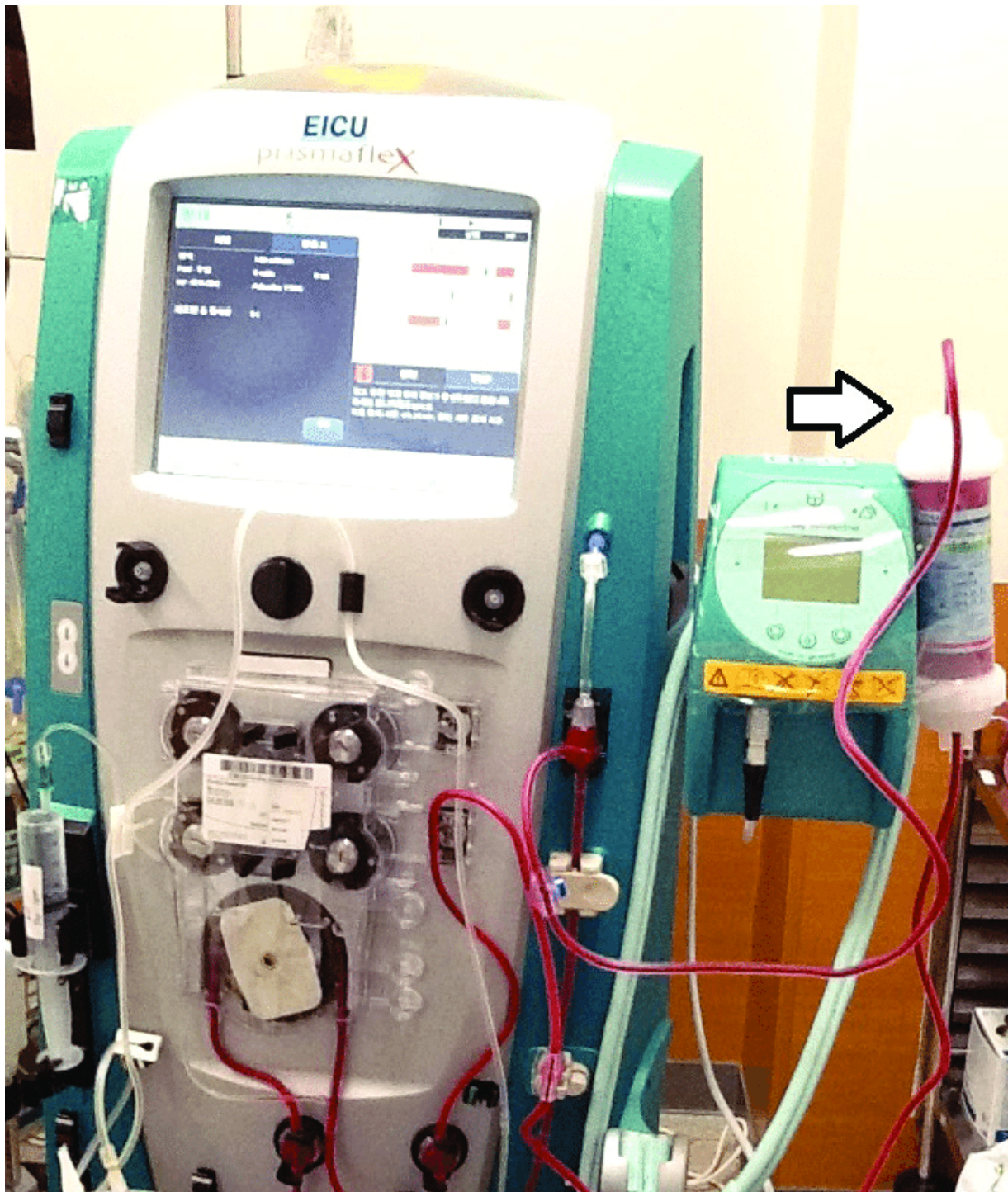
TORAYMYXIN
1105304
1105289
2011.05.11
2015.03.11

Toray Medical Co., Ltd.
Toray Medical Co., Ltd.
Toray Medical Co., Ltd.

Toray Medical Co., Ltd.
Toray Medical Co., Ltd.
Toray Medical Co., Ltd.

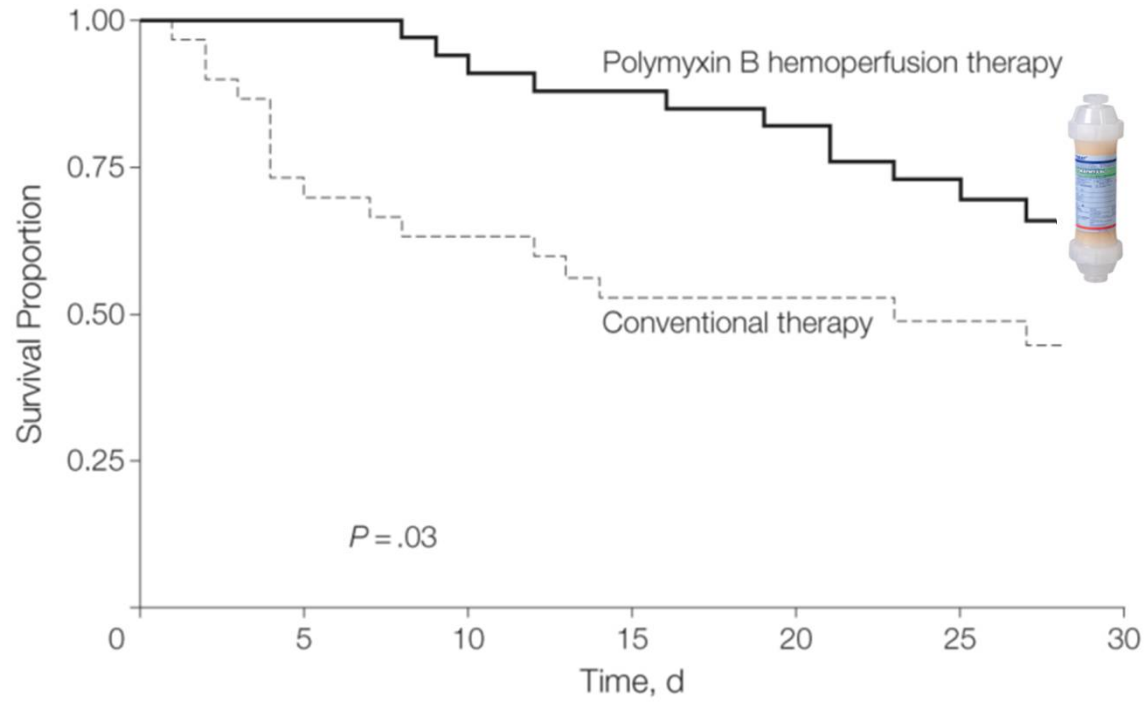
Toray International Italy S.r.l.
Toray International Italy S.r.l.

Made in Japan



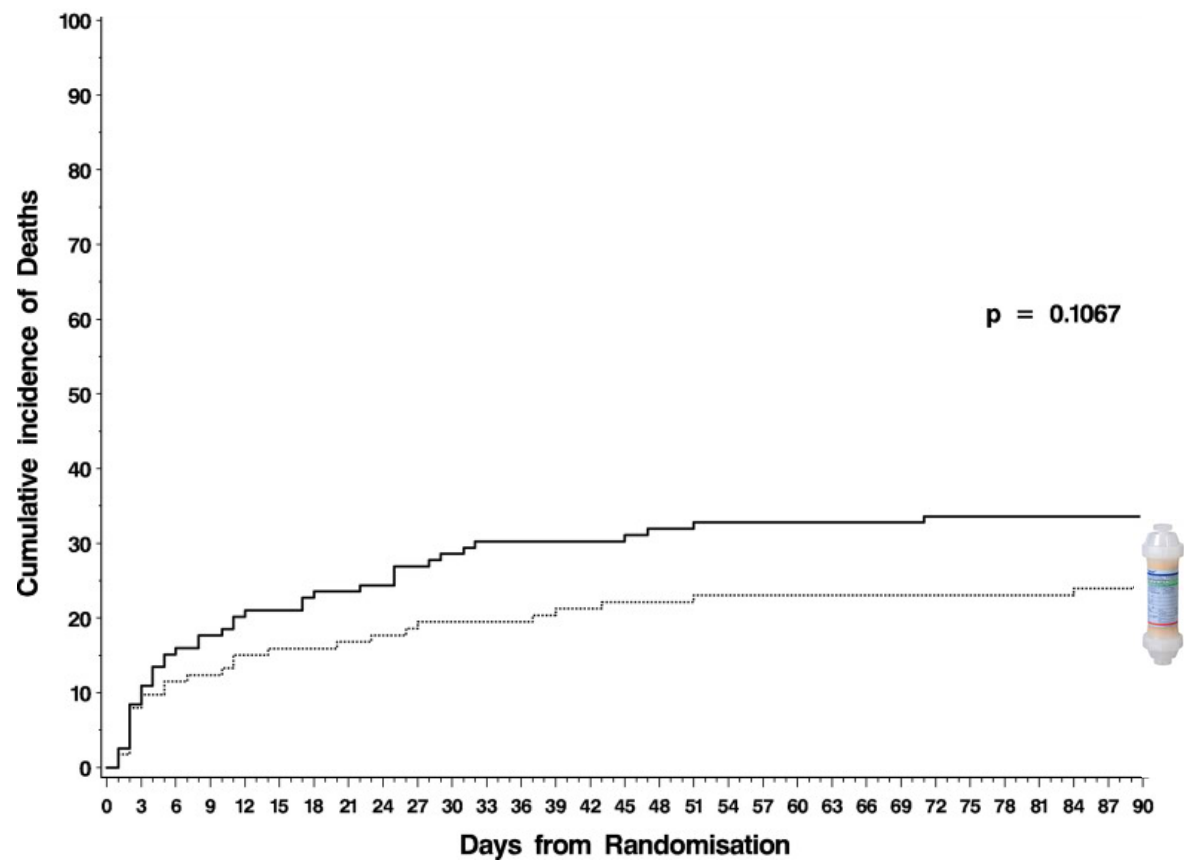
EUPHAS trial

n=64



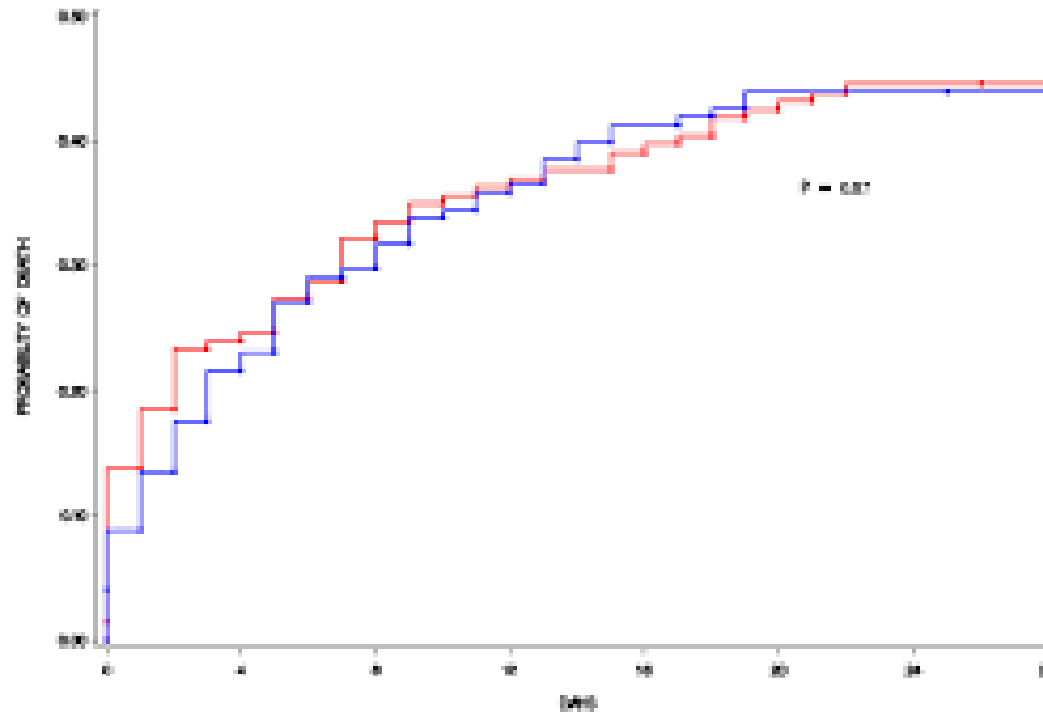
ABDO-MIX trial

n=130



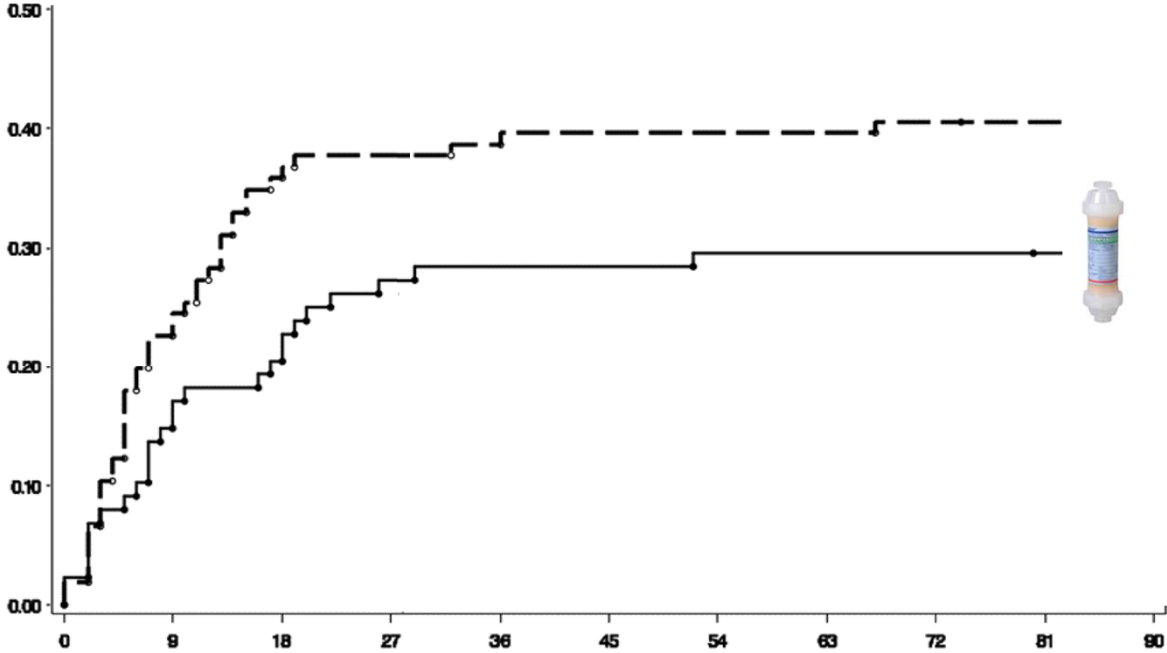
EUPHRATES trial

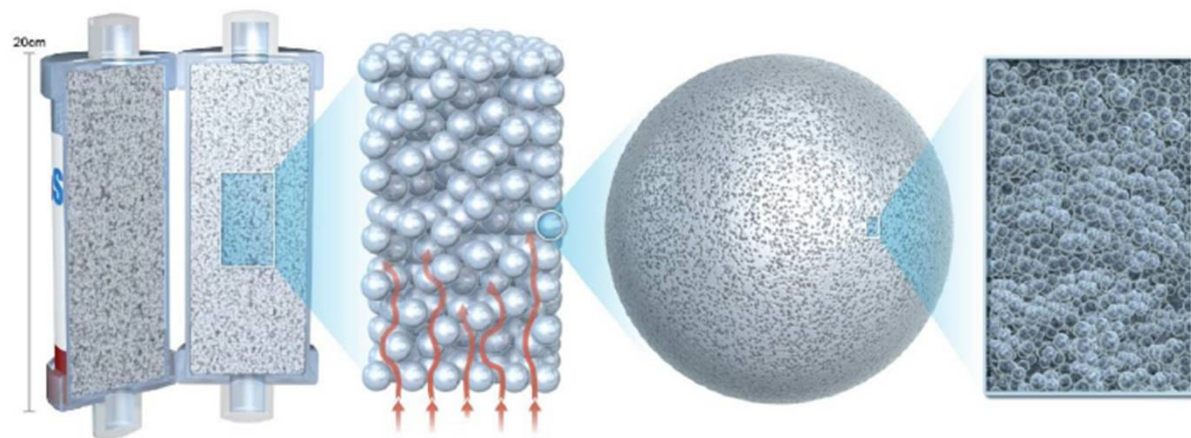
n=450

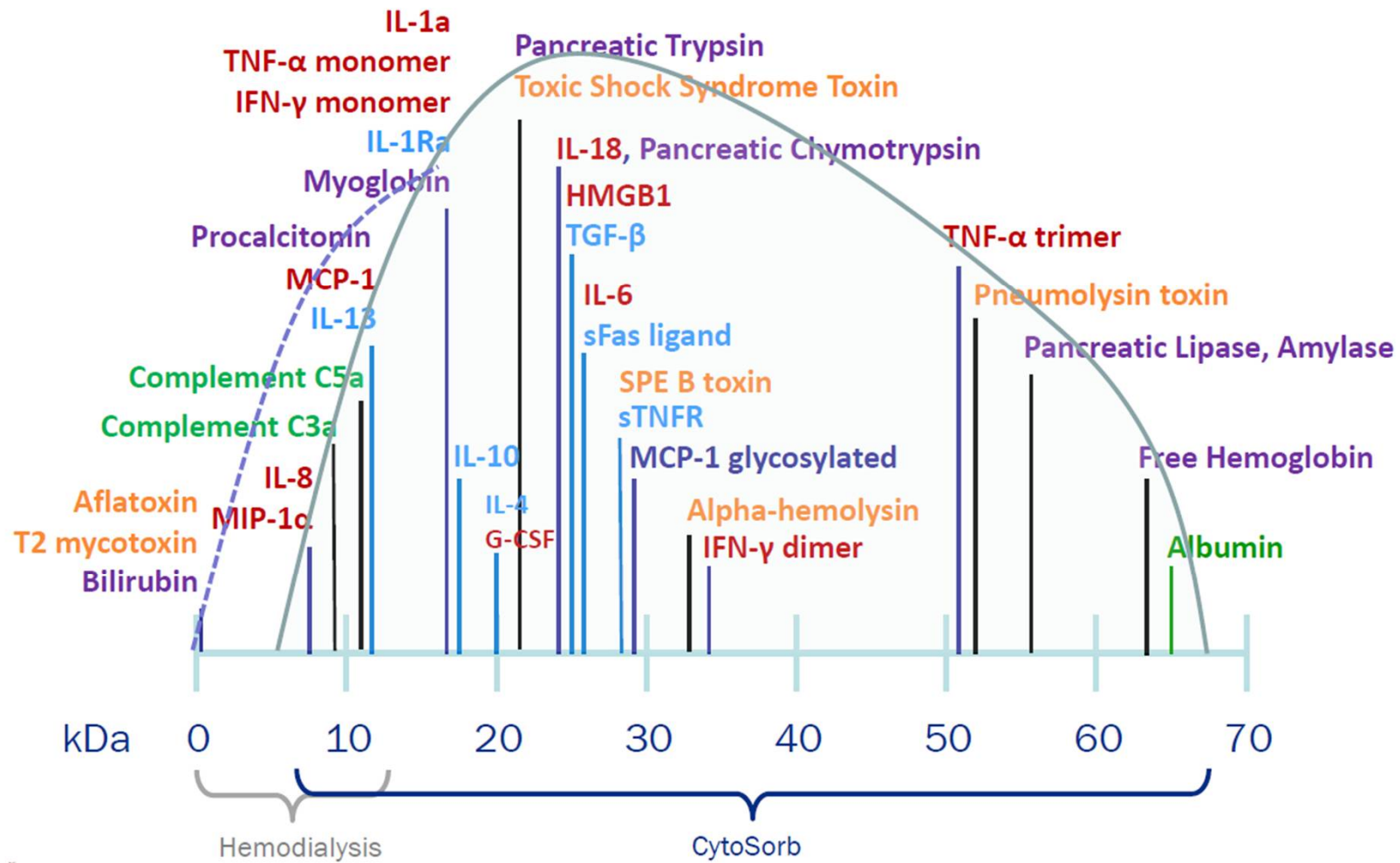


EUPHRATES trial

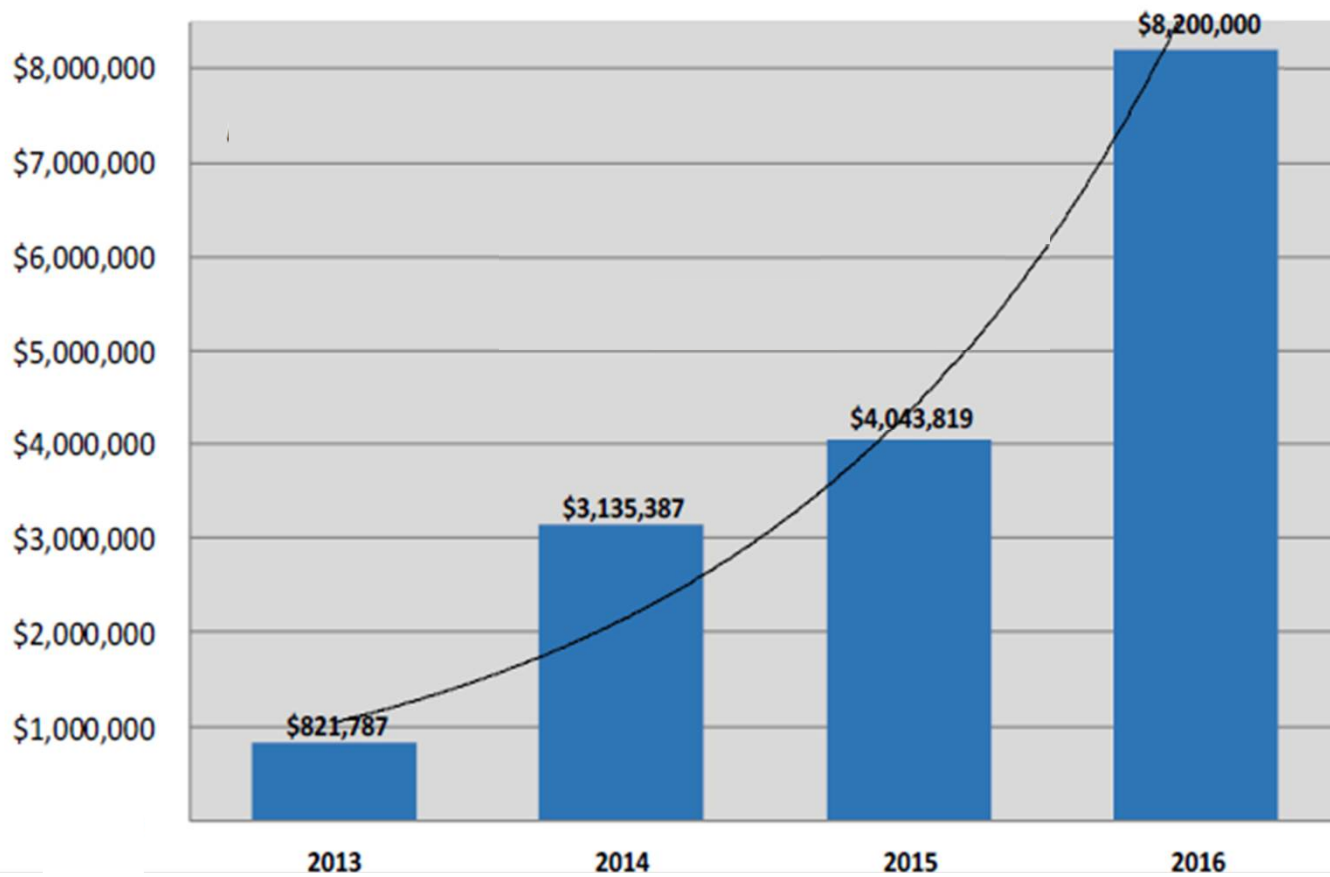
Post hoc analysis n=200

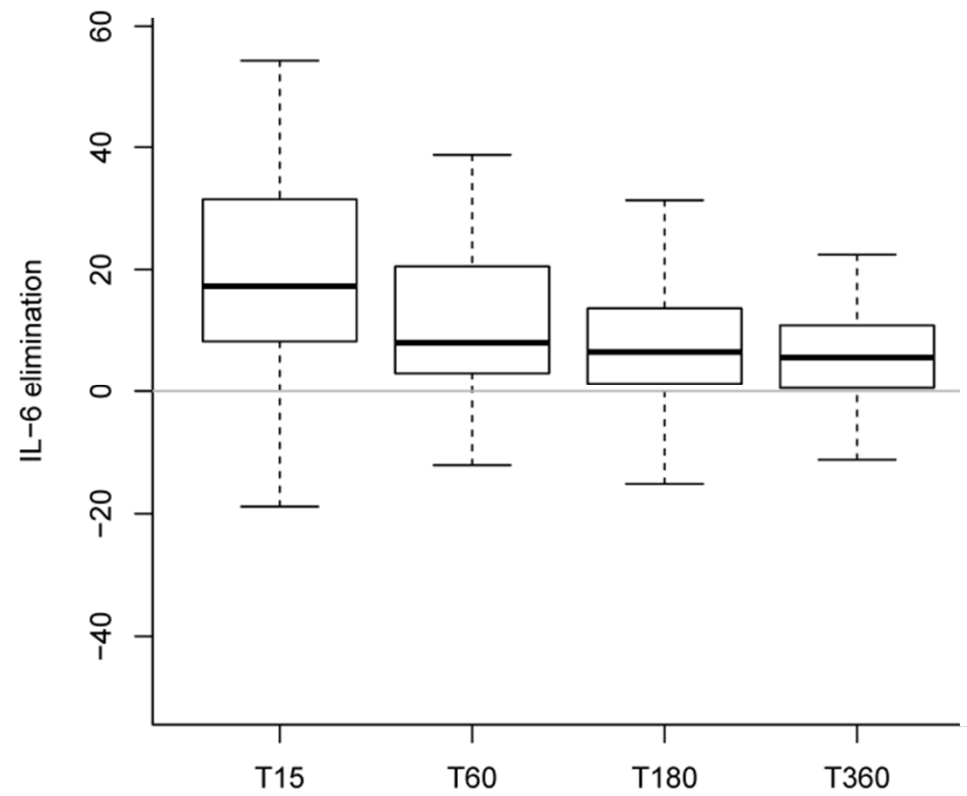


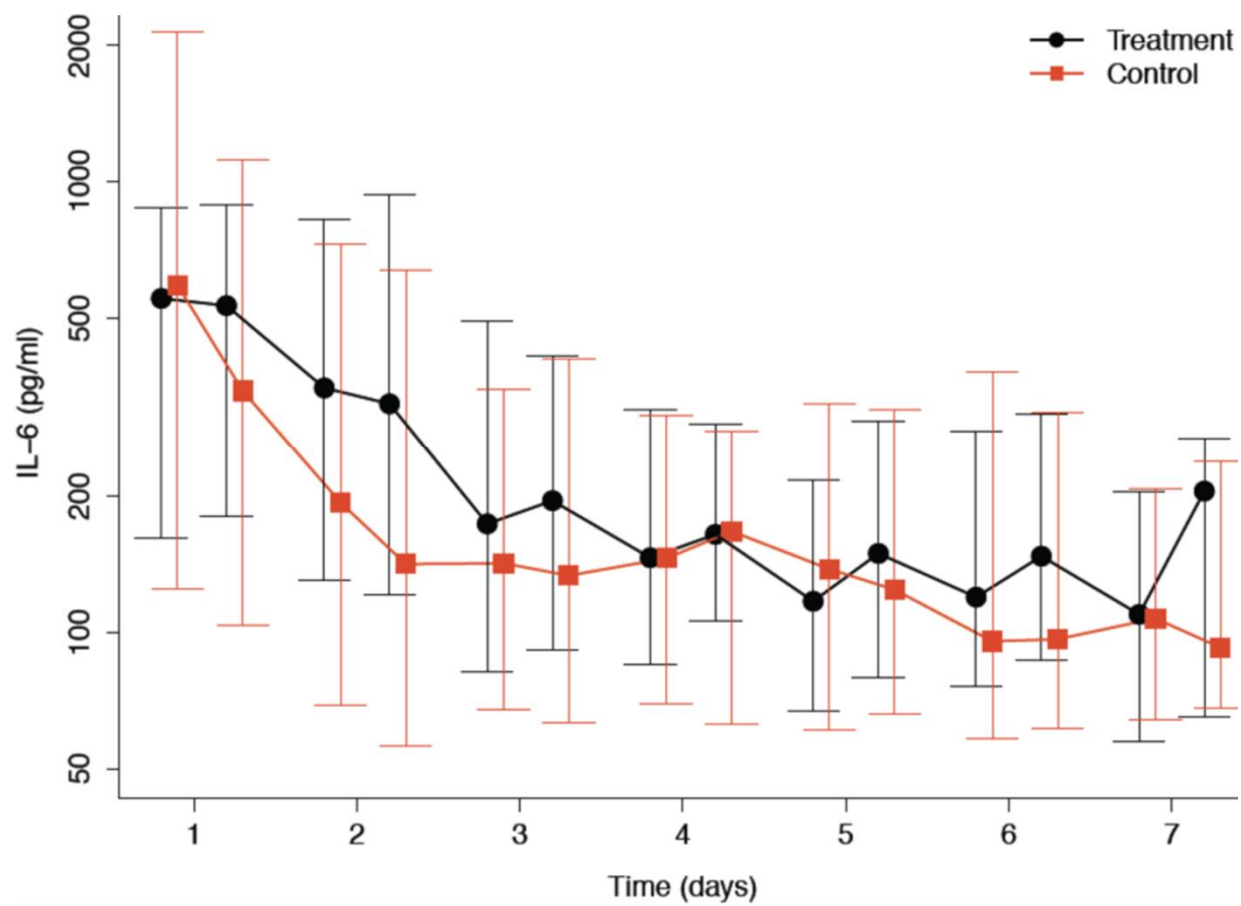


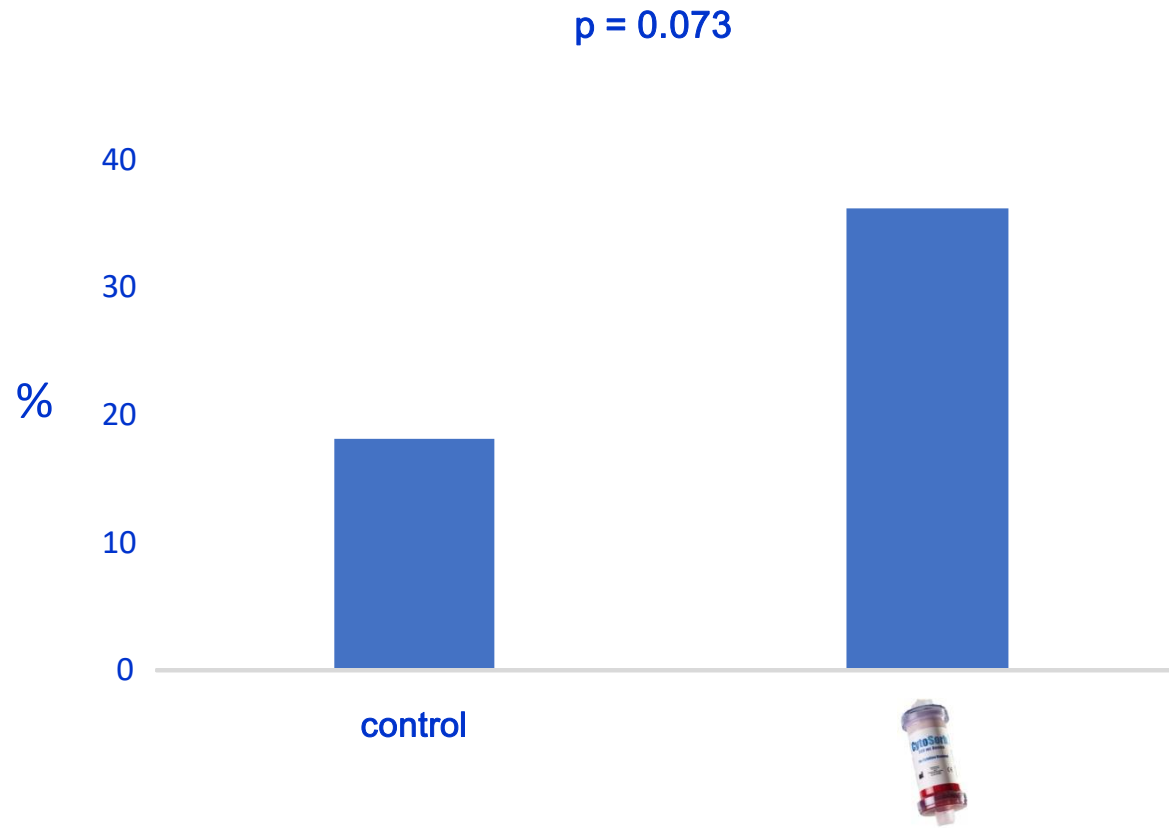








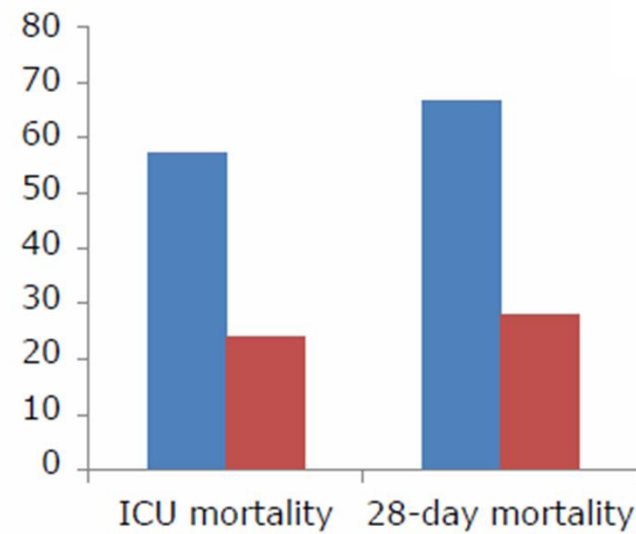
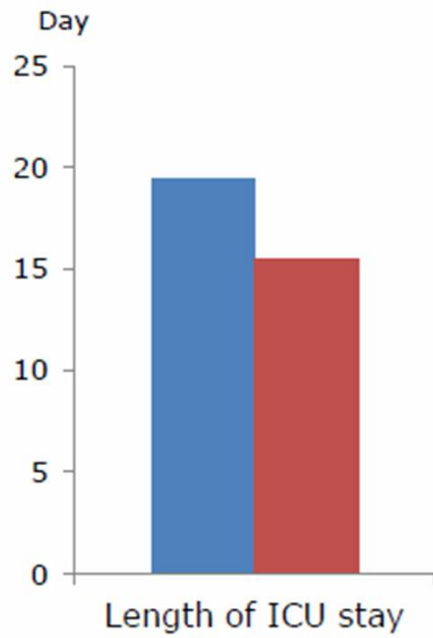






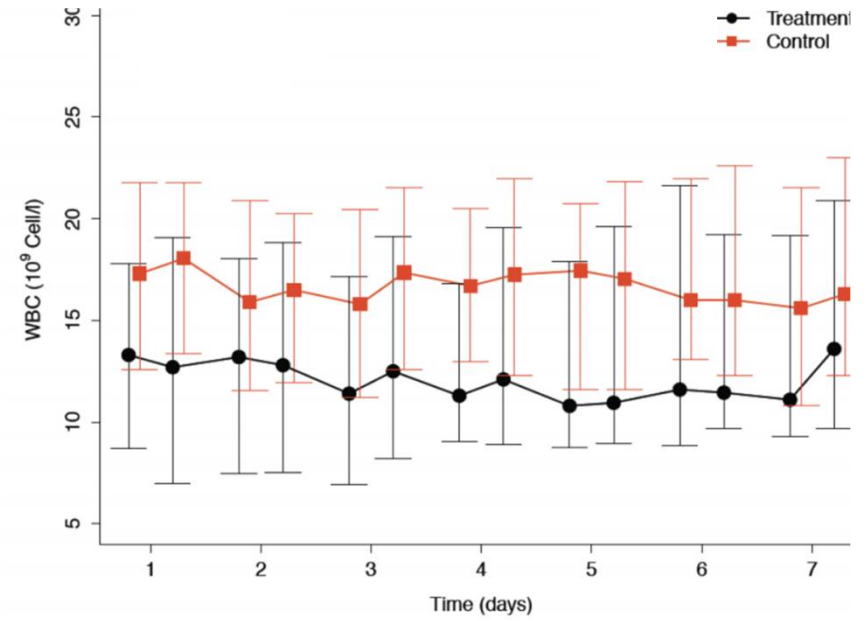
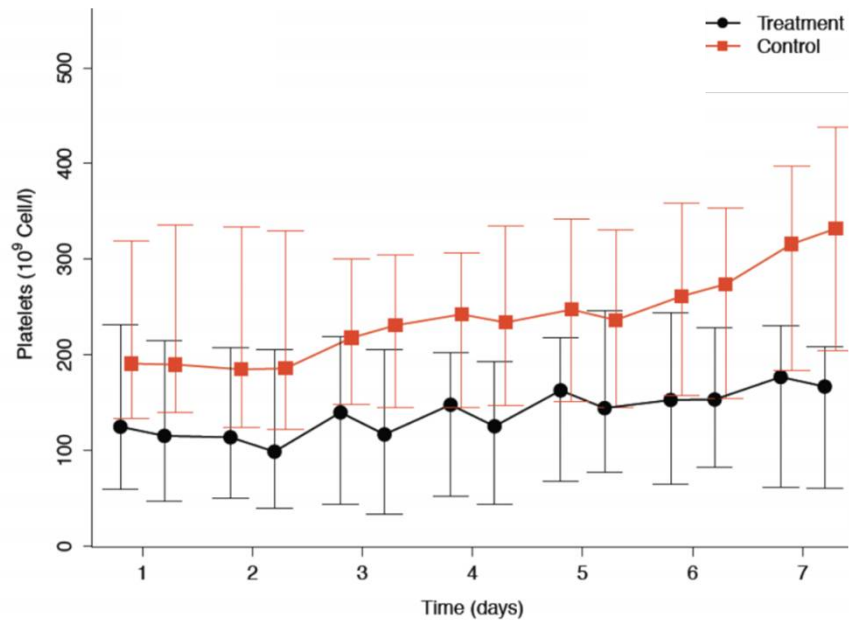


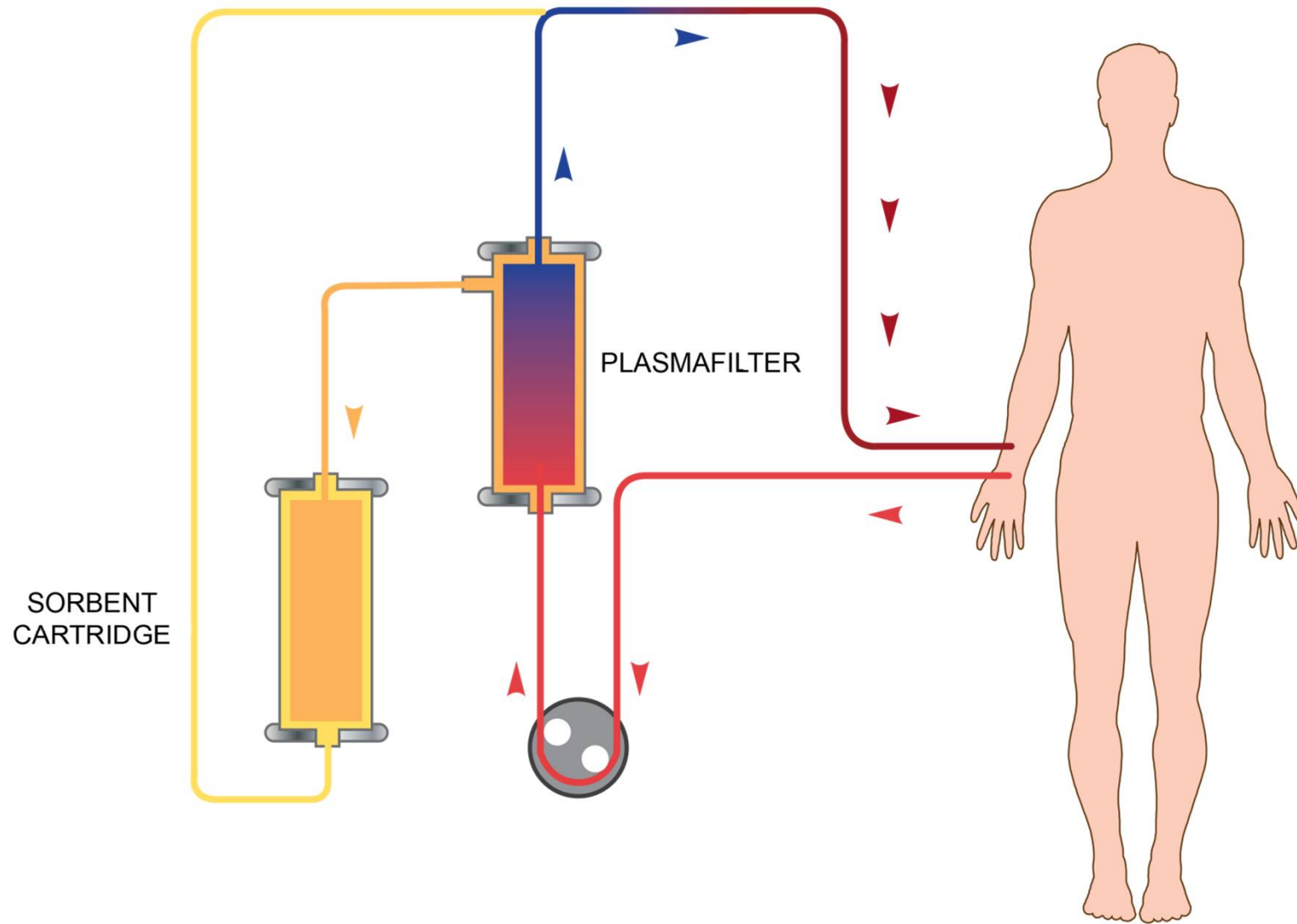
n = 46

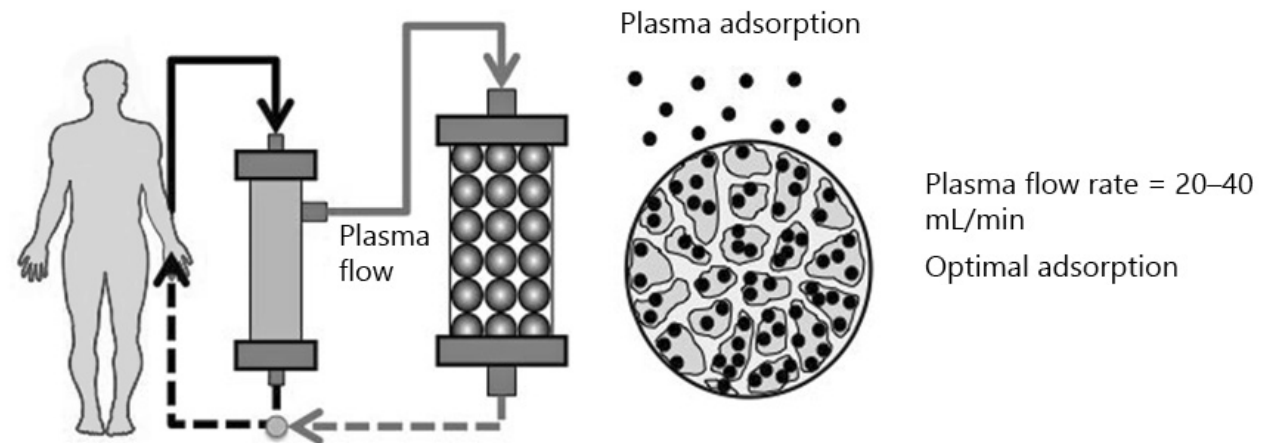
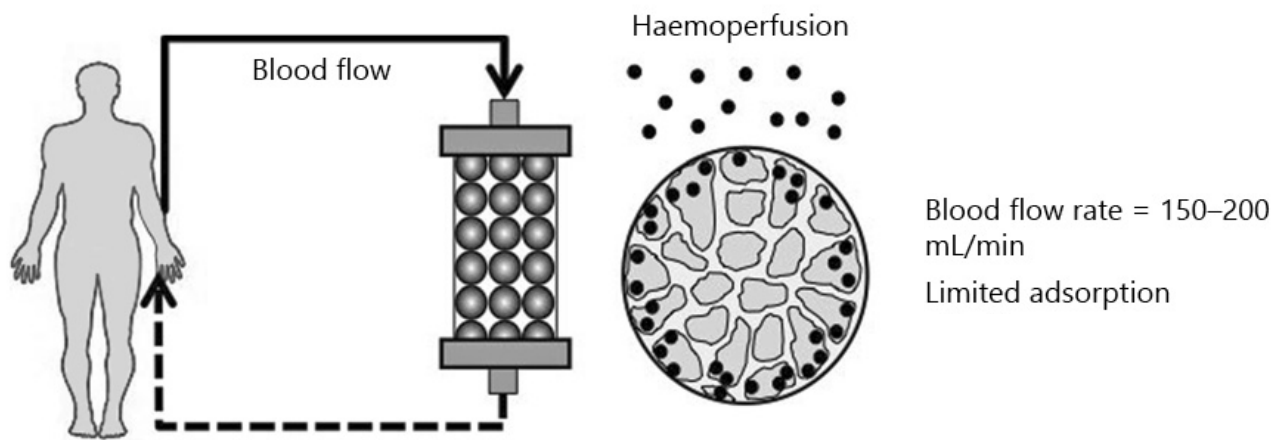


■ controls

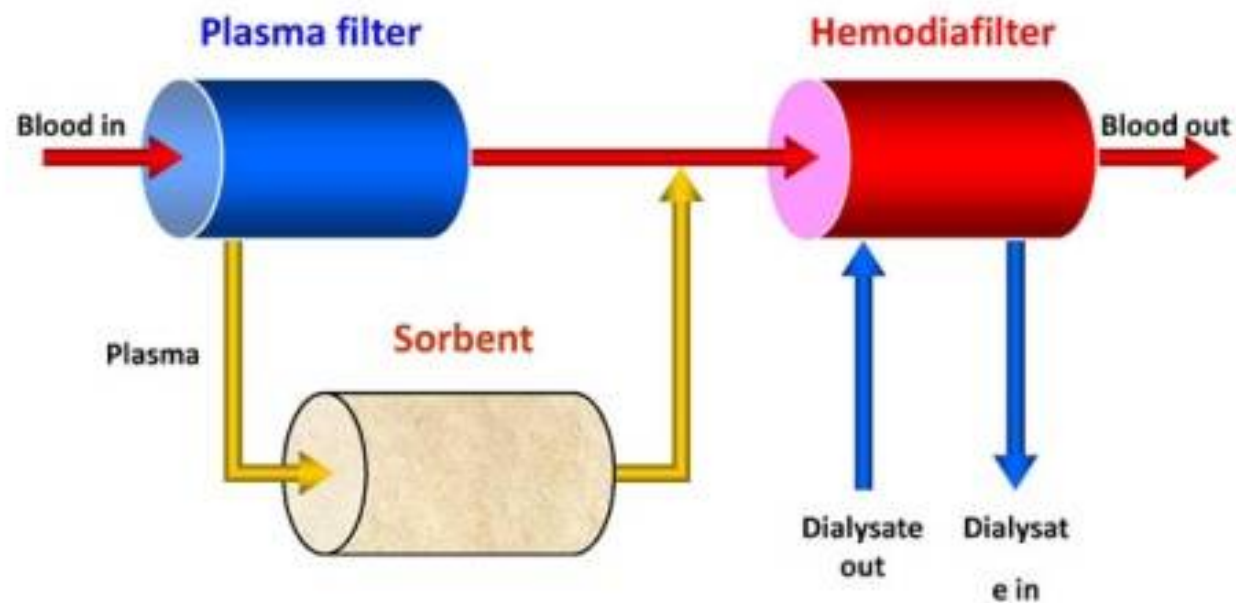






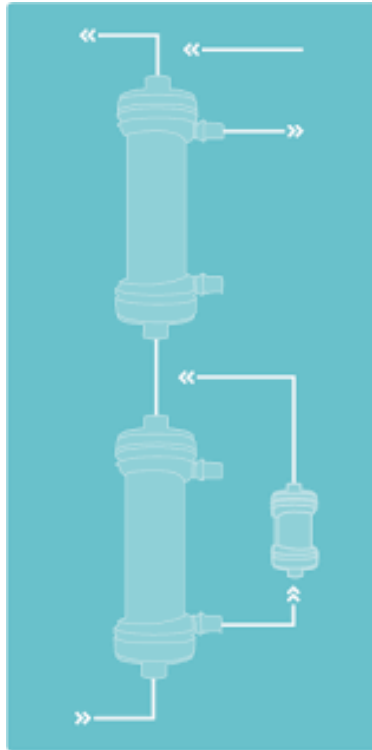


Couple Plasma Filtration Adsorption (CPFA)



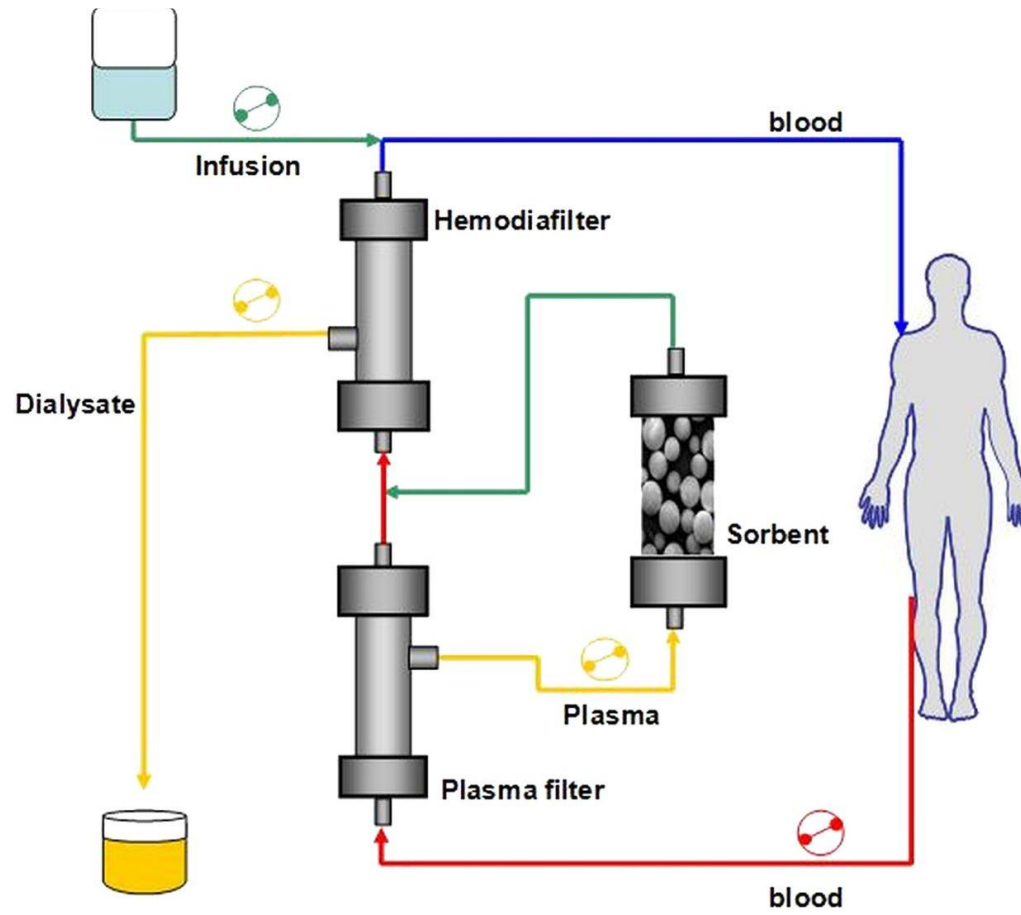
CPFA

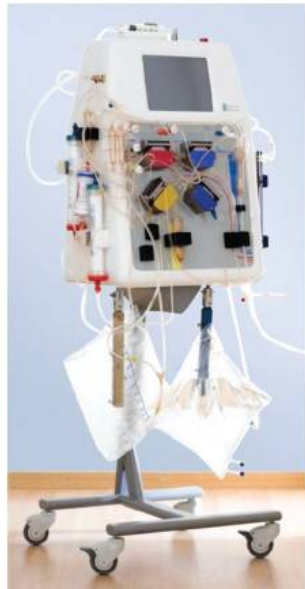
(COUPLED PLASMA FILTRATION ADSORPTION)

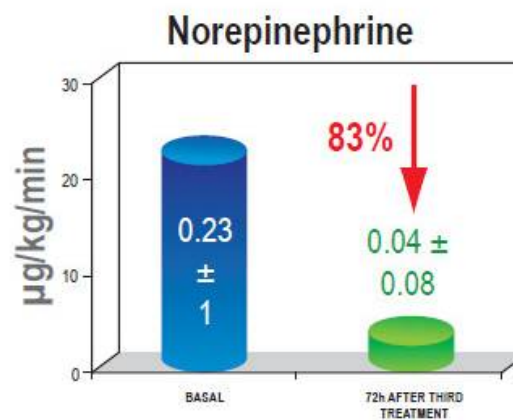
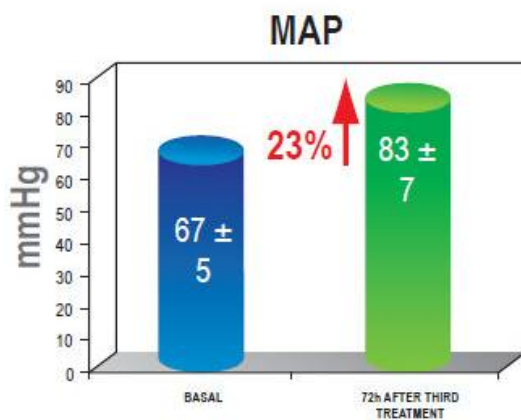
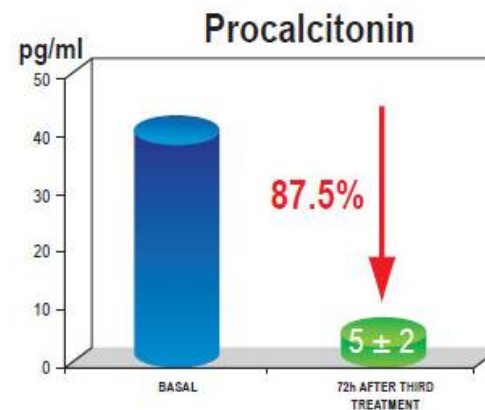
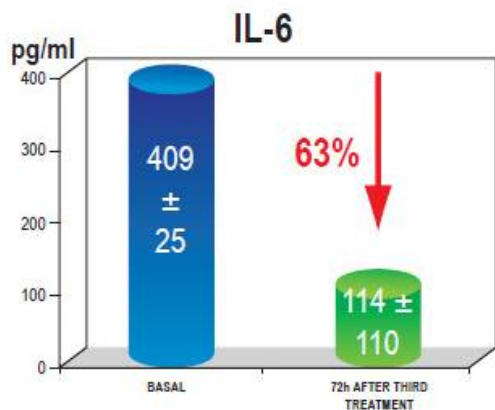


CPFA

(COUPLED PLASMA FILTRATION ADSORPTION)

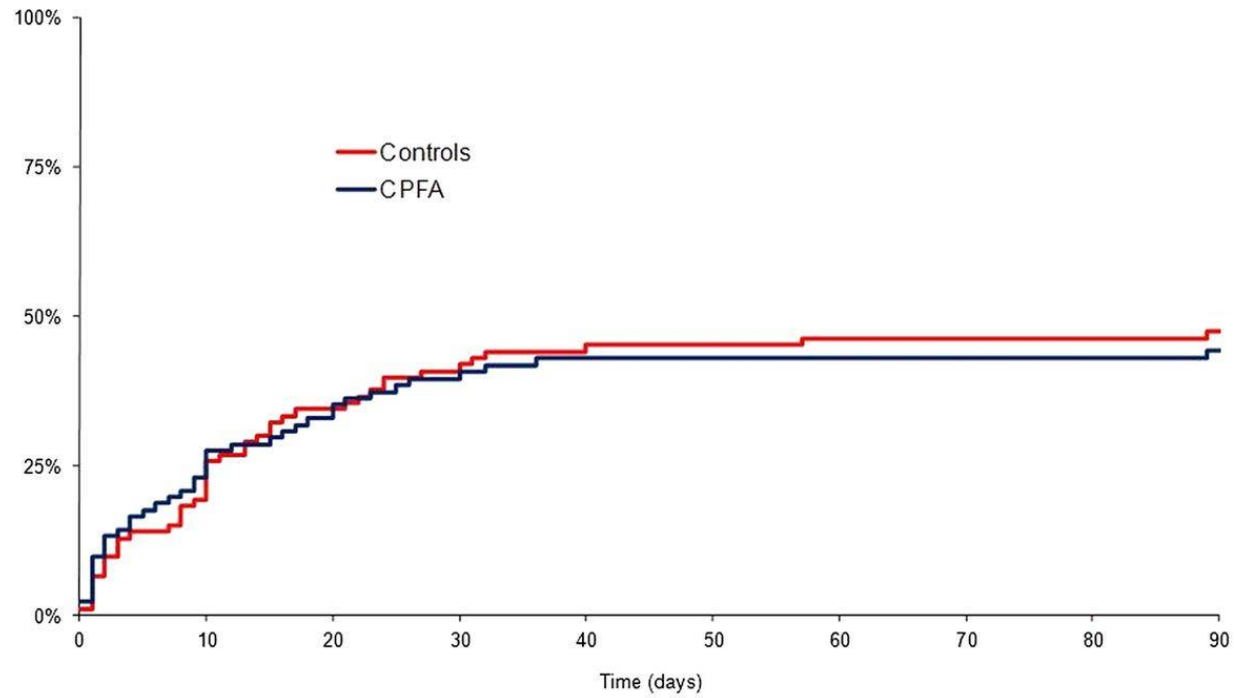


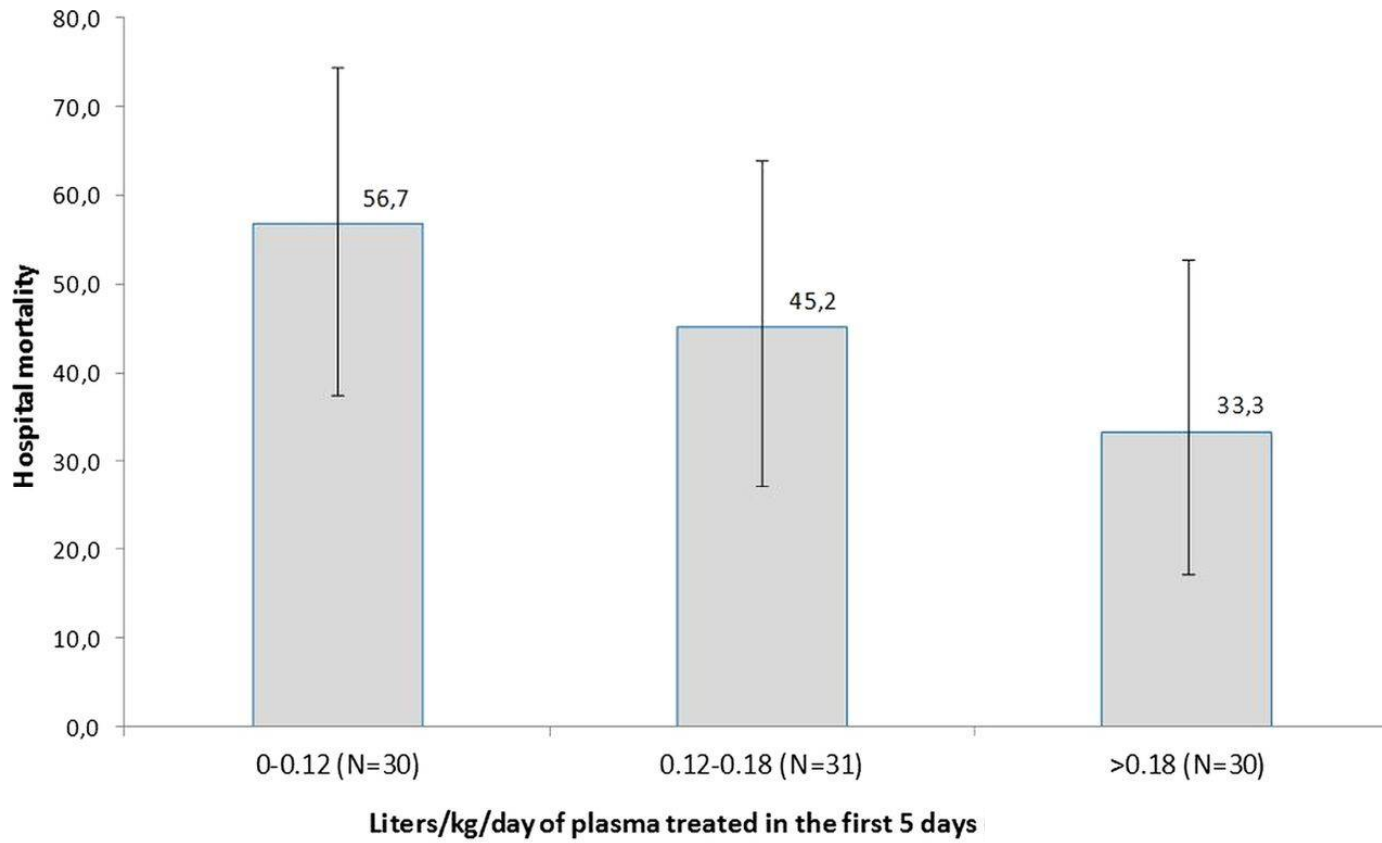




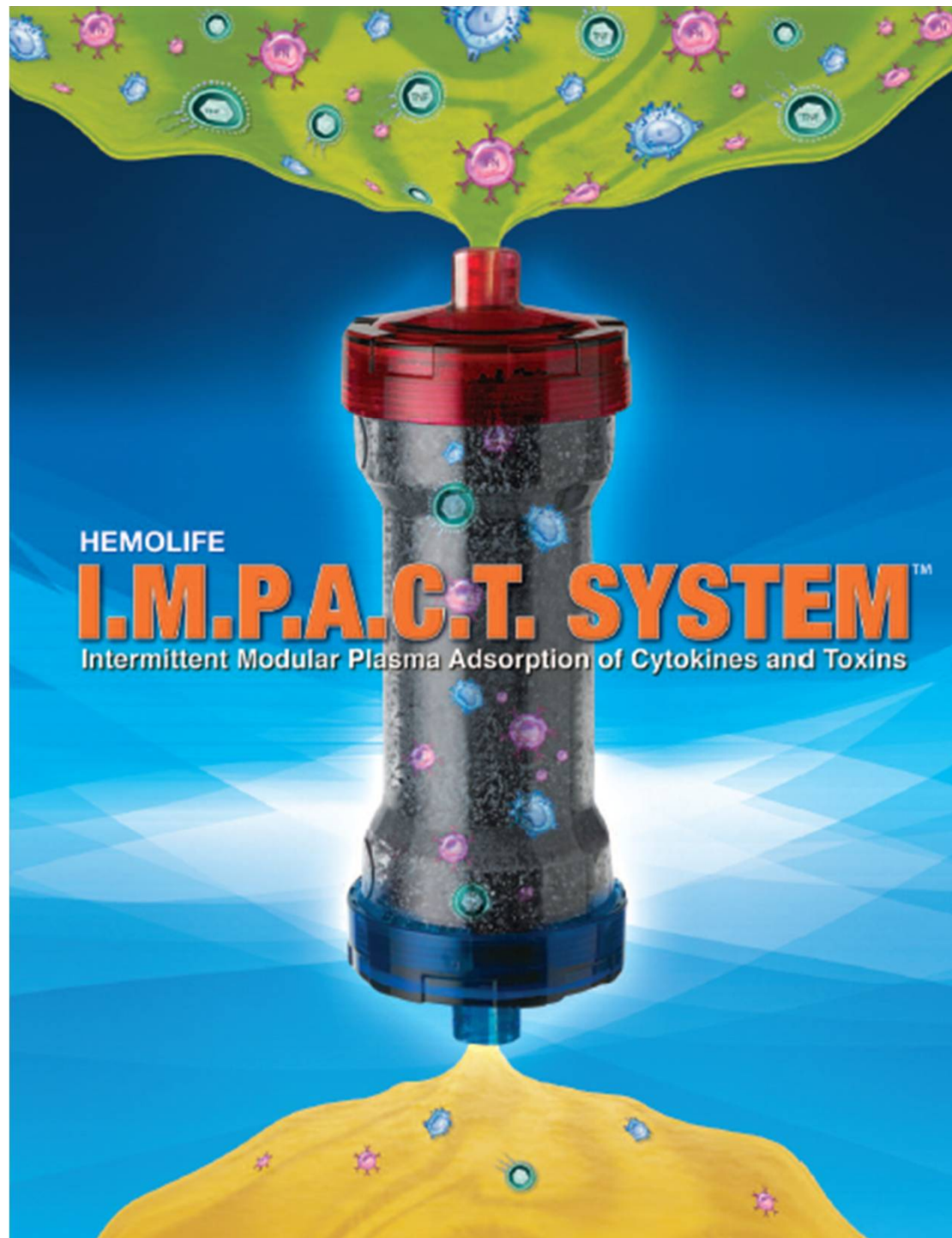
COMPACT

n=192 (330)







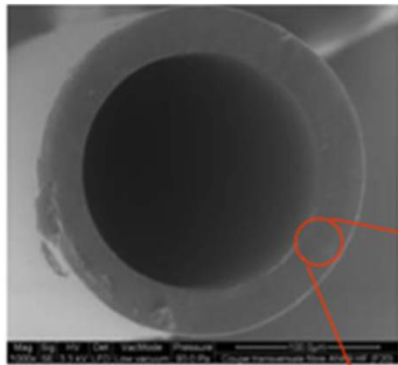


HEMOLIFE

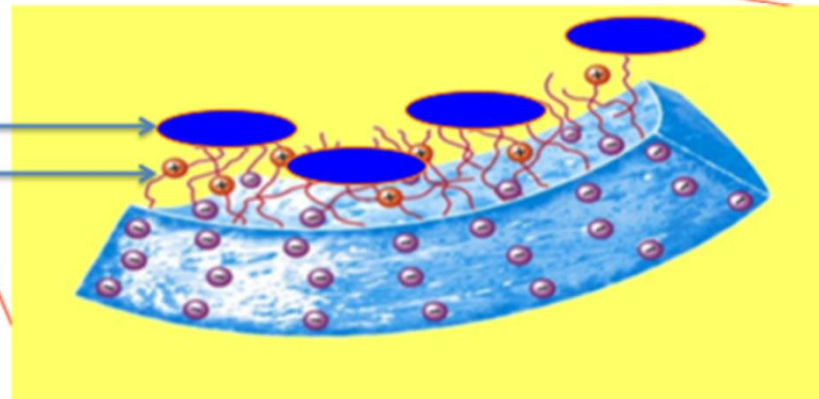
I.M.P.A.C.T. SYSTEM™

Intermittent Modular Plasma Adsorption of Cytokines and Toxins

CytoSorb-XL

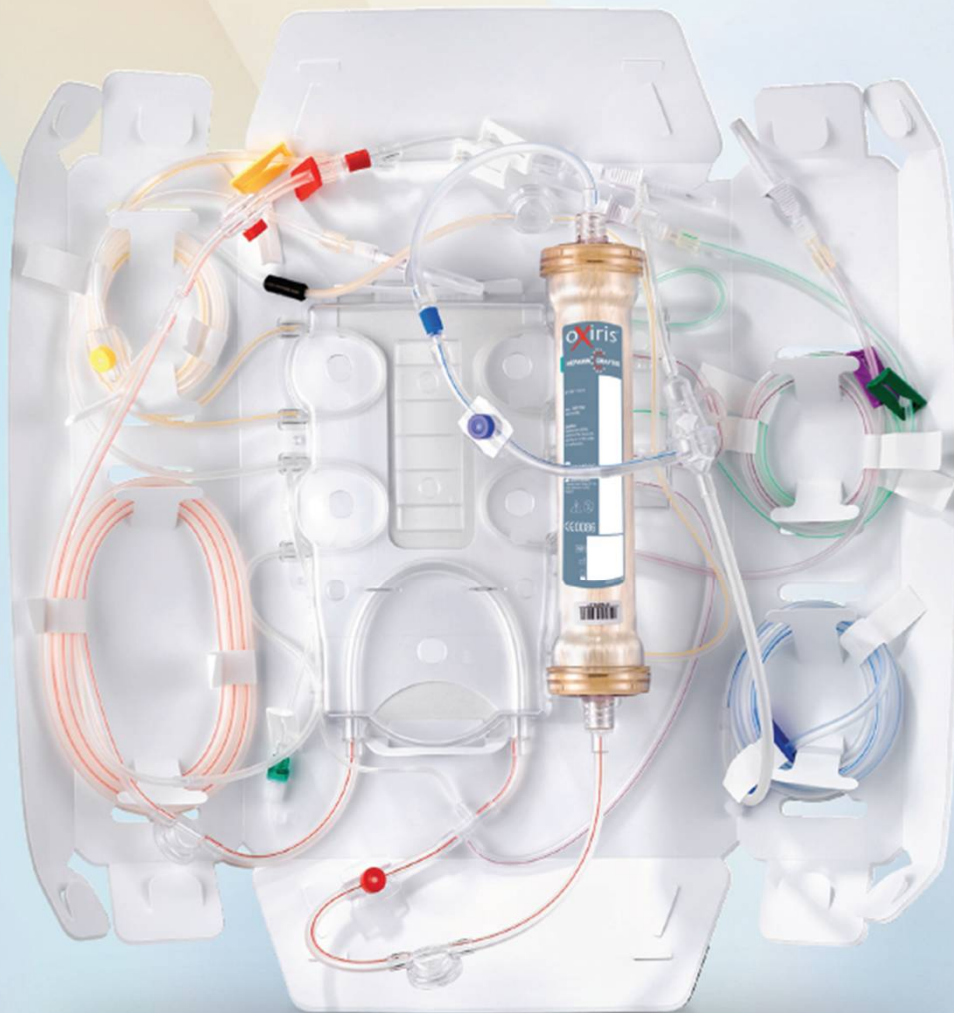


Endotoxin
Polyethyleneimine coating



oXiris set

oXiris set for use with the **Prismaflex** system



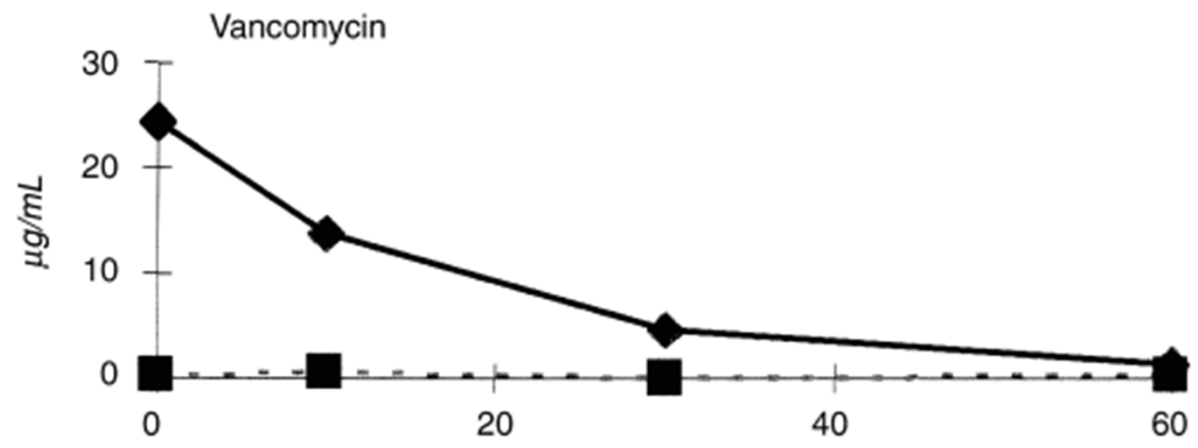




Providing Hope
in a helpless situation



HELPING PATIENTS SURVIVE CRITICAL ILLNESSES WORLDWIDE





VetResQ When Blood Purification is the Best Option
to Treat Deadly Inflammation and Toxic Injury

Sepsis, Septic Shock, Toxic Shock Syndrome • Toxin-Mediated Diseases
Pancreatitis • Trauma • Liver Failure • Lung Injury • Drug Intoxication



VetResQ is a new broad spectrum blood purification filter designed to help treat deadly inflammation and toxic injury in critical illnesses like severe sepsis and septic shock, toxin-mediated diseases, pancreatitis, trauma, liver failure, drug intoxication, lung injury, and others.

Based on an advanced hemocompatible porous sorbent technology that has been used safely in more than 20,000 human treatments, VetResQ reduces a broad range of excessive inflammatory mediators that could otherwise cause direct tissue injury or trigger a deadly pro-inflammatory response syndrome (IRS) that rapidly can lead to multiple organ failure, and death.

- cytokines (excessive pro and anti-inflammatory cytokines)
- bacterial toxins (e.g. toxic shock syndrome toxin, S. aureus hemolysin, fungal mycotoxins like aflatoxin)
- Pancreatic enzymes (severe acute pancreatitis)
- fibrinolytic (kiss-toxin)
- myoglobin (trauma)
- Activated complement (autoimmune diseases)
- lipolytic drugs (accidental drug intoxication)

VetResQ is manufactured and available for veterinary use in the United States in three different sized cartridges (100 ml, 300 ml, and 1000 ml) for the treatment of cats, dogs, horses and animals of comparable size. VetResQ is compatible with standard hemodialysis, continuous renal replacement therapy (CRRT), and hemoperfusion blood purifiers.

For more or for more information, please contact Lee Garcia at lgarcia@qtorbiotech.com or 733-068-5434 or visit www.vetresq.com

VetResQ is for veterinary use only



The image features a classic Looney Tunes ending screen. It consists of a series of concentric circles in shades of red and black, creating a tunnel-like effect. In the center, the text "That's all Folks!" is written in a white, elegant cursive font. The text is positioned diagonally across the center of the circles.

That's all Folks!