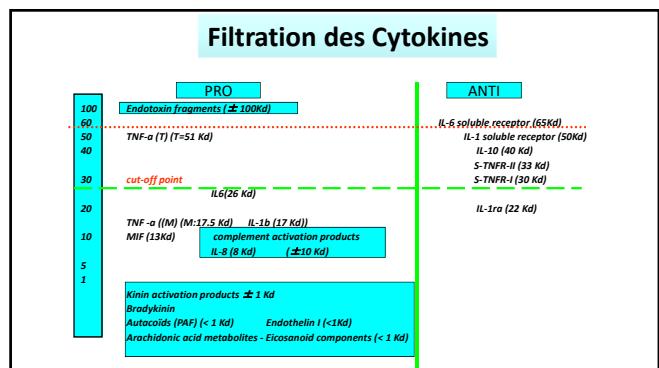
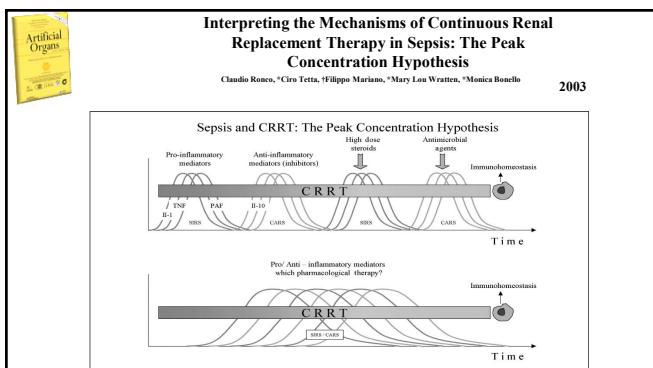
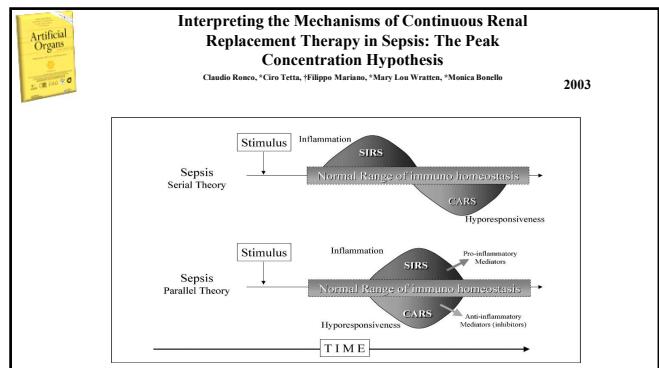
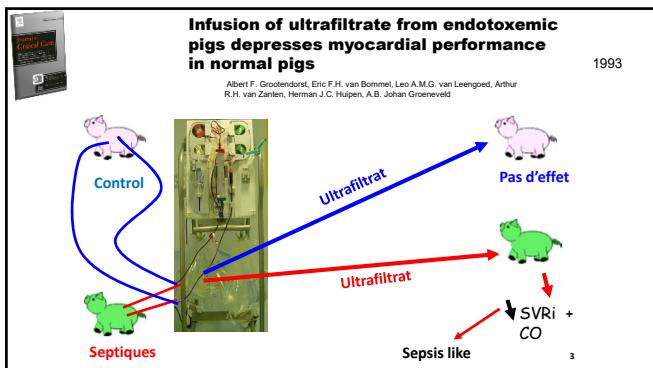
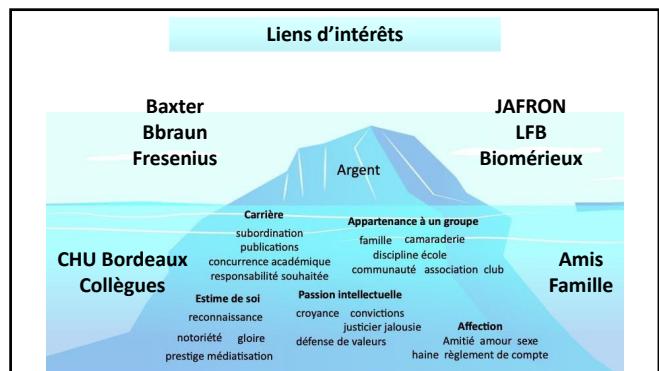


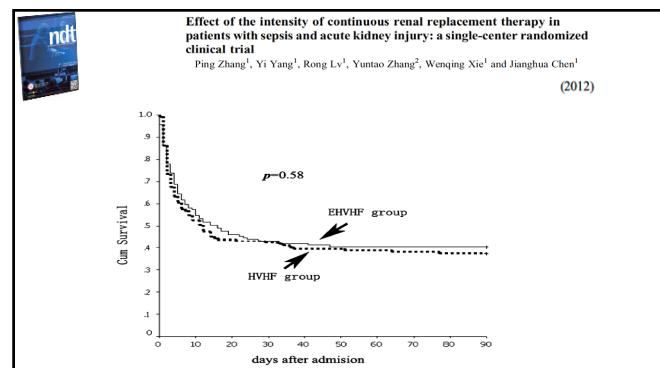
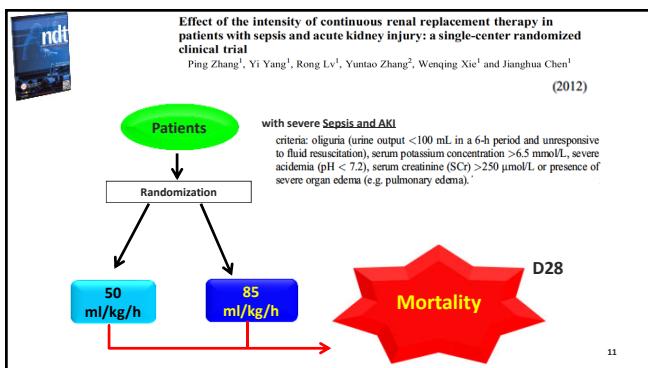
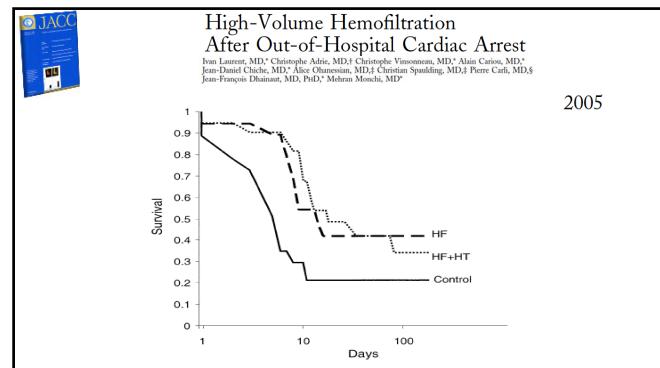
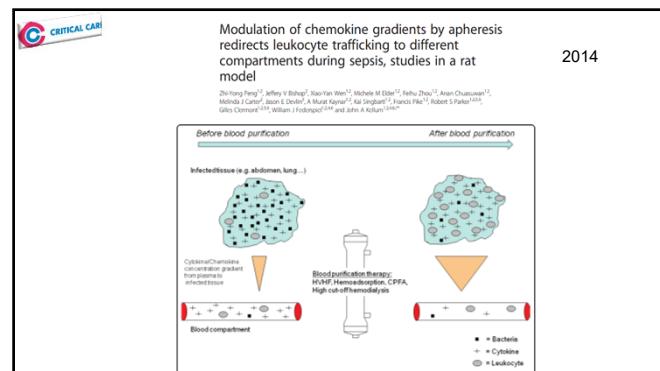
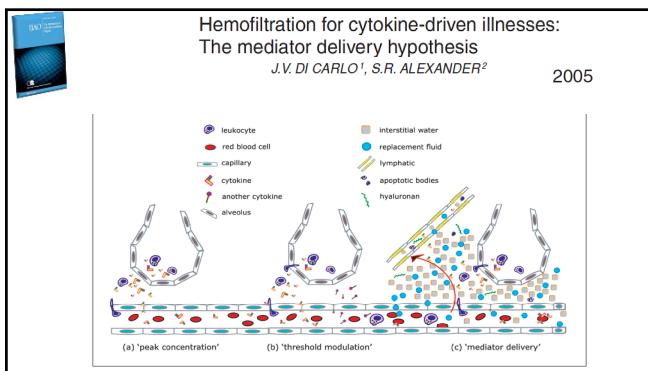
**Epuration et sepsis**

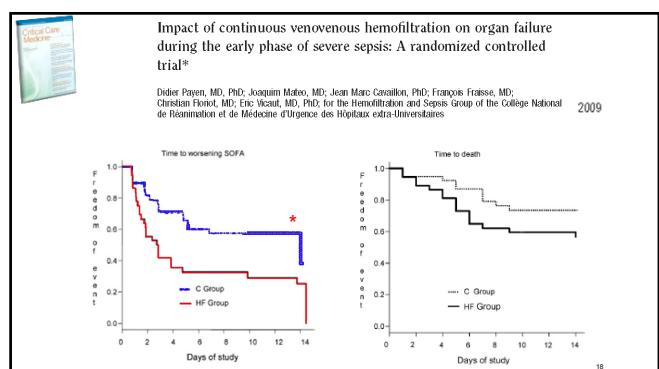
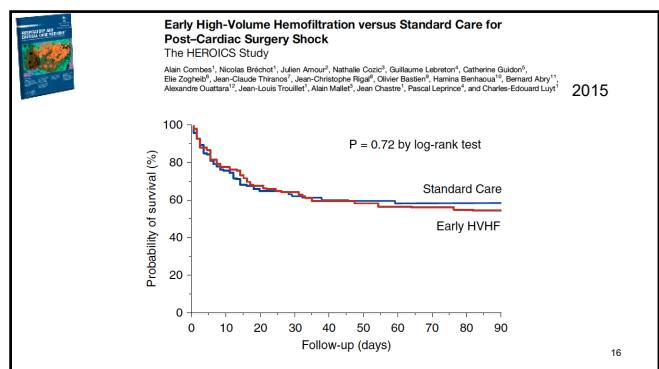
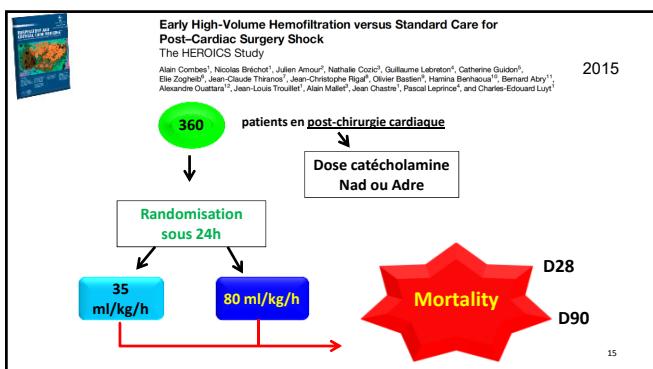
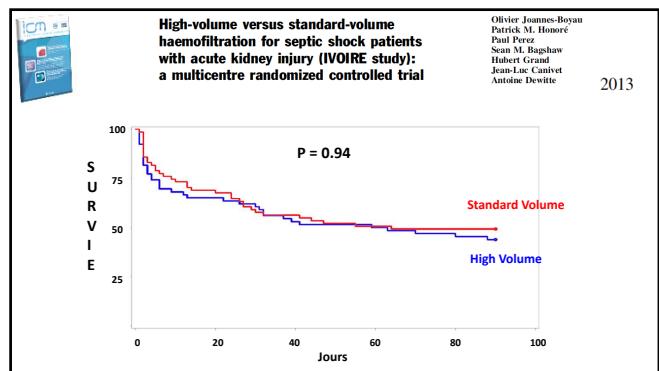
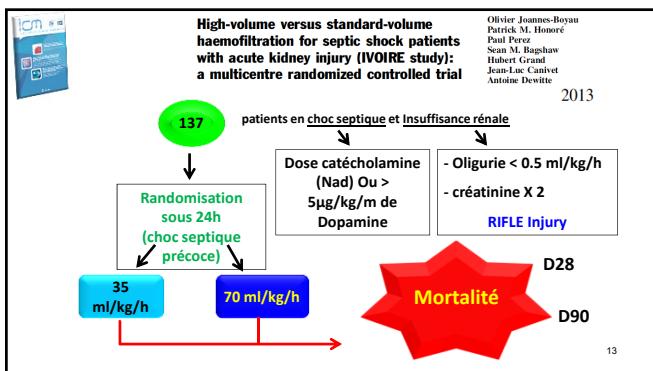
CHU BDX CENTRE HOSPITALIER UNIVERSITAIRE BORDEAUX

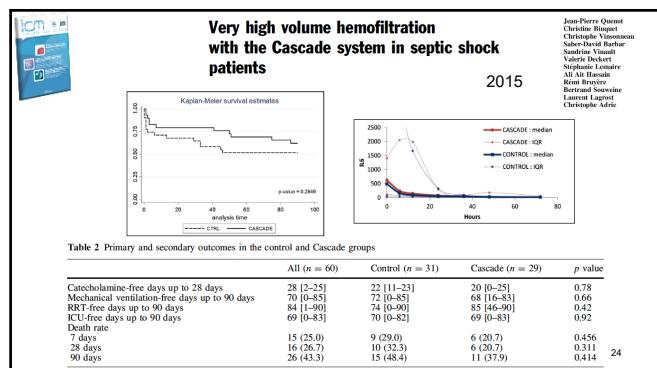
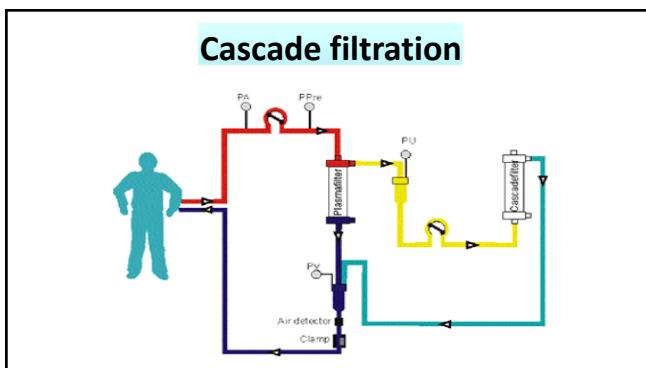
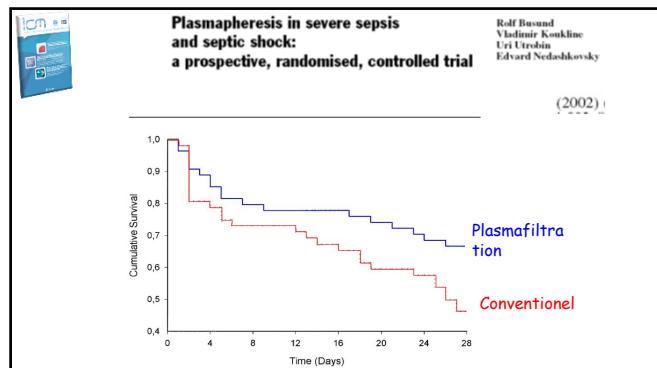
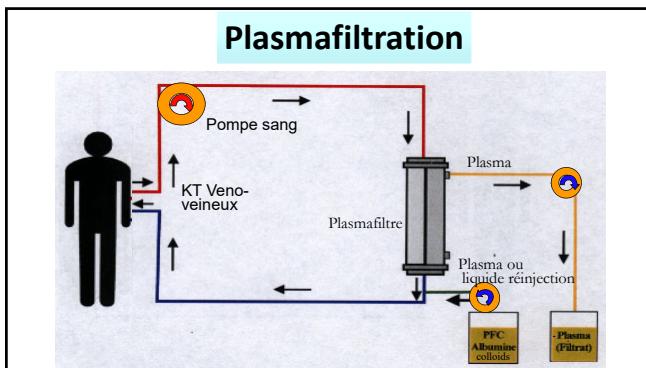
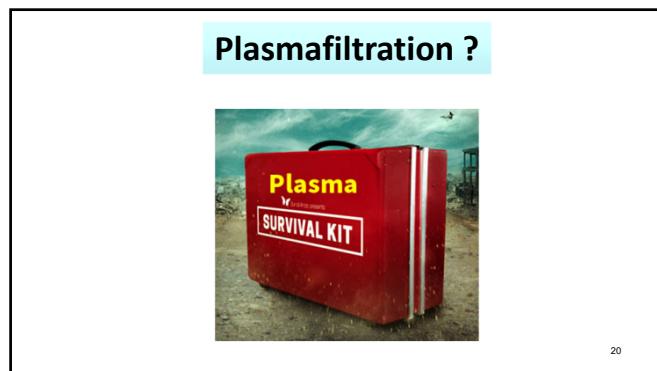
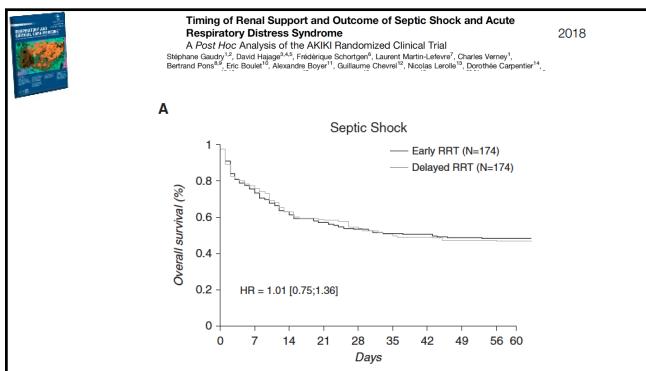
Pr Olivier JOANNES-BOYAU  
Pôle Anesthésie-Réanimation, CHU Bordeaux  
Olivier.joannes-boyau@chu-bordeaux.fr

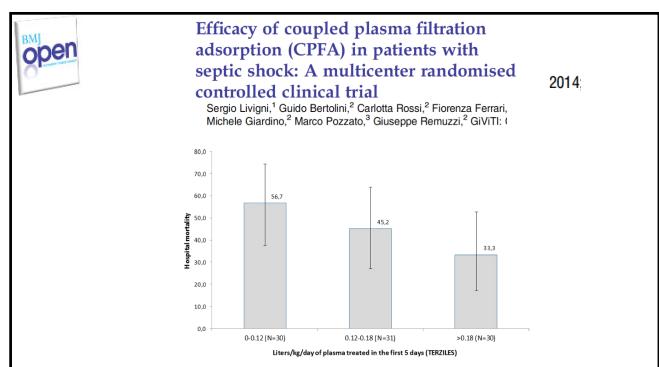
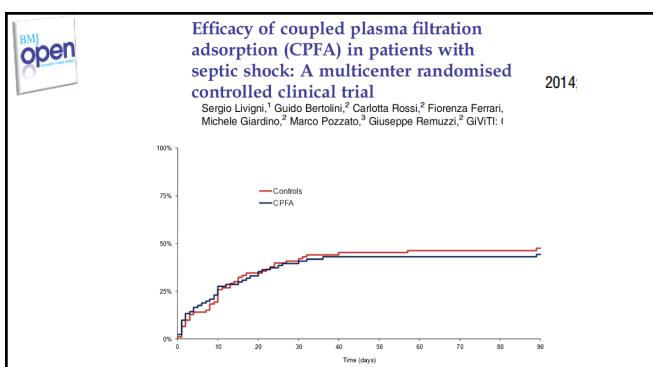
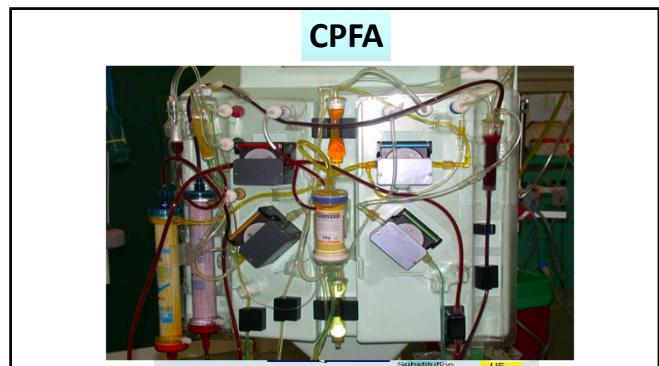
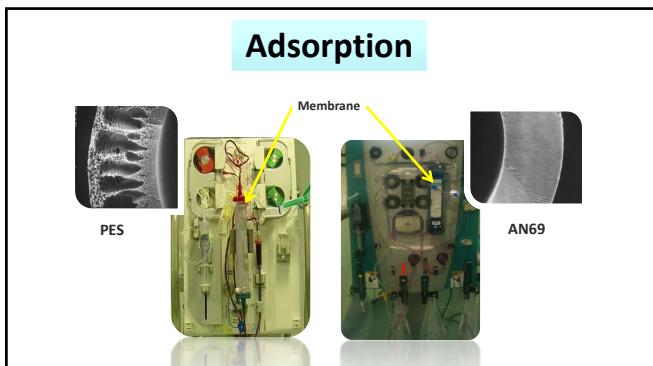
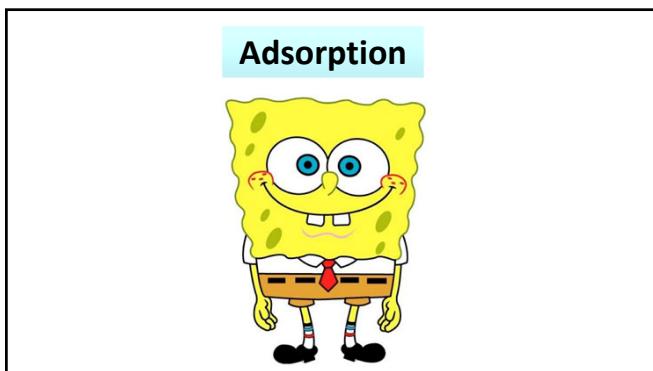
1

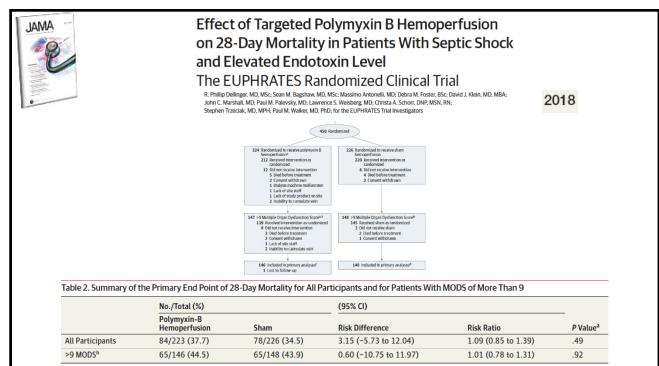
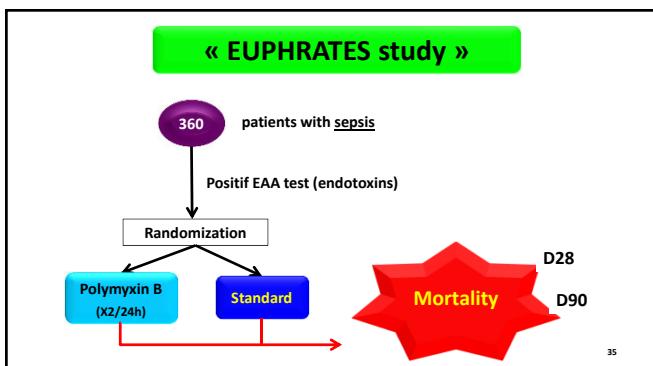
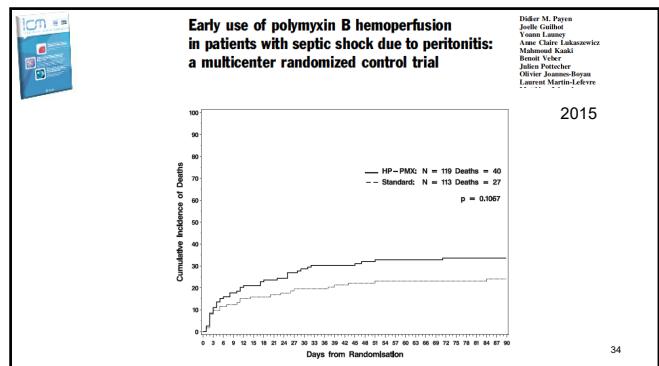
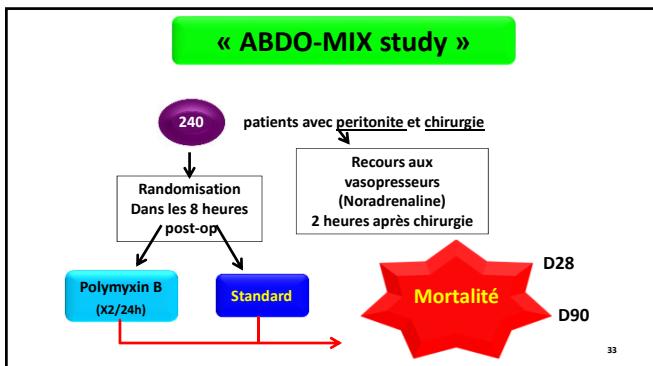
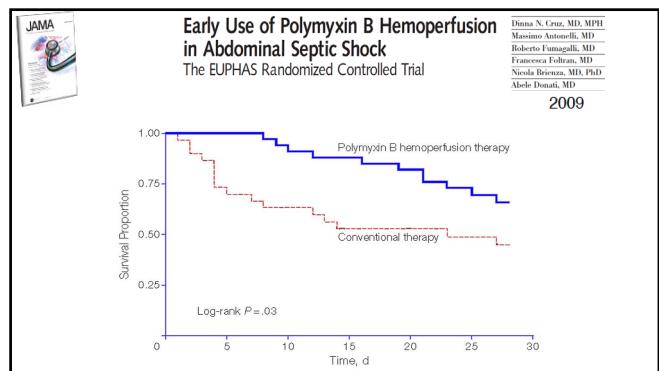
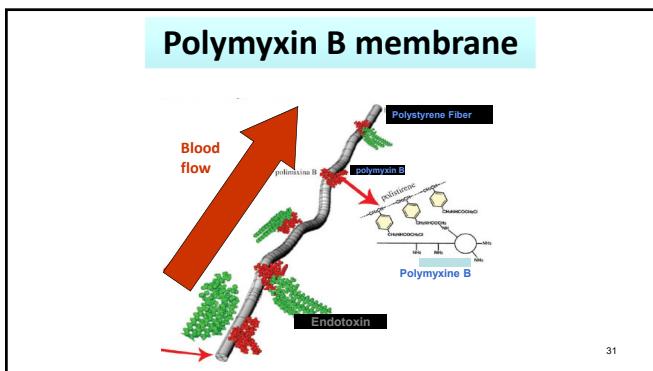


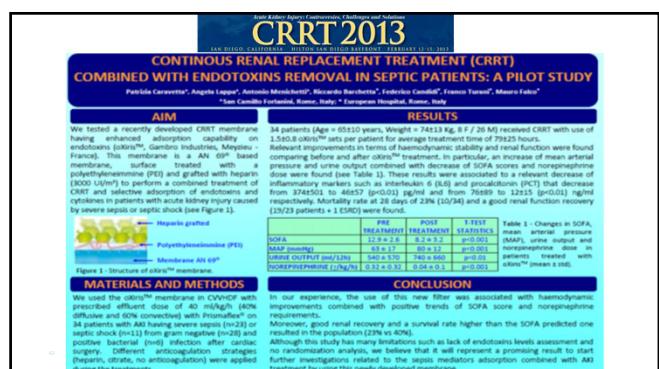
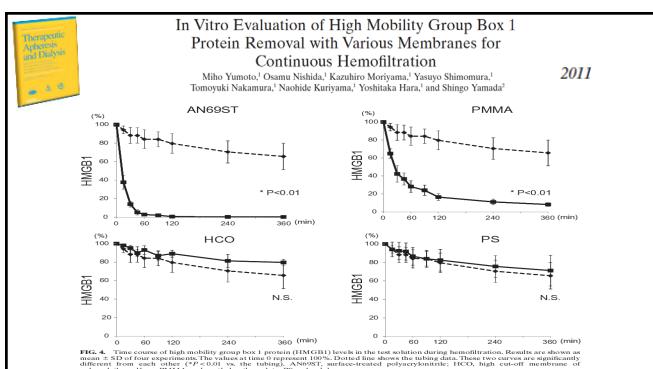
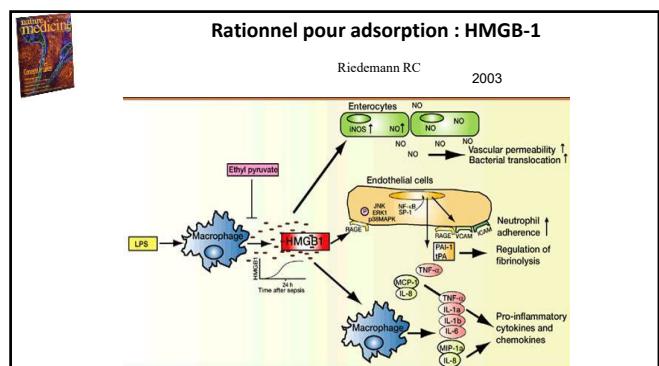
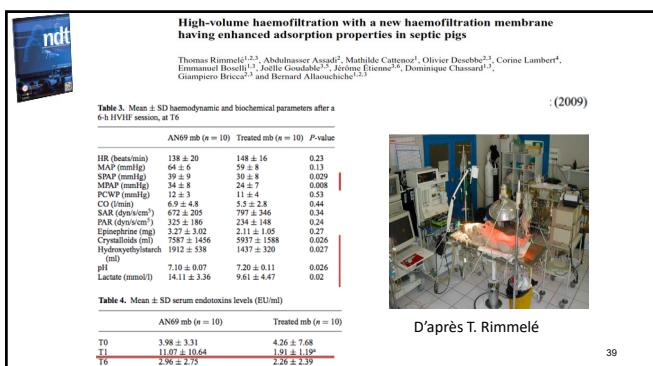
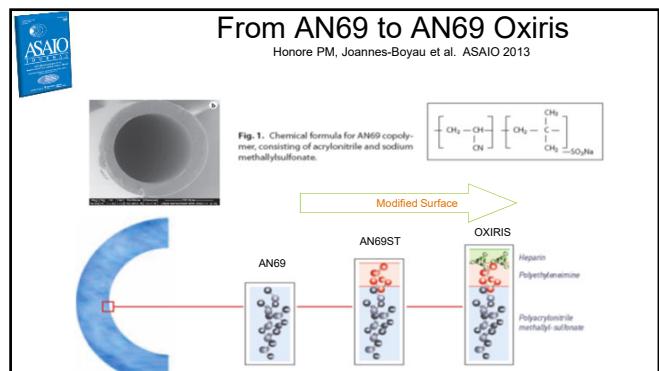
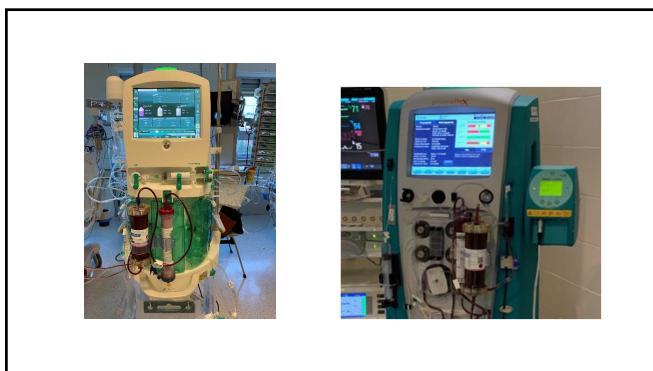












P063 - A642 - Continuous renal replacement therapy with the adsorbent membrane oXiris in septic patients: a clinical experience.  
F. Turani, M. Sartori, R. Bazzetta, E. Grilli, A. Belli, E. Papi, A. Di Marzio, M. Falco  
AURELIA HOSPITAL/EUROPEAN HOSPITAL, Anesthesia Intensive Care, R. Italy

**Introduction:** Renal failure is an important complication of sepsis and CRRT with adsorbing membranes may be useful in this clinical setting. The aims of the study in septic / septicemic patients is to evaluate 1 - the safety of using hemofiltration membranes with adsorbing properties on renal function and endotoxin and hemodynamic response 2 - the changes of endotoxin and pro - inflammatory molecules.

**Methods:** 40 septic / septicemic patients with renal failure were enrolled in the study. All patients had preexisting endotoxin > 0.6 fmol/ml (EA, Spain) and were treated with high volume haemodialfiltration (1.50 ml/kg/h - Prismaflex - Gambro ) with a new treated membrane heparin coated ( oXiris TM - Gambro ) with a new treated membrane heparin coated ( oXiris TM - Gambro ) with a new treated membrane heparin coated ( oXiris TM - Gambro ). At 12 hours after treatment the main clinical and biochemical data were evaluated. All data were expressed as mean SD. ANOVA TEST one way with Bonferroni correction was used to evaluate the data changes. P < 0.05 was considered significant.

**Results:** In septic shock patients with renal failure CRRT with a new treated membrane heparin coated ( oXiris TM - Gambro ) is clinically feasible , has a positive effect on renal function and hemodynamic. An anti endotoxin effect on pro - inflammatory markers seems to have a role in these results. These data and the trend toward a decrease of endotoxin during the treatment warrant further investigation.

**References:**  
1. Rennelkamp T et al. Nephrol Dial Transplant 2009 , 24: 421-427.

Table 1:

Parameters	Units	T0	T1	p
Creatinine	mg/dl	1.9±1	1.18±1	p< 0.05
Diasisis	ml/24.H	120±77	157±96	
Norepinephrine	mcg/Kg/min	0.17±2	0.06±1	p< 0.05
IL6	pg/ml	572±76	278±57	p< 0.05
Procalcitonine	ng/ml	35±5	15±2	p< 0.05
Endotoxin	Level/U	0.64±0.2	0.49±0.1	

## High cut-off membrane

SEPTEX® et EMIC2®



Albumine ?

44

**A Double-Blind Randomized Controlled Trial of High Cutoff Versus Standard Hemofiltration in Critically Ill Patients With Acute Kidney Injury**

Rafidah Atan, PhD<sup>1</sup>; Leah Peck, GradCertCrit Care<sup>2</sup>; John Prootle, MD<sup>3</sup>; Elisa Licari, MD<sup>4</sup>; Glenn M. Eastwood, PhD<sup>5</sup>; Markus Storr, PhD<sup>6</sup>; Hermann Goehl, MSC<sup>7</sup>; Rinaldo Bellomo, MD<sup>3,8</sup>

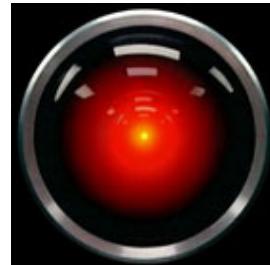
2018

Figure showing the rate of noradrenaline infusion over time (D1 to D7) for CVVH-Std and CVVH-HCO groups. The CVVH-HCO group shows a significantly lower rate of noradrenaline infusion compared to the CVVH-Std group ( $p=0.05$ ).

Table showing outcomes for ICU mortality and Hospital mortality between the two groups.

Outcomes	Continuous Venous Venous Hemofiltration (CVVH) High Cutoff, n (%)	Continuous Venous Venous Hemofiltration (CVVH) Standard, n (%)	Unadjusted OR (95% CI)	Adjusted OR (95% CI)
ICU mortality	18 (30)	12 (31.0)	2.17 (0.86-5.68); $p=0.109$	2.13 (0.81-5.66); $p=0.110$
Hospital mortality	20 (55.6)	13 (34.2)	2.40 (0.94-6.15); $p=0.007$	2.49 (0.91-7.95); $p=0.012$

Futur ?



**Hemoabsorption removes tumor necrosis factor, interleukin-6, and interleukin-10, reduces nuclear factor- $\kappa$ B DNA binding, and improves short-term survival in lethal endotoxemia\***

John A. Kellum, MD, FCCM; Mingchen Song, MD, PhD; Ramesh Verkaraman, MD

2004

Figure showing the concentration of NF- $\kappa$ B in liver tissue for Sham and CytoSorb groups. The CytoSorb group shows a significantly lower concentration of NF- $\kappa$ B compared to the Sham group (\*).

Figure showing gel electrophoresis bands for NF- $\kappa$ B DNA binding in liver tissue for Sham and CytoSorb groups. Lanes 1 and 2 represent Sham, lanes 3 and 4 represent CytoSorb.

Epuration du NF $\kappa$ B du tissu hépatique

47

**Blood Purification With CytoSorb in Critically Ill Patients: Single-Center Preliminary Experience**

\*Maria Grazia Calabro, \*Daniela Febris, \*Gaia Recca, \*Rosalba Lembo, \*Evgeny Fominsky, \*Anna Mara Scandroglio, \*Alberto Zangrillo, and \*Federico Pippalardo

2018

Figure showing a dialysis machine setup with a CytoSorb filter connected to the circuit.

Values	Peak during treatment	End of treatment	P value
Total bilirubin (mg/dL)	11.6 ± 9.2	6.8 ± 5.1	0.005
Lactate (mmol/L)	12.1 ± 8.7	2.9 ± 2.5	<0.001
CPK (U/L)	2416 (670–8615)	281 (44–2769)	<0.001
LDH (U/L)	1230 (860–3157)	787 (536–1148)	<0.001

