

Extending the performance of Hemodialysis

EMV Technologies' nano-porous ceramic membrane offers the following advantages over current polymer membranes:

- Higher porosity
- Higher selectivity of toxin removal
- Higher toxin removal rate
- Minimal albumin leakage

These advantages may lead to potential benefits including:

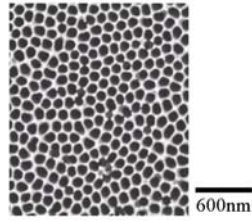
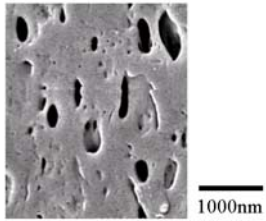
- Shorter treatment time
- Improved survival rate
- Improved re-usability
- Better quality of life

EMV Technologies, LLC
2008

EMV
TECHNOLOGIES, LLC

Nanotechnology Meets Dialysis





A DIFFERENCE YOU CAN SEE: EMV's patent pending nano-porous ceramic membrane (right) offers a higher porosity and pore size selectivity than the current synthetic polymer membranes used in Hemodialysis (left).

Leading a Kidney Revolution

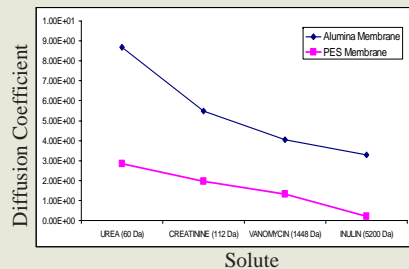
EMV Technologies, LLC, in collaboration with Lehigh and Widener Universities has been performing research and development on a novel nano-porous membrane for biological fluid separation applications. The main focus of the research has been to improve the performance of membranes used in Hemodialysis (kidney dialysis).

GROWING MARKET DEMAND

End Stage Renal Disease (ESRD) affects over 400,000 Americans each year and the number is growing due to an increased prevalence of diabetes and hypertension. The dialysis routine of three times a week and three hours each session is debilitating to the patient's lifestyle. Additionally, the survival rate of Hemodialysis has not changed in 30 years and remains at a dismal 5 years. Medicare expenditures on ESRD patients totaled over \$20 billion in 2005.



Prototype hemodialyzer module developed by EMV



Comparison of solute clearance of ceramic vs. polyethersulfone (PES) membrane

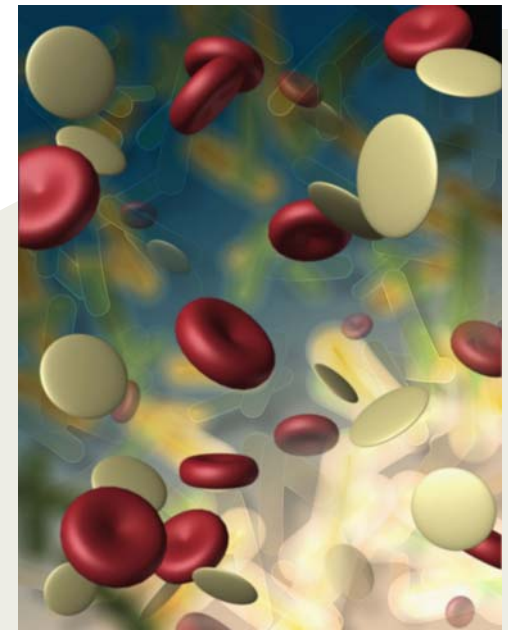
DOUBLE THE PERFORMANCE

EMV has received funding from the National Institutes of Health to develop the nano-porous membrane technology. Lab-scale testing on the membranes has shown an improvement of more than double the solute clearance of toxins targeted in Hemodialysis.

ALTERNATIVE APPLICATIONS

EMV is currently developing the nano-porous membrane for other applications, including:

- Plasmapheresis
- Cryopreservation
- Water filtration
- Chromatography



INVESTMENT OPPORTUNITIES

EMV Technologies is a Limited Liability Company located in the Commonwealth of Pennsylvania. EMV is currently seeking investment from angel investors and early stage venture capital firms to finalize industrial prototype development and obtain FDA clearance to market the product.

CONTACT A REPRESENTATIVE TODAY:



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