

RESULTS OF FOUR CLINICAL STUDIES WITH STREAMLINE® BLOODLINES AND CONVENTIONAL BLOODLINES

Results summarized below were obtained with Streamline tubing sets used with the Fresenius 2008 series machine.

	Study 1 ³	Study 2 ⁴	Study 3 ⁵	Study 4 ⁶
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Study design	Cross-over	Cross-over	Cross-over	Cross-over
Study sample size (n)	117	67	117	202
Results with Streamline				
Increase in blood flow rate (%)	18%	5%	4%	19%
Change in arterial pressure (%)	Not assessed	-16%	-12%	-4%
Increase in % of patients meeting target Kt/V as compared to conventional bloodline	+20.7% @ target 1.4	+10% @ target 1.4	+4% @ target 1.2	+34% @ target 2.0
Change in heparin dose	-28.0%	-57%	Not assessed	Not assessed
Change in dialysate flow rate	-26.0%	Not assessed	-7%	Not assessed

The summaries in the table above were gathered from public available information and are not intended for comparison purposes.

References

1. Kitamoto Y, Fukui H, Matsushita K, Sato T, Soejima H, Noguchi Y, Kasama T. Suppression of thrombin formation during hemodialysis with triglyceride. *ASAIO J.* 1993;39(3):M581-M583. 2. Polaschegg HD. The extracorporeal circuit. *Semin Dial.* 1995;8(5):299-304. 3. Cooke JD, Moran J. StreamLine™ air- less system set optimizes dialysis adequacy with reduced costs. Poster presented at American Society of Nephrology Conference, 2007. 4. Haas S, Ahuja M. Improving hemodialysis adequacy, anticoagulation and dialyzer efficiency with Streamline bloodline. Poster presented at American Society Nephrology Conference, 2010. 5. Smith P. Streamline bloodlines improve Kt/V while lowering dialysate usage. Poster presented at Nation Kidney Foundation Conference, 2010. 6. Arslanian JE, Lockman CM, Parker YC, Charytan C. Improved blood flow and adequacy with streamline bloodlines. Abstract presented at American Society of Nephrology Conference, 2010.