



Streamline[®]

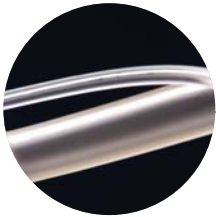
AIRLESS.
SIMPLE.

THE NEW STANDARD
IN BLOOD TUBING.



Seven Years of Innovation:

Arterial



Proprietary pump header tubing

- Truer actual delivery of prescribed blood flow (within 1%)¹
- Higher clearances²



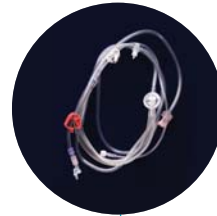
Arterial pressure pod

- Only airless pressure measuring assembly designed to reduce heparin needs & clotting²
- No need for expensive, inconvenient transducer protectors
- No risk of machine cross-contamination
- No need to adjust levels
- Patented technology



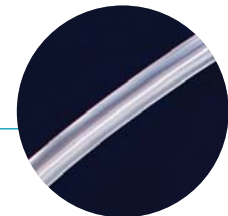
Locksite™ needleless access

- Reduced needlestick accident risk
- No more expensive safety syringes
- Unique locking allows user to keep syringe on the circuit
- Patented technology
- Designed to allow safe & easy medication delivery, blood & saline draws



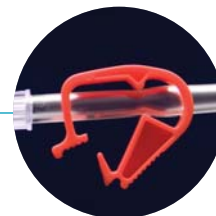
Low volume design

- Reduced extra corporeal volume (107 -117mL)
- Reduced blood-plastic exposure
- Simpler rinseback
- Less "spaghetti", faster setup & teardown
- Reduction of medical & packaging waste, leading to disposal savings



Proprietary tubing for dialysis applications

- Custom extruded & assembled
- Smooth inner lumen designed to minimize blood disruption



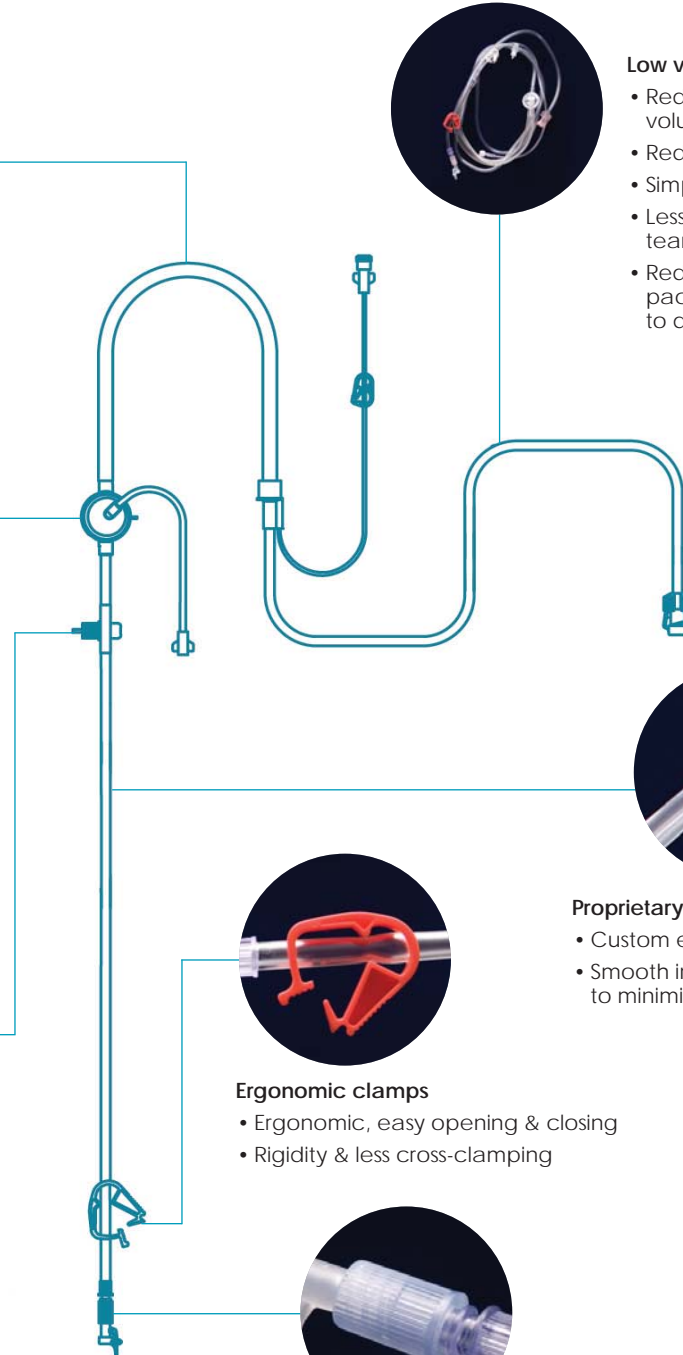
Ergonomic clamps

- Ergonomic, easy opening & closing
- Rigidity & less cross-clamping



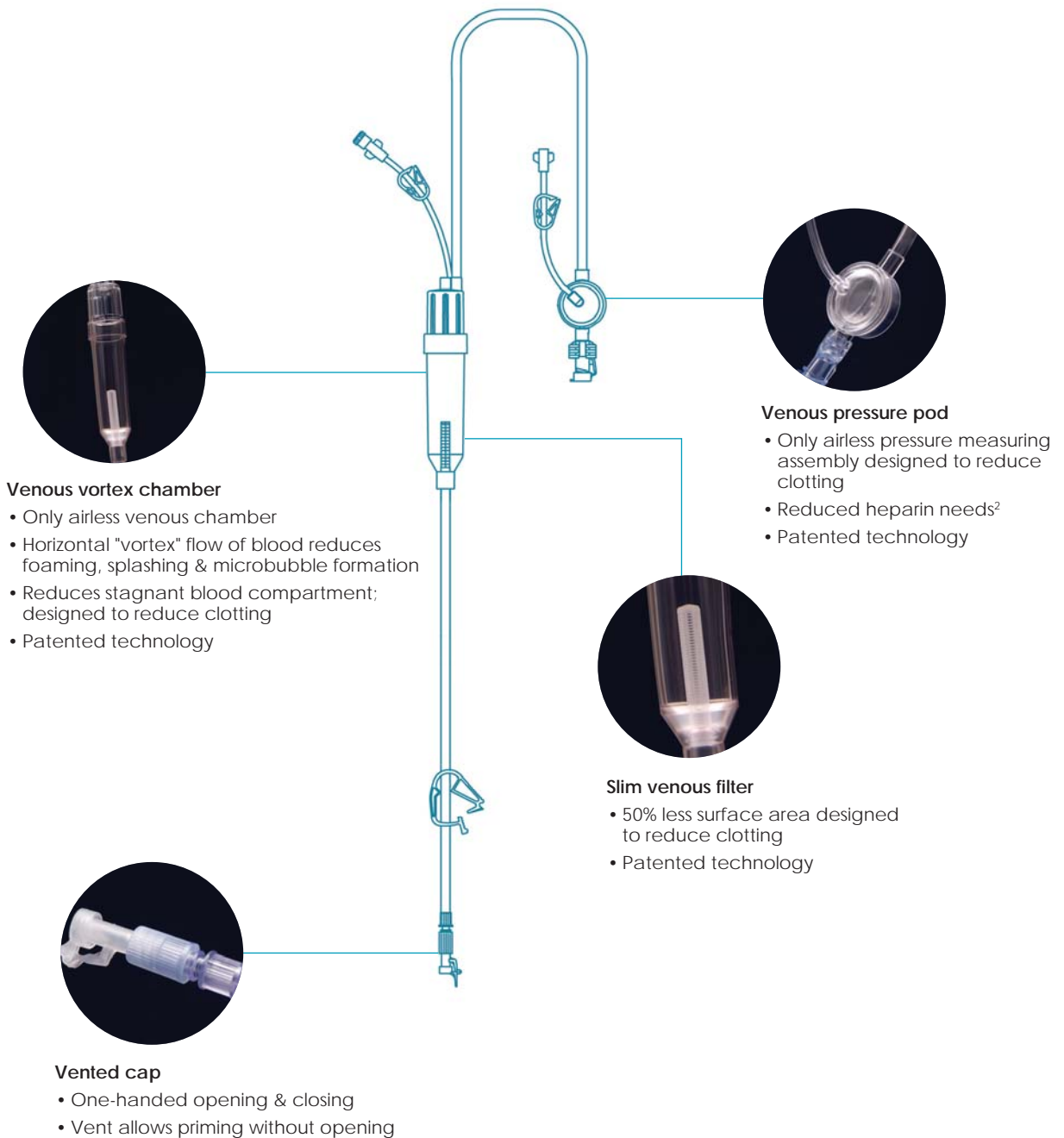
Locking Collar

- Designed to help prevent access tubing disconnects



A Bloodline is Not Just a Bloodline

Venous



Anymore.

Saline



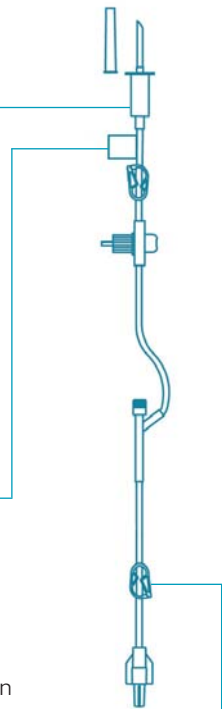
Saline spike and chamberless saline set

- Easy to grasp & insert
- Designed to minimize air bubble formation



Luggage tag

- Easy product lot identification for convenient traceability



On/off clamp

- Designed to permit maximum saline flow in any hypotensive intervention
- Designed to be simpler to use than roller clamps

All Parties Benefit²

Patients

- Better KT/Vs
- Fewer Long (> 4 hour) Treatments

Staff

- Reduced Alarms & Interventions
- Faster Set-up

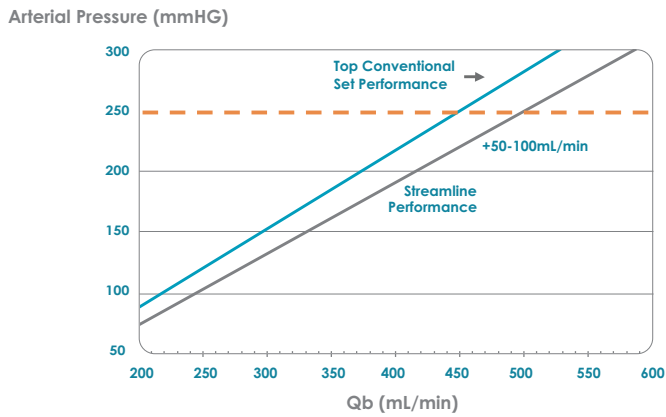
Physicians

- Clinical Flexibility
- Reduced Heparin

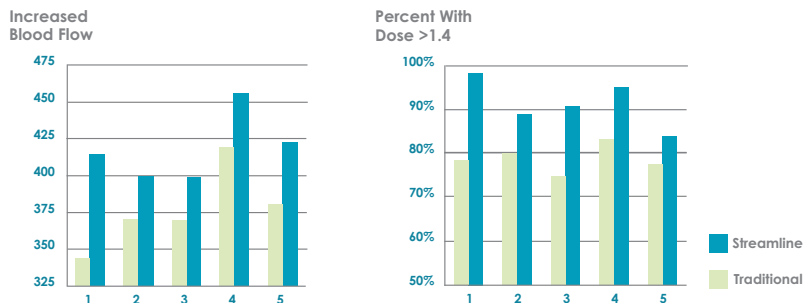
Administrators

- Reduced Total Costs
- Improved Center Performance
- Staff Satisfaction

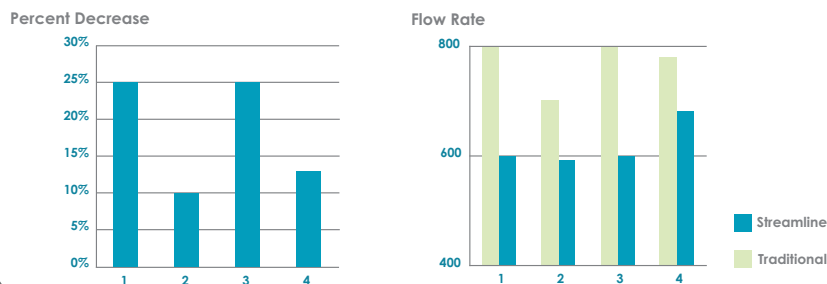
HIGHER BLOOD FLOWS FROM ANY ACCESS³



CONSISTENT CLINICAL GAINS ACROSS SITES⁴



CONSISTENT DIALYSATE REDUCTIONS ACROSS SITES⁴



Your Bloodline Drives:

Peak Therapy Performance

Nearly 400 patients at multiple sites saw increased blood flows and dose delivery

Peak Operational Efficiency

Less dialysate, fewer alarms, fewer supplies, less staff time

MEASURED OVERALL IMPACT IN A 116-PATIENT STUDY²

% patients with high dose (Kt/V >1.4)	98%, up from 78%
Median dose (Kt/V)	1.64, up from 1.59
Blood flow (mL/min)*	409, up from 347
Alarms/treatment	53% reduction
Dialysate usage (concentrate, potable H ₂ O & RO)**	\$1.39 / Tx
Medical waste	\$0.19 / Tx
Heparin usage	\$0.07 / Tx
Transducer protector usage	\$0.03 / Tx
Staff over-time (observed 50%)	\$1.32 / Tx
Streamline Savings Initially Measured	\$3.00 / TX



James Cooke

RN, CNN
Regional Director
Redwood City Unit
Satellite Healthcare



John Moran

MD
Senior VP
Clinical Affairs
Satellite Healthcare
& Wellbound

* No change in arterial pressure.

** Dialysate savings are result of actual Qd reduction from 800 to 597 ml/min avg. @ \$1.40/gal acid cost.

Streamline® vs. Traditional Standard

TRADITIONAL STANDARD	STREAMLINE INNOVATION	CLINICAL AND ECONOMIC IMPACT OF STREAMLINE
Drip chamber & transducer protector	Airless arterial & venous pressure pods; airless venous vortex chamber	<ul style="list-style-type: none"> • Simple operator set-up and use; no level adjustments • No blood-air interface; designed to reduce clotting & heparin • No need for transducer protectors; designed to reduce nuisance alarms & undetected risk of cross contamination • Designed to reduce microbubbles & potential blocking of dialyzer membrane fibers
Conventional bung	LockSite™ needleless access port	<ul style="list-style-type: none"> • Enhanced safety by reducing use of needles & risk of needle-sticks • Unique locking mechanism allows user to keep syringe on circuit
Set weight: 0.64 - 0.70lbs	~35% lower weight (0.46lbs)	<ul style="list-style-type: none"> • Lower disposal costs, less landfill usage, lower incineration pollutants • Fewer red bags to close & discard
Blood volume: 134 -153mL	~20% lower volume (107 -117mL) and shorter tubing lengths	<ul style="list-style-type: none"> • Less "spaghetti"; quicker, simpler set-up • Less extracorporeal blood volume & exposure to plastic • Lower saline priming volume • Demonstrated improved rinsebacks with lower saline volume⁴
Packaging volume: 24 sets/case	~30 - 50% more efficient (32 - 36 sets/case)	<ul style="list-style-type: none"> • Lower storage space requirements & costs • Reduced packaging waste
Traditional blood pump tubing	High performance, custom blood pump segment (50% - 75% less degradation)	<ul style="list-style-type: none"> • Demonstrated higher blood flow accuracy (prescribed vs. actual) & resistance to fatigue¹
Standard blood tubing manufacturing & design, 31- 36 bond joints	Custom extruded, designed to lower blood tubing resistance; ~35% fewer joints (21 bond joints)	<ul style="list-style-type: none"> • Higher blood flows at given arterial pressures due to reduced resistance¹ • Improvement in dose delivery, reduction in dialysate requirements, or a combination of both² • Alarm reduction²

For additional information on Medisystems products, distributors and programs, please call 1-800-369-MEDI.

1. Besarab, A; Blood Tubing Effect on Delivered Blood Flow, Kt/V, and URR; *Advances in Vascular Access* 2004; 2: pp1-4.

2. Cooke, J; Moran, J; *Streamline Airless System Set Optimizes Dialysis Adequacy with Reduced Costs*; ASN 2007.

3. *Medisystems in-vitro study with 15G needles, conventional performance measured using ReadySet.*

4. *Actual facility and patient experience collected by Medisystems during Streamline evaluations.*