## *€med*COMP<sup>®</sup>

### HELP **STOP Bacterenia** AND **Thrombosis**



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### Catheter Lock Solution

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### **DuraLock-C** Catheter Lock Solution

Studies have demonstrated that Trisodium Citrate (TSC) is highly effective as a catheter locking solution.<sup>(1,2,3,4)</sup> In addition to being an anticoagulant, TSC has demonstrated antibacterial activity across a broad spectrum of microbes.<sup>(1,2)</sup> Another study, commenting on TSC's anticoagulant character, found a dramatically reduced incidence of thrombolytic intervention in tunnelized hemodialysis catheters.<sup>(1)</sup>

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DuraLock-C

\* Most importantly and most recently, Weijmer, et al <sup>(4)</sup>, in a multi-centered, prospective, randomized comparison with heparin and TSC, demonstrated clear superiority of TSC over heparin.

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ONB

• Luer Lock Connection

# Catheter LOCK Solution

#### FEATURES AND BENEFITS

- Anticoagulant / Antibacterial Fewer catheter withdrawals due to complications.
- Safety Lower rate of catheter related bacteremia.
- Needleless draw/luer lock termination Convenient to the care giver and safer to prepare.
- Dating (24 months) Greater shelf life.

Key Findings (*Weijmer, et al(4))	TSC (30%)	Heparin (5,000 units)
Catheter withdrawn due to complications	28%	46%
Catheter related bacteremia per 1,000 patient days	1.1%	4.1%
Deaths due to catheter related bacteremia	0	5

### DuraLock-C<sup>™</sup>

**A.** DuraLock-C<sup>™</sup> greatly reduces systemic infections and the need to use Urokinase. In a recent 18 month study by Ash et al,<sup>(1)</sup> the type of catheter lock solution used for all 40 dialysis patients with tunneled lines was changed every 3-4 months, starting with Heparin.

**B.** During this study the number of vials of Urokinase used to unclot the catheters was monitored. The results are as follows:

		LOCKING SOLUTION				
	40 Hemodialysis Catheters	Heparin	Citrate 10% & Gentamicin	Citrate 20% & Gentamicin	Citrate 46.7% ALONE	
A. Anti-Bacterial	% Bacteremia Episodes per month	4.32	2.74	1.68	0	
B. Anti-Coagulant	# of Urokinase Interventions per month	>40	>30	<20	<3	

This chart shows a complete reduction in catheter related bacteremia as well as a near elimination of the necessity to use Urokinase during the 46.7% trisodium citrate lock test period.

### **ORDERING INFORMATION**

**DuraLock-C**<sup>™</sup> CATHETER LOCK SOLUTION

1 Box of 360 vials 46.7% TSC

XDLC546

Packed in boxes of 360 vials. Each vial contains 5cc of Trisodium Citrate 46.79 1 Box of 360 vials 30% TSC

XDLC530

Packed in boxes of 360 vials. Each vial contains 5cc of Trisodium Citrate 30%

### REFERENCES

- 1. Ash SR, Mankus RA, Sutton JM, Criswell RE, Crull CC, Velasquez KA, Smeltzer BD, Ing TS: Concentrated sodium citrate (23%) for catheter lock. Hemodial Int 4: 22-31, 2000
- Weijmer MC, Debets-Ossenkopp YJ, van de Vondervoort FJ, ter Wee PM: Superior antimicrobial activity of trisodium citrate over heparin for catheter locking. Nephrol Dial Transplant 17:2189-2195, 2002
- 3. Bayés B, Bonal J, Romero R: Sodium citrate for filling haemodialysis catheters. Nephrol Dial Transplant 14: 2532-2533, 1999
- Weijmer MC, et al: Randomized, clinical trial comparison of trisodium citrate 30% and heparin as catheter-locking solution in hemodialysis patients. J. Am. Soc. Nephrol., 16: 2769 – 2777, 2005



