

## 46.7% CitraFlow™ SF (sterile field):

46.7% anticoagulant/antimicrobial  
Sodium Citrate prefilled syringe  
for catheter locking.



Clinical studies have shown that the use of a 46.7% Sodium Citrate solution to lock indwelling catheters has significant advantages compared to existing standards of care :

- Avoids the risk of systemic heparinization
- Prevents exacerbation of active bleeding<sup>7,8,11</sup>
- Reduction of clotting incidents<sup>4,5</sup>
- Lower tPA utilization rates and costs<sup>4,5,7</sup>
- Reduction of catheter exchange rates<sup>8</sup>
- Prevents the formation of biofilms<sup>3,6</sup>
- Lowers the rate of catheter related bacteremia infections<sup>9,10</sup>
- Safe for use in patients with HIT (Heparin Induced Thrombocytopenia)
- Improved INR reliability (international normalized ratio)
- Potential savings compared to other lock regimens<sup>1,2,5</sup>
- Terminally sterilized. Sterile field compatible product
- Available in safe and convenient to use 5cc syringes and avoids the high pressure risks associated with smaller 3cc syringe sizes
- All natural. No artificial colors or preservatives



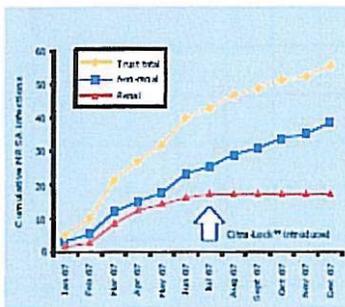
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# CitraFlow™...

## The natural way to lock catheters

### Antimicrobial :

46.7% CitraFlow™ is a proven antimicrobial for reducing the rates of Central Line Associated Blood Stream Infections (CLABSIs)



St Bart's, renal unit (Royal London) has a proven record in managing MRSA, but the number of infections across the hospital has steadily increased as shown on this diagram. However, since the introduction of citrate (46.7%) to the renal department the number of MRSA infections has fallen from 2.7/1,000 haemodialysis days to 1.36/1,000 haemodialysis days. Citrate intervention provides significant benefit to patients, provides an extra 2-3 bed days to the hospital and provides savings of £100,000's.<sup>10</sup>



Catalog #	Description	Quantity/case
38143	One 3ml 46.7% Sodium Citrate solution in 5ml syringe	150 units / cs
38143-1	Twinpack of two 3ml 46.7% Sodium Citrate solution in 5ml syringe	100 units / cs (200 syringes)

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- Shanks R. M. Q., et al. Catheter lock solutions influence staphylococcal biofilm formation on abiotic surfaces. Nephrol Dial Transplant (2006); Doi: 10.1093/ndt/gfl170.
- Meeus Gert, et al. A prospective, randomized, double-blind crossover study on the use of 5% citrate lock versus 10% citrate lock in permanent hemodialysis catheters. Blood Purification 2005;23:101-105.
- MacRe J et al, Citrate 4% versus Heparin and the reduction of thrombosis Clin, J. Am Soc. Nephrol 3:369-374 2008.
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- Weijmer JC (2005) Randomized, Clinical Trial Comparison of Trisodium Citrate 30% and Heparin as Catheter-Locking Solution in Haemodialysis Patients. J Am Soc Nephrol. Sep; 16(9):2769-77.
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