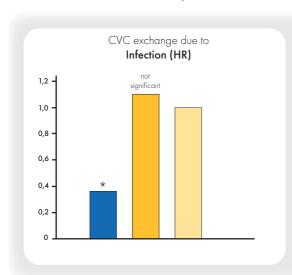


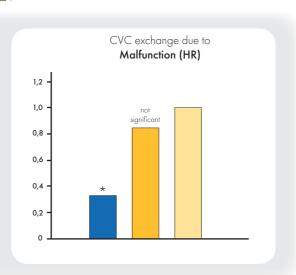
TauroLock HED in Dialysis

"THE BEST SOLUTION DOWN THE LINE"

1. Significantly lower hazard ratio (HR) for CVC removal ($p \le 0.05$)* with TauroLockTM-HEP500

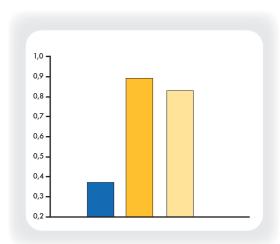
- TauroLockTM-HEP500
- High-concentrated citrate (46.7% citrate)
- Low-concentrated citrate (4% and 30% citrate) , set as Reference





No significant differences between high-concentrated citrate lock solutions and low-concentrated lock solutions were observed for exchange due to infection and malfunction, respectively (p=0.64 and 0.39).

2. Lower incidence rate of proven catheter-related BSI per 1000 CVC days:



Our findings suggest that taurolidine-based lock solutions may be superior to citrate-based lock solutions in terms of infections and catheter malfunction.

Van Roeden S., van Oevelen M., Abrahams A.C., Dekker F.W., Rotmans J.I., Meijvis S.C.A. on behalf of the DUCATHO study group, 2021

"The best solution down the line: an observational study on taurolidine - versus citrate-based lock solutions for central venous catheters in hemodialysis patients" <u>BMC Nephrology</u> volume 22:308 Retrospective, observational, multicenter study over five years, 1514 hemodialysis patients.



TauroLock to in Dialysis

Guidelines:

• Position Statement of the European Renal Best Practice (ERBP) 2010:

"Recommendation B.3.1: The preventive use of antimicrobial locks is advocated to reduce the rate of CRBSI."
"(...) no benefit regarding infectious complications was observed for citrate at 4%..." "Recommendation B.3.2: In view of the potential risks of spillover of the locking solution (...) the 4% solution seems to offer at present the best benefit/risk ratio."

 Prevention of infections related to implantable ports for venous access 2012, French Society of hospital hydiene (SF2H):

"...taurolidine or any other compound with proven efficacy in preventing catheter-infections should be preferentially used..."

Vascular access for haemodialysis, Clinical Practice guideline 2015, UK renal association:

"Catheter lock solutions have been increasingly studied... Concerns have been raised about the development of antimicrobial resistance and inadvertent infusion of high concentration of citrate, only 4% citrate should be used in this setting."

Guideline on Hemodialysis Catheters 2018, Australian Department of Health:

"Taurolidine

Very broad-spectrum antimicrobial activity. Decreases development of biofilm. Associated with a reduced CRBSI rate compared to heparin. May be equally effective in preventing catheter occlusion due to thrombosis as heparin."

• Guideline for Infection prevention and hygiene 2019, German Society for Nephrology (DGfN):

"Taurolidine and gentamicin exert only antimicrobial effectiveness. Citrate solutions show ... – in higher concentrations – at least partially antimicrobial properties, which is, however, insufficient against Staph. aureus."

Standards of Practice 2021, Infusion Nurses Society (INS):

"Monitor sodium citrate, an anticoagulant with antimicrobial effects, for systemic anticoagulation, hypocalcemia that could produce cardiac arrest, and protein precipitate formation with concentrations greater than 12%. (III)"

"Monitor trisodium citrate for protein precipitation, which could cause lumen occlusion. (V)"





