

# ClearGuard™ HD

Antimicrobial Barrier Caps for Haemodialysis Catheters

Clinically proven to reduce the rate of CLABSIs in haemodialysis catheter patients



## ClearGuard HD Clinical Evidence

Multiple large, prospective, cluster-randomised, multicenter, open-label trials demonstrated a significant reduction in the rate of PBCs and CLABSIs using ClearGuard HD caps vs. control groups.



### Dialysis Catheter–Related Bloodstream Infections: A Cluster-Randomised Trial of the ClearGuard HD Antimicrobial Barrier Cap

Hymes JL, Mooney A, Van Zandt C, Lynch L, Ziebol R, Killion D.  
Dialysis Catheter–Related Bloodstream Infections: A Cluster-Randomized Trial  
of the ClearGuard HD Antimicrobial Barrier Cap. *Am J Kidney Dis.* 2017  
Feb;69(2):220-227.

[https://www.ajkd.org/article/S0272-6386\(16\)30519-4/fulltext](https://www.ajkd.org/article/S0272-6386(16)30519-4/fulltext)



### Cluster-Randomised Trial of Devices to Prevent Catheter-Related Bloodstream Infection

Brunelli SM, Van Wyck DB, Njord L, Ziebol RJ, Lynch LE, Killion DP. Cluster-  
Randomized Trial of Devices to Prevent Catheter-Related Bloodstream  
Infection. *J Am Soc Nephrol.* 2018 Apr;29(4):1336-1343.

<https://www.icumed.com/media/ik0hs50g/jasn-article.pdf>





## ClearGuard HD Additional Supporting Evidence



### Catheter-Associated Bloodstream Infections among Patients on Haemodialysis: Progress before and during the COVID-19 Pandemic

Johansen KL, Gilbertson DT, Wetmore JB, Peng Y, Liu J, Weinhandl ED. Catheter-Associated Bloodstream Infections among Patients on Hemodialysis: Progress before and during the COVID-19 Pandemic. *Clin J Am Soc Nephrol*. 2022 Mar;17(3):429-433.

<https://cjasn.asnjournals.org/content/17/3/429>



### Evaluating a Novel Haemodialysis Central Venous Catheter Cap in Reducing Bloodstream Infections: A Quality Improvement Initiative

Weiss S, Qureshi M. Evaluating a Novel Hemodialysis Central Venous Catheter Cap in Reducing Bloodstream Infections: A Quality Improvement Initiative. *Int J Nephrol Renovasc Dis*. 2021 Apr 28;14:125-131.

<https://pubmed.ncbi.nlm.nih.gov/33953599/>

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