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SterileCare

CVAA ACAV | **WEBINAR SERIES 2026**

CANADIAN ASSOCIATION OF CRITICAL CARE NURSES

Join CVAA and CACCN for a presentation on:

Beyond Usual Care: Does New Randomized Evidence Support a New Standard for CVAD Locking

Wednesday September 16, 2026
5:00pm ET

Register here or scan the QR code

Saline and 4% citrate are widely used to lock central venous access device (CVAD) lumens in critical care and have long been established components of vascular access practice. As the understanding of catheter-related complications continues to evolve, interest has grown in locking solutions that may offer additional protection against their formation.

A recently published multicentre, triple-blind, cluster-randomized crossover trial in the Journal of the American Medical Association (JAMA) evaluated 4% tetrasodium EDTA as a novel CVAD locking solution in 1,468 adult patients across six Canadian ICUs. Compared with saline and 4% citrate locking solutions, the study assessed key clinical outcomes including effect of the t-EDTA intervention on bloodstream infection, catheter occlusion requiring alteplase, and catheter removal due to occlusion.

This webinar will explore the scientific rationale for CVAD locking strategies and review contemporary evidence supporting catheter maintenance and complication prevention. Faculty will review the pathophysiology of catheter occlusion and intraluminal biofilm formation, explore the role of calcium in coagulation and microbial attachment, and discuss how different locking agents may influence these pathways.

Participants will gain an in-depth understanding of the trial design, methodology, and outcomes, including the observed reduction in catheter-associated complications among patients receiving 4% tetrasodium EDTA. The session will also consider the potential implications of these findings for vascular access and critical care practice, providing clinicians with an opportunity to evaluate emerging evidence and consider how new locking technologies may fit within existing standards of care.

FREE for CVAA and CACCN MEMBERS

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