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The Right Therapy, Right Place, Right Time

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## **The CONVINCe Study: Recognizing the Benefits of High-Volume Hemodiafiltration for Enhanced Patient Outcomes**

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Despite significant advancements in technology, a better understanding of uremic toxins, and improvements in patient care, hemodialysis patients still face poor outcomes and diminished quality of life, burdened by treatment requirements. Hemodiafiltration (HDF) has been proposed to enhance patient outcomes, showing promising results in large cohort studies. However, interventional European randomized controlled trials have yielded conflicting results. Variations in convective dosing through an individual patient data meta-analysis have been identified as a potential confounding factor in these discrepancies. In this context, the European RCT CONVINCe study, funded by the European Union through the Horizon 2020 program, was designed to demonstrate the benefits of consistently delivered high-volume HDF. In this presentation, we will discuss the main findings of the CONVINCe study. Notably, a 23% reduction in all-cause mortality and a significant reduction in infection-related deaths were observed in patients undergoing HDF, although the impact on cardiovascular mortality was not significant. We will also present recent findings indicating positive effects on patient-reported outcomes, utilizing a new tool called PROMIS. Additionally, we will provide further real-world evidence confirming the superior outcomes of high-volume HDF over traditional hemodialysis, particularly in terms of mortality reduction and better preservation of health-related quality of life components. In conclusion, we will highlight the patient outcome benefits associated with well-dosed hemodiafiltration and discuss future applications of HDF, including personalized care strategies and the potential for more eco-friendly therapy approaches.

**Keywords:** Hemodiafiltration, Outcomes, Convective dose, Patient Reported Outcomes, Sustainability