The “inside-out” technique eliminates the need for subclavian or femoral catheter placement by placing a supraclavicular catheter via a percutaneous femoral vein access” Freeman et al (2019).

Abstract:

The “inside-out” technique eliminates the need for subclavian or femoral catheter placement by placing a supraclavicular catheter via a percutaneous femoral vein access. Few reports of its use in vascular surgery exist. The purpose of this article is to describe our version of the technique and report results. Between 2016 and 2017, the inside-out technique was performed on eight patients. All patients had more than four prior access sites and bilateral internal jugular vein occlusion. The technical success rates were 100% with no periprocedural complications and success in achieving dialysis access. One patient required catheter replacement within 48 hours, one catheter was used as a bridge to Hemodialysis Reliable Outflow (Hemosphere, a Cryolife Inc Company, Eden Prairie, Minn) graft placement, and one patient died of sepsis unrelated to their catheter. Our data show the inside-out technique to be safe and effective, removes the need for subclavian or femoral catheter placement, and should be a component of treatment algorithms for complex dialysis patients, which is consistent with National Kidney Foundation’s Kidney Disease Outcomes Quality Initiative recommendations.

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