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Stent grafts as an endovascular option for hemodialysis-related venous occlusive disease (VOD)

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Purpose: This prospective single center observational registry evaluated the efficacy and durability of a new covered stent (Covera/ CRBard) in treating VOD to preserve a functional dialysis access circuit.

Material & Methods: In 53 patients (45.3% men; mean age 67.4 years, 28-89 years) with VOD, covered stents (Covera, CRBard) were used to treat symptomatic venous stenosis or to enable av-access functionality. The target lesion was accessed via the dialysis access site. The Covera covered stent (BD/Bard Peripheral Vascular) was implanted in all patients.

Results: Technical success was 100%. Target lesion primary patency (PP) at 6 month was 86%. Mean follow up was 6, 9 month. Study Population Mortality was 5 % at 6 month. Secondary patency (SP), access circuit patency rates (ACP), additional procedures for access salvage and subgroup analysis of different locations of stentgraft implantation (central, cephalic arch, outflow and cannulation zone) are reported.

Conclusion: Placement of covered stents for hemodialysis-related VOD is safe, relieved symptoms, and enabled functionality of dialysis av-access circuits. There is a need for prospective and randomized studies to determine whether and where covered stents provide superior long-term results to those achieved with PTA and DCB-PTA.

Recent Publications

1. T Steinke (2019) Endovascular arteriovenous fistula for hemodialysis access. *Gefäßschirurgie* 24:25-31.
2. T Steinke, Reber P U, Vogt B, Patel A G and Kniemeyer H W (2019) Surgery for aortoiliac aneurysms in kidney transplant recipients. *J Cardiovasc Surg (Torino)* 41(6):919-25.
3. T M Steinke, P U Reber, H Hakki and H W Kniemeyer (1999) Haematuria and an abdominal aortic aneurysm-warning of an aortocaval fistula. *Endovasc Surg.* 18(6):530-1.

Biography

T M Steinke has his expertise as Consultant/Certified Specialist in Vascular Surgery; Certified Specialist in Endovascular Surgery (DGG). He is the Chief Physician of the Department of Vascular Surgery Schoen-Klinik Duesseldorf since January 2017. He also worked as Chief Physician of the Department of Vascular Surgery Dominikus-Krankenhaus Duesseldorf from May 2005 till December 2016. He is the Outpatient Consultant at the Kaiserberg Klinik/ Vascular Surgery and main focus on minimal invasive Venous Therapy. He serves as a Member of the German Society for Vascular Surgery (DGG), German Society for Surgery (DGCh), German Society for Angiology (DGA), Association Surgeons of North-Rhine-Westfalia.

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