

Can Mesh Covered Stents Replace Stent-Grafts For The Treatment Of Complex Iliac Occlusive Lesions: Advantages And Disadvantages

Piotr Myrcha



Good safetyGood short-term efficacy

Decreased morbidity, complications and costs

I Chair and Clinic of General and Vascular Surgery, Faculty of Medicine, Medical University of Warsaw, Head of Department of General, Vascular and Oncological Surgery, Mazovian Brodnowski Hospital, Warsaw, Poland



Disclosure

Speaker: Piotr Myrcha, MD

I do not have any potential conflict of interest

Iliac artery occlusive disease Iliac artery occlusive disease Endovascular treatment of significant iliac artery stenosis with claudication: Open surgical procedures: • Excellent patency rates PTA alone Stenting for suboptimal or failed result from PTA (e.g., persistent gradient, residual diameter stenosis >50%, or flow-limiting dissection). Primary stenting for CIA/EIA stenosis and occlusions Substantial morbidity and mortality Endovascular treatment:

Major complications occurred more often in the PTA group (20%, 11/55), compared to the PS group (5%, 3/57) (OR 4.50, 95% CI 1.18 to 17.14)

Jongsma H, Bekken J, Ayez N, Hoogewerf CJ, Van Weel V, Fioole B. Angioplasty versus stenting for iliac artery lesions. Cochrane Database Syst Rev. 2020.1;12(12):CD007561











	VEIIH-1997 Control of
Mesh Stents Study (IMS-Study)	r in ILIAC Complex Lesions ClinicalTrials.gov : NCT05377775
Study Type :	Interventional (Clinical Trial)
Estimated Enrollment :	50 participants
Allocation:	Medical University of Warsaw, Poland (Dept. of General and Vascular Surgery)
Intervention Model:	Single Group Assignment
Intervention Model Description:	Prospective, single-center, open-label, single-arm, non-randomized clinical trial.
Masking:	None (Open Label)
Primary Purpose:	Treatment
Official Title:	Mesh Stents Study in Iliac Complex Lesions Iliac-Mesh Stent Study (IMS-Study)
Estimated Study Start Date :	June 10, 2022
Estimated Study Completion Date:	December 31, 2024
Principal Investigator:	Piotr Myrcha, MD Medical University of Warsaw, Poland



IMS-Study became part of the international FLOWGUARD-ILIAC (2024) NCT04461717

Challenges when using the CGuard mesh stent:

• 0.014" guidewire- unstable stent deployment in calcified lesions

- "One-Size-Fits-All"- does not work for small EIA diameters
- Maximum length of 60 mm
- Cross-over technique challenging deployment of a 10x60 mm
- stent at an acute aortic bifurcation angle.





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Conclusions

- 1. CGuard implantation into the iliac artery is feasible and safe.
- The use of a mesh stent may be a cheaper alternative to a peripheral stent graft.
- The use of the 0.014 " guidewire requires some technical modifications to the implantation.
- 4. "One-Size-Fits-All" facilitates implantation in the common iliac artery

