

Fenestrated EVAR Versus Chimney EVAR For Juxtarenal AAAs: When Is One Better Than The Other And What Are The Critical Considerations

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Disclosure

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I do not have any potential conflict of interest



BACKGROUND

- The feasibility of f-EVAR for the treatment of JAAAs is now widely recognized, with several large series confirming satisfactory results
- However, the applicability of the technique is limited by strict anatomic requirements, high costs, and lengthy manufacturing

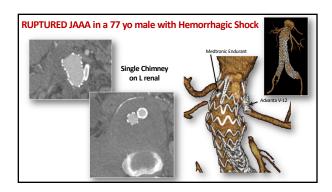


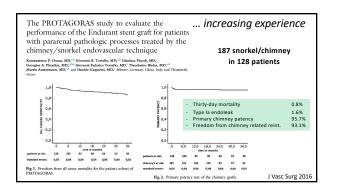
BACKGROUND

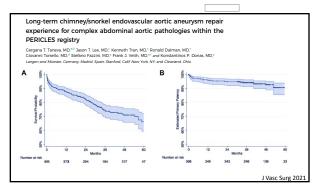
- The main advantage of Ch-EVAR lies in its immediate availability and minor cost
- However, uncertainties about long-term patency of stented visceral vessels and the risk of "gutter endoleak" remain reasons for concern

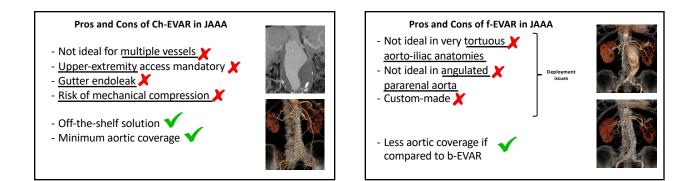


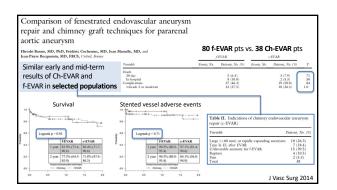
The role of open and endovascular treatment with fenestrated and chimney endografts for patients with juxtarenal aortic aneurysms Konstation 7. Done, MD, PhD: Marka Elenad, MS; Giasque Paresie, MD, PhD: Marka Americana, MD, PhD: Nat Oak, PhD: a Guerrat Toords, MD, PhD: Moner, Centary			m	1 Hystorical series including medium complexity procedures (only 5 bilateral Ch-EVAR and only 2-fen f-EVAR)		
90 JAAA pts:	30 Ch-EVAR	29 f-EVAR	31 (OR		
	Ch-EVAR	f-EVAR	OR	Р		
Target vessel preservation Operation duration, minutes Contrast medium (mL) Fluoroscopic time, minutes Renal artery chimney	97.4% 89 ± 21 112 ± 23 44.8 ± 13.2 35/38	$\begin{array}{c} 97.7\% \\ 290 \pm 122 \\ 156 \pm 56 \\ 54.3 \pm 12.2 \end{array}$	-	.56 .04 .23 .34		
Bilateral Right Left	5 19 16		Similar results of Ch-EVAR and f-EVAR			
SMA chimney Types of chimney stent - Covered balloon expandable (Advanta) f-EVAR bridging stent - Covered balloon expandable (Advanta) - Bare balloon expandable (Palmaz)	3 38/38	32/44 12/44	Ch/f-EV OR grou	AR group: .p:	mortality 0% mortality 6.4%	
Endoleak Type I Type I Mortality	0 2 0	0 1 0	2	.023		
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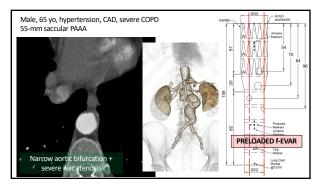






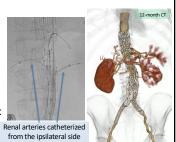






PRELOADED F-EVAR - RATIONALE

To get access, in patients with compromised access routes (occluded or stenotic contralateral iliac axis, narrow aortic bifurcation not able to accomodate two largecaliber sheaths), without using upper extremity access



CONCLUSION

- Direct comparison between f-EVAR and Ch-EVAR may result difficult because of selection bias especially concerning late results
- Main advantage of Ch-EVAR remains in urgent settings and seems to be more appropriate in old patients who cannot benefit of a more durable repair like f-EVAR
- New technological development in custom-made devices are breaking down more and more any anatomical constrains for f-EVAR