Technical Tips and Tricks for chimney EVAR performing with Endurant Aortic Endografts: The PROTAGORAS Registry

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Chimney technique

• Current evidence base

Plethora of single-center series

Devices selection

128 patients with pararenal pathologies and the intention to treat by Endurant and Advanta/i-Cast V12 as chimney graft
The PROTAGORAS Study

Device selection

Sac regression: \(64.8\pm14.6\text{mm} \rightarrow 60.1\pm16.3\text{mm}, \ p < 0.001\)

New onset of type IA endoleak: \(1.6\%\)

Reasons for good results in the PROTAGORAS study

1. Devices selection
2. Length of the new neck
3. Oversizing

Importance of standard combinations

The PROTAGORAS study to evaluate the performance of the Endurant stent graft for patients with pararenal pathologic processes treated by the chimney/snorkel endovascular technique

128 patients treated by Endurant and balloon expandable chimney grafts

Importance of standard combinations

Critical analysis of results after chimney endovascular aortic aneurysm repair raises cause for concern

Salvatore T. Sirlin, MD; Robert J. Freire, MD; Christopher K. Chang, MD; Alyson L. Whittemore, MD, M.P.H.; Scott A. Borel, MD, PhD; Thomas S. Stienen, MD, PhD; and Allen W. Reek, MD, Gainesville, Fl

Importance of standard combinations

The Chimney Technique in Endovascular Aortic Aneurysm Repair: Late Ruptures After Successful Single Renal Chimey Stent Grafts

Andrew Schles,1 Guyse A. Antinolus,2 Daniel Grincher,1 Adam C. Phelps2
Piao Panarakhrach2, and Priyadarshini Srinivas-Ingole2,1 Manchester, United Kingdom

9 patients treated by 4 different combinations of abdominal and chimney grafts

Importance of new neck length

The PROTAGORAS study to evaluate the performance of the Endurant stent graft for patients with pararenal pathologic processes treated by the chimney/snorkel endovascular technique

Neck length/seal zone changed from 4.7mm to 18.7mm

Chimney EVAR performing with Endurant Aortic Endografts

Sufficient landing zone of 20mm

Oversizing 20-30%

Standard combination with balloon expandable covered stents

Oversizing: 30%