Out-of-the-box double chimney technique for endovascular repair of peri-renal and intrarenal occlusive disease

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Disclosure

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I have the following potential conflicts of interest to report:

☐ I do not have any potential conflict of interest
The use of chimney’s

Chimney Grafts in Aortic Stent Grafting: Hazardous or Useful Technique? Systematic Review of Current Data.
Lindblad B¹, Bin Jahr A², Holsch¹, Malina M²

Collected world experience about the performance of the snorkel/chimney endovascular technique in the treatment of complex aortic pathologies: the PERICLES registry.
Donas KP¹, Lee JT, Lachat M, Torsello G, Velth FJ; PERICLES investigators.

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.
Donas KP¹, Torsello GB², Piccoli G², Pirouline Gal³, Torsello GE⁴, Risidor T², Austermann M², Gasparrini D⁵
Patient

77yr old male
• Hypertension
• Smoking
• Renal impairment
Vascular history

October 2014
Severe mesenteric & renal insufficiency

- Occlusion of the Coeliac Artery
- Occlusion of the SMA
- Stenosis of the IMA
- Stenosis of both renal arteries
Vascular history

October 2014

- PTA/Stent both renal arteries
- PTA/Stent IMA
- PTA/Stent SMA/CA not successful
- Open SMA/CIA reversed venous bypass
Case

Return July 2015

- Subtotal aortic stenosis
- Occlusion right renal stent
- Stenosis left renal stent
Case

Return July 2015

• Hostile abdomen
• Fragile condition
• Progressive renal insufficiently

Dooming:
• Total renal artery occlusion
• IMA occlusion
• SMA/CIA bypass occlusion
Case

Plan:

• Recanalisation of both renals
• PTA aorta
• Dubbel Chimney placement
• Aortic cuff
Case

A

B
Case
Conclusion

Not a standard procedure, but last resort option
Thank you on behalf of the Division of Vascular Surgery, Medical Spectrum Twente, The Netherlands