Complex AIOD treatment with VBX and kissing-CERAB technique. When, how and results

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Disclosure

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I have the following potential conflicts of interest to report:

☑ Consulting agreements

W.L. Gore & Associates*

*all consulting fees paid to the Dept. of Cardiac Thoracic Vascular Sciences, University of Padua.
INTRODUCTION

KISSING-CERAB FOR AORTIC BIFURCATION INVOLVEMENT

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AORTIC BIFURCATION ONLY

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AORTIC BIFURCATION & EXTENSIVE INFRA-IUXTA-PARARENAL AORTA

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EXTENSIVE AORTIC INVOLVEMENT

- Aortic disease proximal extension
  - Below IMA
  - Above IMA
  - Infrarenal
  - Iuxtarenal
  - Pararenal
- Aortic wall quality
- Aortic diameters

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The First Balloon-Expandable Stent-Graft Approved for Treatment of Iliac Occlusive Disease

Michele Piazza, MD ¹, and Michele Antonello, MD ¹

Geometrical Analysis and Preliminary Results for the Endovascular Reconstruction of Aortic Bifurcation Using New-Generation Balloon-Expandable Covered Stents in the Kissing Conformation

Michele Piazza ¹, Francesco Squizzato ², Gianna Saviane ³, Franco Grego ¹, Michele Antonello ¹

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VBX KISSING STENTS
VBX KISSING STENTS
NEW GENERATION BE CONFORMABILITY
Geometrical consequences of kissing stents and the Covered Endovascular Reconstruction of the Aortic Bifurcation configuration in an in vitro model for endovascular reconstruction of aortic bifurcation

Erik Groot Jebbink, MSc1,2, Frederike A. R. Grinstead, MD,1, Peter G. J. M. Garredo, MD,1, Jeroen A. van Deelvaren, MD1, Cornelia H. Slump, PhD1,2 and Michel M. P. J. Reijnen, MD, PhD1,2
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Influence of Iliac Stenotic Lesions on Blood Flow Patterns Near a Covered Endovascular Reconstruction of the Aortic Bifurcation (CERAB) Stent Configuration

Erik Groot Jebbink, MSc1,2, Stefan Engelhardt, MSc1,2, Guillaume Lajoine, PhD1,2, Jean-Paul P. M. de Vries, MD, PhD1,2, Michel Versluis, PhD1,2, and Michel M. P. J. Reijnen, MD, PhD1

In vivo geometry of the kissing stent and covered endovascular reconstruction of the aortic bifurcation configurations in aortoiliac occlusive disease

Erik Groot Jebbink1,2, Thijis G Ter Mors1,2, Cornelis H Slump1,2, Robert H Geelhoed1,2, Suzanne Hoolewijn1 and Michel MPJ Reijnen1

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CERAB

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Arteriosclerosis, Thrombosis, and Vascular Biology

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Protrusion Mismatch
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CERAB

Radial Mismatch

No Radial Mismatch

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CERAB with VBX: molding of components
CERAB with VBX
CORAL REEF INFRA-RENAL AORTIC OCCLUSION
CERAB for extensive aorto-iliac

GORE AORTIC 23mm + GORE ILIAC EXTENDER 1612mm
CERAB for extensive aorto-iliac
CERAB for shaggy aorta
PARARENAL CORAL-REEF AORTIC OCCLUSION
IVL in kissing

CHIMNEY-VBX renals + Gore Iliac Extender
ABI significant improvement
Valid femoral pulses
No residual claudication
CONCLUSIONS

• In presence of severe distal aortic and iliac disease, the kissing stent with CS seems to guarantee excellent early and long term outcomes

• New generation BE CS (VBX) thanks to their conformability, represent in our experience the stent of choice.

• In case of extensive aorto-iliac disease, the CERAB conformation with Gore portfolio (VBX or VBX+Gore abdominal) allows to tailor the type of stent-graft to the patient anatomy
THANK YOU FOR THE ATTENTION