Experiences in using BeGraft Aortic in CERAB & aortic occlusive disease

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How to treat?

How to prevent?
Important

Infrarenal aorta

Aortoiliac bifurcation

Iliac region
Current standard for complex occlusive aorto-iliac lesions is open surgical repair

- 5-year patency rate: 87 - 91%
- Complication rate: 8 - 12%
- Mortality rate: 3 - 4%

Type D lesions:
- Infra-renal aortoiliac occlusion
- Diffuse disease involving the aorta and both iliac arteries requiring treatment
- Diffuse multiple stenoses involving the unilateral CIA, EIA, and CFA
- Unilateral occlusions of both CIA and EIA
- Bilateral occlusions of EIA
- Iliac stenoses in patients with AAA requiring treatment and not amenable to endograft placement or other lesions requiring open aortic or iliac surgery
Late complications of open repair

Incisional hernia

- Incidence: 11%
- Complication rate: 24-30%
- Recurrence rate: 2-10%

Postsurgical adhesions

- Incidence: 67-93%
- Small bowel obstruction
- Inadvertent enterotomy: 19%

References:
Open versus endovascular approach

Ask your patient: what would you choose?
Covered Endovascular Reconstruction
Aortic Bifurcation

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How to start?

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Step 1: Acurate measurement - preparation

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Step 2: Access
(+-/ brachial access)

9 Fr
7 Fr

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Step 3: recanalization

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Step 4: actual measurement
During the procedure

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Step 5: Positioning + deployment of 12 mm Bentley Begraft Aortic

15-20 mm
Step 6: if needed picking-up & positioning of V12 Large by XL balloon by manual inflation and inflation device
Step 7: Inflation of XL balloon, Creation of conic distal part of the stent
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15 – 20 mm
Step 8:
positioning of 2 Begrafts in kissing stent formation

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+/−15 mm overlap
Step 8: positioning of 2 Begrafts in kissing stent formation

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Step 9: simultaneous inflation of both kissing stents

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Step 10: final result
Check in & outflow regions

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Begraft CERAB

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Different possible CERAB configurations with BX covered stents

Courtesy of Peter Goverde MD
• Future CERAB made of:
  • Main body:
    – BeGraft Aortic Bentley Bx
    – **Diameters** 12-14-16-18-20-22-24mm
    – Largest Can been postdilated up to max 28 mm
    – **Length** :
    – 19-28- 37-57mm
  • Legs:
    – BeGraft Bentley Bx Bx
    – **Diameters** 6 to 10mm
    – **Length** : 28 (27)-38(37)-58(57)
• Can be postdilated
• Less shortening

Courtesy of Peter Goverde MD & Bentley
First Begraft CERAB in Antwerp
First Begraft CERAB in Antwerp

Last 2 months
• 2 Begraft CERAB in ZNA Vascular Clinic Antwerp
• 2 Begraft CERAB in Rijnstate Hospital, Arnhem
First Begraft CERAB in Antwerp
First Begraft CERAB in Antwerp
Common Iliac Artery calcification
Common Iliac Artery calcification
First Begraft CERAB in Antwerp
First Begrafit CERAB in Antwerp
First Begraft CERAB in Antwerp
First Begraft CERAB in Antwerp
First Begaft CERAB in Antwerp
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Conclusions

- Our first in man experiences with the Bentley Begraft Aortic were very promising.
- Again we have the ability to use a LD covered stent that goes up to 24 mm.
- The few in vitro tests we did also confirmed the in vivo experiences.
Thank you for your attention
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