

## Case Study

# Covered endovascular reconstruction of aortic bifurcation (CERAB)



### Patient history

Female, 54 years, BMI 30. No pre-existing conditions. Smoker. Progressively worsening pain in both legs. Brought to ER due to critical ischemia of both legs.

### Examination

Computed Tomography (CT)

### Diagnosis

Leriche Syndrome, stage III

### Can your c-arm show you images like this?

Capturing the aortic stent in AP view means highlighting a high-density structure (the stent) over another high-density object (the spine). The task is even harder when the patient size is larger.

**Cios Alpha** delivers excellent image quality with large BMI patients and complex views, without overheating the system and at a low radiation dose.



52 minute  
procedure time



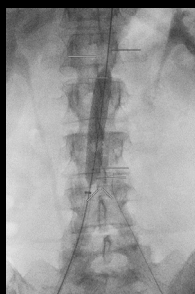
80 mL



11 [Gy\*cm<sup>2</sup>]



DSA to confirm  
total occlusion of  
the distal.



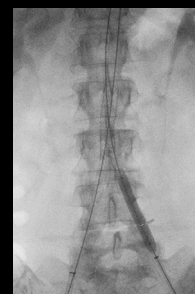
Live Graphical Overlay  
is used to mark renal  
arteries, balloon  
shoulders and aortic  
bifurcation to guide  
the next steps of the  
procedure.



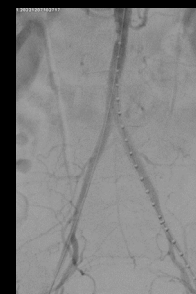
Fully covered balloon-  
expandable stent  
graft implantation  
Bentley BeGraft  
aortic 12mm x 49mm.



Control DSA after  
CERAB shows a  
dissection in the left  
common iliac artery.



Deployment of  
8x49mm balloon  
expandable iliac  
stent to exclude  
dissection.



Repetition of control  
DSA shows no  
dissection.

Explore our portfolio of mobile c-arms for vascular surgery

Our team. Built to support yours.

➔ [siemens-healthineers.us/vascular-mobile-c-arm](https://siemens-healthineers.us/vascular-mobile-c-arm)

**SIEMENS**  
Healthineers

Courtesy of Dr. Marc Weigand, MD, Alb Fils Kliniken, Göppingen, Germany

**Siemens Healthineers** pioneers breakthroughs in healthcare. For everyone. Everywhere. Sustainably. The company is a global provider of healthcare equipment, solutions and services, with activities in more than 180 countries and direct representation in more than 70. The group comprises Siemens Healthineers AG, listed as SHL in Frankfurt, Germany, and its subsidiaries. As a leading medical technology company, Siemens Healthineers is committed to improving access to healthcare for underserved communities worldwide and is striving to overcome the most threatening diseases. The company is principally active in the areas of imaging, diagnostics, cancer care and minimally invasive therapies, augmented by digital technology and artificial intelligence. In fiscal 2024, which ended on September 30, 2024, Siemens Healthineers had approximately 72,000 employees worldwide and generated revenue of around €22.4 billion.

Further information is available at [www.siemens-healthineers.com](http://www.siemens-healthineers.com).

The outcomes and statements provided by customers of Siemens Healthineers are unique to each customer's setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, and level of service/technology adoption), there can be no guarantee that others will achieve the same results.

On account of certain regional limitations of sales rights and service availability, we cannot guarantee that all products included in this brochure are available through the Siemens Healthineers sales organization worldwide. Availability and packaging may vary by country and is subject to change without prior notice. Some/All of the features and products described herein may not be available in the United States.

The information in this document contains general technical descriptions of specifications and options as well as standard and optional features, which do not always have to be present in individual cases.

Siemens Healthineers reserves the right to modify the design, packaging, specifications, and options described herein without prior notice. For the most current information, please contact your local sales representative from Siemens Healthineers.

Note: Any technical data contained in this document may vary within defined tolerances. Original images always lose a certain amount of detail when reproduced.

---

**Siemens Healthineers Headquarters**

Siemens Healthineers AG  
Siemensstr. 3  
91301 Forchheim, Germany  
[siemens-healthineers.com](http://siemens-healthineers.com)

**USA**

Siemens Medical Solutions USA, Inc.  
Healthcare  
40 Liberty Boulevard  
Malvern, PA 19355-9998, USA  
[siemens-healthineers.us](http://siemens-healthineers.us)