Diakonie Klinikum jung-stilling Siegen

Inner branches

Gold Standard for endovascular TAAA repair

UKGM UNIVERSITÄTSKLINIKUM GIESSEN UND MARBURG

Dr. med. Ahmed Koshty

Klinik für Herz-, Kinderherz- und Gefäßchirurgie
Sektion Gefäßchirurgie
Universitätsklinikum Gießen

Klinik für Gefäßchirurgie
Vaskuläre und endovaskuläre Chirurgie
Diakonie Klinikum Jung-Stilling Siegen

Diakonie Klinikum jung-stilling Siegen

Classification of the TAAA

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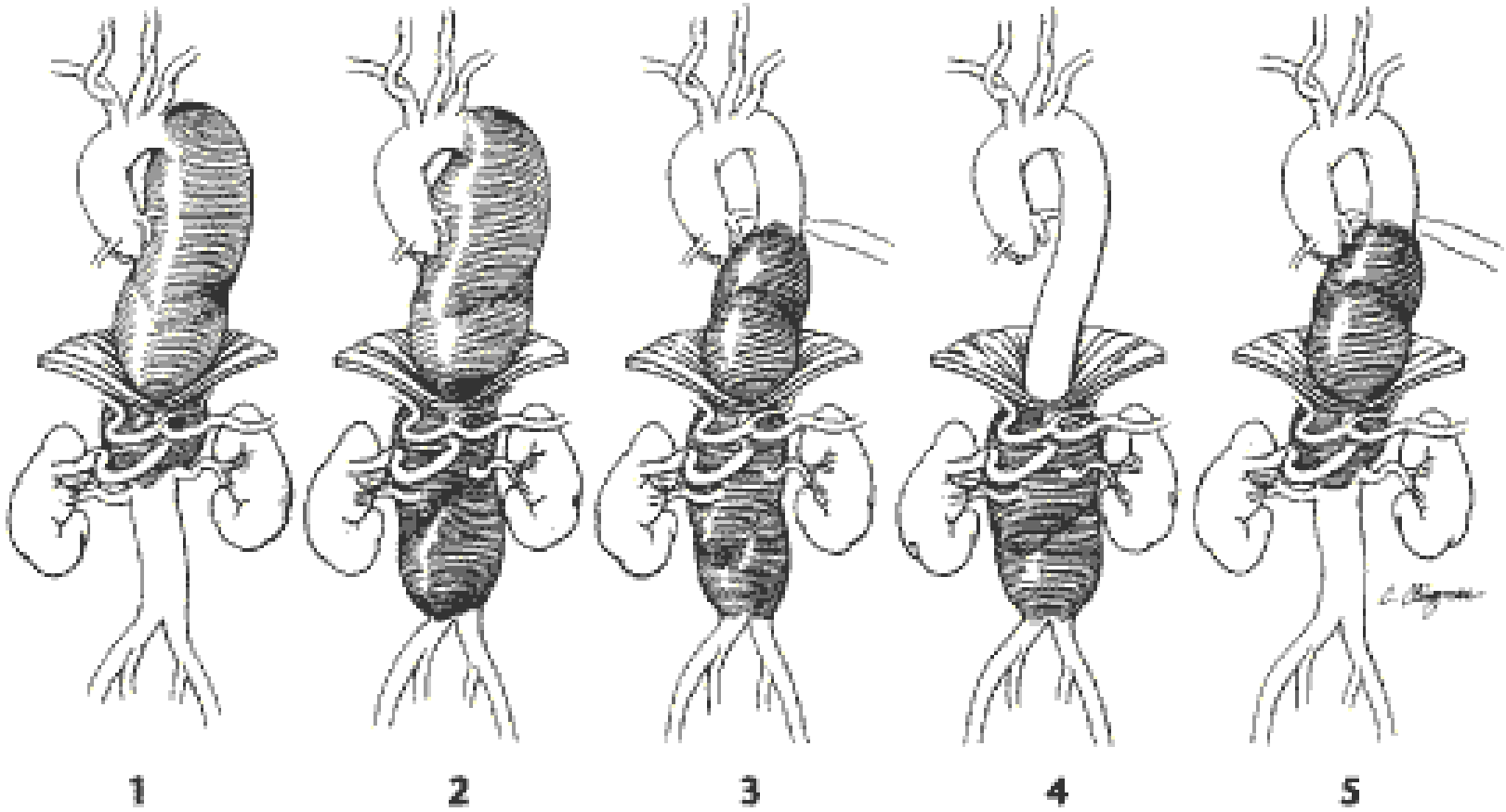

Diakonie Klinikum jung-stilling

Siegen

Open repair

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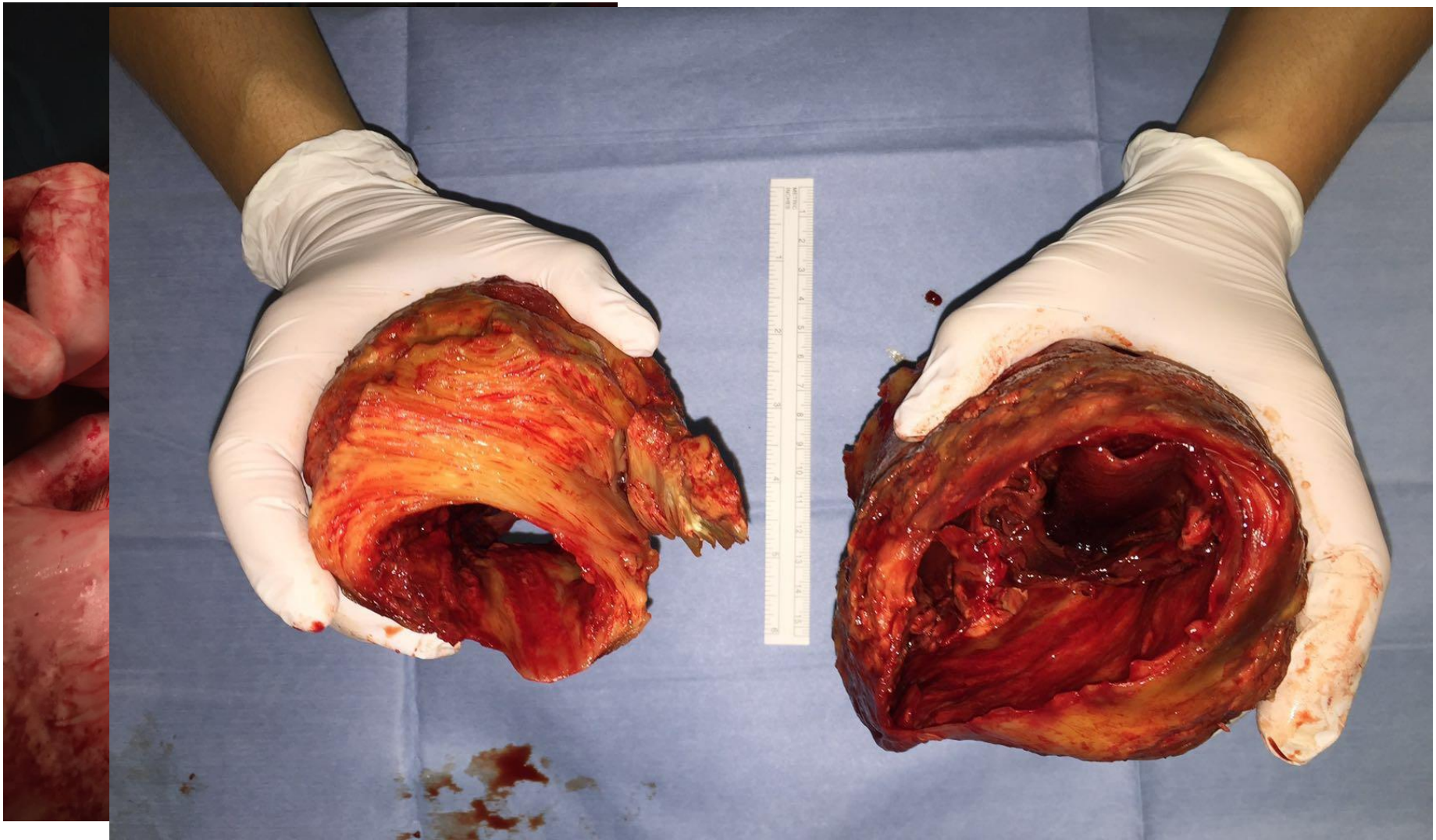

Diakonie Klinikum jung-stilling

Siegen

Open repair

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Diakonie Klinikum jung-stilling Siegen

Endovascular

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Diakonie Klinikum jung-stilling

Siegen

Hybrid

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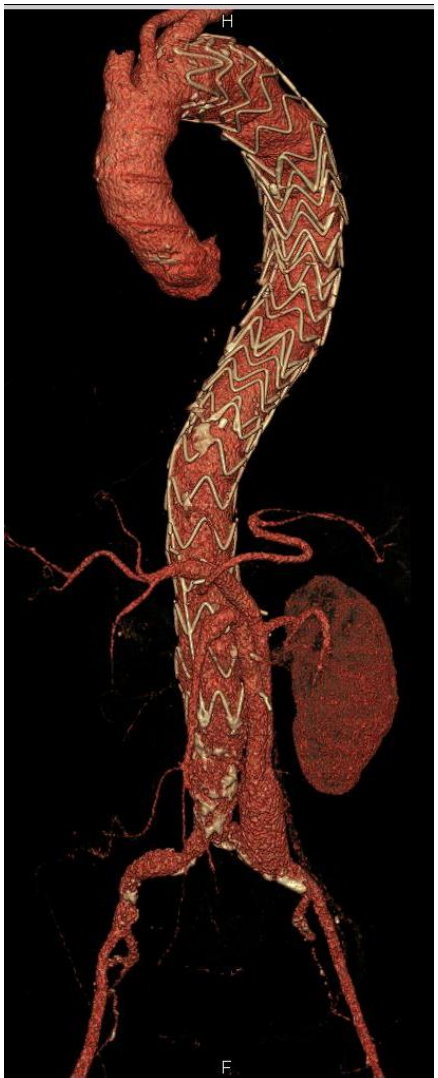

Diakonie Klinikum jung-stilling

Siegen

“Lego Technic”

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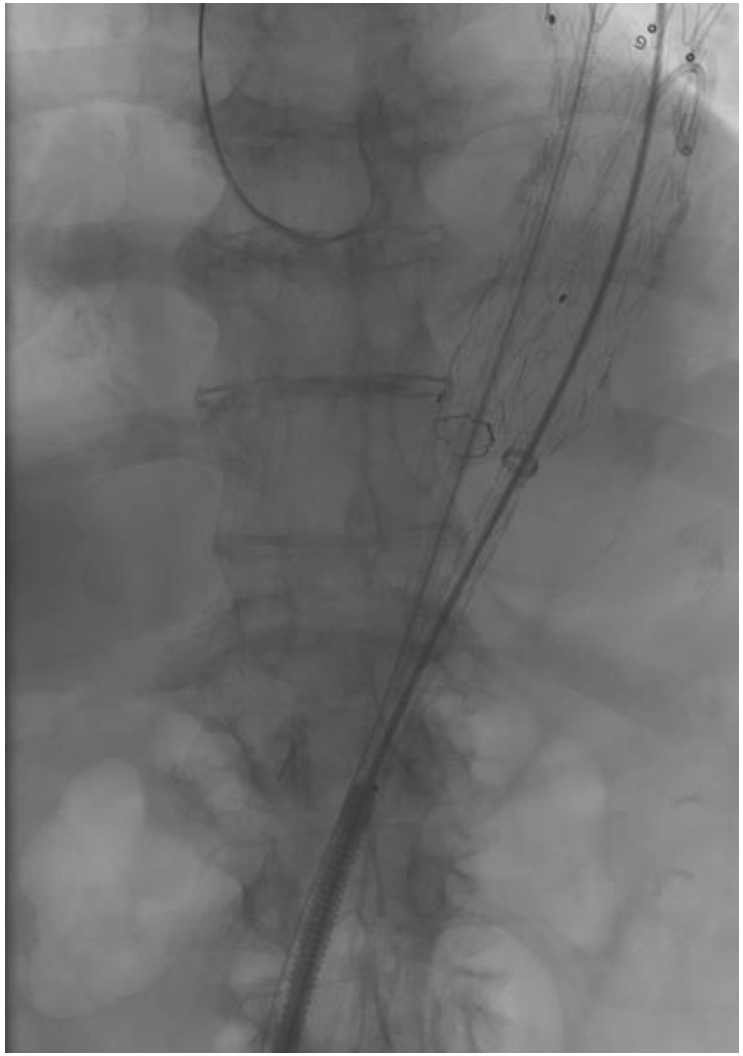

Diakonie Klinikum jung-stilling Siegen

“Lego Technic”

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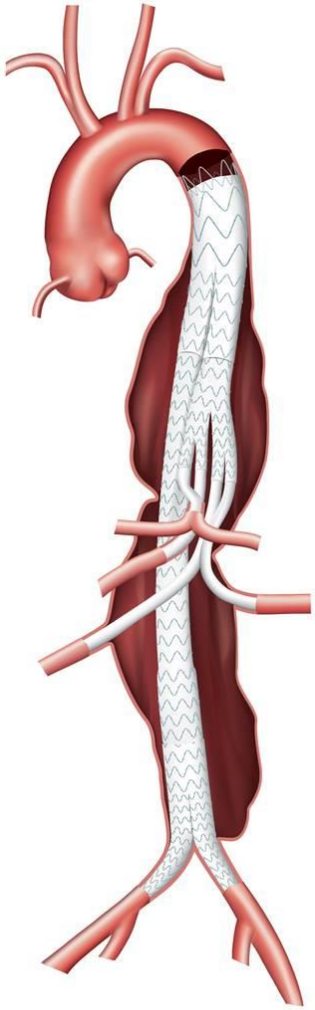

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Combination of “all”

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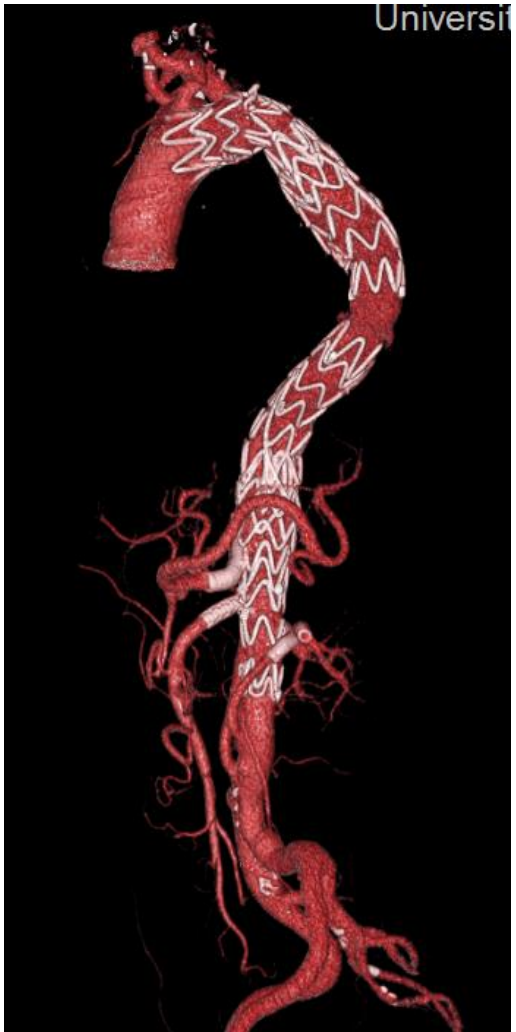

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Endovascular is Superior

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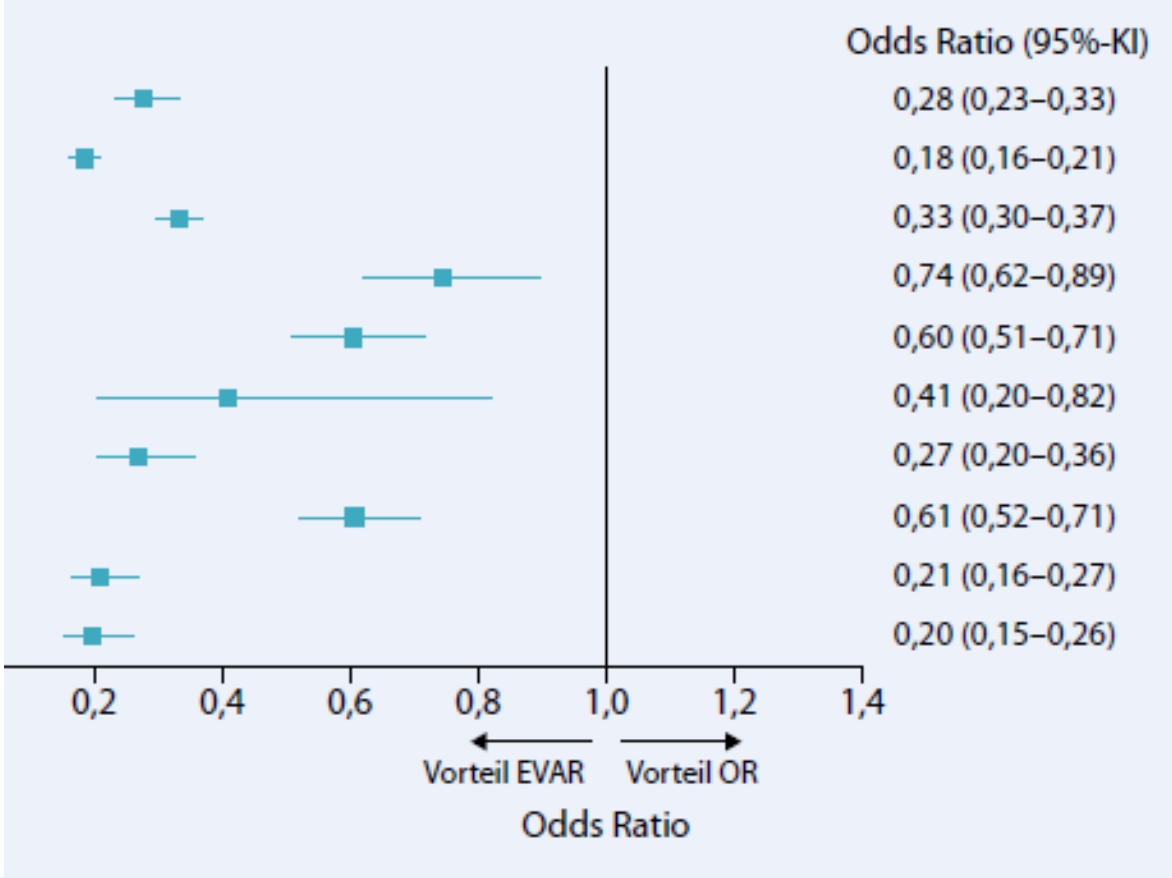

Analysis of the data of the German society of vascular surgery in the time from 1999 to 2012

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Target vessel Patency

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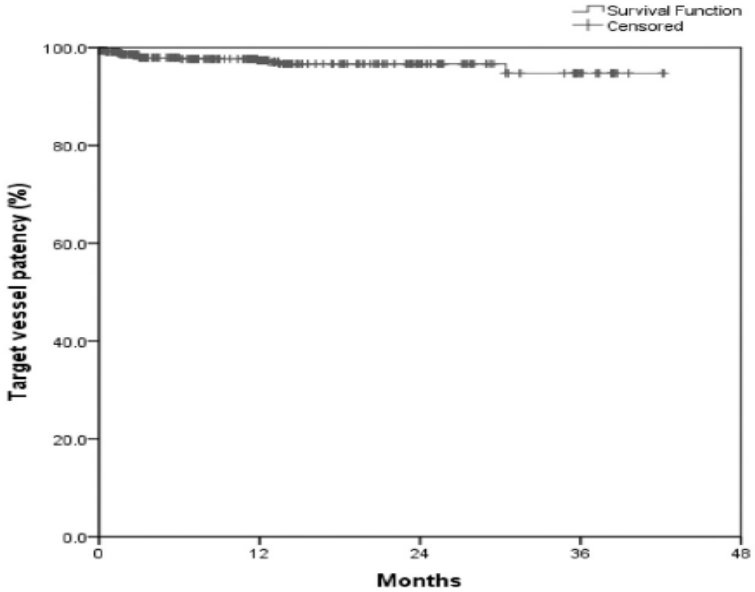
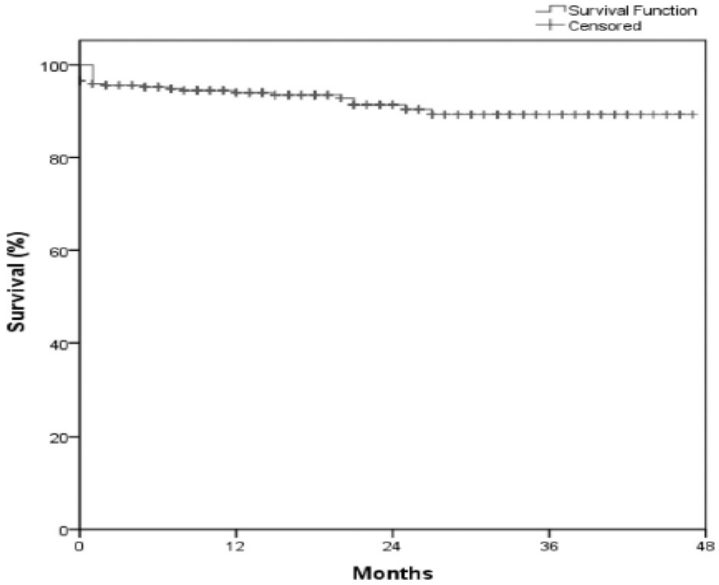
Early Results of Fenestrated Endovascular Repair of Juxtarenal Aortic Aneurysms in the United Kingdom





Time (months)	0	3	6	12	24	36	42
n (TV) at risk	889	573	472	365	149	40	3
Cum Survival (%)	99	98	98	97	97	95	95
Std err (Cum.surv.)	0.00	0.00	0.01	0.01	0.01	0.02	0.02

Time (months)	0	3	6	12	24	36	45
n at risk	318	284	273	215	110	38	12
Cum. Survival (%)	96	95	95	94	91	89	89
Std err (Cum.surv.)	0.01	0.01	0.01	0.01	0.02	0.02	0.02

Diakonie Klinikum jung-stilling

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Frist case

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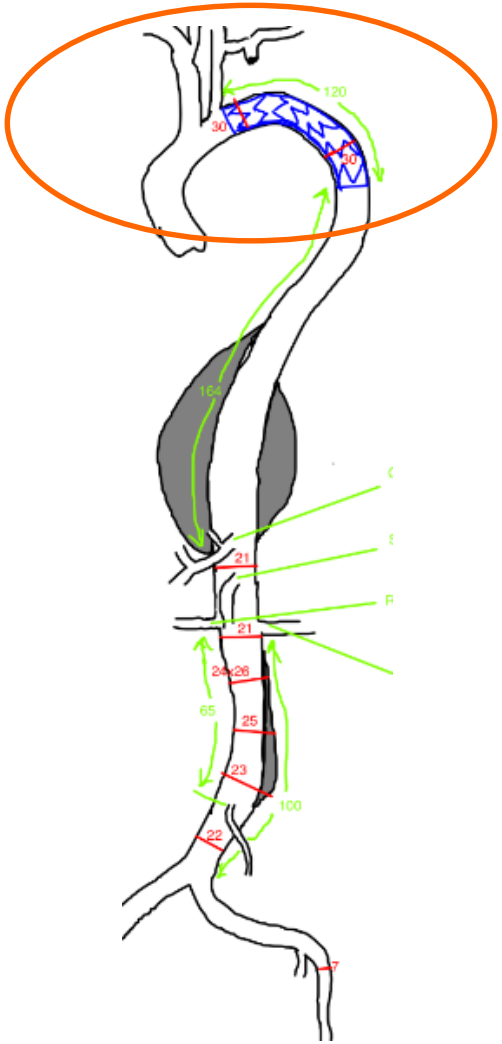

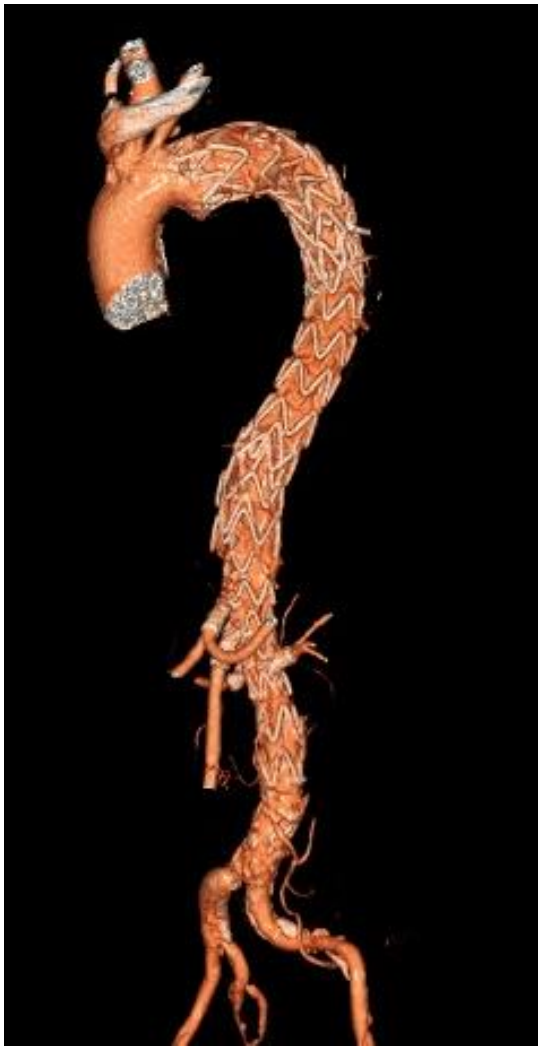

Diakonie Klinikum jung-stilling

Siegen

Retrograde branches

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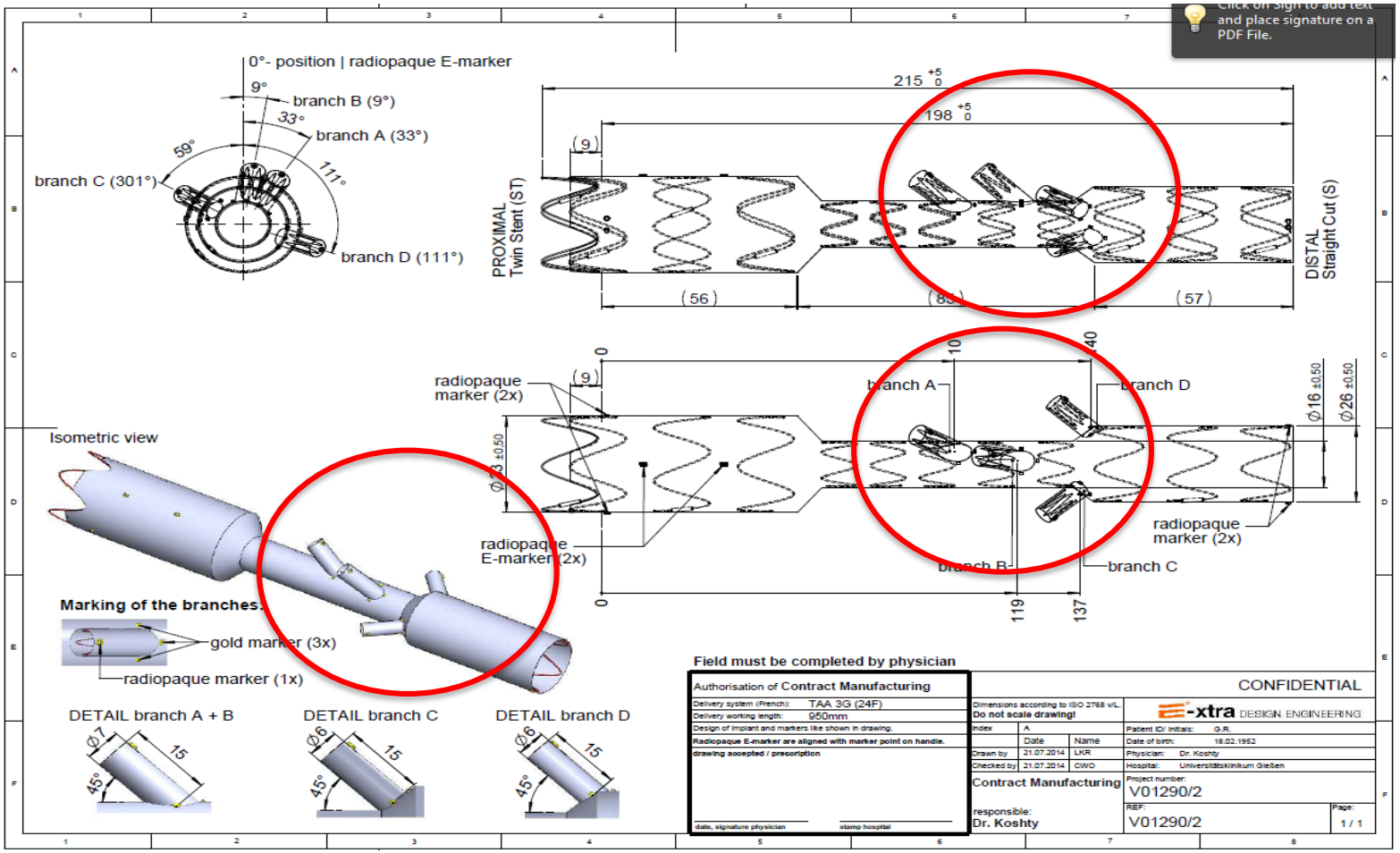
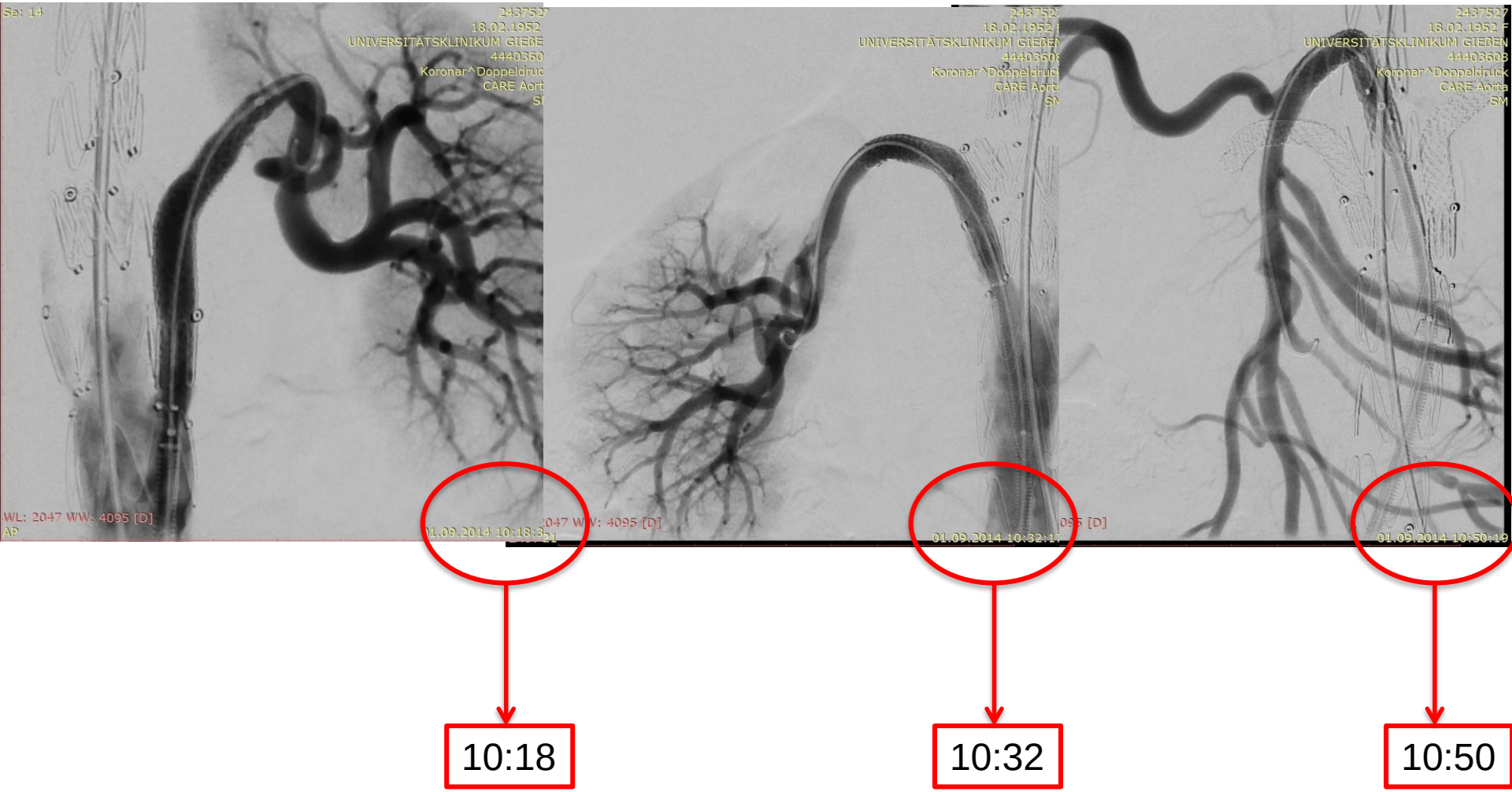


Diakonie Klinikum jung-stilling Siegen

Retrograde branches

UKGM UNIVERSITÄTSKLINIKUM GIESSEN UND MARBURG



Diakonie Klinikum jung-stilling Siegen

Retrograde branches

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Advantages	Disadvantages
•Short ways •Easy navigation of the wires •Big vessels •Less X-Ray •Less c	•Sharp angles •arteri mplications

Managment of the distal Migration

Diakonie Klinikum jung-stilling Siegen

Retrograde branches

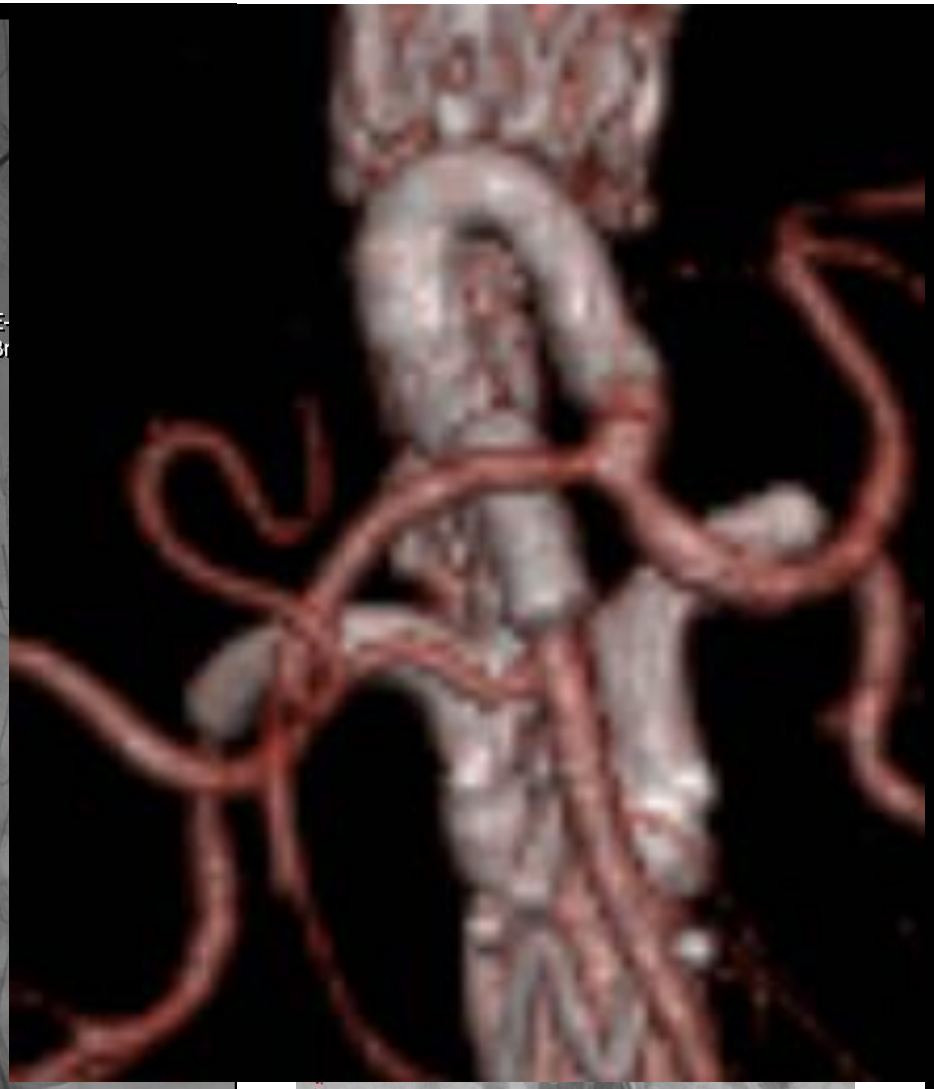
UKGM UNIVERSITÄTSKLINIKUM GIESSEN UND MARBURG

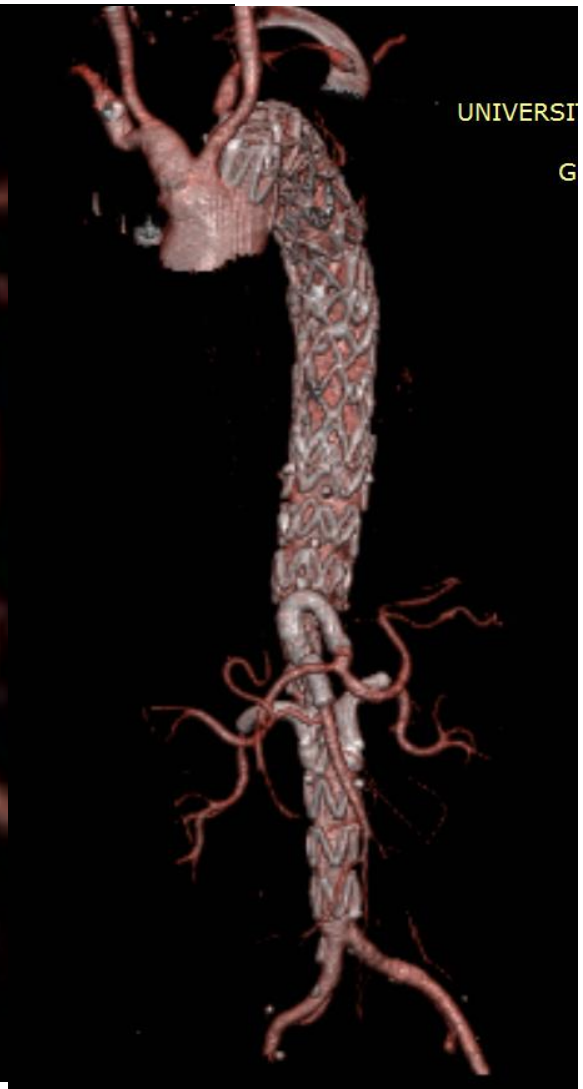
Diakonie Klinikum jung-stilling

Siegen

Retrograde branches

UKGM UNIVERSITÄTSKLINIKUM GIESSEN UND MARBURG





Diakonie Klinikum jung-stilling Siegen

Development of an off the shelf endograft

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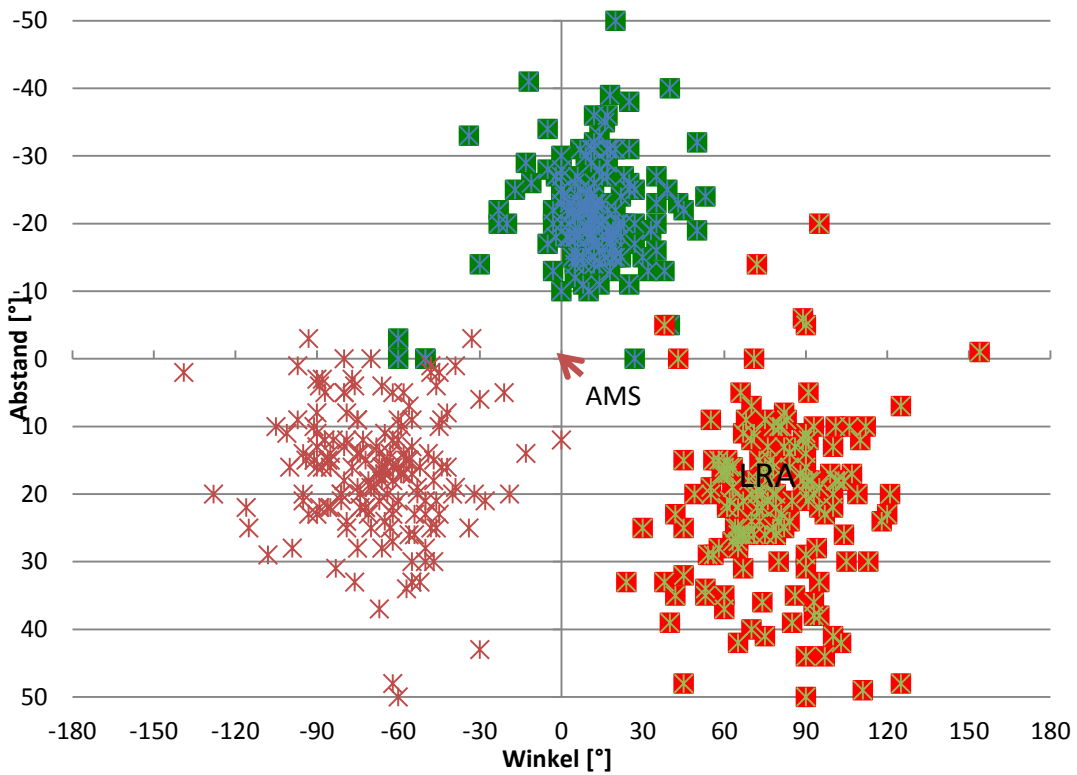
distance



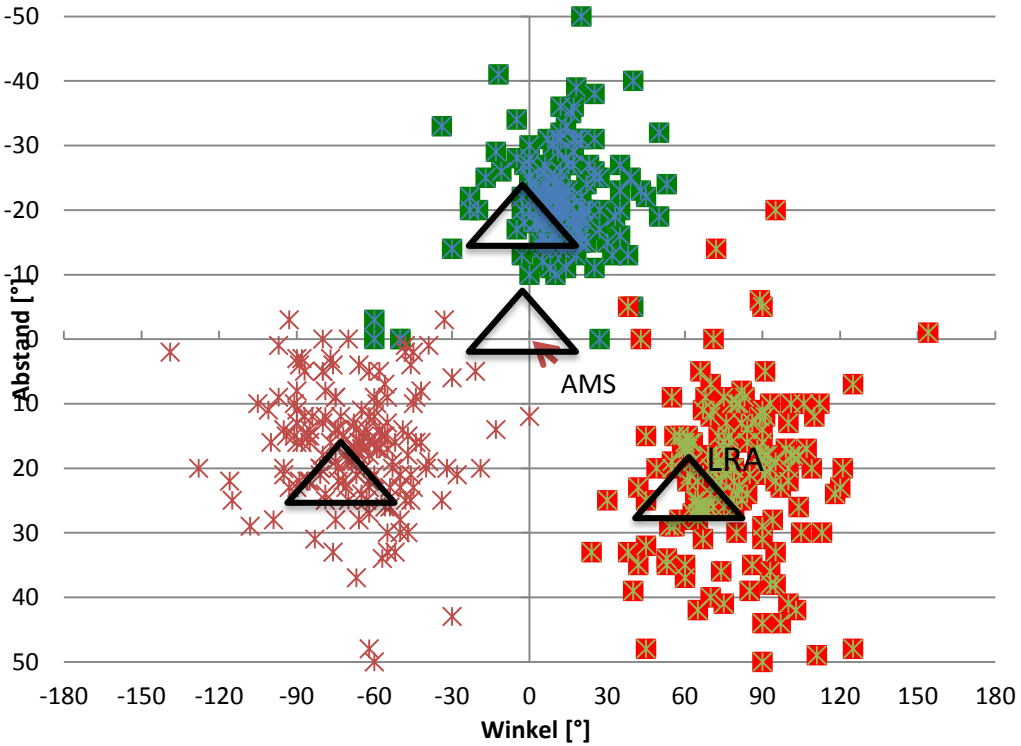
Development of an off the shelf endograft

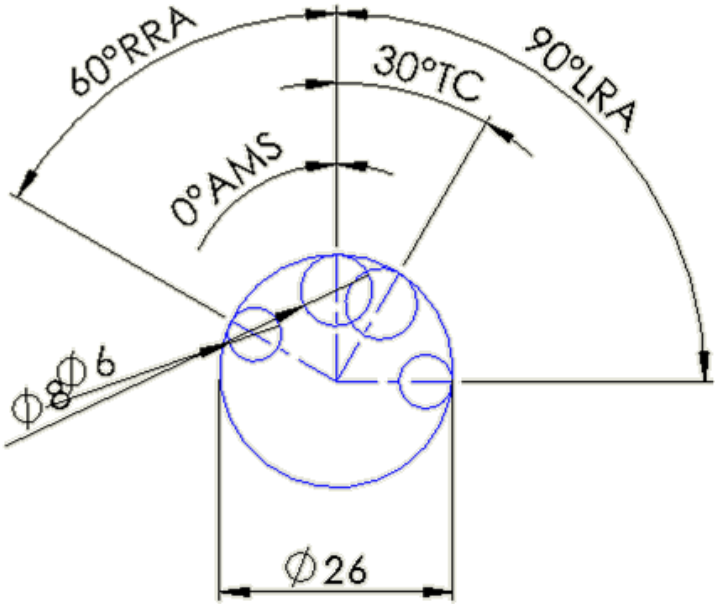
Diakonie Klinikum jung-stilling Siegen

Development of an off the shelf endograft E-nside®

UKGM UNIVERSITÄTSKLINIKUM GIESSEN UND MARBURG

ROTATION





E-NSIDE
TAAA MULTIBRANCH STENT GRAFT

JOTEC®

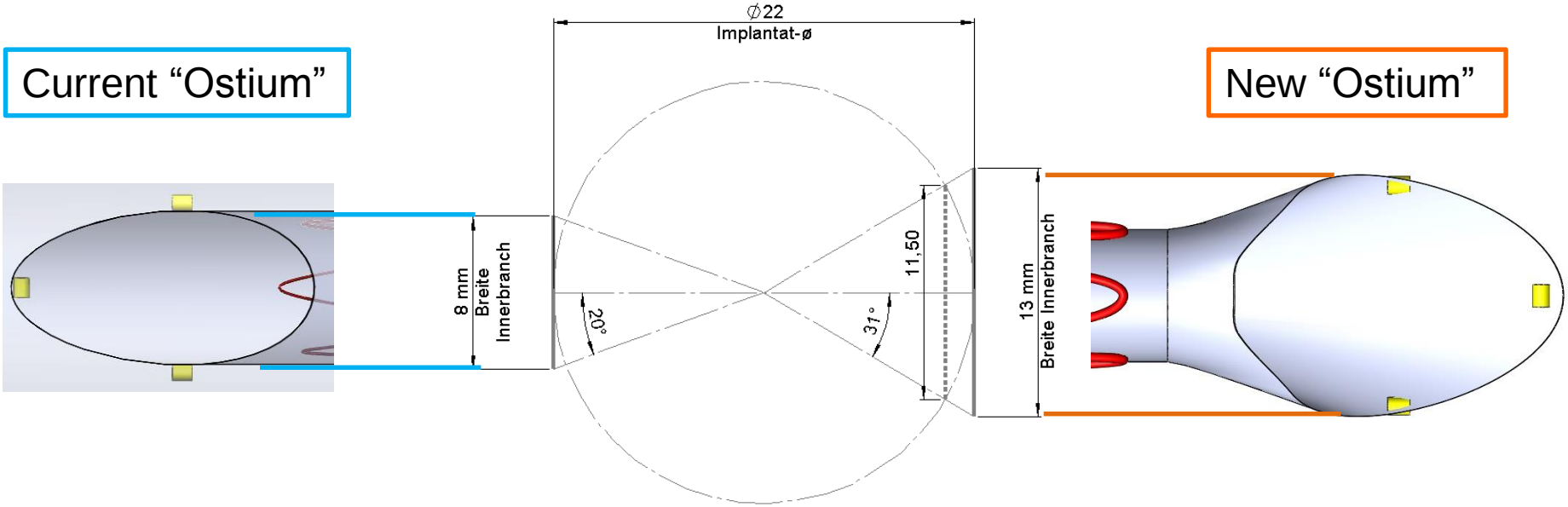
Diakonie Klinikum jung-stilling Siegen

Ostium

UKGM UNIVERSITÄTSKLINIKUM GIESSEN UND MARBURG

Current “Ostium”

New “Ostium”



Diakonie Klinikum jung-stilling Siegen

Ostium

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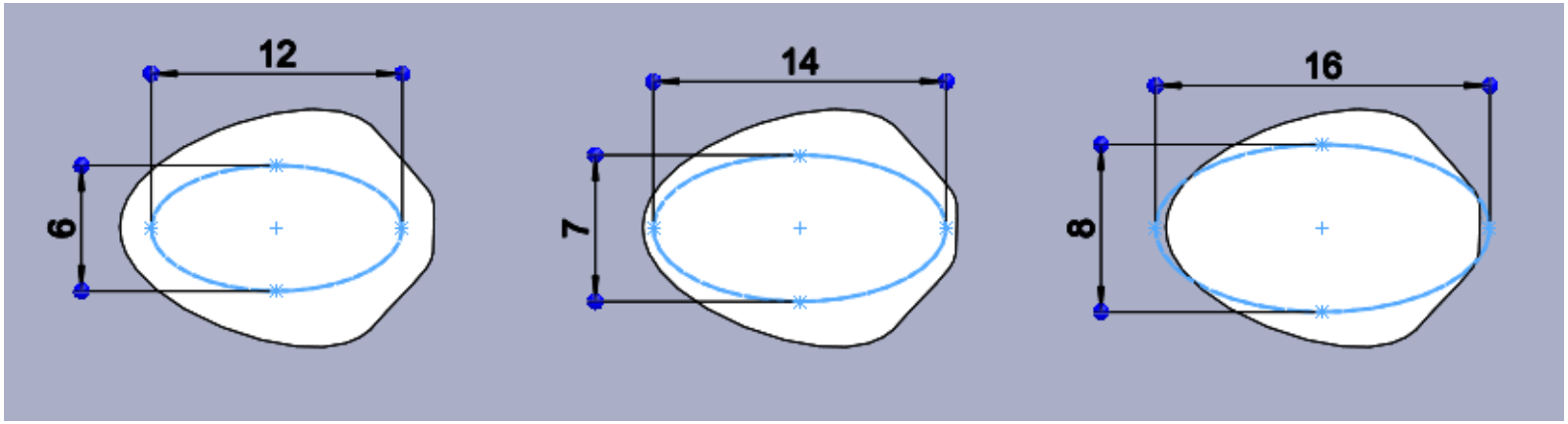
Bigger Ostium



- Now

Ø 6	L = 12 mm	B = 6 mm
Ø 7	L = 14 mm	B = 7 mm
Ø 8	L = 16 mm	B = 8 mm

- Comming soon

Ø 6	L = 15 mm	B = 13 mm
Ø 7	L = 15 mm	B = 13 mm
Ø 8	L = 15 mm	B = 13 mm

Diakonie Klinikum jung-stilling

Siegen

E-nside

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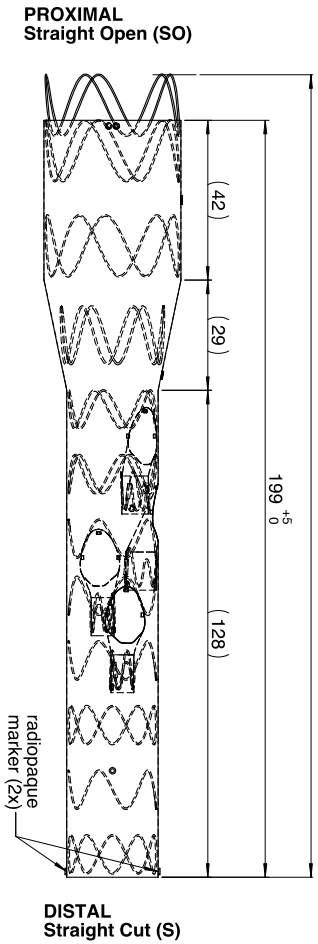
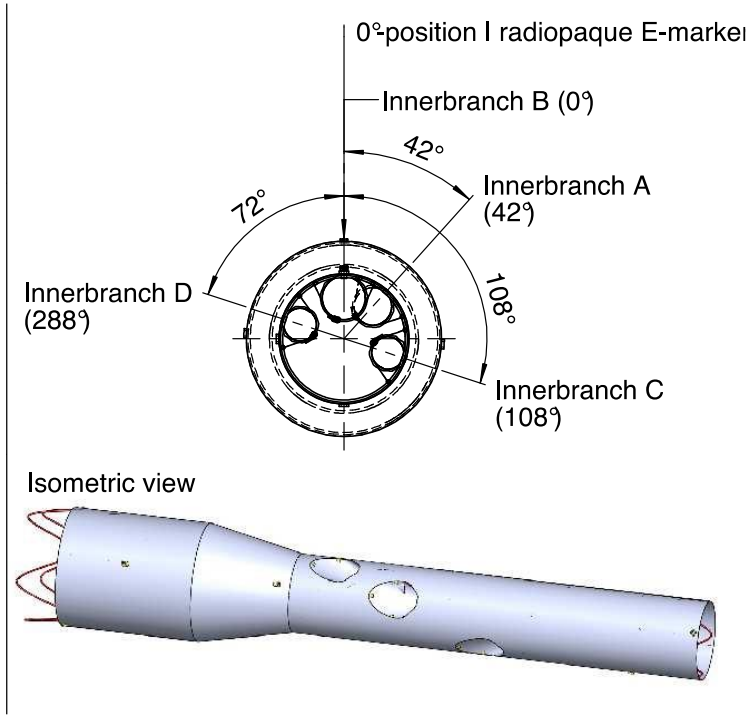
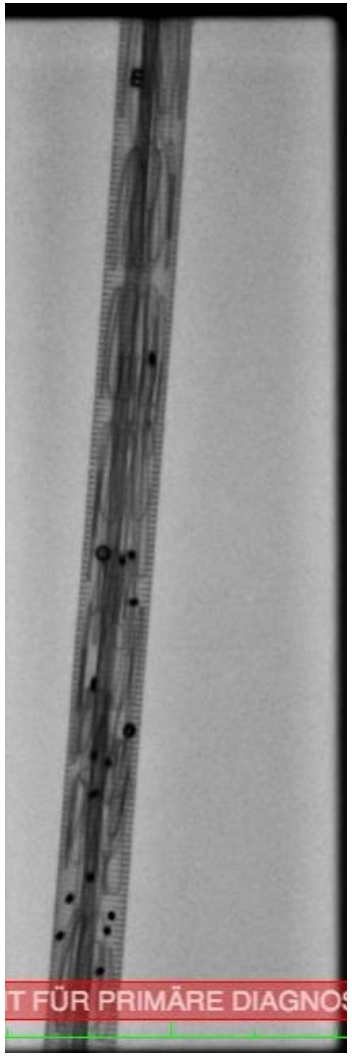




Diakonie Klinikum jung-stilling Siegen

E-nside

UKGM UNIVERSITÄTSKLINIKUM GIESSEN UND MARBURG



Diakonie Klinikum jung-stilling

Siegen

Ostium

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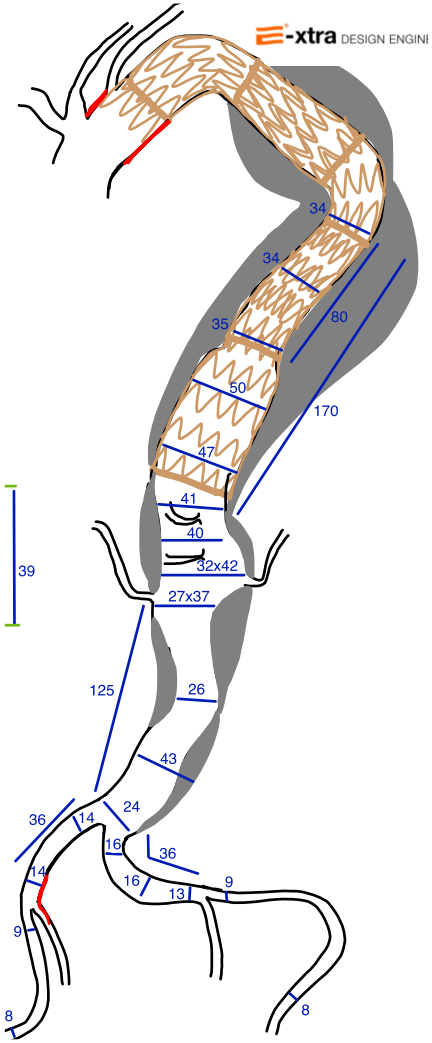
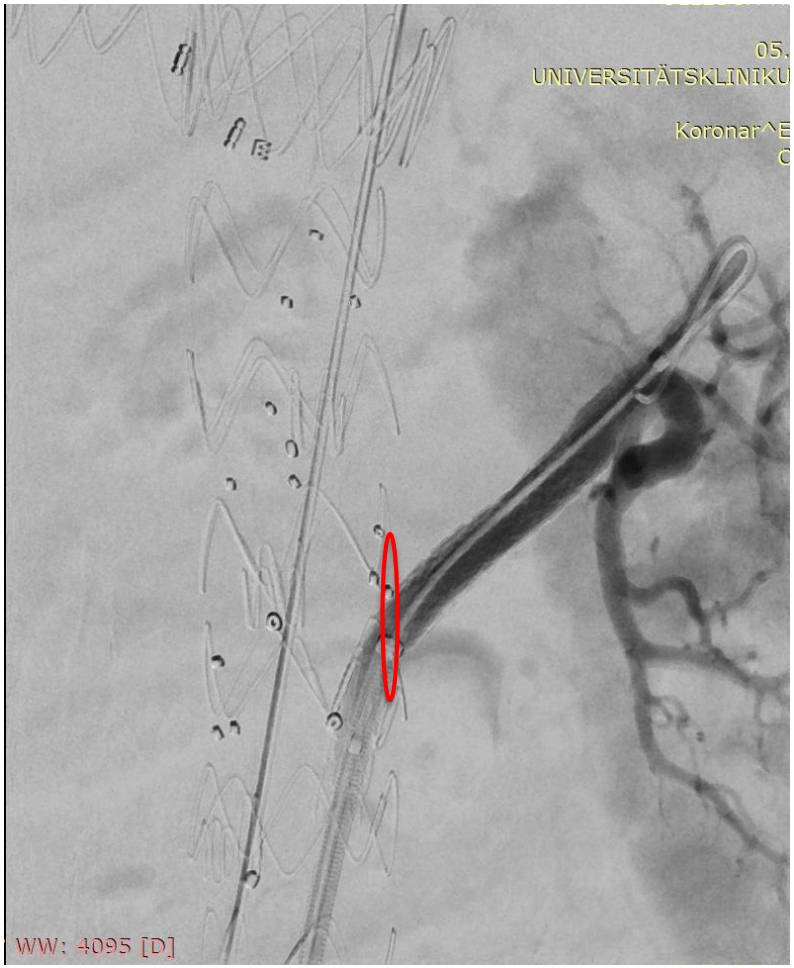




Diakonie Klinikum jung-stilling Siegen

E-nside

UKGM UNIVERSITÄTSKLINIKUM GIESSEN UND MARBURG

09:43

09:56

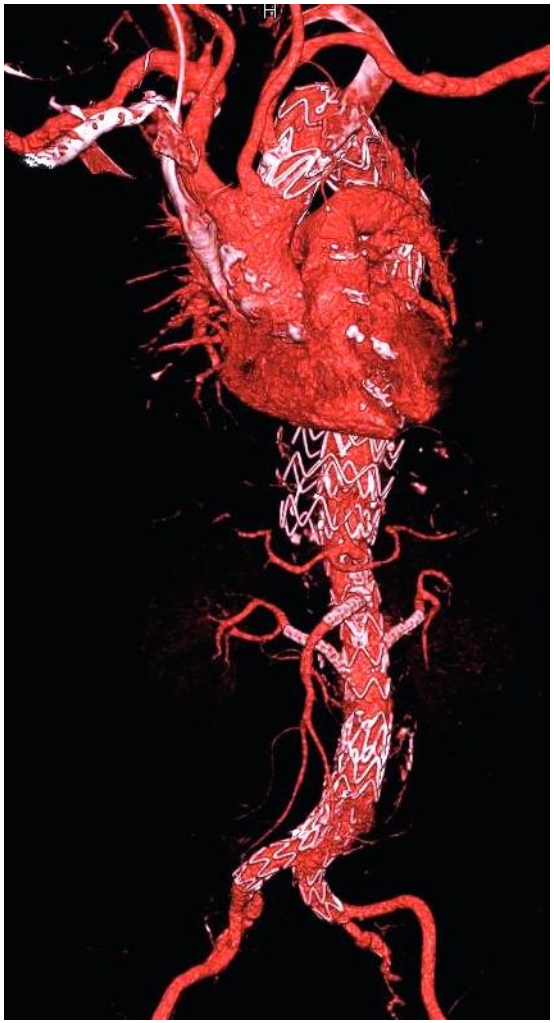
10:03

10:11

Diakonie Klinikum jung-stilling Siegen

E-nside

UKGM UNIVERSITÄTSKLINIKUM GIESSEN UND MARBURG



Diakonie Klinikum jung-stilling Siegen

E-nside

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Diakonie Klinikum jung-stilling Siegen

E-nside

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Ruptured TAAA

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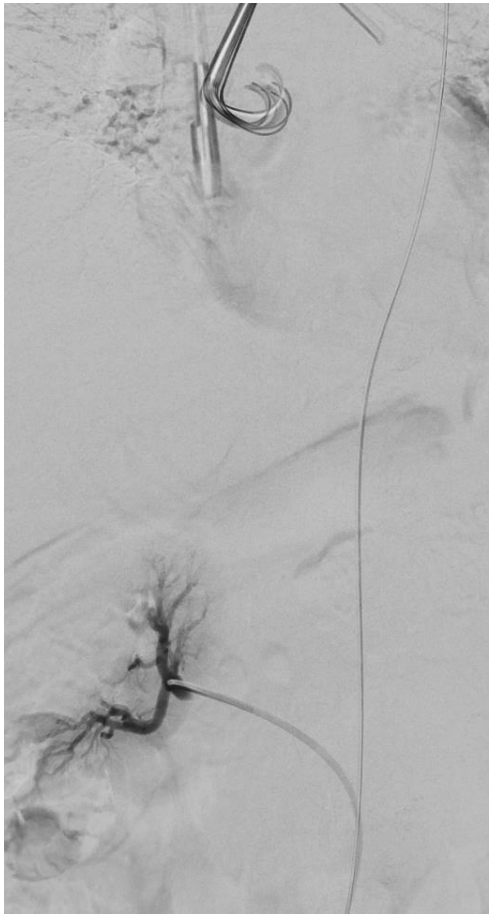

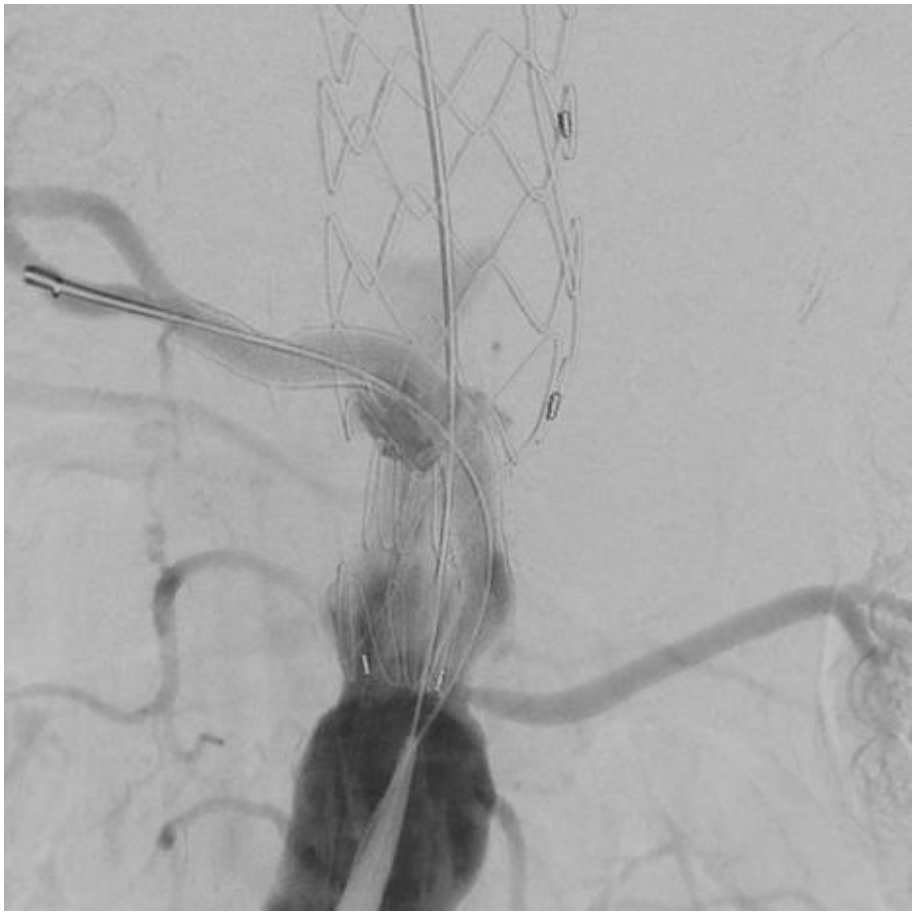

Diakonie Klinikum jung-stilling Siegen

Endolakes 1b

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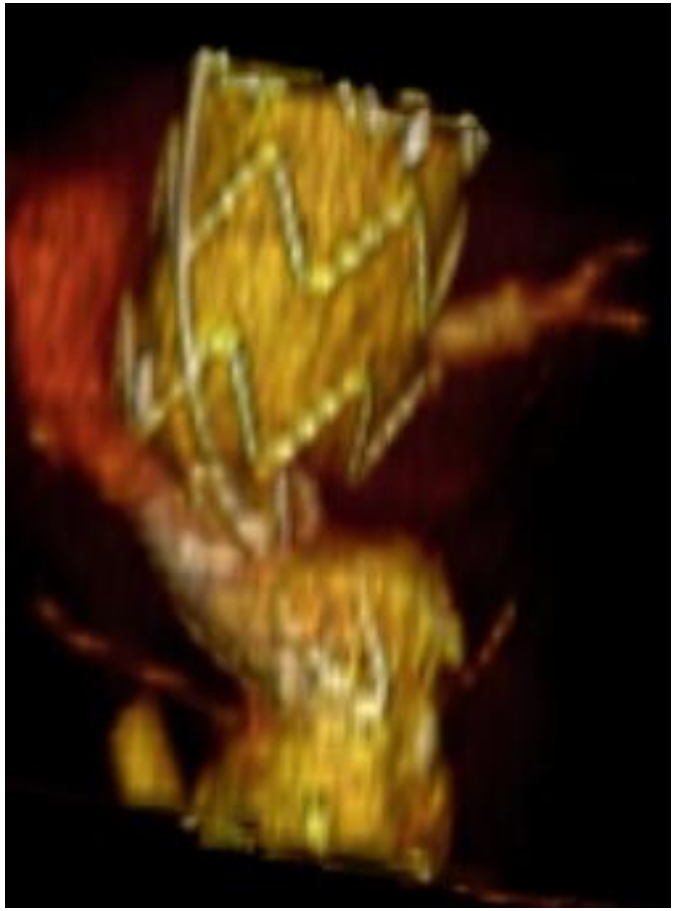
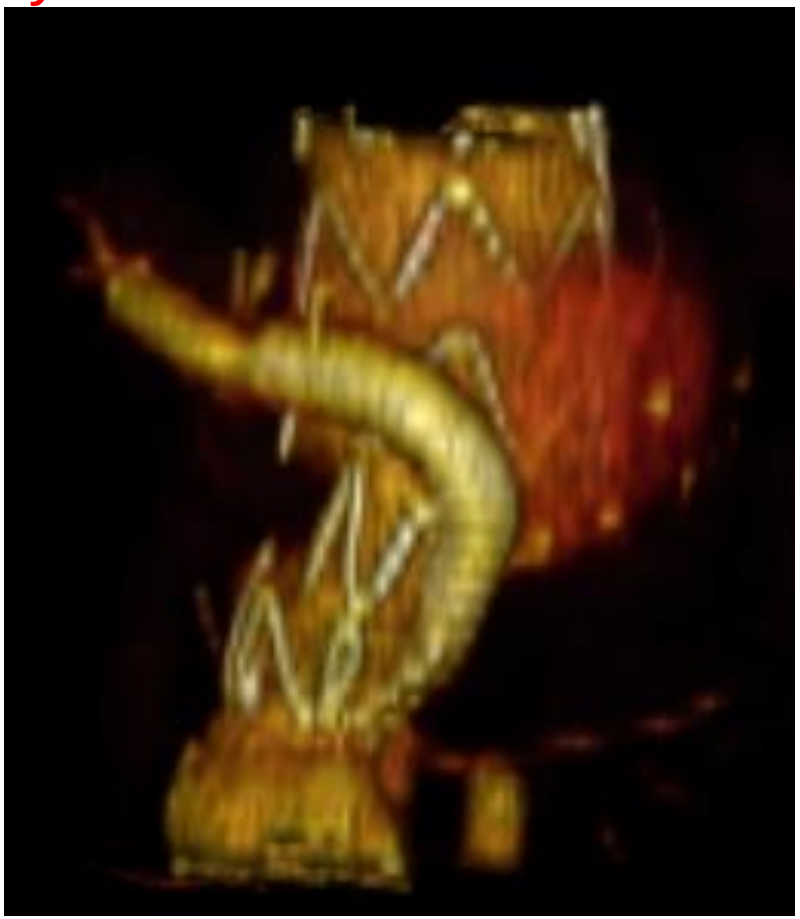
reversed chimney





Diakonie Klinikum jung-stilling

Siegen

Repair of Endolake

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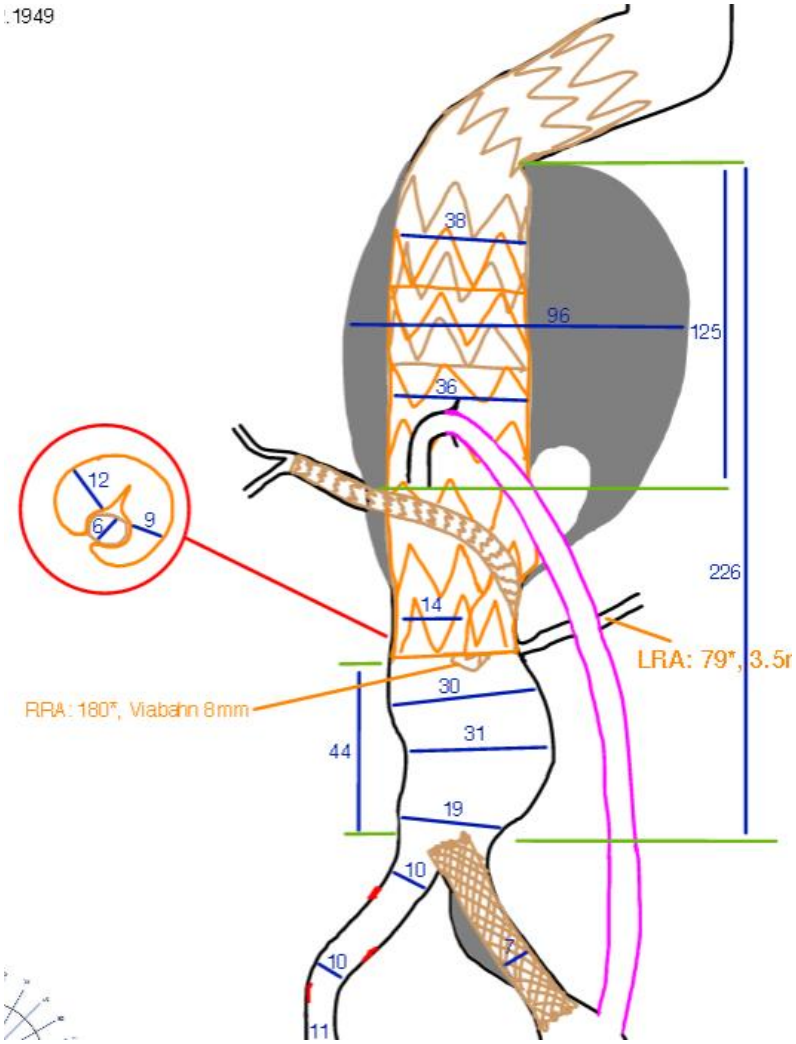

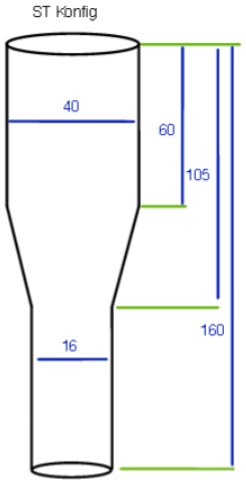

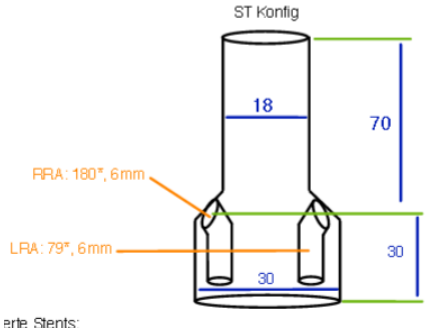

Diakonie Klinikum jung-stilling Siegen

Repair of Endolake

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Right Renal (Viabahn)

Lift renal

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Repair of Endolake

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Diakonie Klinikum jung-stilling

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Repair of Endolake

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Diakonie Klinikum jung-stilling Siegen

Inner branches

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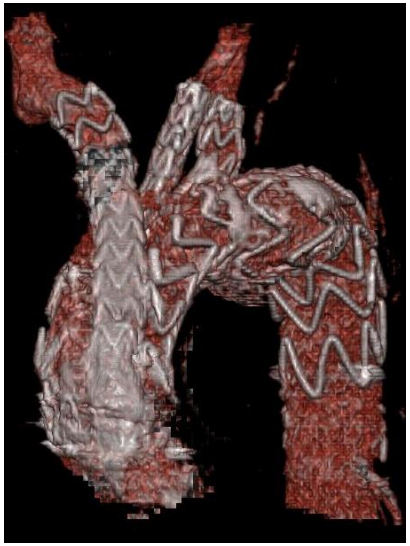

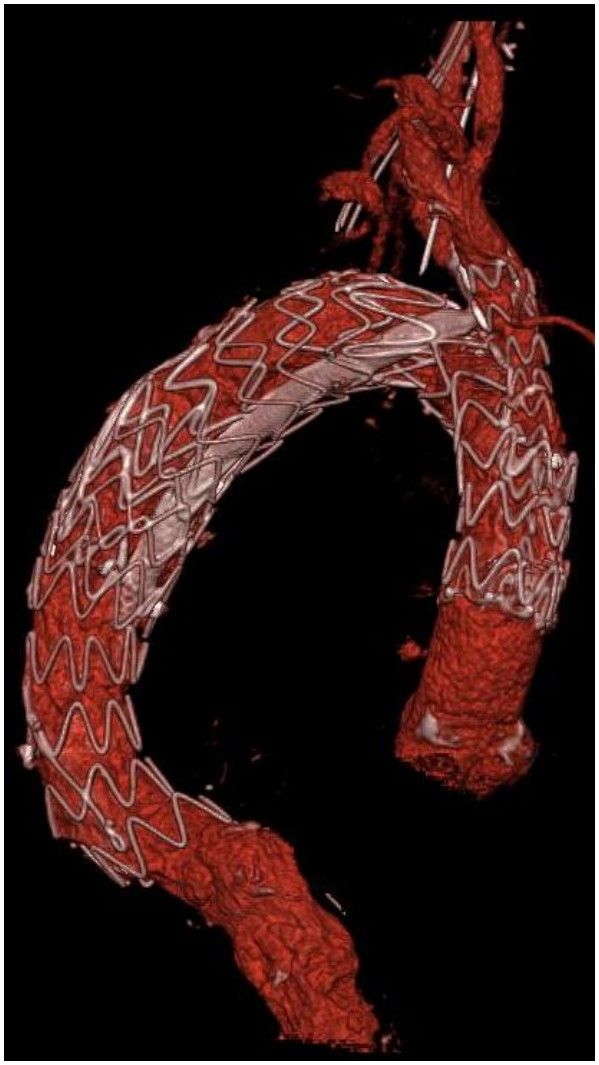

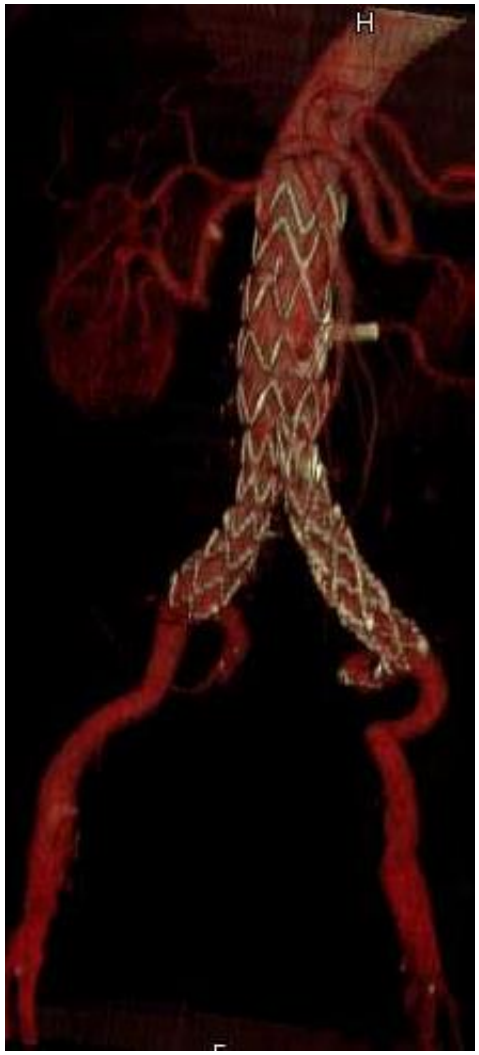

Diakonie Klinikum jung-stilling Siegen

Summary

UKGM UNIVERSITÄTSKLINIKUM GIESSEN UND MARBURG

The Planning of the E-xtra Design Prosthesis has to be individual.

The retrograde implantation of the Inner branches seems to be technically easier.
“ Rand. Studies”

The E-xtra Design Prosthesis offers solutions in complicated cases.

The development of “off the shelf” endografts is important in the treatment of emergency cases.

Diakonie
Klinikum
jung-stilling
Siegen

UKGM
UNIVERSITÄTSKLINIKUM
GIESSEN UND MARBURG