

Choosing the right FEVAR for the right patient

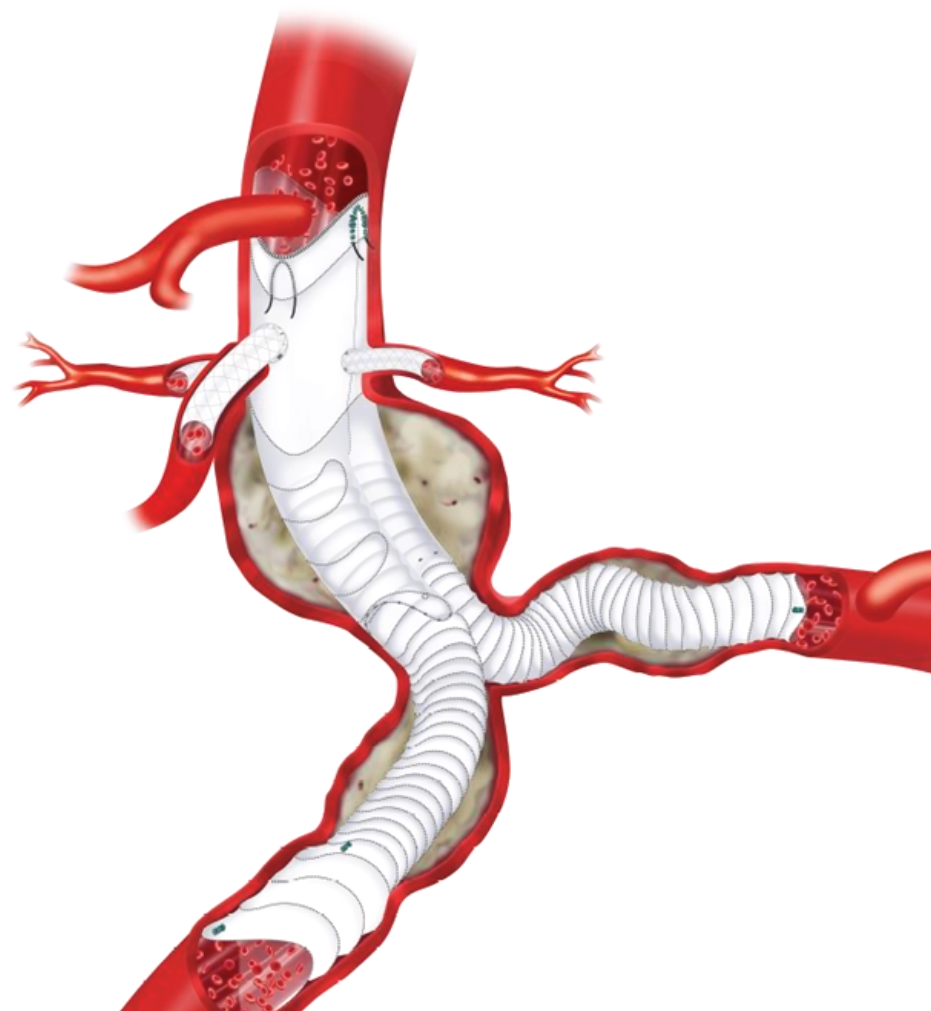
Jürgen Falkensammer

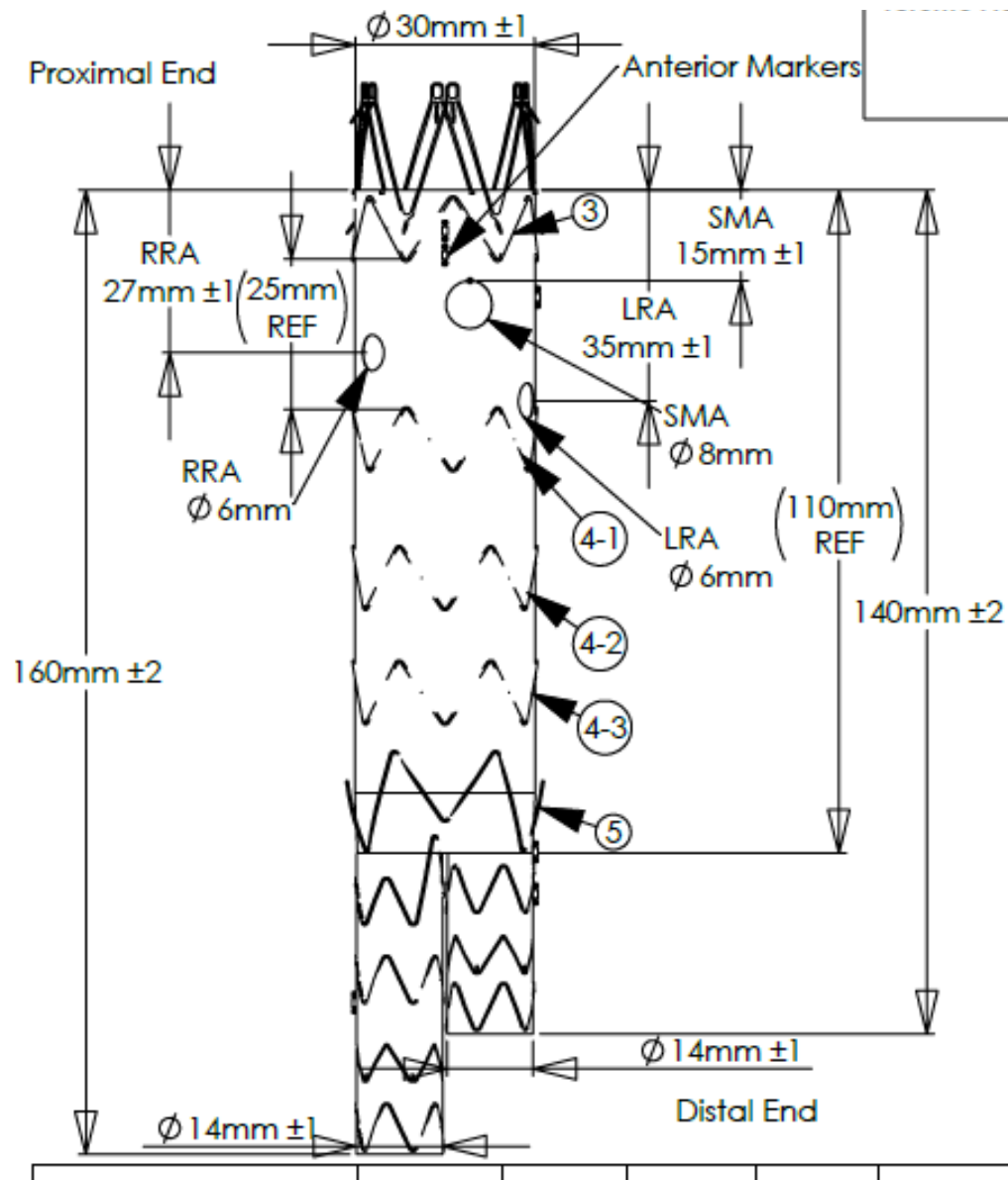
Disclosures

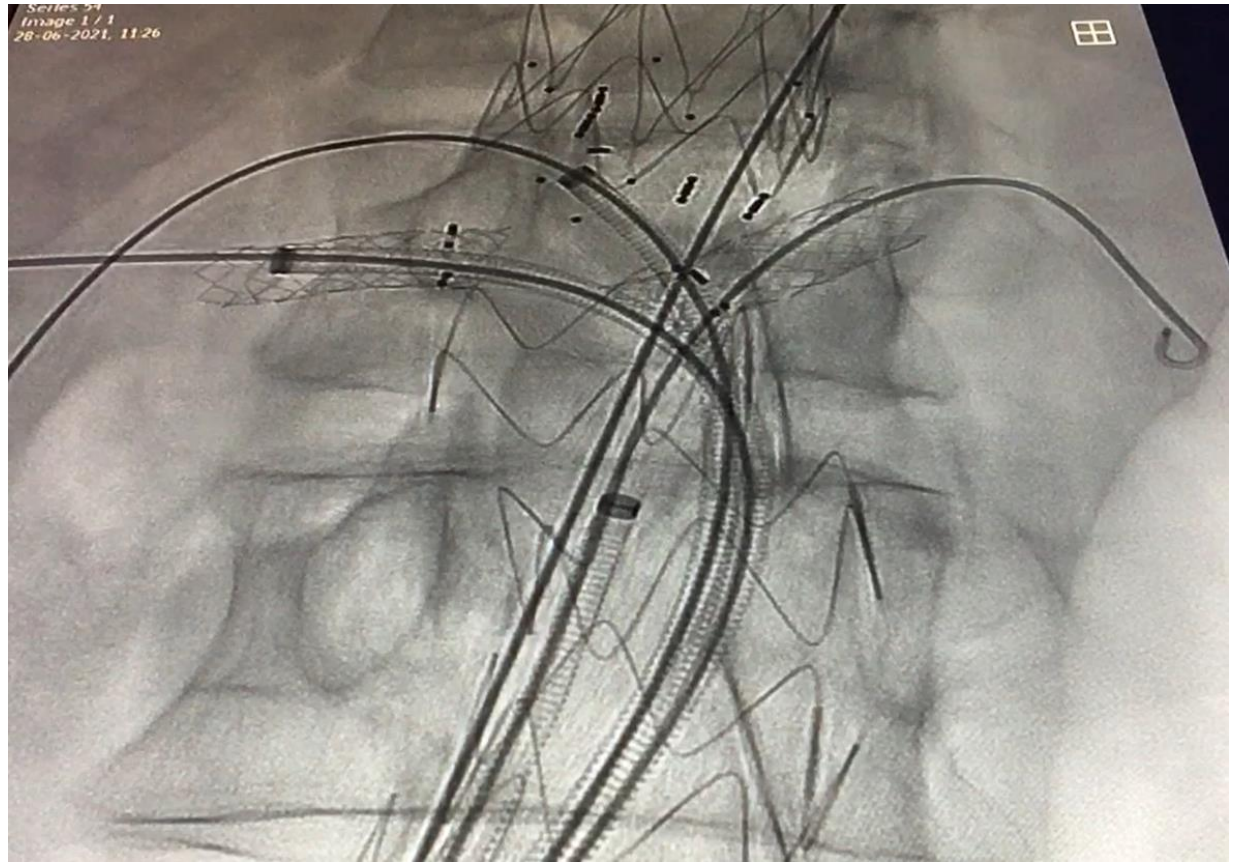
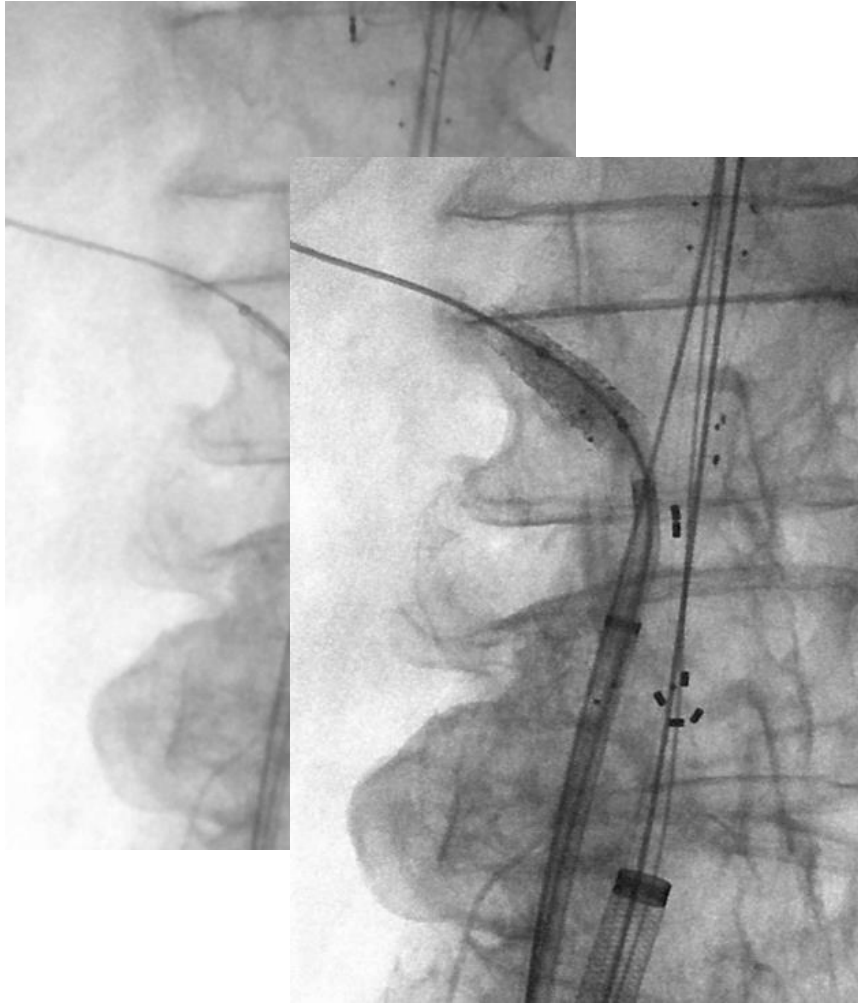
Speaker name: Jürgen Falkensammer

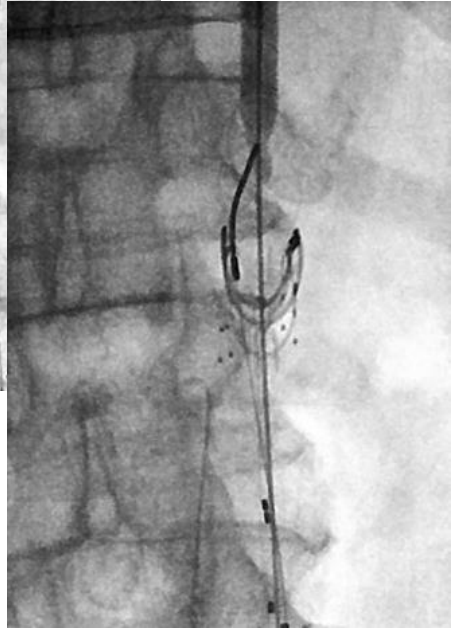
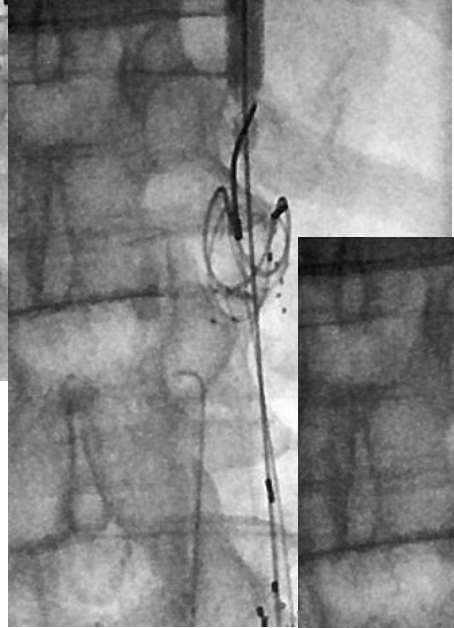
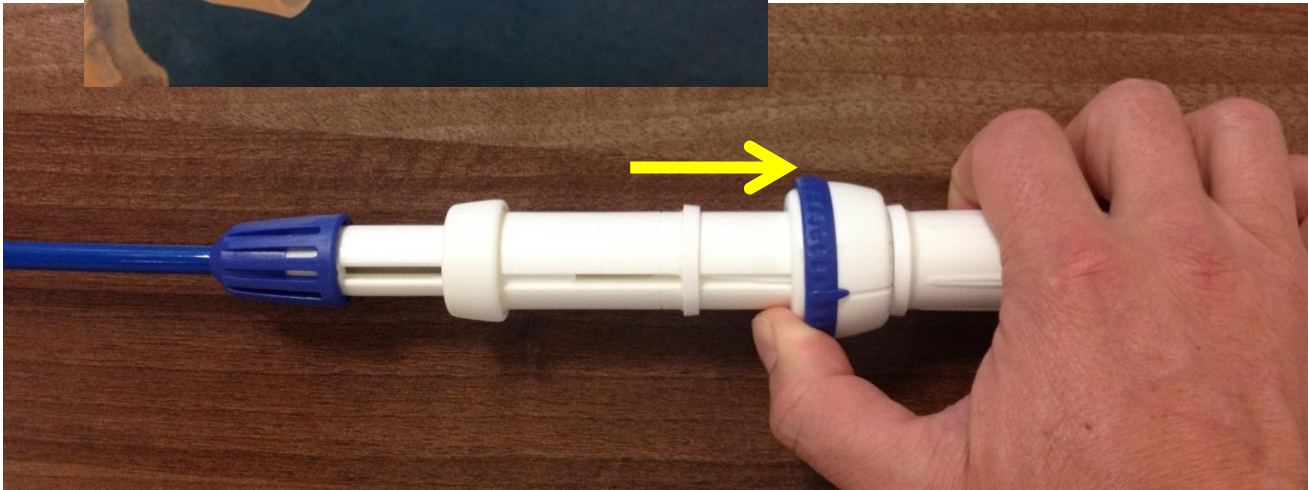
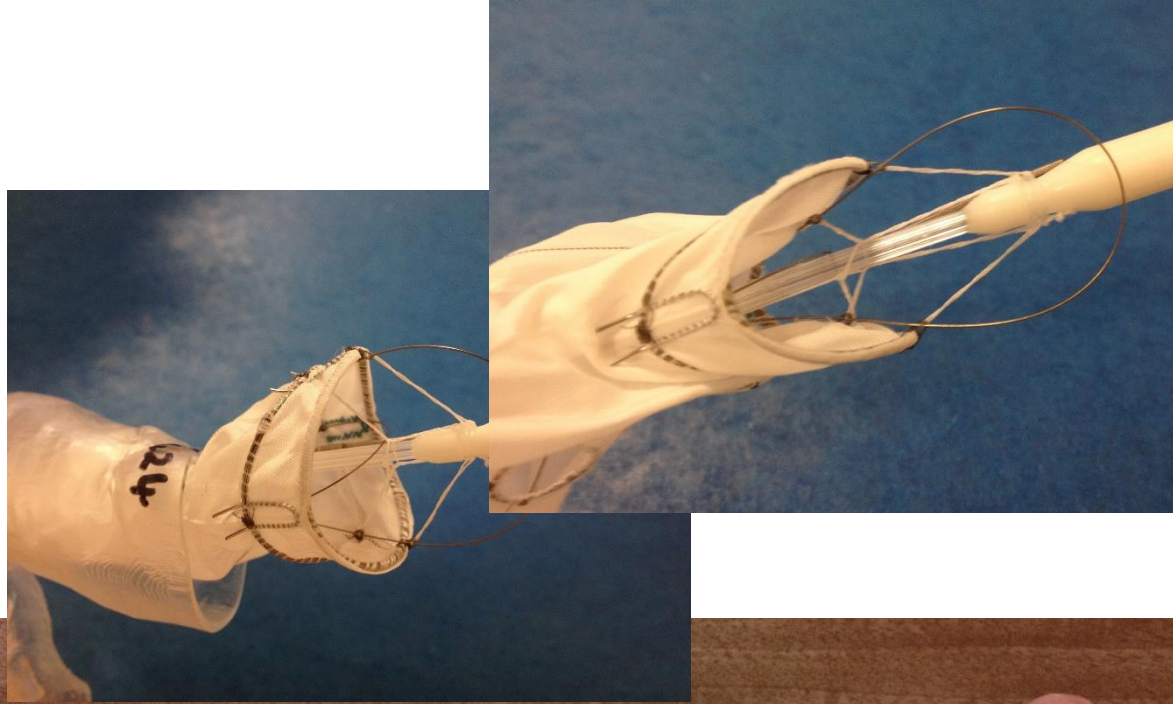
I have the following potential conflicts of interest to report:

- Receipt of grants/research support
 - Receipt of honoraria and travel support
 - Participation in a company-sponsored speaker bureau
 - Employment in industry
 - Shareholder in a healthcare company
 - Owner of a healthcare company
- I do not have any potential conflict of interest

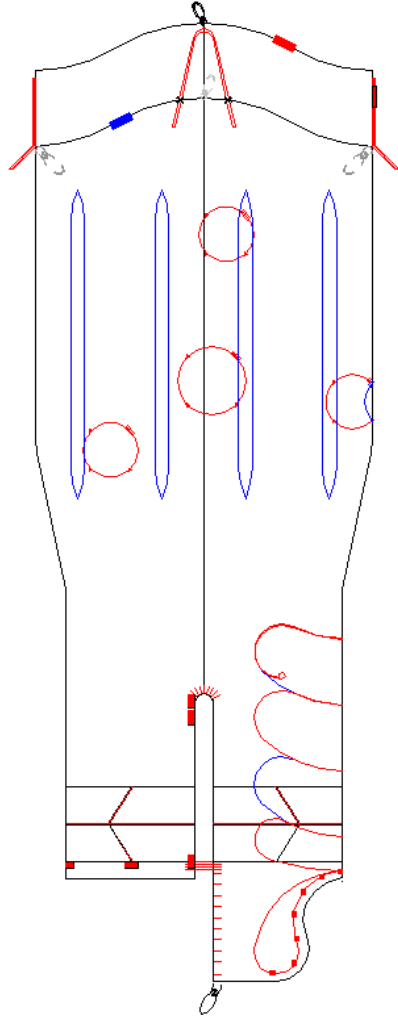








f-Anaconda



→ 22.3F delivery system

→ max. length from top to flow divider: 100mm

→ graft diameter: 21.5, 23.5, 25.5, 28, 30.5, 32 & 34 (36) mm

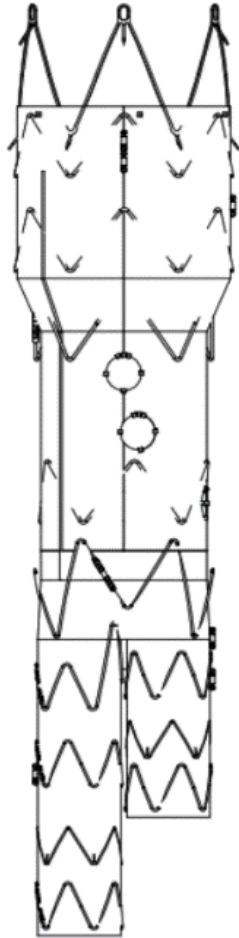
→ max. 5 fenestrations

f-Anaconda



- 22.3F delivery system
- max. length from top to flow divider: 100mm
- graft diameter: 21.5, 23.5, 25.5, 28, 30.5, 32 & 34 (36) mm
- max. 5 fenestrations
- up to 60mm of unsupported space for fenestration placement
- max. angulation 90°

f-Treo



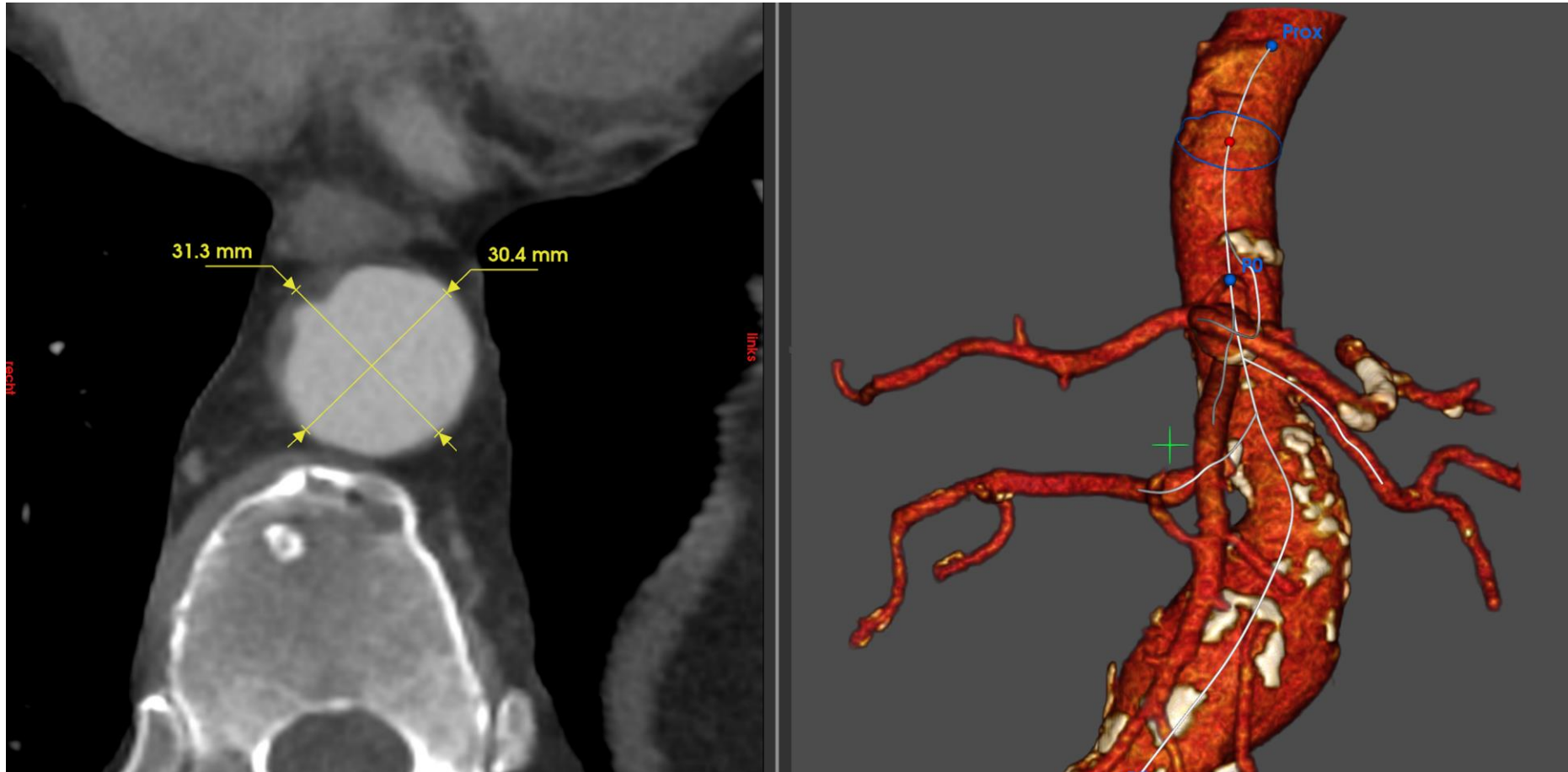
- 19Fr delivery system
- max. length from top to flow divider: 120mm
- graft diameter: 24mm, 26mm, 28mm, 30mm, 33mm and 36mm
- up to 5 fenestrations

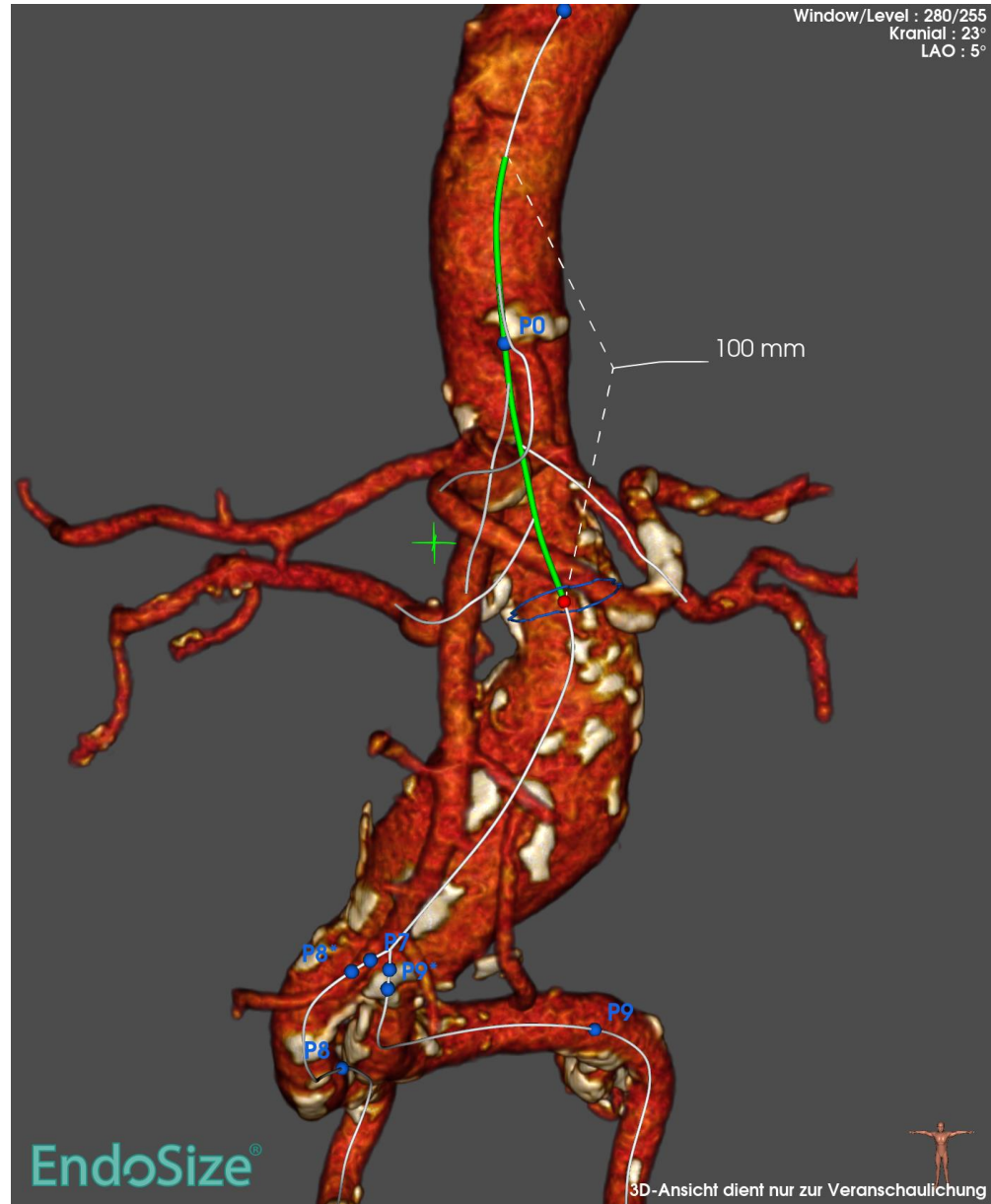
f-Treo



- 19Fr delivery system
- max. length from top to flow divider: 120mm
- graft diameter: 24mm, 26mm, 28mm, 30mm, 33mm and 36mm
- up to 5 fenestrations
- up to 40mm of free space between springs for fenestration placement
- max. angulation? 70°?

Case





BARMHERZIGE BRÜDER

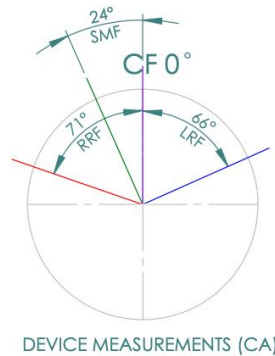
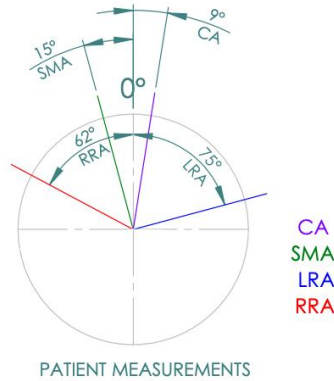
L1	Bottom of CA to top of SMA ostium	14
L2	Bottom of the CA to the proposed centre of the SMA fenestration	19
L3	Bottom of the CA to the bottom of the SMA ostium	23
L5	Bottom of the CA to the proposed centre of the LRA fenestration	31
L6	Bottom of the CA to the proposed centre of the RRA fenestration	50

Proximal Sealing Diameter 31
 Proximal Sealing Ring Size CFD36
 Oversize 16.13%

Artery	Angle (°)	Ø Vessel (mm)	Ø Fenestration (mm)
Celiac	9	8	8
Superior Mesenteric	-15	8	8
Left Renal	75	6.5	7
Right Renal	-62	7.5	7

For joined bodies, the horizontal positions are based on the proximal ring diameter on the scheme image. These will be modified for the distal body diameter on the graft. Joining ring above CA fenestration.

Proximal body size - CFD36
 Distal body size - CFD30

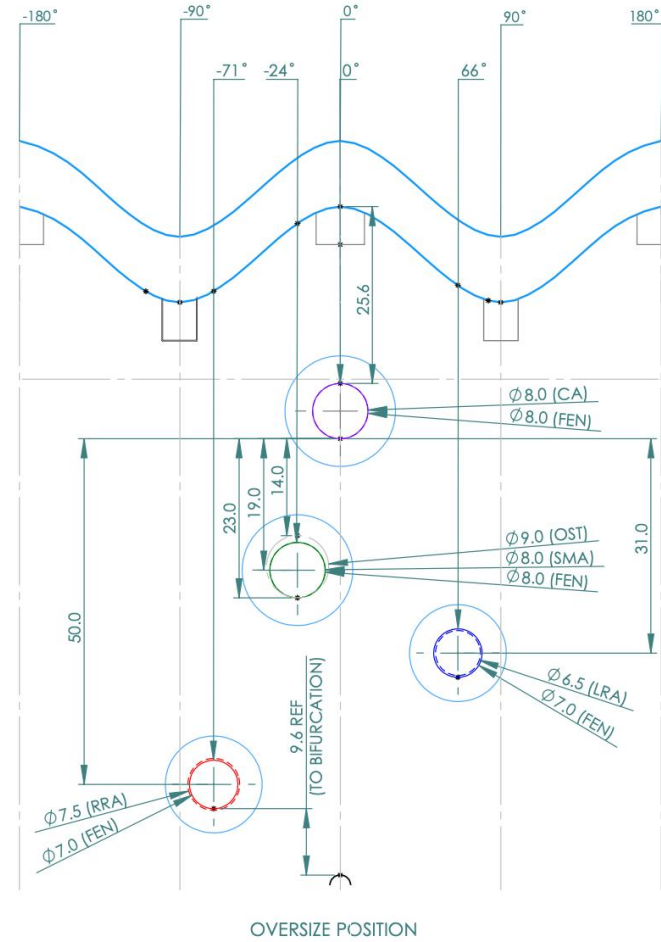


PAT 4544-B1



Bifurcated Device
 4 Fenestrations
 Mid-ring Removed
 Pleated
 Peak to Bifurcation: 100 mm
 Contralateral Flare Removed
 Legs Lateral

Not to scale
 All dimensions in mm unless otherwise stated



ISSUE	DATE	CHECKED BY	DESCRIPTION	ENGINEER
1	14 FEB 2024	AS014	1st Issue	SM015

NOTES:

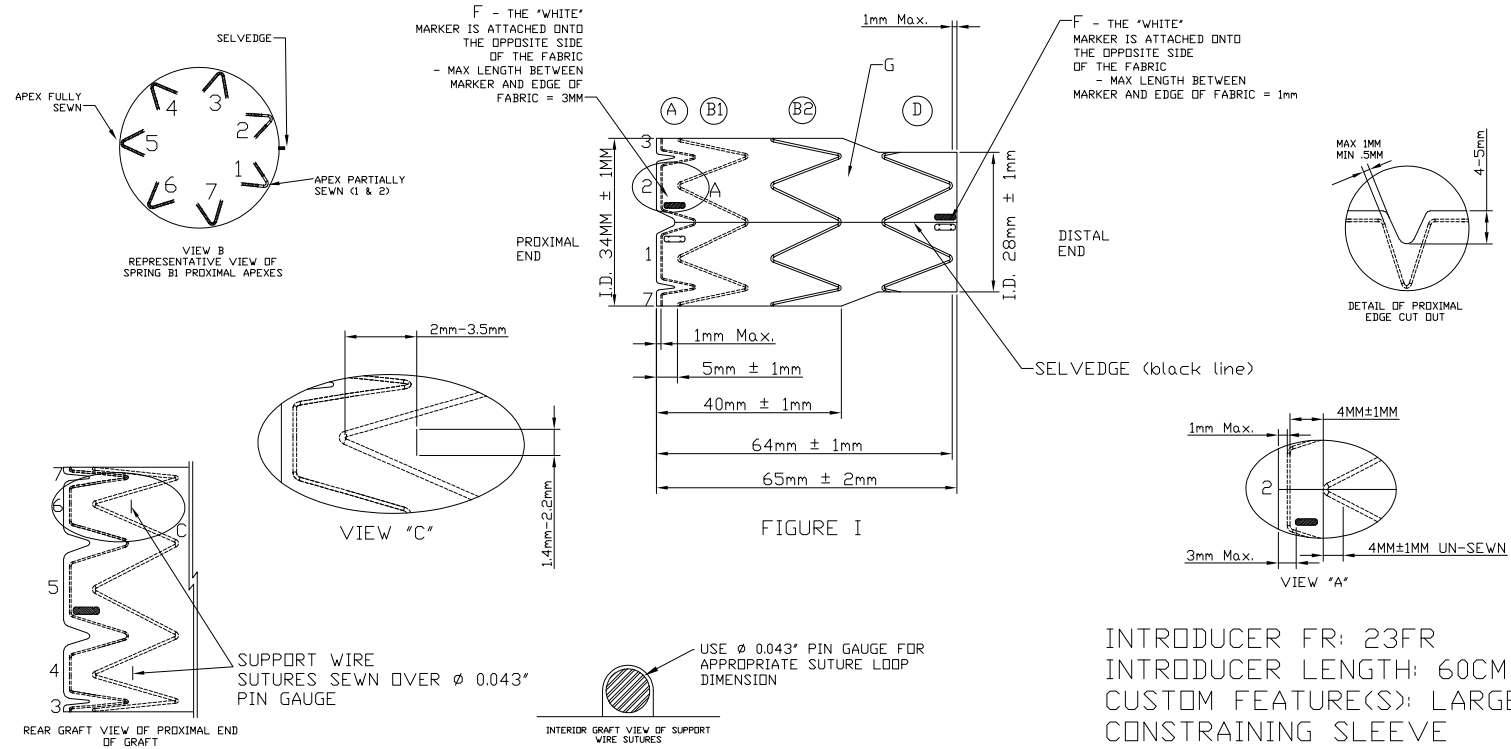
- 1- All components are attached to the fabric using suture (H)
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- 3- 2 proximal apices of spring B1 are left unsewn. See view A & B.
- 4- One apex of spring D is offset as shown in drawing (use sewing template as needed for reference only).
- 5- Spring B1 is sewn INTERNAL.

The manufacturing of custom devices will only commence upon the receipt of a physician prescription and a physician approved device drawing by Terumo Aortic.

TERUMO AORTIC
Email: custommade@terumoortic.com

Physician Approval: _____

Date: Nov 11, 2024



INTRODUCER FR: 23FR
INTRODUCER LENGTH: 60CM
CUSTOM FEATURE(S): LARGE CONSTRAINING SLEEVE

ITEM I.D.	DESCRIPTION	PART NUMBER	QTY
A	34MM CROWN SPRING	2822-0579-07	1
B1-B2	34MM NBS PROXIMAL SPRING	2822-0575-07	2
D	28MM DISTAL SPRING	2822-0257-00	1
F	CYLINDRICAL MARKER	2822-0557	4
G	34MMX120MM FABRIC	2822-0625-07	1
H	5-0 SUTURE	2822-0315	8

Proprietary and Confidential	Drawn	Name	Date	
	YT		11-08-18	
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES: N/A			
	MATERIAL: see individual component			
The information contained in this drawing is the sole property of Terumo Aortic, USA. Any reproduction in part or in whole without the written permission of Terumo Aortic is prohibited.			FINISH: N/A	TITLE 34MM/28MM X 65MM CUSTOM STENT GRAFT ASSEMBLY
			SIZE A	DWG NO. 2833-0372-PAT 2024
			SCALE	SHEET



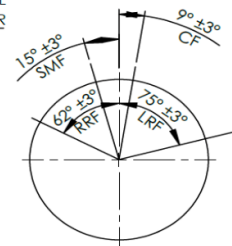
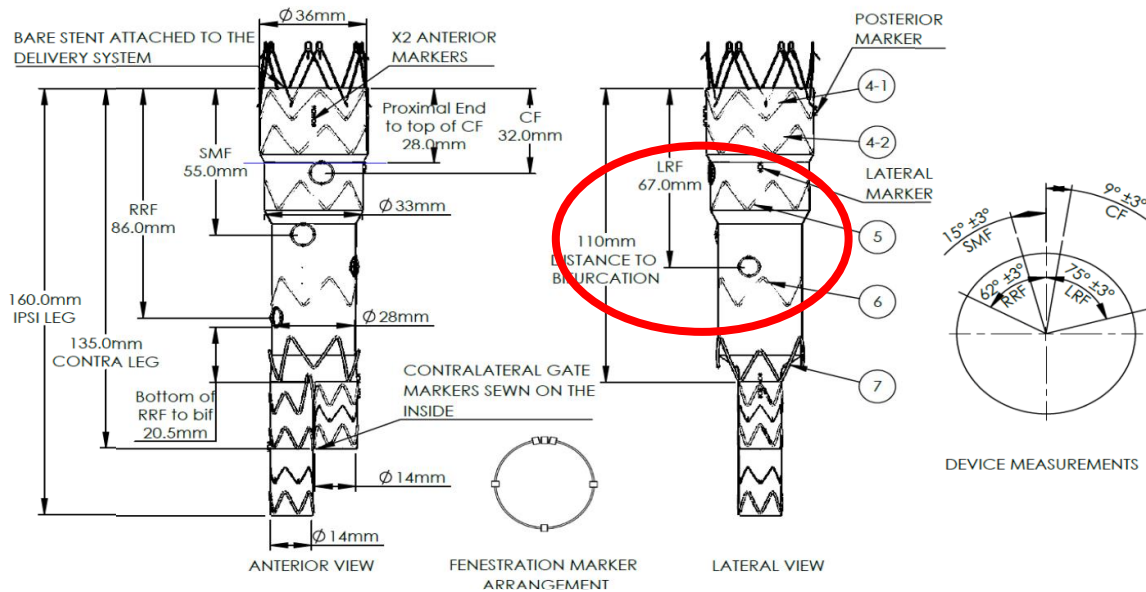
Case Identifier	Catalogue No.	Patient ID	Clinician	Engineer	Planner	Issue	Issue Date
PAT 4544-B1	28BC36B13514S196	RM221250	Dr. J Falkensammer	Arwa Hussein	Jamie Clucas	1	27 February 2024

Device Parameters

Device Type	Delivery System	Introducer OD & Length	IFU Reference
Fenestrated TREO	Fenestrated TREO	19Fr/60cm	LSPEC-2844-8507 Rev D

Patient Parameters

	Bottom of CA to middle of vessel (mm)	Vessel Diameter (mm)	Fenestration Diameter (mm)
CA	-	8	8
SMA	19	8	8
LRA	31	6.5	7
RRA	50	7.5	7



SPRING DESCRIPTION	PROXIMAL	PROXIMAL	MIDDLE	MIDDLE	TRANSITION
SPRING NUMBER	4-1	4-2	5	6	7
CONSTRAINED TO SIZE [±2mm]	24	24	22	18	18

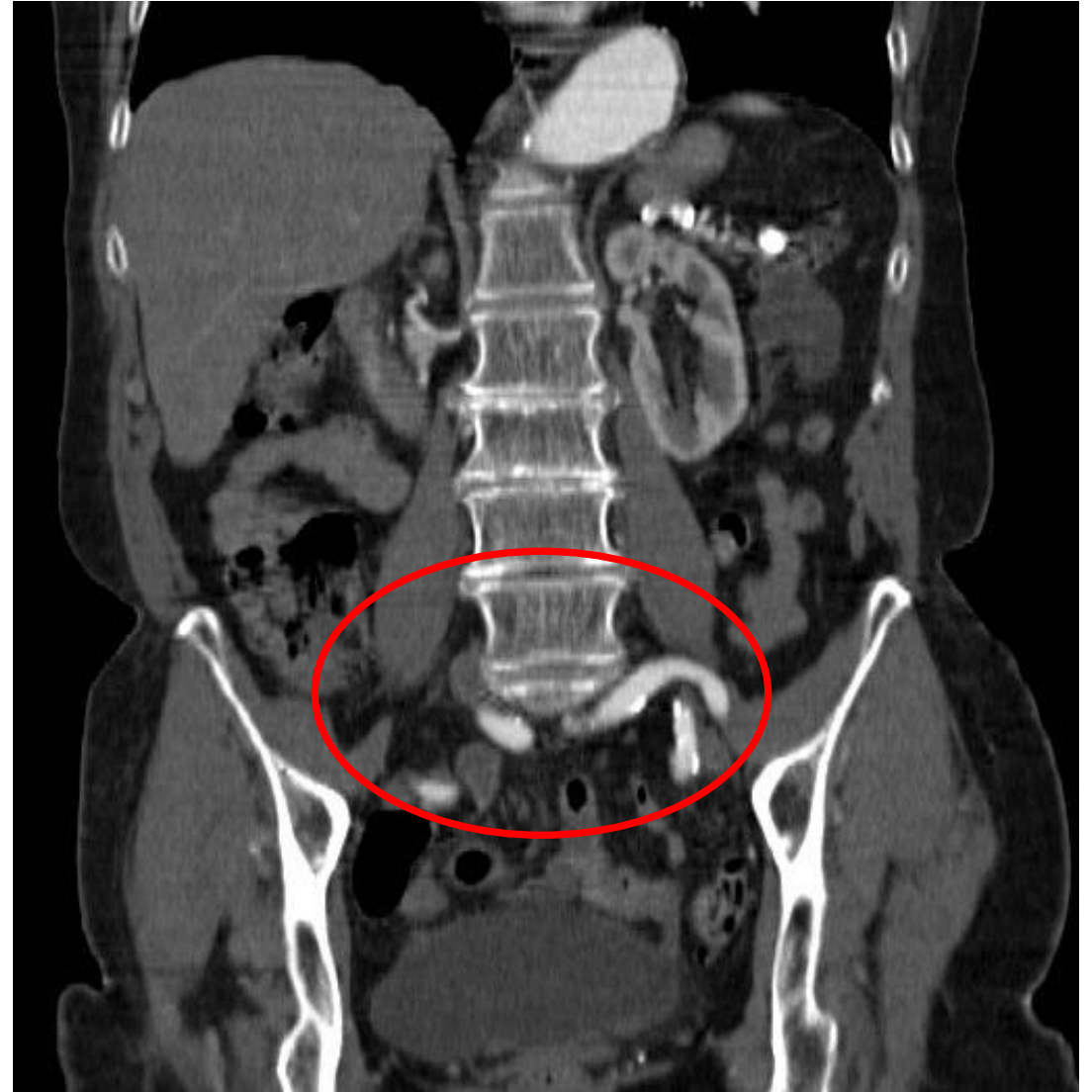
- Notes:**
- Access Side - Right
 - Legs in lateral orientation
 - Lowest fenestration to bifurcation 20.5mm
 - Distal markers at distal edge of contralateral leg
 - Maximum and minimum overlap markers on lateral edge of each distal docking zone

Comments

Main body length reduced to 110mm.
Fabric landing 28mm above the CA.
Ipsilateral limb length increased to 50mm.
Contralateral limb length increased to 25mm.
CA MAL compression

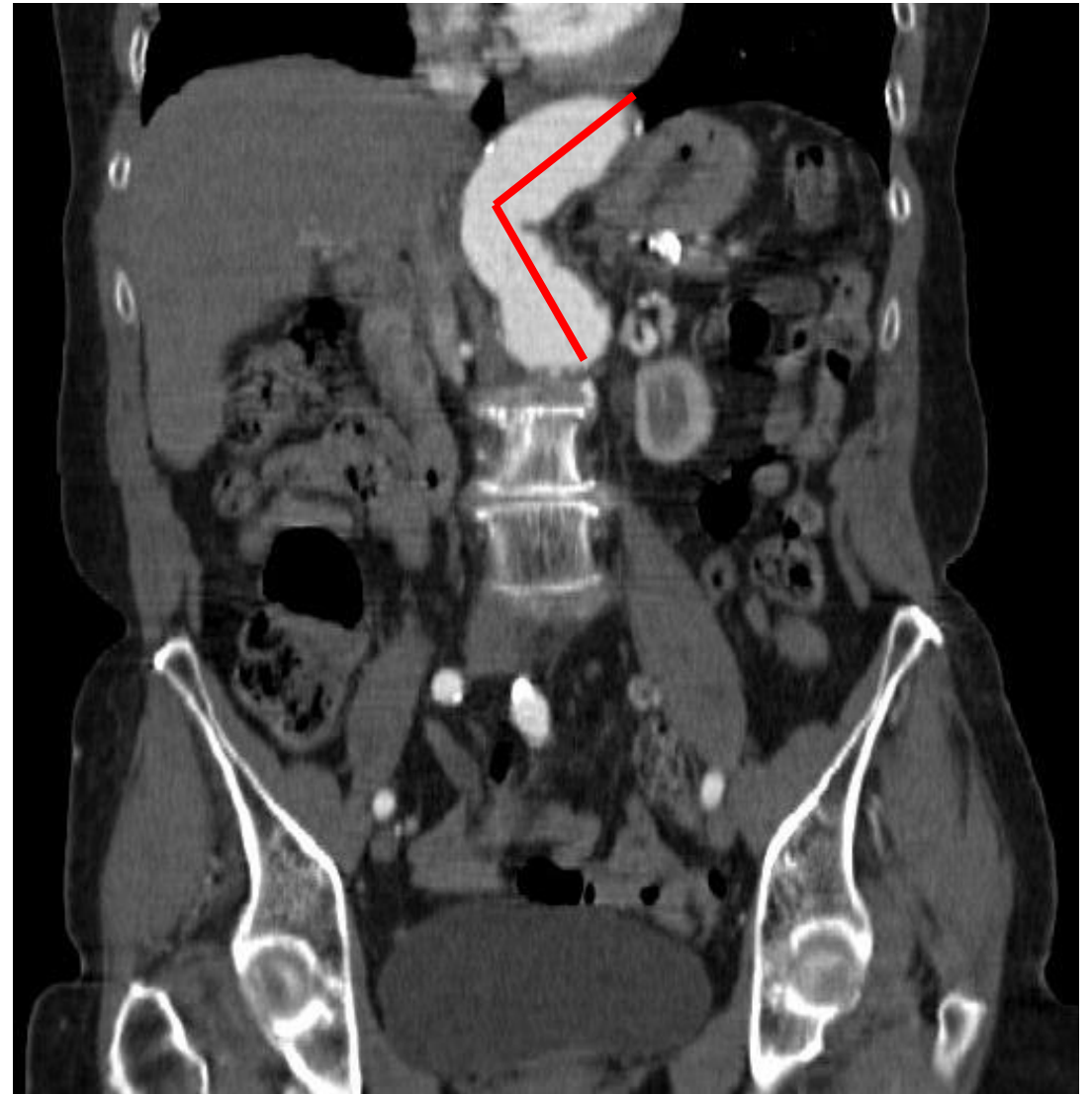
Selection criteria

→ suitability (narrow or kinked)
access vessels



Selection criteria

- suitability (narrow or kinked) access vessels
- angulation of the aneurysm neck (supra-



Selection criteria

- suitability (narrow or kinked) access vessels
- angulation of the aneurysm neck (supra- and infrarenal)



Selection criteria

- suitability (narrow or kinked) access vessels
- angulation of the aneurysm neck (supra- and infrarenal)
- suitability of proximal landing zone
- distance between CT and distal RA







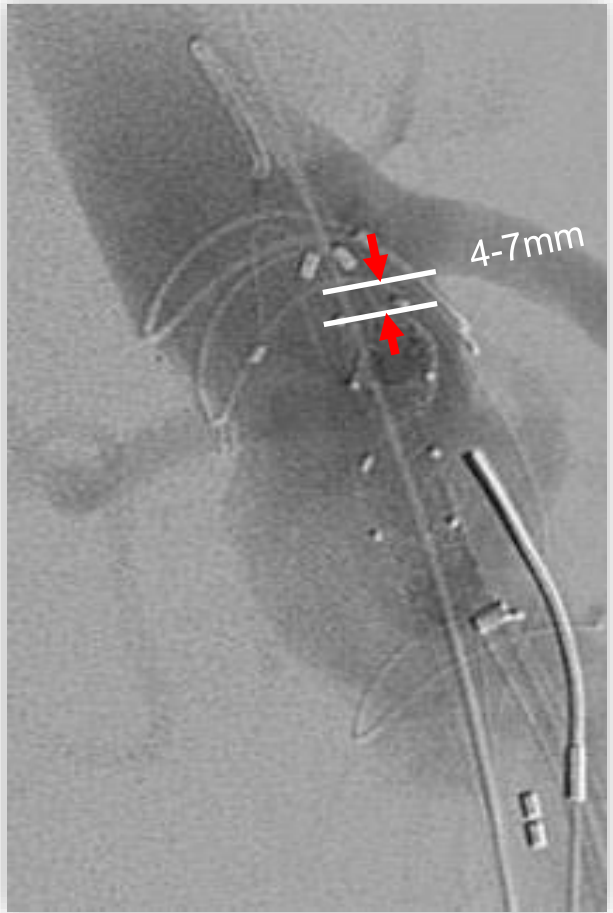
BARMHERZIGE BRÜDER
KONVENTHOSPITAL LINZ

Thank you !



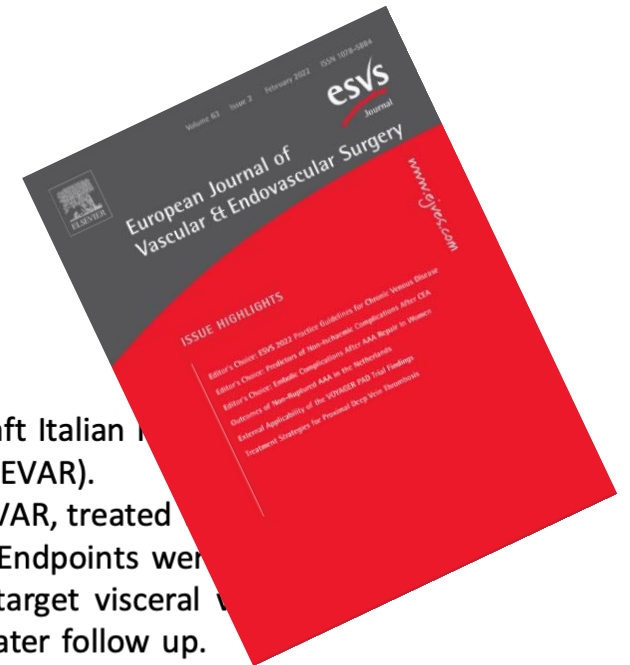
SPITALS
PARTNER

Brüder. Schwestern. Linz



The Italian Multicentre Registry of Fenestrated Anaconda™ Endografts for Complex Abdominal Aortic Aneurysms Repair

Rodolfo Pini ^{a,*}, Jacopo Giordano ^a, Michelangelo Ferri ^b, Bruno Palmieri ^c, Marco Solcia ^c, Stefano Michelagnoli ^d, Emiliano Chisci ^d, Franco Fadda Gian ^e, Pierluigi Cappiello ^f, Francesco Talarico ^g, Silvio Licata ^h, Paolo Frigatti ⁱ, Sonia Ronchey ^j, Nicola Mangialardi ^j, Carlo Pratesi ^k, Mauro Salvini ^l, Domenico Milite ^m, Fabio Pilon ^m, Reinhold Perkmann ⁿ, Carlo Stringari ⁿ, Raffaele Pulli ^o, Gianluca Faggioli ^a, Mauro Gargiulo ^a

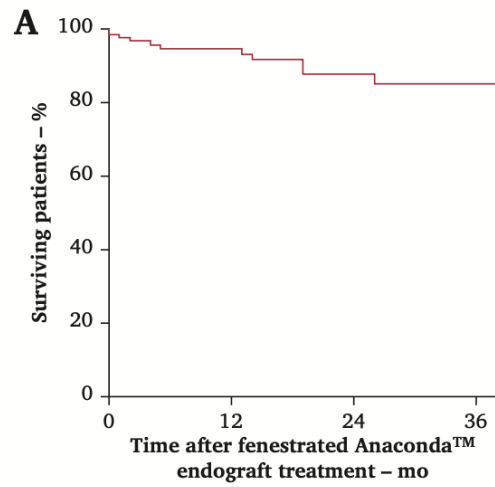


Objective: The aim was to describe the outcomes of the Anaconda™ Fenestrated endograft Italian multicentre registry for the treatment of complex aortic aneurysms (AAAs), unsuitable for standard endovascular aneurysm repair (EVAR).

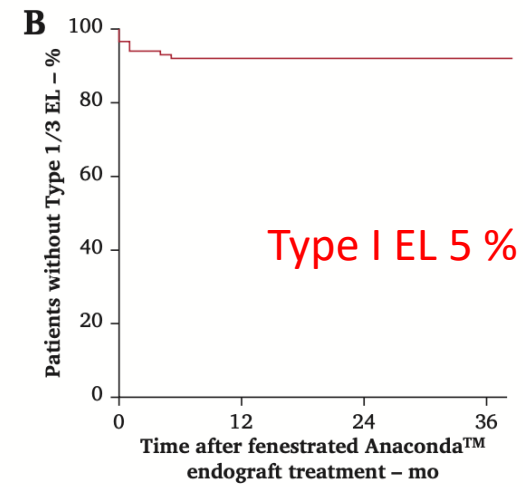
Methods: Between 2012 and 2018 patients with a proximal neck unsuitable for standard EVAR, treated with fenestrated Anaconda™ endograft, were prospectively enrolled in a dedicated database. Endpoints were operative technical success (TS) and evaluation of type Ia/b or 3 endoleaks (T1/3 EL), target visceral vessel (TVV) occlusion, re-interventions, and AAA related mortality at 30 days, six months, and later follow up.

Results: One hundred twenty seven patients (74 ± 7 years, American Society Anesthesiology (ASA) II/III/IV: 12/85/30) were included in the study in 49 Italian Vascular Surgery Units (83 juxta/para-renal AAA, 13 type IV thoraco-abdominal AAA, 16 T1aEL post EVAR, and 15 short neck AAA). Configurations with one, two, three, and four fenestrations were used in 5, 56, 39, and 27 cases, respectively, for a total of 342 visceral vessels. One hundred and eight (85%) bifurcated and 19 (15%) tube endografts were implanted. In 35% (44/127) of cases the endograft was repositioned during the procedure, and 37% (128/342) of TVV were cannulated from brachial access. TS was 87% (111/127): five T1EL, six T3EL (between fenestration and vessel stent), and six loss of visceral vessels (one patient with a Type Ia EL had also a TVV loss) occurred. Thirty day mortality was 4% (5/127). Two of the five T1EL resolved spontaneously at 30 days. The overall median follow up was 21 ± 16 months; one T1EL (5%) occurred at six months and one T3EL (4%) at the three year follow up. Another two (3%) TVV occlusions occurred at six months and five (3%) at three years. The re-intervention rate at the 30 days, six months, and three year follow up was 5%, 7%, and 18 ± 5%, respectively.

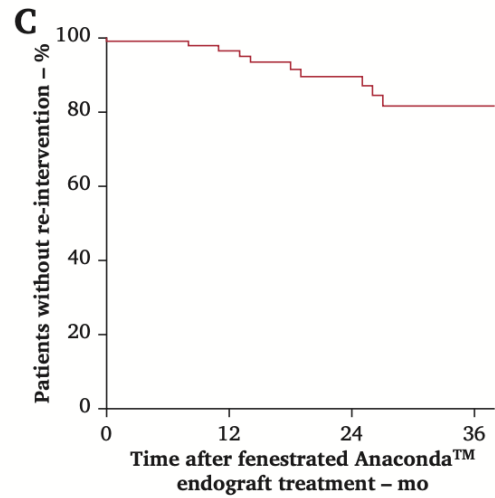
Conclusion: The fenestrated Anaconda™ endograft is effective in the treatment of complex AAA. Some structure properties, such as the re-positionability and the possibility of cannulation from above, are specific characteristics helpful for the treatment of some complex anatomies.



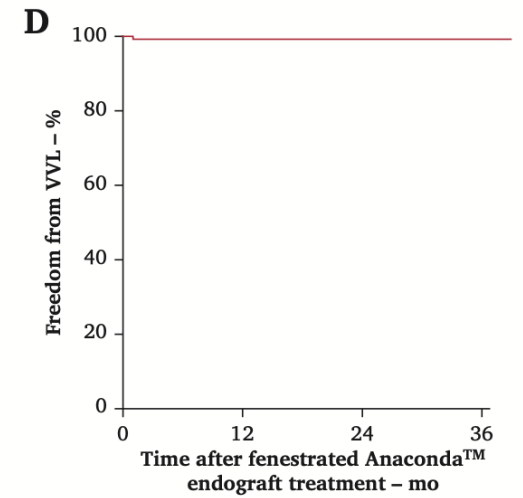
No. at risk
 — Patients 127 83 58 45



No. at risk
 — Patients 127 83 58 45



No. at risk
 — Patients 127 83 58 45



No. at risk
 — Visceral vessels 342 203 137 95



NOTES:

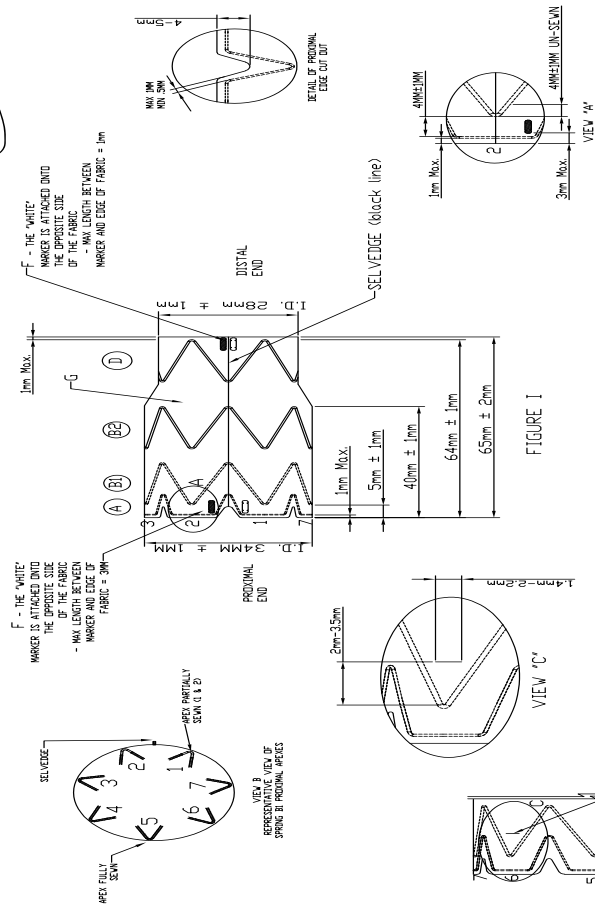
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TERUMO AORTIC
Email: customdevices@terumoaortic.com

Physician Approval:

Date: _____

INTRODUCER FR: 23FR
INTRODUCER LENGTH: 60CM
CUSTOM FEATURE(S): LARGE CONSTRAINING SLEEVE

ITEM I.D.	DESCRIPTION	PART NUMBER	QTY
A	34MM CROWN SPRING	2822-057-07	1
B1-B2	34MM NBS PROXIMAL SPRING	2822-057-07	2
D	28MM DISTAL SPRING	2822-057-00	1
F	CYLINDRICAL MARKER	2822-057	4
G	34MMX120MM FABRIC	2822-0625-07	1
H	5-0 SUTURE	2822-0315	8

Proprietary and Confidential		Rev	Date
1	1	1	1-16-18
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MATERIAL: see individual components		FINISH: ENA	
SCALE: N/A		SHEET	

TERUMO Aortic

34MM/28MM X 65MM CUSTOM STENT GRAFT ASSEMBLY

SIZE: A
 DWG NO: 2833-072-PAT 2824



NOTES:

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- Three (3) apices for each spring may present a tolerance of $\pm 2\text{mm}$.
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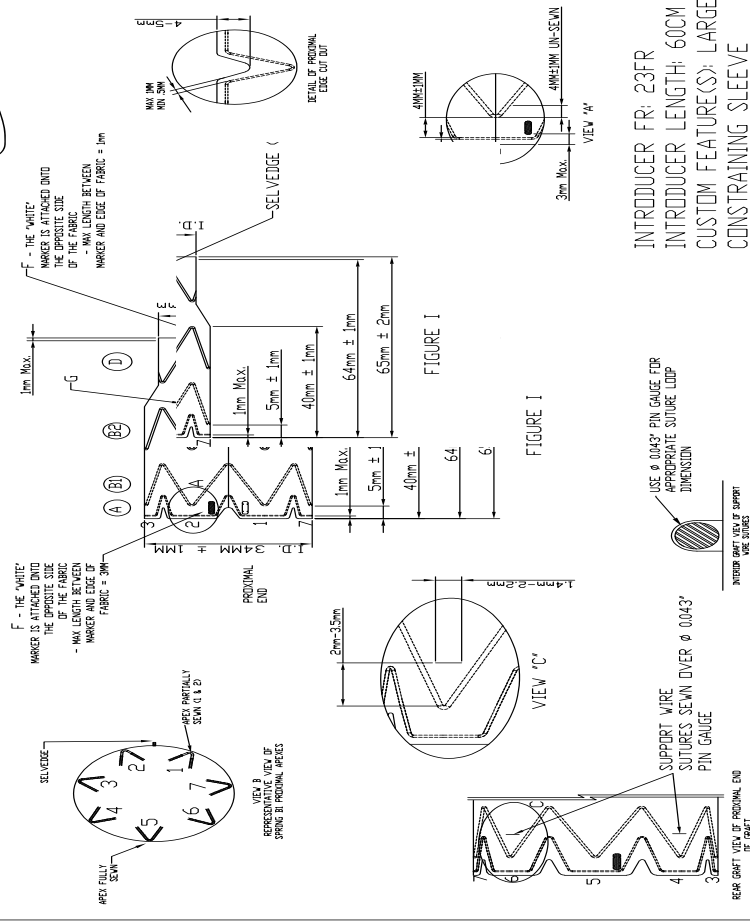
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TERUMO AORTIC
Email: customerservice@terumoaortic.com

Physician Approval:

Date:

NOT TO SCALE



INTRODUCER FR: 23FR
INTRODUCER LENGTH: 60CM
CUSTOM FEATURE(S): LARGE
CONSTRAINING SLEEVE

Rev	Date
1	1-26-18
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES N/A	
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FINISH	N/A
SCALE	SHEET
TERUMO Aortic	
TITLE 34MM/28MM X 65MM CUSTOM STENT GRAFT ASSEMBLY	
SIZE	DWG NO. 2833-1072-FAT 2824
MATERIAL: see individual components	
ESN	

ITEM I.D.	DESCRIPTION	PART NUMBER	QTY
A	34MM CROWN SPRING	2822-457-07	1
B1-B2	34MM NBS PROXIMAL SPRING	2822-457-07	2
D	28MM DISTAL SPRING	2822-0257-00	1
F	CYLINDRICAL MARKER	2822-0567	4
G	34MMX120MM FABRIC	2822-0625-07	1
H	5-0 SUTURE	2822-0315	8

