

The “new” Redeployable Gore Excluder C3



Products listed may not be available in all markets. © 2009 W. L. Gore & Associates, Inc.

Eric Verhoeven, MD, PhD, Klinikum Nürnberg Süd, Nürnberg, Germany
On Behalf of all European C3 Investigators

Disclosures

- *William Cook Europe/Cook Inc.*
 - *Consultant*
 - *Research grant*
- **W.L. Gore & Associates**
 - **Consultant**
 - **Research grant**
- *Atrium*
 - *Consultant*

Introduction

- Not „new“ anymore
 - But still no long-term results
- European C3-Registry
 - 400 Pts within 2 Years (13 Sites)
- Personal experience
 - 76 Pts (74/76 within C3-registry)

C3-concept: Options!

- Step 1: Deployment body
- Step 2:
 - Catheterization CL limb
 - *Re-orientation if needed*
 - a-DSA control for proximal position
 - *Repositioning if needed*
 - *Reorientation if desired*
- Step 3: Full deployment
 - *In cases of adverse anatomy: insertion of contralateral limb before ipsilateral limb deployment*
 - *Option to adapt the length of ipsilateral limb*

European C3 Enrollment

GRT 10-12

Site Number	Site Name	N (%)
203	Nuremberg Hospital	74(18.5%)
209	Cologne University Hospital	26(6.5%)
215	Regensburg University Hospital	13(3.3%)
218	Heidelberg University Hospital	23(5.8%)
263	Hospital Clinic I Provincial de Barcelona	5(1.3%)
264	Orebro University Hopsital	41(10.3%)
278	Aberdeen Royal Infirmary	67(16.8%)
279	Cambridge University Hospitals	32(8.0%)
280	Royal Liverpool University Hospital	38(9.5%)
282	Hull Royal Infirmary	35(8.8%)
283	Weißeritztal Kliniken GmbH	19(4.8%)
284	Azienda Ospedaliera Policlinico Sant'Orsola Malpighi	18(4.5%)
285	Erasmus Medical Center	9(2.3%)
	Total Subjects Enrolled	400

„Real Life“ C3 Excluder Registry

N = 400

- Neck Length < 1.5 cm: 7.3%
- Neck Angulation $\geq 60^{\circ}$: 11.6%
- Neck Length < 1.5 cm + Angulation $\geq 60^{\circ}$: 2.1%
- Significant Calcification at Landing Zones: 17.6%
- Significant Thrombus at Landing Zones: 11.4%

C3 Repositioning

GRT 10-12

	All
Number of Cases Reporting Trunk Repositioning	190/399(47.6%)
Reasons for Repositioning	N=190
Positioning Closer to Renal Arteries	151(79.5%)
Contralateral Gate Positioning	37(19.5%)
Other	29(15.3%)

C3 Repositioning

GRT 10-12

Number of Repositions per Case	All
	N=400
0	210(52.5%)
1	123(30.8%)
2	52(13%)
3	12(3%)
4	3(0.8%)

C3 Deployment Accuracy

GRT 10-12

Device Deployed Where Planned	385/399 (96.5%)
Deployed within 5mm of intended location	392/399 (98.2%)
Deployed \geq5mm from intended location	7/399 (1.8%)

C3 Extenders Use

GRT 10-12

	All
Number of Subjects Enrolled/Devices Implanted	399
Subjects with Aortic Extender(s) Implanted	21(5.3%)
Subjects with Unplanned Aortic Extender(s)	18(4.5%)
Reasons for Unplanned Extender Use	
Increase Seal	8(44.4%)
Increase Radial Force	5(27.8%)
Extend Landing Zone	4(22.2%)
Type I Endoleak	14(77.8%)

C3 Adverse Events and Outcomes

GRT 10-12

Number of Enrolled Patients	400
Any In-Hospital Serious Event	9(2.3%)
Iliac artery stenosis/occlusion	2(0.5%)
Pneumonia	2(0.5%)
Kidney hemorrhage	2(0.5%)
Retroperitoneal haematoma	1(0.3%)
Uncoded	2(0.5%)

Number of Enrolled Subjects	400
Number of Subjects with Devices Implanted	399
30-Day Survival	398/400(99.5%)
30-Day Conversions	2/400(0.5%)

Nürnberg Experience (N=76)

Repositioning

- No Repositioning: n=33 (43%)
- 1x Repositioning: n=26
 - Level only: n=11
 - Orientation only: n=11
 - Level+Orientation: n=4
- More than 1 repositioning: n=17
 - Level only: n=5
 - Orientation only: n=1
 - Level and Orientation: n=11

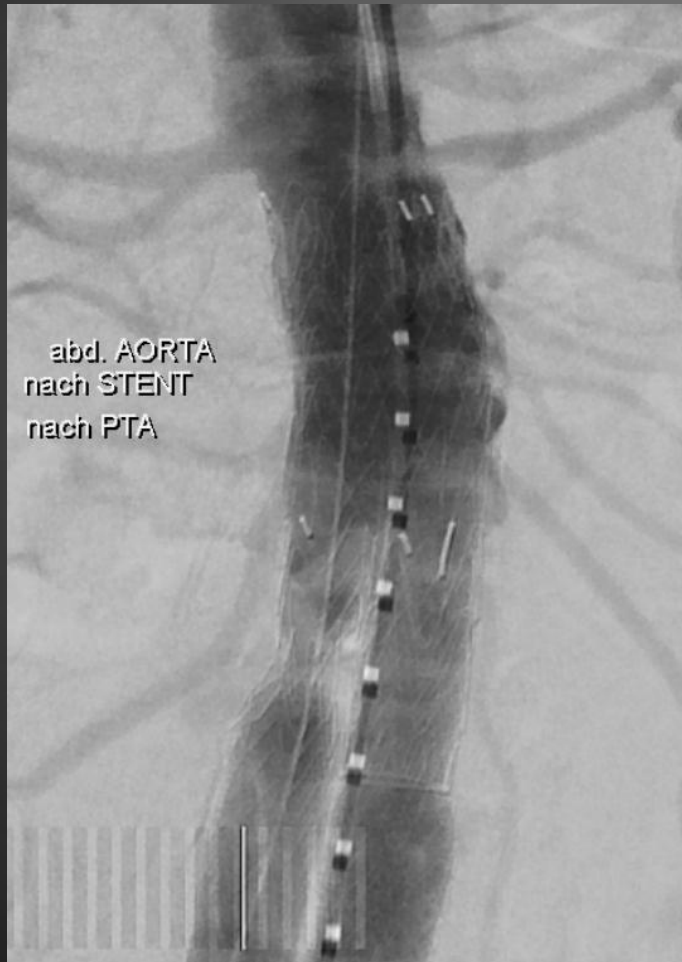
Nürnberg Experience (N=76)

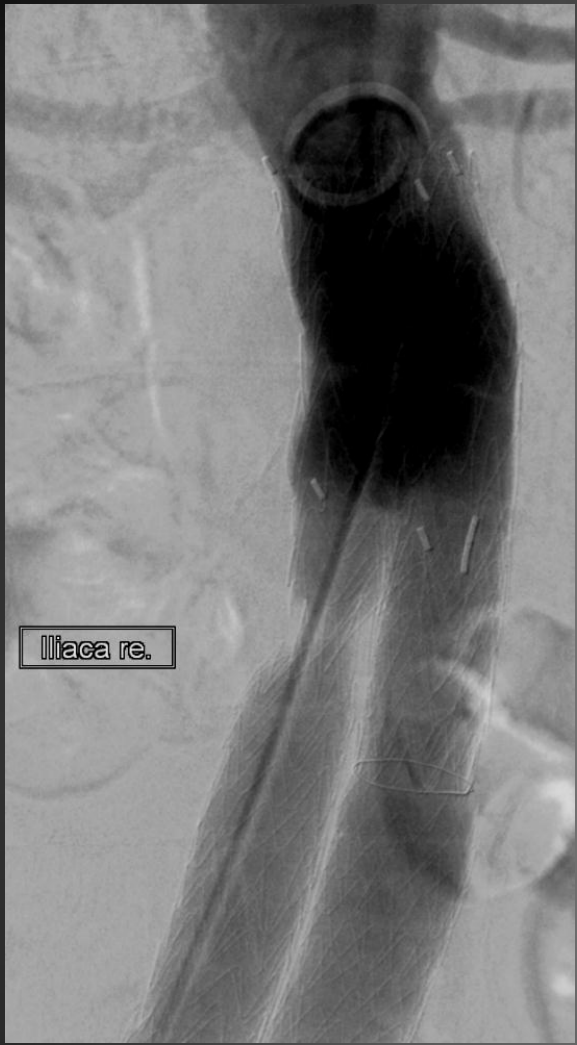
Outcome

- Surgical mortality: 0
- Coverage of renal arteries: 1
 - Stent (Express 6x18mm)
- Type I endoleaks: n=2 (#68, #73)
 - CT @ 1 month: No endoleak
- Proximal Landing of the graft:
 - 97.4% intended location
 - 2.6% within 5 mm
- Extender/Cuff use: 0

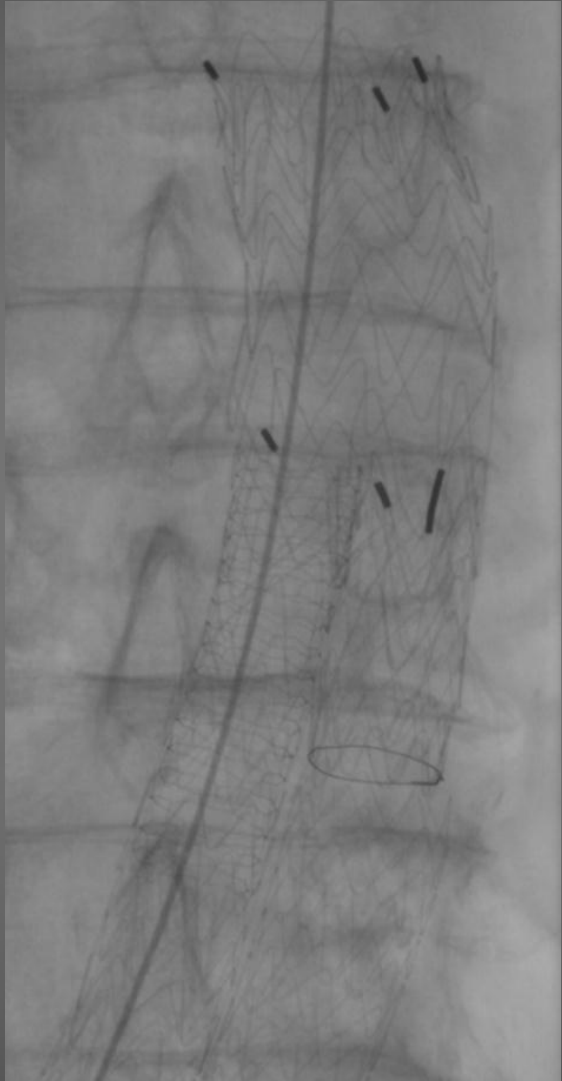
Cave-ats

Over-excessive reorientation (#39)





Iliaca re.



Iliaca re.n.PTA/Stent

Risk of pushing up Ipsi Limb? (#51)



9,1925
449

0

HGZ Nürnberg
AXIOM-Artis

Wulf Peter
Geb.: 10.09.1925
ID: 10419449
CO15
23.02.2012
12:17:52.00



420.0

kV: 77.1
DAP: 44.9
mA: 335
FOV (mm) 420.0



Stent / PTA Aorta im OP

rechts

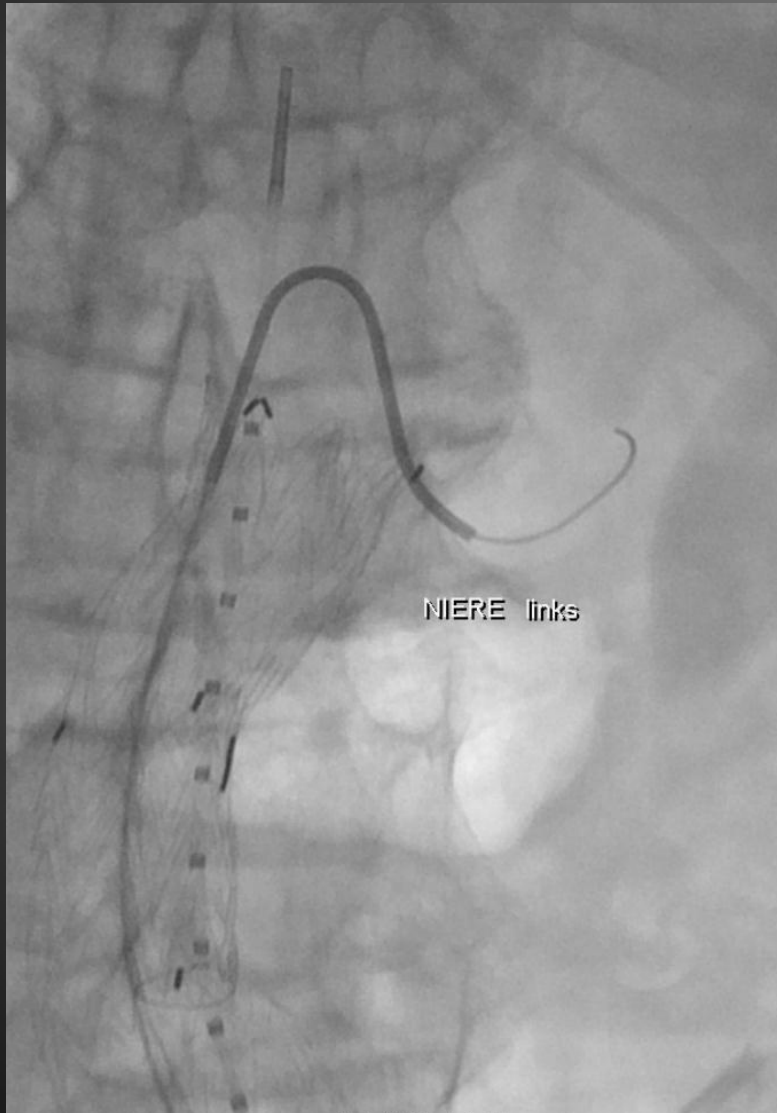
NIERE links

abd. AORTA
nach PTA
nach STENT



- C3 over LRA
- Ipsi Limb too high!!!!

#51



- Treatment
 - Express 6mm x 18mm
 - Sidewinder fell into LRA

#51



- Treatment
 - Express 6mm x 18mm
 - Sidewinder fell into LRA

Conclusions

- C3 Excluder is a safe and effective device!
- Deployment system allows for aggressive positioning & repositioning
- Lower number of cuffs needed.
- Does make a difference in standard cases and probably even more in difficult anatomy...



HOSTED AT
NOTHINGTOXIC.COM



17th International Experts Symposium

CRITICAL ISSUES **in aortic endografting 2013**

June 21 & 22 – Nürnberg, Germany

