





Tilo Kölbel

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German Aortic Center, Hamburg University Heart Center University Hospital Eppendorf CRITICAL ISSUES
in a ortic endografting 2016
May 20 & 21 - LILLE - FRANCE



Disclosures



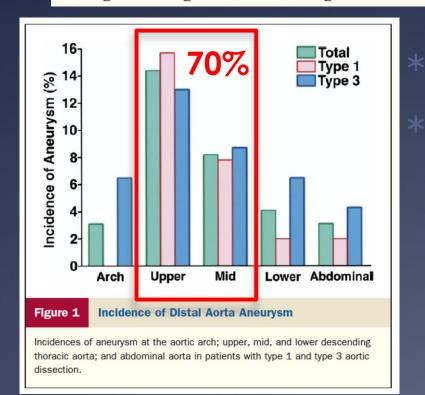
- * Research-grants, travelling, proctoring speaking-fees, IP with Cook.
- * Discussion of investigational devices, which are not FDA-aprooved.

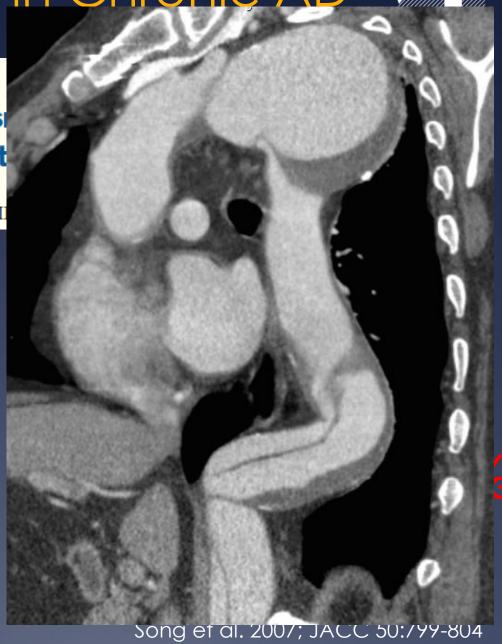


FL-Aneurysm in Chronic AD

Long-Term Predictors of Descending Aorta Aneurys Change in Patients With Aort

Jong-Min Song, MD, PhD,* Sung-Doo Kim, MI

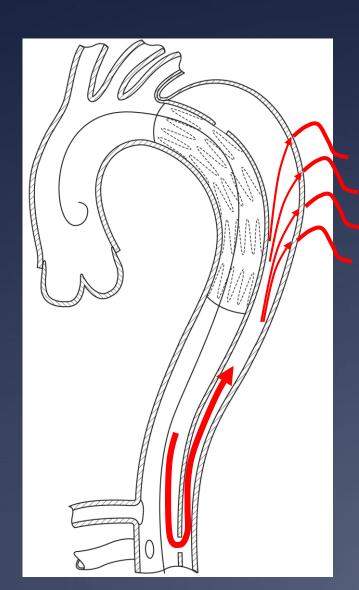






Direct False Lumen Occlusion

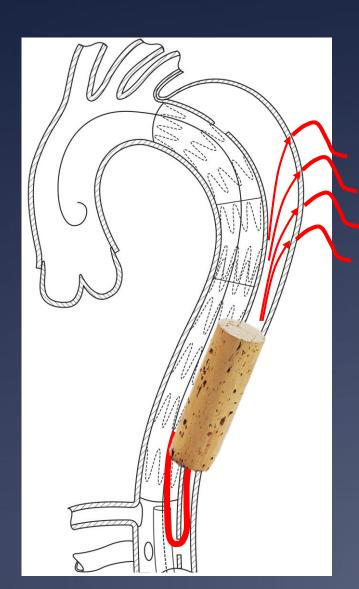






Direct False Lumen Occlusion





- * TEVAR-extension to CA
- * Embolisation or Knickerbocker
- Seperates aortic FL-compartments!
- Does not restrict further distal techniques like fenestrated EVAR



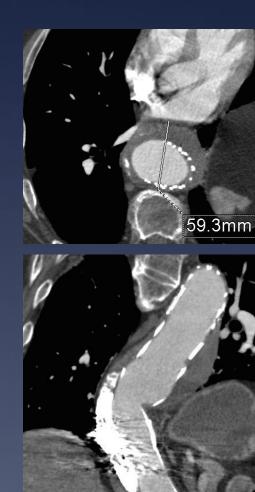
Coils, Plugs, Glue













Intervention

Postop. CT



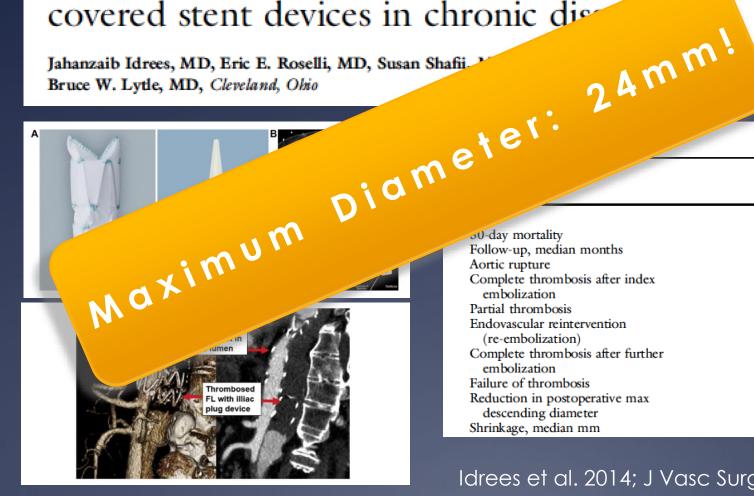
lliac Occluder



Outcome^a (N = 21)

Outcomes after false lumen embolization with covered stent devices in chronic dis-

Jahanzaib Idrees, MD, Eric E. Roselli, MD, Susan Shafii Bruce W. Lytle, MD, Cleveland, Ohio

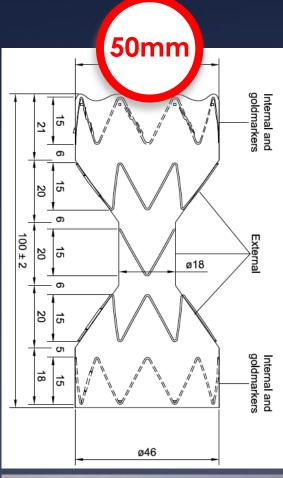


50-day mortality	1 (4.7)
Follow-up, median months	26 (2-42)
Aortic rupture	0
Complete thrombosis after index embolization	15 (71)
Partial thrombosis	6 (29)
Endovascular reintervention (re-embolization)	4 (19)
Complete thrombosis after further embolization	19 (90)
Failure of thrombosis	0
Reduction in postoperative max descending diameter	13 (62)
Shrinkage, median mm	4.6 (0.2-27)



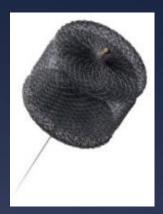
Candy-Plug











22mm Amplatzer plug II



22mm ZIP iliac-occluder

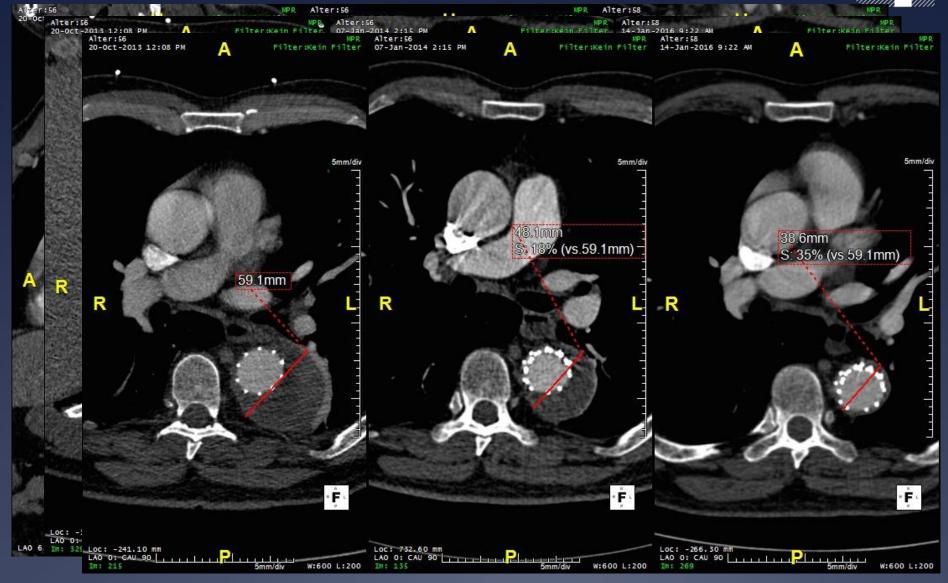
Kölbel et al. 2013; J Endovasc Ther 20: 484-9





Candy-Plug

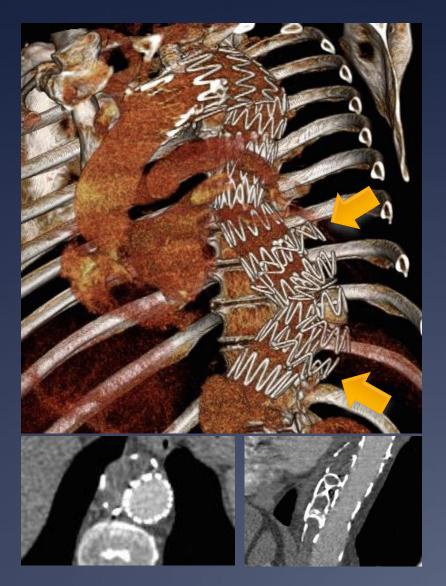






Candy-Plug Multicenter





- * N=21
- * Technical success 21/21
- * No rupture
- * No SCI
- * No early mortality
- * 3 reinterventions for continous perfusion
- Secondary FL-thrombosis20/21 patients



Candy Plug Hamburg Results



- * October 2013 March 2016: 16 patients
- * Pathology: 9 Type B, 7 Type A
- * 12 elective, 2 urgent, 2 ruptured
- * Technical success: 16/16
- * Complications: 3/16
 - * 2 groin-hematoma; 1 temp. SCI





Candy Plug Hamburg Results



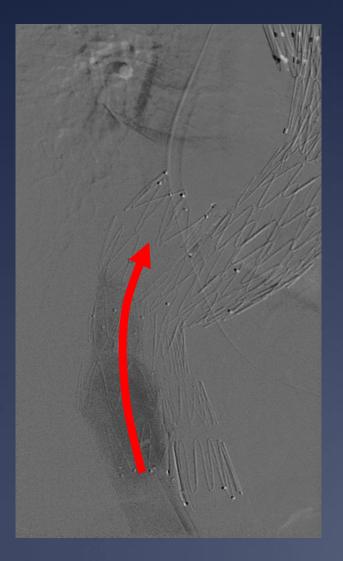
- * Lost to FU: 1/16
- * FU < 6m: 6/16
- * 30d mortality: 1/16: rTAAD with FET
- * Complete FL-Thrombosis: 13/16
- * Persistant FL-perfusion on FU: 3/16
- * Reinterventions: 2/16





Candy Plug 2 Reinterventions













Candy Plug Hamburg Results



- * 1y all cause mortality: 2/10
- * Mean FU (6m and more, 9/16): 13.6m
- * Complete FL-thrombosis: 9/9
- * Diameter reduction (3mm and more): 5/9

patient	Pre-op diameter	Diameter at last FU	development
CP4	70	72	unchanged
CP5	67	38	remodeling
CP6	62	60	unchanged
CP7	64	55	remodeling
CP9	111	91	remodeling
CP10	72	72	unchanged
CP11	64	59	remodeling
CP2	95	81	remodelling
CP8	76	75	unchanged
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Role of FL-Occlusion:



Hamburg 2013-2015:

- * Chronic aortic dissection/failing TEVAR: 39
- * False Lumen Occlusion techniques:
 - * Candy-plug
 - * Knickerbocker
 - Other (plugs, coils, glue)
- * Primary F/B EVAR
- * Secondary F/B EVAR

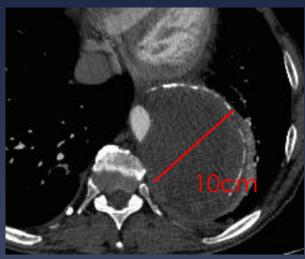
- 31
- 14
- 12
 - 5
- 8
- 2



Secondary F/B EVAR













Secondary F/B EVAR







FET, TEVAR+Candyplug

+ Fenestration

F/B EVAR



Iliac False Lumen Embolisation







Ballon-occlusion to prevent plug-embolisation



Isolated Iliac Dissection

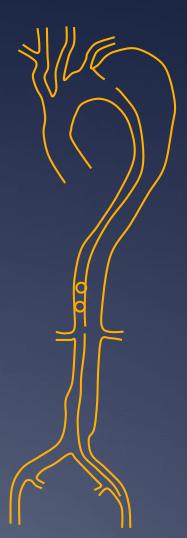








FL-Aneurysm in CAD



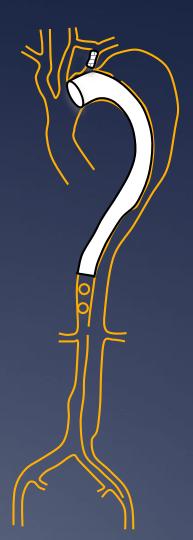




FL-Aneurysm in CAD



TEVAR to the Celiac









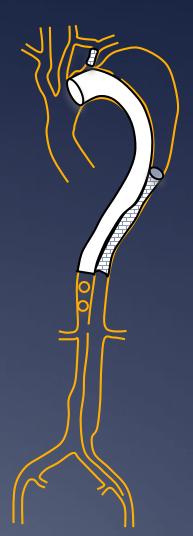


TEVAR to the Celiac



+ FL-Occlusion











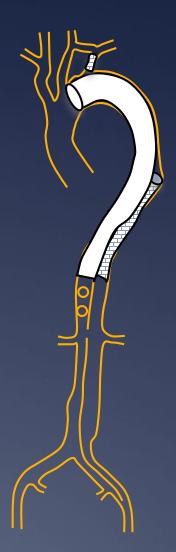


TEVAR to the Celiac



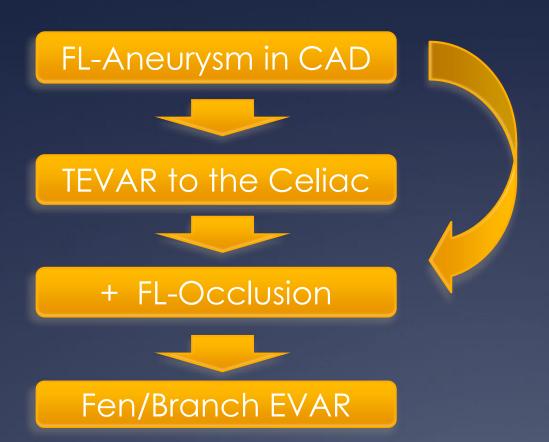
+ FL-Occlusion







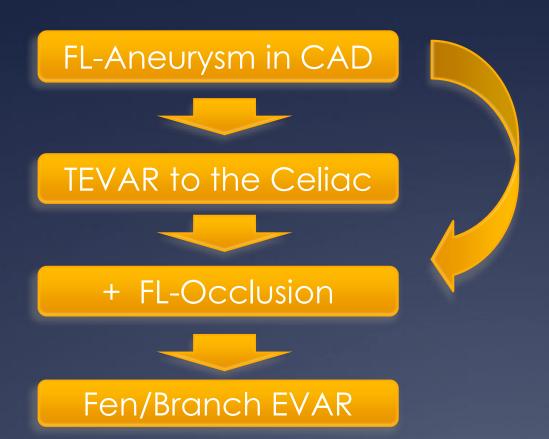


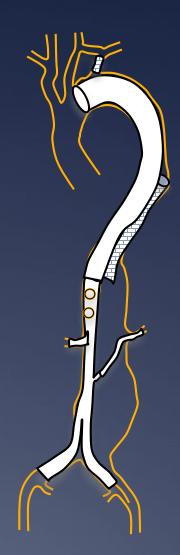




















TEVAR to the Celiac



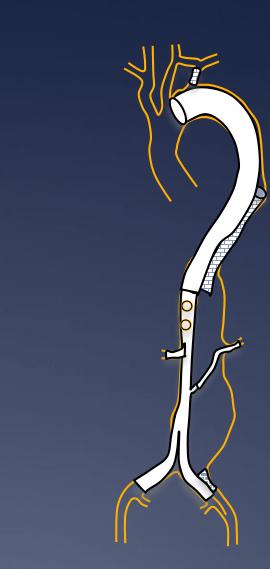
+ FL-Occlusion



Fen/Branch EVAR



+ FL-Occlusion





Conclusion



Does it work?

- * Yes.....
- *and it is
- Faster,
- Easier,
- Cheaper,
- Less invasive
- Less radiation
- Fewer complications.