



Disclosure

Proctoring for Cook W.L. Gore







Aorto iliac stenting - durable ?

- Type of lesion
 - TASC C ?
 - TASC D?

- Definition of « long term » ?
 - Life expectancy
- Open surgery : endangered specy ?





Once upon a time, in the 2000s...







Eric Steinmetz, J Picquet, PE Magnan, R Hassen-Khodja, J Chevalier, E Rosset, M Fleury et l'AURC



AIOD EVT - the AURC study

Kissing stents 1999 2000 2001 N = 80

Claudicants 84 % 16 % CLI







AIOD EVT - the AURC study

TASC	N	%		N
A	53	66%	CIA unilat stenosis CIA Bilat stenosis	12 41
В	13	16%	CIA occlusion CIA +EIA stenosis	11 2
C	14	18%	Bilat occlusion Complex Lesions	0 14
D	0			





AIOD EVT - the AURC study

Stents

Nitinol28 %

BES 42 %

Steel SES
30 %

Wallstent, Angiomed, AVE, Memotherm, Smart





Postoperative results

Technical success

72 89 %

remaining stenosis

5.3%

dissections

4 5.3%

Post op ABIndex

Right

0.71

 \rightarrow

0.92

+ 30%

Left

0.74

 \rightarrow

0.91

+ 23%





Long term results

Follow-up

Lost to FU

Redo PTA/stenting

Open Surgery

Deaths

n = 21

Mean delay: 36 Mos [3-68]

5%

24%

16%

26%





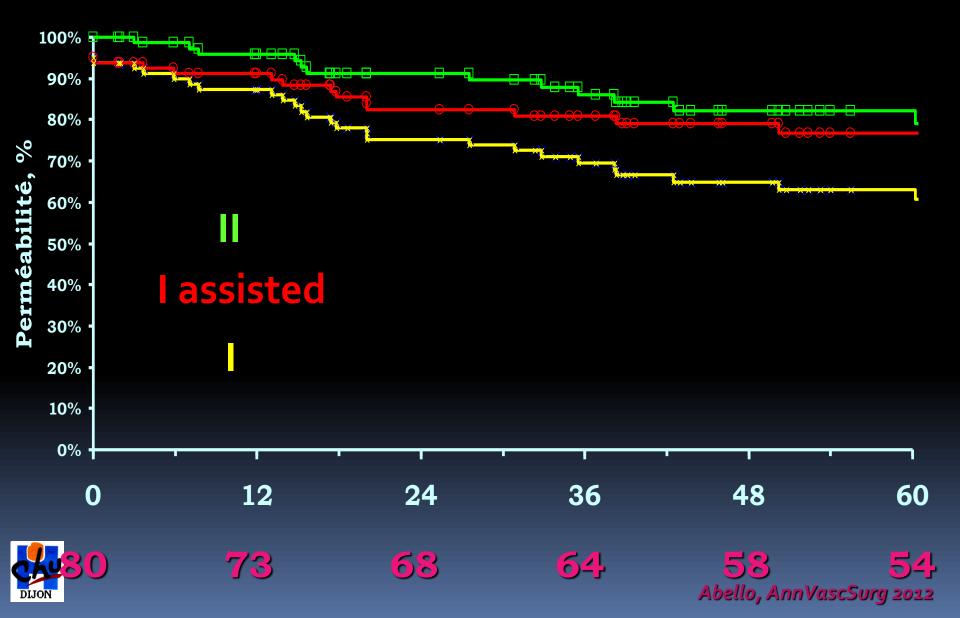
Causes of death

Cancer	10	12.5%
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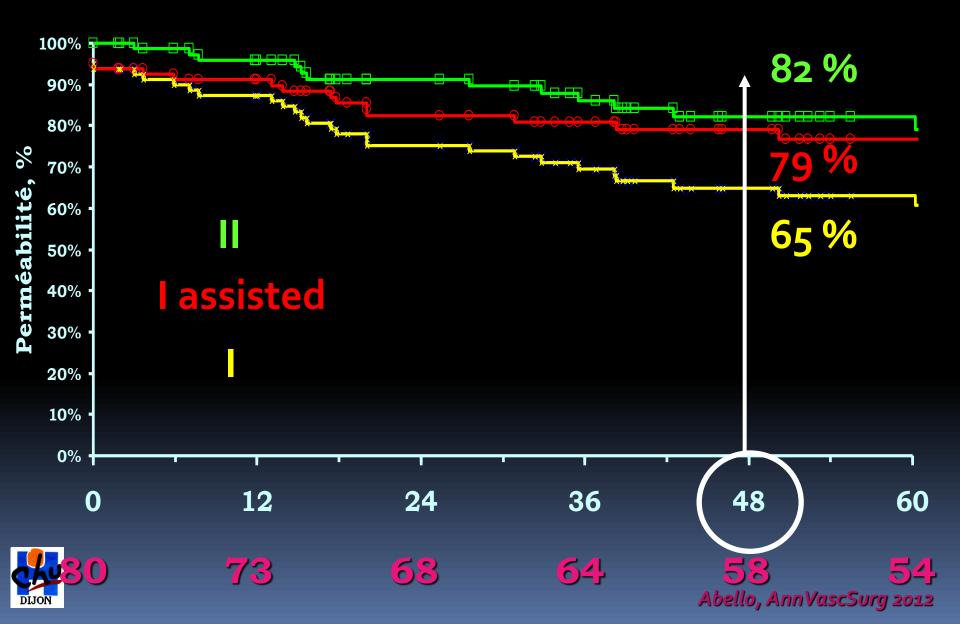
- lung
- bowel
- Cirrhosis
- Bowel ischaemia
- Heart Insufficiency
- MI
- Suicide
- Unknown



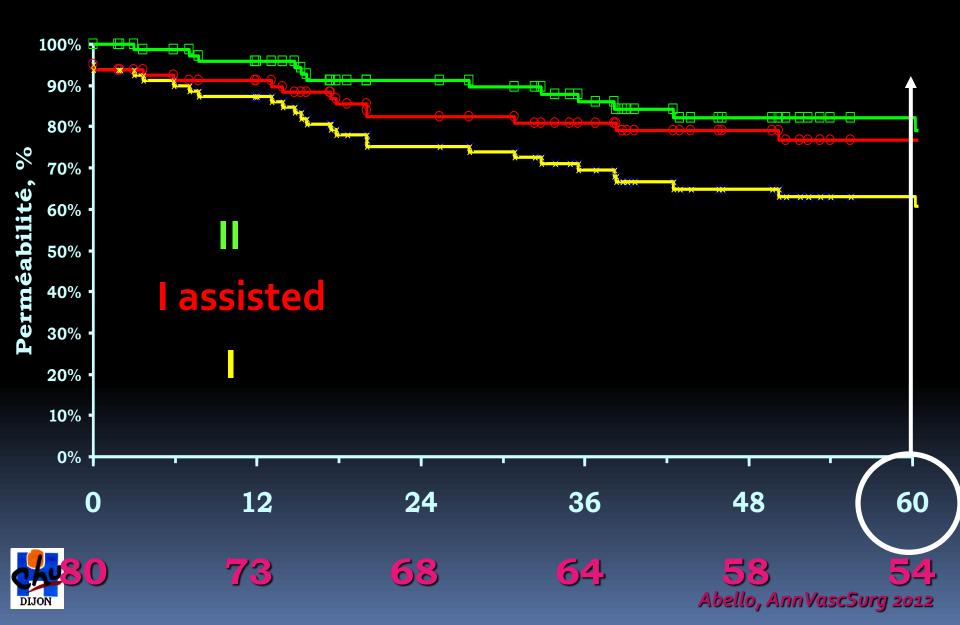




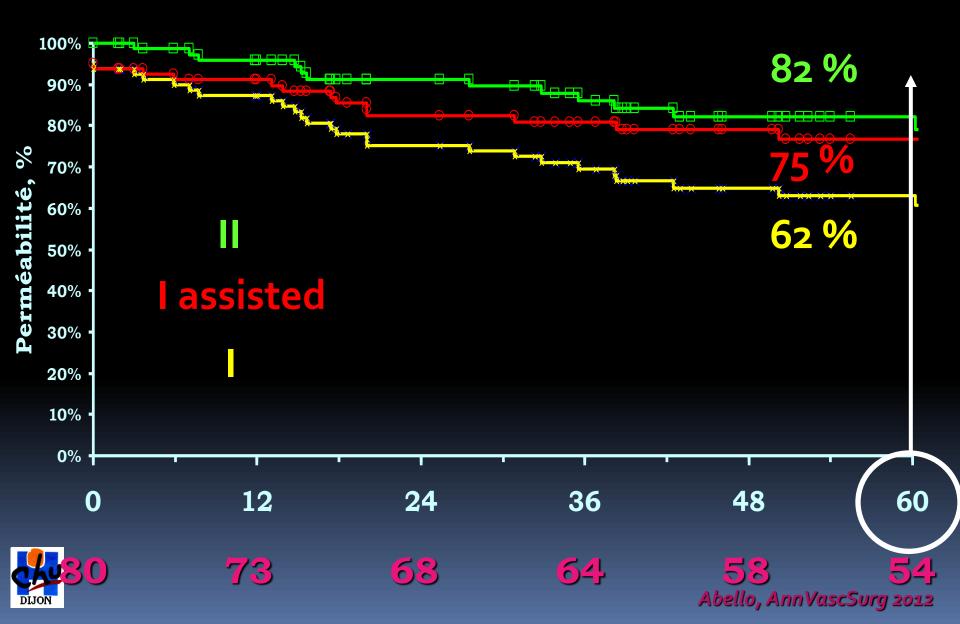












Aorto Iliac Occlusive Disease - Long Term Results



Abello, AnnVascSurg 2012

Authors	N	I Paten.	Assis ted I Paten	II Paten	Limb Salvage	F/U(Mos	N @term
Uher (Malmö) EJVES 99	82	61% (4)	67%	75% (5)	/	36	5
Haulon JET 02	106	80% (17)	/	96% (27)	/	30	
Mouanoutoua (Milwaukee) 2003 CathCardiovasInterv	50	86% (?)		100% (?)	100% (?)	20	5
Greiner (Innsbruck) EJVES 03	36	/	65%	/	/	24	3
Yilmaz (Turquie) JET 2006	68	63%	64%	81%	/	60	9
AURC 2008	80	62%	75%	82%	0	60	54





AURC study - conclusion

Retrospective but continuous series

TASC recommendations were respected

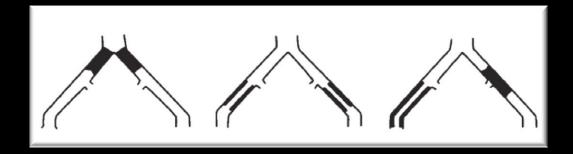
Good results maintained @ 5 y



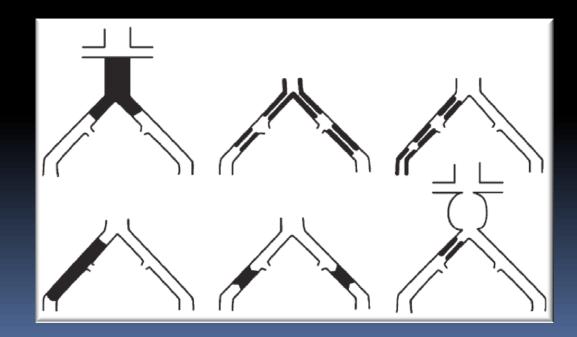


What's goin'on in 2014?

TASCIIC



TASC II D





What's goin'on in 2014 ?

TASC C & D

Early and late outcomes of percutaneous treatment of TransAtlantic Inter-Society Consensus class C and D aorto-iliac lesions

Wei Ye, MD, a Chang-Wei Liu, MD, a Jean-Baptiste Ricco, MD, PhD, b Kevin Mani, MD, PhD, c Rong Zeng, MD, and Jingmei Jiang, PhD, Beijing, China; Poitiers, France; and Uppsala, Sweden

Objectives: The aim of this study was to analyze the technical success and long-term patency of the endovascular treatment Methods: All studies reporting original series of patients published in English between 2000 and 2010 were enrolled into meta-analysis. Separate meta-analyses were performed for groups with immediate technical success, 12-month patency,

meta-analysis. Separate meta-analyses were performed for groups with immediate technical success, 12-month patency, and long-term outcomes. Subgroup analyses were performed to determine if there were differences in outcomes between and long-term outcomes. Subgroup analyses were performed to determine it there were differences in outcomes between patients with varying types of lesions (TASC C or D lesions) or between different stenting strategies, including primary

Results: Sixteen articles consisting of 958 patients were enrolled in this meta-analysis. The pooled estimate for technical Success was 92.8% (95% confidence interval [CI], 89.8%-95.0%, 749 cases). Primary patency at 12 months was 88.7% success was y2.0% (y5% connidence interval [CI], 59.8%-y5.0%, /49 cases). Primary patency at 12 months was 58.7% (95% CI, 85.9%-91.0%, 787 cases). Subgroup analyses demonstrated a technical success rate of 93.7% (95% CI, 94.9%-02.0%) for TASC Clasions. East TASC D. 88.9%-96.5%) and a 12-month primary patency rate of 89.6% (95% CI, 84.8%-93.0%) for TASC C lesions. For TASC D lesions, these rates were 90.1% (95% CI, 76.6%-96.2%) and 87.3% (95% CI, 82.5%-90.9%), respectively. The technical success and 12-month primary patency rates for primary stenting were 94.2% (95% CI, 91.8%-95.9%) and 92.1% (95% CI, 91.8%-95.9%) and 92.1% (95% CI, 91.8%-95.9%) and 92.1% (95% CI, 91.8%-95.9%) 89.0%-94.3%), respectively; for selective stenting, these rates were 88.0% (95% CI, 67.9%-96.2%) and 92.1% (95% CI, 67.9%-96.2%) and 82.9% (95% CI, 67.9%-96.2%) and 82.9% (95% CI, 67.9%-96.2%) 72.2%-90.0%), respectively. The long-term, primary patency rates for patients receiving primary stenting were significantly better than those receiving selective stenting. Publication bias was not significant for these analyses. Conclusions: This study demonstrates that early and midterm outcomes of endovascular treatment for TASC C and D conclusions: 1 his study demonstrates that early and midterin outcomes of endovascular treatment for 1400 0 and 15 and 15





What's goin'on in 2014?

- AIOD TASC C &D meta-analysis
 - 958 Pts
 - 16 articles / 596
 - Publications 2003 to 2010
 - Max length of FU: 24 to 72 Mos





Table I. Summary of the 16 studies included in the meta-analysis

Study (reference number)	Midterm of study	Centers ^a	Patients (n)	TASC C	TASC D (n)	Symptoms (%)	Strategy of stenting	Technical success rate	Primary patency (1 year)	Maximum length of follow-up (months)
AbuRahma ⁸	Jan-2003	1	62	Not stated ^b	Not stated ^b	Not stated		93%	96%	36
							primary 13 cases selective	46%	46%	36
Ahn ⁹	Mar, 1999	1	41	36	5	Not stated	Selective	97.60%	Not stated	
Balzer ¹⁰	July, 2000	2	89	37	52	IC 88.8% CLI 11.2%	Primary	96.90%	95%	36
Björses ¹¹	June 2000	3	89	18	71	Not stated	Primary	Not stated	93%	36
Do ¹²	Nov, 1999	1	48	32	16	Not stated	Primary	Not stated	94%	60
Hans ¹³	Dec, 2002	2	40	27	13	Not stated	Primary	95%	87%	48
Jackson ¹⁴	Nov, 2001	2	22	Not stated ^b	Not stated ^b	CLI 100%	Primary	95.45%	84.40%	24
Kashyap ¹⁵	Oct, 2000	1	67	30	37	IC 46.6% CLI 53.4%	Primary	89.60%	94%	36
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Piffaretti ²⁰	Dec, 2001	1	43	34	9	IC 62.8% CLI 37.2%	Selective	100%	92%	60
Powell ²¹	Oct, 2000	1	29	15	14	Not stated	Primary	100%	87.70%	12
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CLI 9% CLI 9% CLI 9% CLI 55% Selective 89.60% 86% 72 CLI 55% CLI 55% CLI 55% CLI 55% Selective 93% 85% 36 Ozkan	94% 36	89.60%	Primary		37	30	67	1	Oct, 2000	Kashyap ¹⁵
Kumakura ¹⁷ Dec, 2000 1 88 33 55 IC 45% Selective 89.60% 86% 72 CLI 55% Moise ¹⁸ June 2003 1 31 0 31 Not stated Selective 93% 85% 36 Ozkan ¹⁹ May, 2005 1 72 25 47 Not stated Primary Not stated Not stated 60	Not stated	100%	Selective		11	0	11	1	Dec, 2005	Krankenberg ¹⁶
Moise ¹⁸ June 2003 1 31 0 31 Not stated Selective 93% 85% 36 Ozkan ¹⁹ May, 2005 1 72 25 47 Not stated Primary Not stated Not stated 60	86% 72	89.60%	Selective	IC 45%	55	33	88	1	Dec, 2000	Kumakura ¹⁷
Ozkan ¹⁹ May, 2005 1 72 25 47 Not stated Primary Not stated Not stated 60	85% 36	93%	Selective		31	0	31	1	June 2003	Moise ¹⁸
		and the second s								Ozkan ¹⁹
Piffaretti ²⁰ Dec, 2001 1 43 34 9 IC 62.8% Selective 100% 92% 60 CLI 37.2%	92% 60	100%	Selective	IC 62.8%	9	34	43	1	Dec, 2001	Piffaretti ²⁰
Powell ²¹ Oct, 2000 1 29 15 14 Not stated Primary 100% 87.70% 12	87 70% 12	100%	Primary		14	15	20	1	Oct 2000	Powell ²¹
									,	
CLI 20%				CLI 20%				•	,	
Sharafuddin ²³ Oct, 2000 1 47 Not stated ^b Not stated Primary 91.50% Not stated	Not stated	91.50%	Primary	Not stated	Not stated ^b	Not stated ^b	47	1	Oct, 2000	Sharafuddin ²³





Table II. Primary patency rates at every 12-month period (random

Time-period (months)	Studies (n)	Patients (n)	Primary patency (%)	Prin pateno CI (in	y 95%
12	12	787	88.7	85.9	91.0
24	11	758	81.9	77.1	86.0
36	10	736	76.5	69.2	82.6
48	5	398	70.4	57.4	80.7
60	5	430	64	53.5	73.4





Table III. Secondary patency at every 12-month interval (random ef

Time-period (months)	Studies (n)	Patients (n)	Secondary patency (%)	Secon patenc CI (y 95%
12	6	443	95.4	92.8	97.1
24	4	230	91.7	86.8	95.0
36	4	235	91.0	86.4	94.1
48	1	40	89.1	75.1	95.6
60	2	91	83.0	73.0	89.8





Conclusion = trends only (NS)

Results

TASCC > TASC D 93,7% 90,1%





Conclusion = trends only (NS)

Results

TASC C > TASC D 93,7% 90,1%





Conclusion = trends only (NS)

Results

TASC C > TASC D

93,7% 90,1%

Primary stenting >

94,2%

Selective stenting 88%





Conclusion

5-year primary patency = only 64%

but...

- 5-year secondary patency = 83%
- Reintervention rate = 19% (endo+++)





- Limitations
 - Single center studies
 - Back to 1993





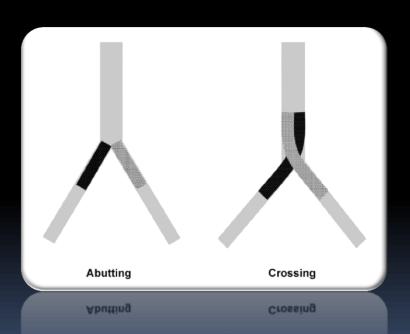
- Limitations
 - Single center studies
 - Back to 1993
 - Cofounding factors ?
 - POAD extension
 - Stent type
 - Comorbidities
 - Medication
 - Optimal Medical Care ?
 - Antiplatelet duration?

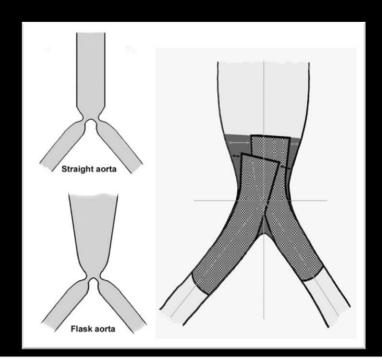


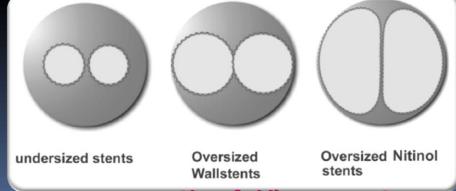


AIOD EVT - Long Term outcome

Other factors?









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AIOD EVT - Long Term outcome

Shall we move to the covered world?







Aortoiliac Occlusive Didease = EVT



