



EuroPCR 2015 Que pouvons-nous en retenir?

Jean Fajadet, FESC Clinique Pasteur, Toulouse











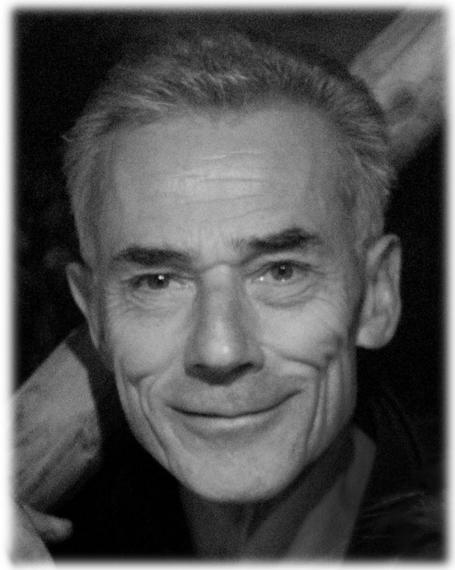


17 centres from 11 countries transmitting over 60 hours of LIVE procedures





ETHICA AWARD



Ferdinand Kiemeneij

Shigeru Saito



5 tracks

- Coronary
- Structural
- Peripheral
- Heart failure & hypertension
- Nurses & technicians



CORONARY

- Hotline Trials:
 - NEXT, SORT OUT VII, PRAGUE 13
- Plenary sessions:
 - STEMI-MVD: what about non culprit lesion?
 - MVD stable CAD
 - FFR iFR
 - BioResobable Scaffolds
 - CTO
 - Bifurcations
 - Radial access
 - Antithrombotic therapy
- Great Debate



Final Three-Year Outcome of a Randomized Trial Comparing

Second Generation Drug-eluting Stents Using Either Biodegradable Polymer or Durable Polymer

The NOBORI Biolimus-Eluting versus XIENCE/PROMUS Everolimus-eluting Stent Trial (NEXT)



Kyoto University Graduate School of Medicine, Saiseikai Fukuoka General Hospital

Ken Kozuma, MD; Takeshi Morimoto, MD, MPH; Kazushige Kadota, MD; Toshiya Muramatsu, MD, Yoshihisa Nakagawa, MD, Takashi Akasaka, MD; Keiichi Igarashi, MD; Kengo Tanabe, MD; Yoshihiro Morino, MD; Tetsuya Ishikawa, MD; Hideo Nishikawa, MD; Masaki Awata, MD; Masaharu Akao, MD; Hisayuki Okada, MD; Yoshiki Takatsu, MD; Nobuhiko Ogata, MD; Kazuo Kimura, MD; Kazushi Urasawa, MD; Yasuhiro Tarutani, MD; Nobuo Shiode, MD; and Takeshi Kimura, MD

On behalf of the NEXT Investigators



NEXT Trial

Multicenter, randomized, non-inferiority trial comparing BP-BES with DP-EES

3235 patients scheduled for PCI using drug-eluting stent

No Exclusion Criteria (All-comer Design)

Randomization 1:1

Nobori BP-BES (N=1617)

Enrollment from 98 Japanese centers between May and October, 2011

Xience/Promus DP-EES (N=1618)

BP-BES
(N=1576)
<1035 days follow-up: N=41

3-Year Clinical Follow-up (N=3158; 97.6%)

DP-EES
(N=1582)
<1035 days follow-up: N=36

<Primary Endpoint>

Efficacy: Target lesion revascularization at 1-year Safety: Death or Myocardial Infarction at 3-year

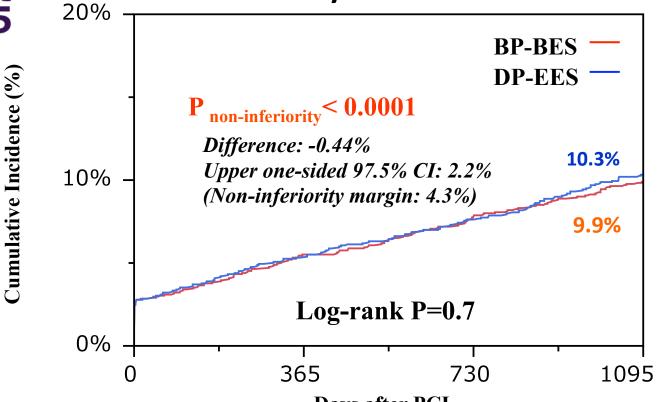
<Power Calculation>

3000 patients would yield 91% power to detect non-inferiority with the non-inferiority margin of 4.3% (True rate 12.2%)

Primary Safety Endpoint



Death or Myocardial Infarction



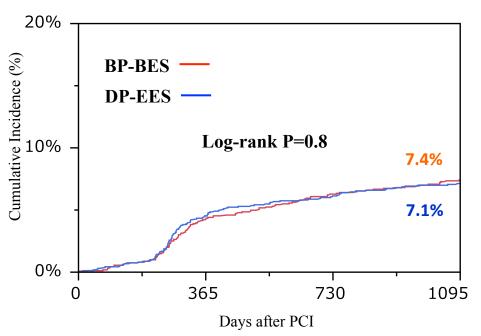
Days after PCI

Interval	0 day	30 days	365 days	730 days	1095 days
BP-BES group					
N of patients with at least 1 event		47	89	126	159
N of patients at risk	1617	1569	1524	1478	1416
Cumulative Incidence		2.9%	5.5%	7.8%	9.9%
DP-EES group					
N of patients with at least 1 event		47	87	124	166
N of patients at risk	1618	1571	1529	1482	1413
Cumulative Incidence		2.9%	5.4%	7.7%	10.3%



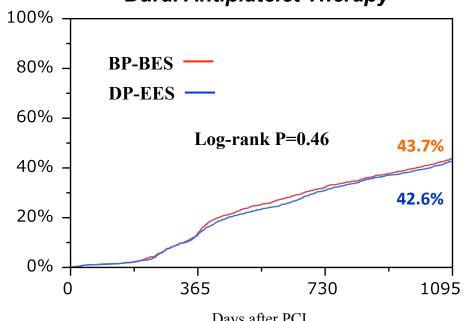
Cumulative 3-year Incidence

Target Lesion Revascularization



Interval	0 day	365 days	730 days	1095 days
BP-BES group				
N of patients with at least 1 event		68	99	116
N of patients at risk	1617	1506	1432	1353
Cumulative Incidence		4.3%	6.3%	7.4%
DP-EES group				
N of patients with at least 1 event		72	97	112
N of patients at risk	1618	1506	1440	1359
Cumulative Incidence		4.5%	6.1%	7.1%

Persistent Discontinuation of **Dural Antiplatelet Therapy**



Days after PCI

Interval	0 day	365 days	730 days	1095 days
BP-BES group				
N of patients with at least 1 event		218	503	673
N of patients at risk	1617	1347	1031	813
Cumulative Incidence		13.8%	32.2%	43.7%
DP-EES group				
N of patients with at least 1 event		205	484	657
N of patients at risk	1618	1367	1052	838
Cumulative Incidence		13.0%	31.0%	42.6%



Randomized comparison of a sirolimus-eluting stent with a biolimus-eluting stent in patients treated with PCI: the SORT OUT VII trial

Lisette Okkels Jensen, Per Thayssen, Michael Maeng, Jan Ravkilde, Lars Krusell, Hans-Henrik Tilsted, Anders Junker, Christian Juhl Terkelsen, Karsten Tange Veien, Anne Kaltoft, Anton Boel Villadsen, Jens Aaroe, Klára Berencsi, Svend Eggert Jensen, Knud Nørregaard Hansen, Steen Dalby Kristensen, Morten Madsen, Hans Erik Bøtker Henrik Steen Hansen, Bent Raungaard, Jens Flensted Lassen, Evald Høj Christiansen

Odense University Hospital, Aarhus University Hospital, Aalborg University Hospital - DENMARK









SORT OUT VII trial – 1 year

Objective:

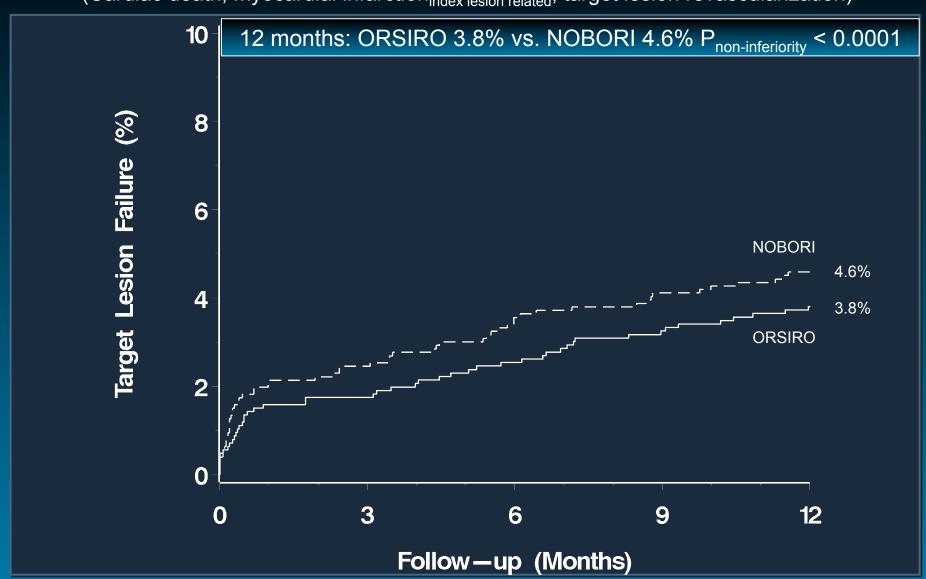
To compare the efficacy and safety of the thin strut, cobaltchromium biodegradable polymer sirolimus-eluting Orsiro stent and the stainless steel biodegradable polymer biolimuseluting Nobori stent in an all-comer population

Primary Endpoint:

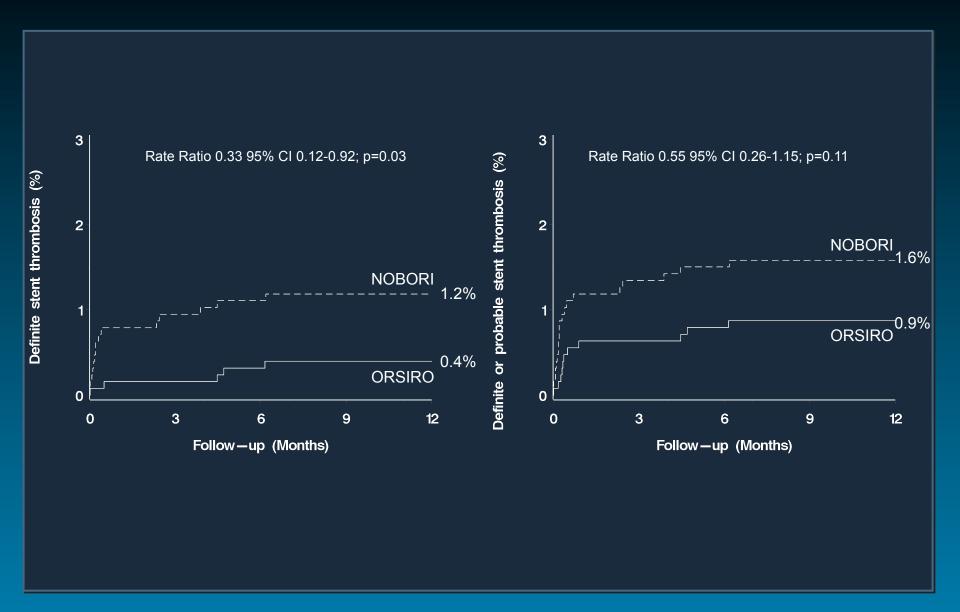
Target lesion failure: a composite of <u>cardiac death</u>, <u>myocardial infarction</u> (not related to other than index lesion) or <u>target lesion revascularization</u> within 1 year

1° Endpoint: Target Lesion Failure

(Cardiac death, myocardial infarction index lesion related, target lesion revascularization)



Stent Thrombosis



Conclusion

- The thin strut biodegradable polymer sirolimus-eluting Orsiro stent was non-inferior to the biodegradable polymer biolimus-eluting Nobori stent in unselected patients for the combined safety and efficacy endpoint target lesion failure at 1 year
- The sirolimus-eluting Orsiro stent was associated with a reduced risk of definite stent thrombosis



Multivessel coronary disease diagnosed at the time of primary PCI for STEMI: complete revascularization versus conservative strategy. PRAGUE 13 trial

O. Hlinomaz

ICRC, St. Anne University Hospital, Brno, Czech Republic

On behalf of the PRAGUE-13 Investigators

L. Groch, K. Polokova, F. Lehar, T. Vekov, R. Petkov, M. Stoynev, M. Griva, J. Sitar, M. Rezek, M. Novak, J. Semenka, N. Penkov, B. Gersh, D. Holmes, G. Sandhu, P. Widimsky

Grant IGA Czech Republic NT11412-5/2010, VAVPI EU Project NCT01332591





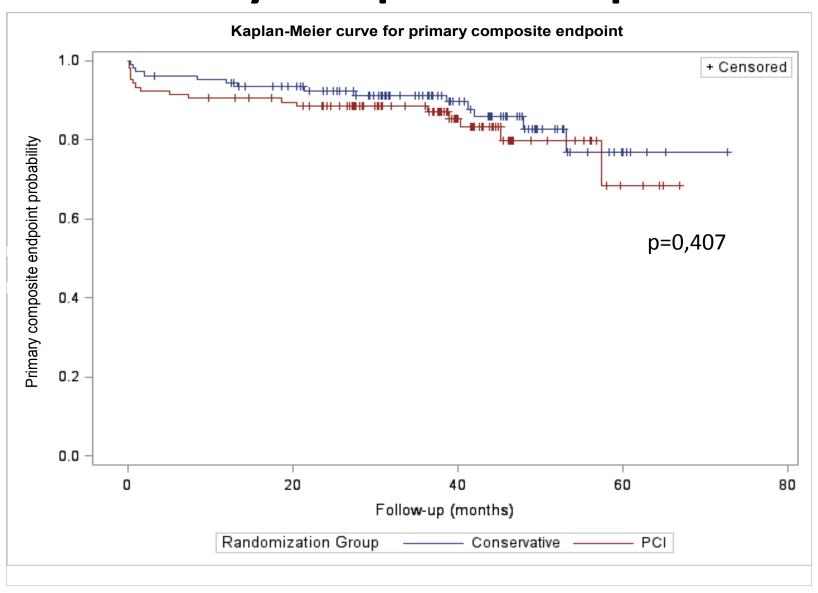








Primary composite endpoint





Conclusion

This trial found no difference (not even a trend) favouring staged multivessel PCI over culpritonly primary PCI in STEMI.

Larger trials are needed to clarify the revascularization strategy in STEMI patients with multivessel disease.











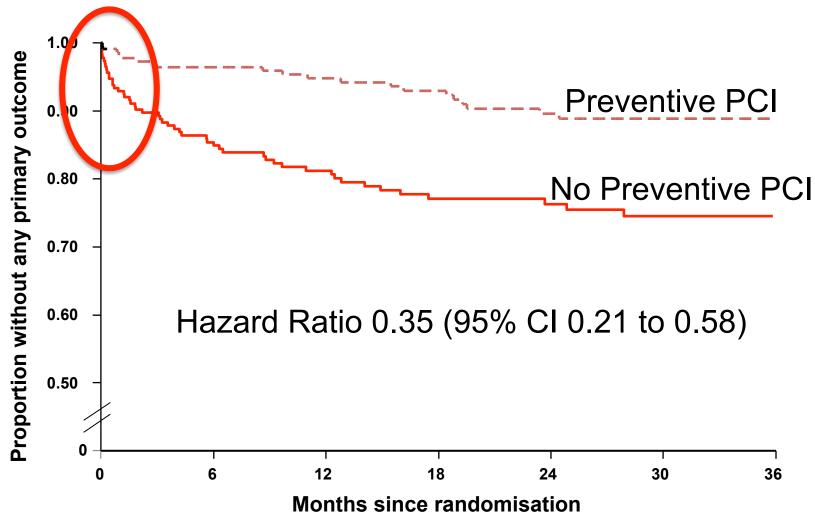
Coronary plenary sessions

STEMI-MVD:

what about non culprit lesion?



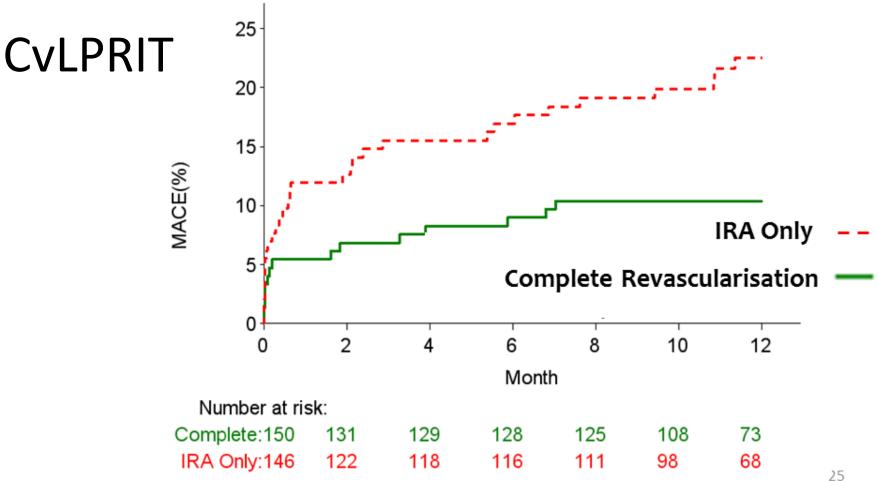
Early benefit observed in PRAMI





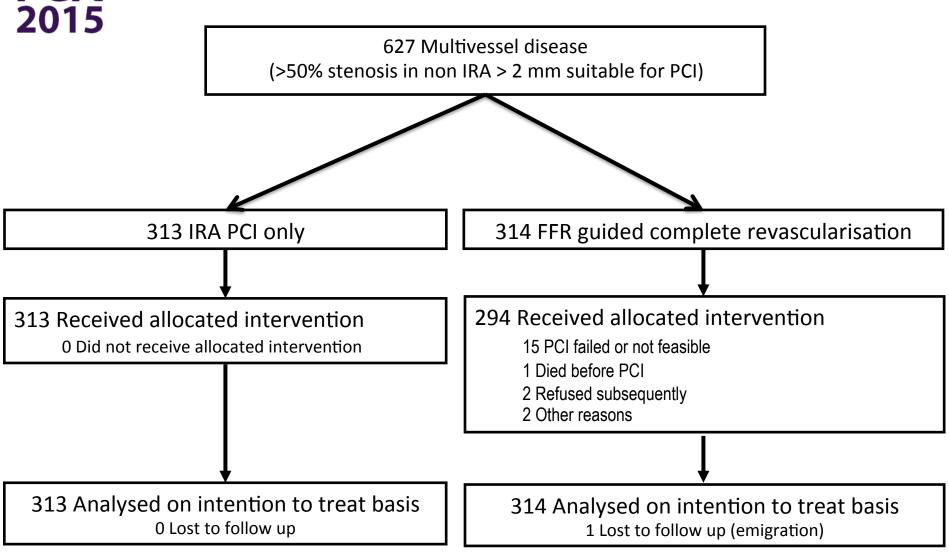
Complete revasc superior to culprit PCI

The primary endpoint composite of total mortality, recurrent MI, heart failure and ischaemia-driven revascularisation at 12 months

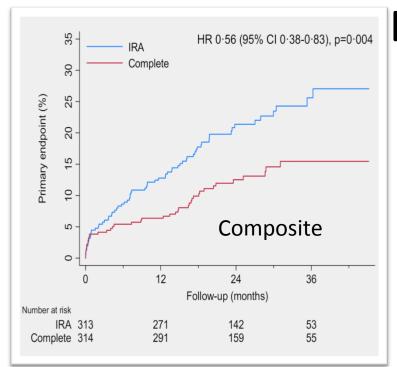




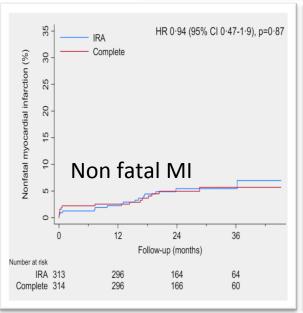
DANAMI3-TRIAL PROGRAM

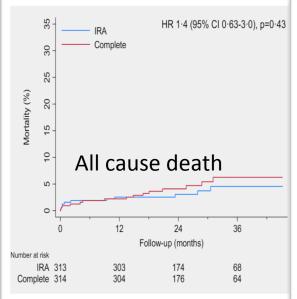


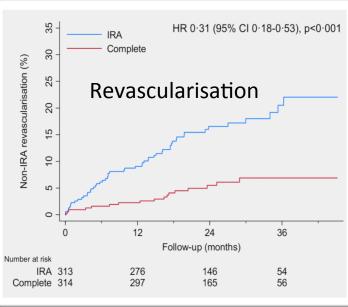




DANAMI3-PRIMULTI Primary Endpoint









Conclusions

- PPCI focus remains early culprit recanalisation
- Index angiography can be difficult to interpret spasm multiple culprits focus on DTB
- Complete revascularisation advantageous
- Timing of bystander PCI remains unclear
 clinical status is best guide currently
- Definite role for ischaemia testing



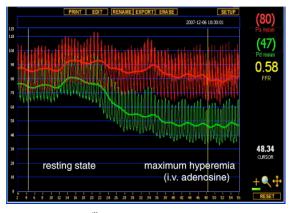
Coronary plenary sessions

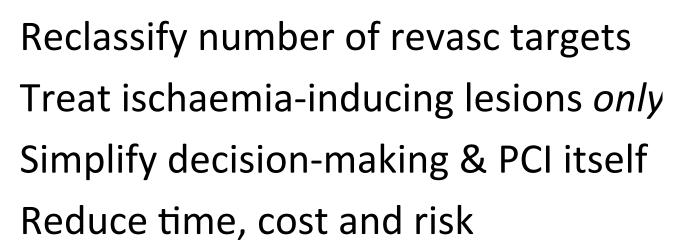
Percutaneous revascularisation for complex multivessel disease in stable coronary artery disease

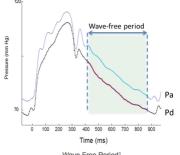


Summary

Use of coronary physiology critical in contemporary management of multivessel disease









Coronary plenary sessions

BioResorbable Scaffolds

How to integrate the currently available bioresorbable scaffolds in daily practice?

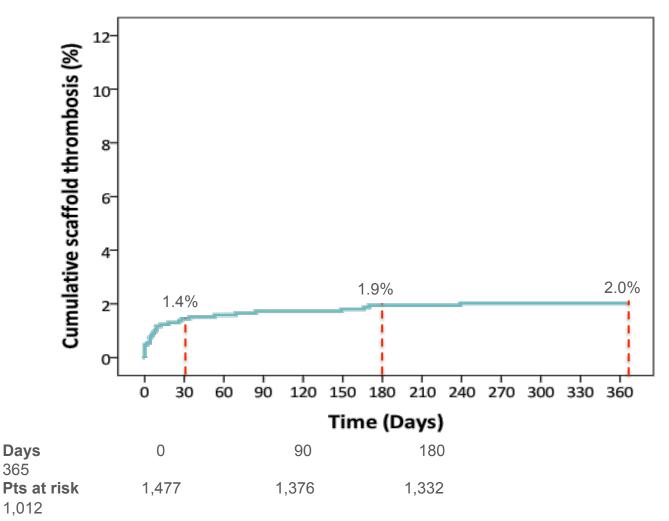


365



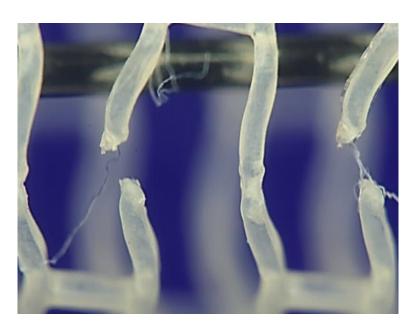
Scaffold Thrombosis

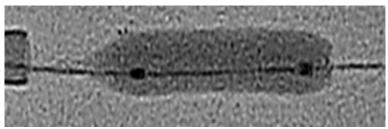
Definite/probable





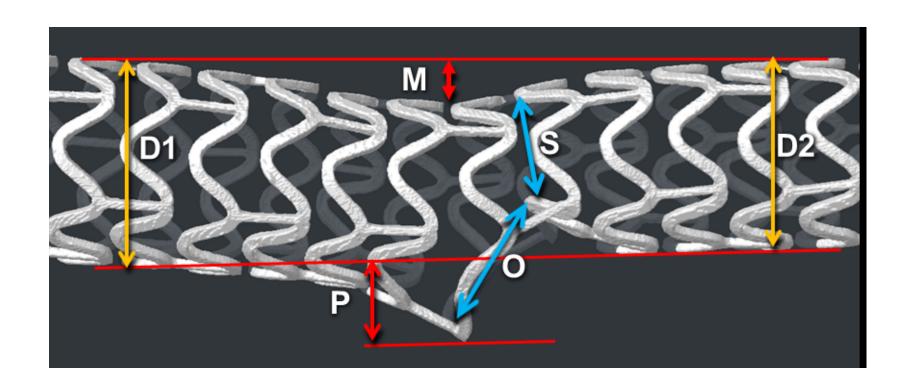
Post-dilatation may cause strut # Multiple #s cause adverse events What is safe dilatation?





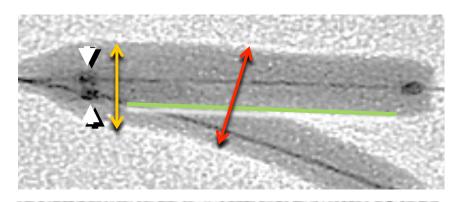


Dilatation through the side of a scaffold causes distortion that should be corrected by a post-dilatation strategy



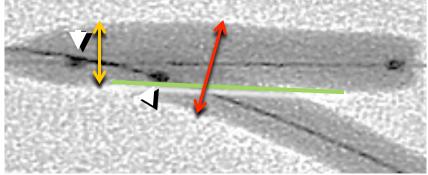


Strategies that may correct distortion after scaffold side-dilatation

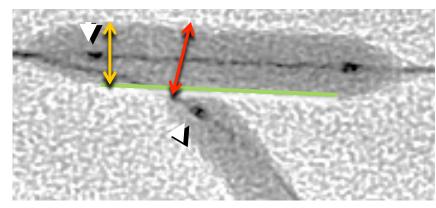


<u>Conventional kissing</u> balloon post-dilatation.

Balloon proximal markers are aligned



Mini-kissing balloon post-dilatation
There is minimal protrusion of the SB
balloon into the MB



<u>"Snuggle"</u> balloons There is no overlap of balloons



Optimal duration of DAPT with BRS

Minimum of 6 months recommended in ABSORB program

Clinic evaluation

Selection of the patient

Low bleeding risk

No planned surgery

Avoid patients with OAC

Procedural evaluation

BVS diameter

Complex lesions

Overlap scaffolds

12 months (18-24 months?) regardless initial presentation



Coronary plenary sessions

Coronary bifurcations

How to successfully perform PCI for complex bifurcation lesions?



Randomized comparison of provisional side branch stenting versus a two-stent strategy for treatment of true coronary bifurcation lesions involving a large side branch.

Two-year results in the Nordic-Baltic bifurcation study IV

Indulis Kumsars, Niels R. Holm, Matti Niemelä, Andrejs Erglis, Kari Kervinen, Evald H. Christiansen, Michael Maeng, Andis Dombrovskis, Vytautas Abraitis, Aleksandras Kibarskis, Terje K. Steigen, Thor Trovik, Gustavs Latkovskis, Dace Sondore, Inga Narbute, Christian Juhl Terkelsen, Markku Eskola, Hannu Romppanen, Lisette Okkels Jensen, Mika Laine, Tuija Vasankari, Pål Gunnes, Lasse Hebsgaard, Ole Frobert, Fredrik Calais, Jens Aaroe, Juha Hartikainen, Svend Eggert Jensen, Jan Ravkilde, Thomas Engstrøm, Leif Thuesen, Jens F. Lassen

For the Nordic-Baltic PCI Study Group



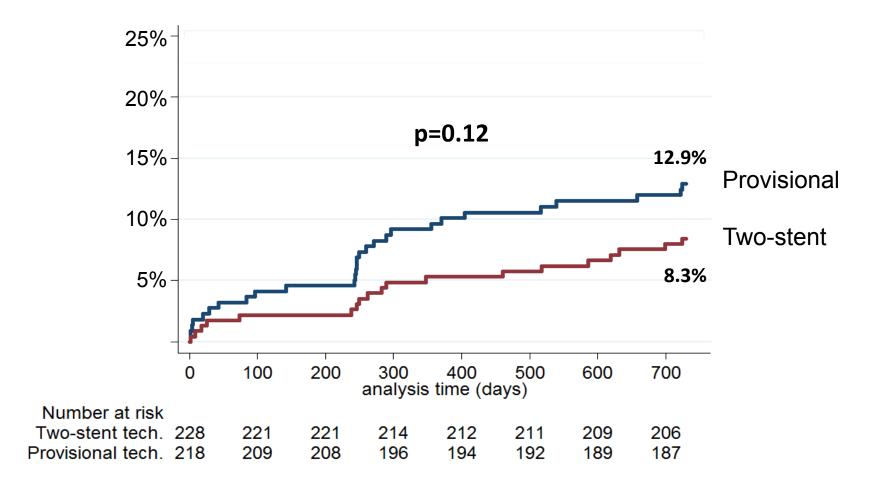








Two-year MACE

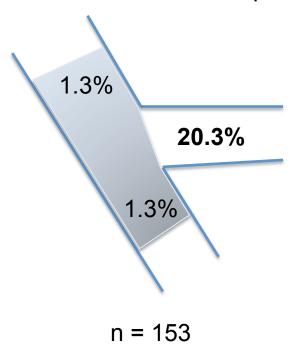




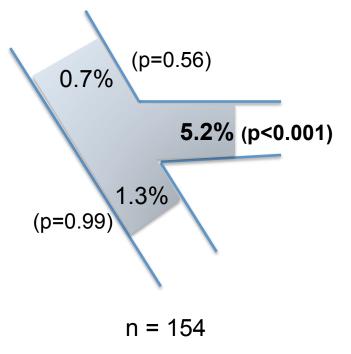
MACE: cardiac death, non-procedural myocardial infarction, target lesion revascularization and definite stent thrombosis

⁵Angiographic restenosis* at 8 months

Provisional SB stent technique



Two-stent technique



* Binary restenosis ≥ 50% diameter stenosis

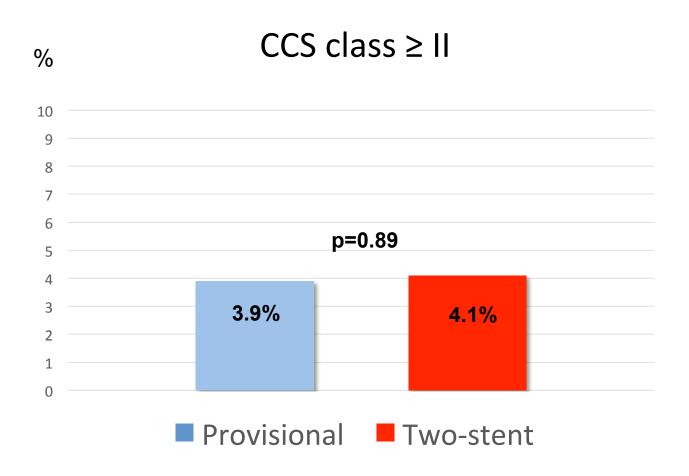
QCA by dedicated bifurcation analysis. Medis QAngioXA 7.3



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Angina pectoris at 2 years





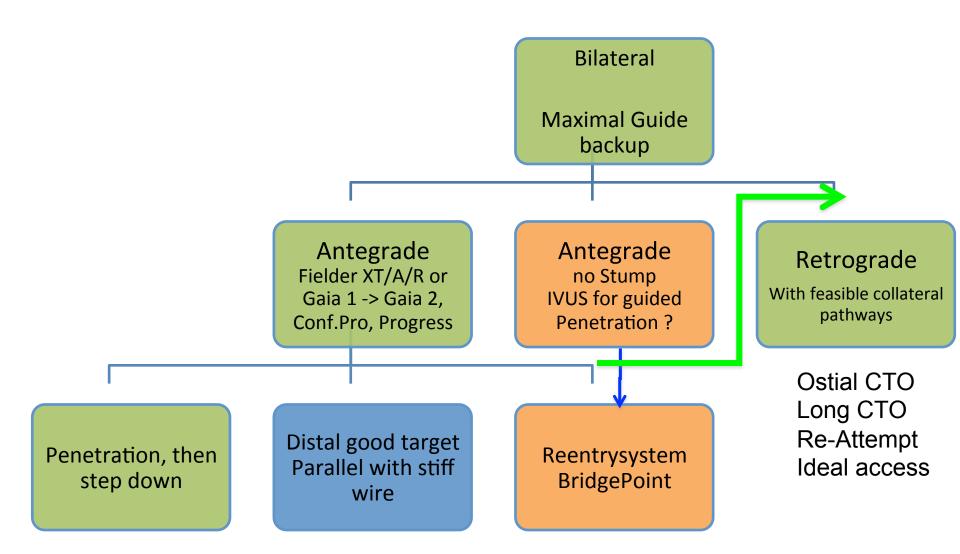


Coronary plenary sessions

Appropriate use of coronary CTO interventions in 2015



Strategic options in Europe





Coronary plenary sessions

Difficult clinical decisions in antithrombotic therapy for coronary interventions



3 key and controversial issues!

Timing of P2Y12 blockers in SCAD / ACS

DAPT duration after ACS / DES

Management of PCI patient with OAC

STRUCTURAL

- Hotline Trials: NOTION, DEFLECT III
- Breaking news: Leaflet thickening & motion abnormality
- Plenary sessions:
 - TAVI: imaging, PVL, CAD, future vision
 - Valve in valve
 - Mitraclip
 - Mitral valve replacement
 - LAA closure
 - Heart failure



The NOTION Trial

An All-comers Randomized Clinical Trial Comparing Transcatheter with Surgical Aortic Valve Replacement in Patients with Aortic Valve Stenosis

Lars Søndergaard

The Heart Center, Rigshospitalet, Copenhagen, Denmark

- on behalf of the NOTION Investigators









Primary Outcome*

Composite rate of death from any cause, stroke or myocardial infarction 1 year after the procedure

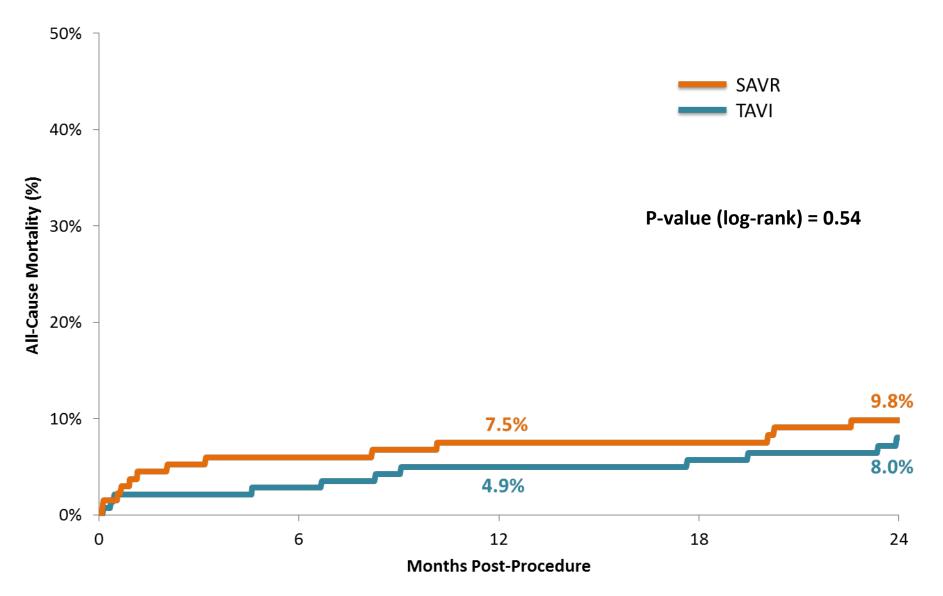
TAVI 13.1% vs. SAVR 16.3%

Absolute difference -3.2%; p=0.43 (for superiority)

*Intention-to-treat population



Death from Any Cause at 2 Years





Secondary Outcomes at 2 Years

	1 Year		2 Years			
Outcome, %	TAVI	SAVR	p-value	TAVI	SAVR	p-value
Death, any cause	4.9	7.5	0.38	8.0	9.8	0.54
Death, cardiovascular	4.3	7.5	0.25	6.5	9.1	0.40
Stroke	2.9	4.6	0.44	3.6	5.4	0.46
TIA	2.1	1.6	0.71	6.0	3.3	0.30
Myocardial infarction	3.5	6.0	0.33	5.1	6.0	0.69
Atrial fibrillation	21.2	59.4	<0.001	22.7	60.2	<0.001
Pacemaker	38.0	2.4	<0.001	41.3	4.2	<0.001
Aortic valve re-intervention	0.0	0.0	na	0.0	0.0	na



Final 30-day results of the **DEFLECT III trial:** a prospective randomised evaluation of the novel embolic protection DEFLECTion device during TAVI

Andreas Baumbach

Bristol Heart Institute University Hospitals Bristol, UK

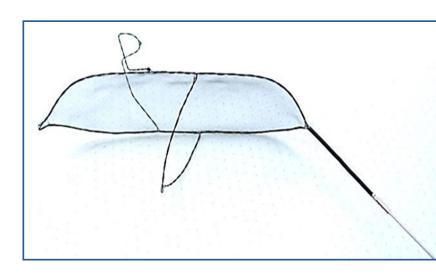
For the Deflect Study Group:

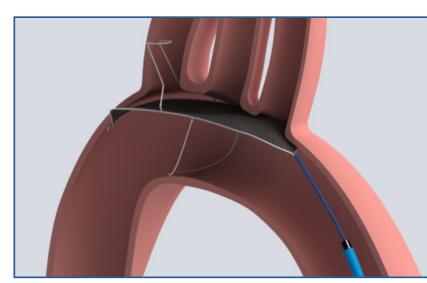
J Schofer, D Tchetche, P Stella, C Pietras, H Parise, K Abrams, J Forrest, M Cleman, J Reinöhl, T Cuisset, D Blackman, G Bolotin, S Spitzer, U Kappert, M Gilard, T Modine, D Hildick-Smith, M Haude, P Margolis, A Brickman, S Voros and A Lansky



TriGuard Device

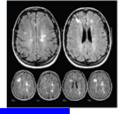
- Single-wire nitinol frame and mesh filter with pore size of 130µm designed to <u>deflect</u> cerebral emboli during TAVI while allowing maximal blood flow
- Positioned across all 3 cerebral vessels and maintained by a stabilizer in the innominate
- Delivered via 9 Fr sheath from the femoral artery





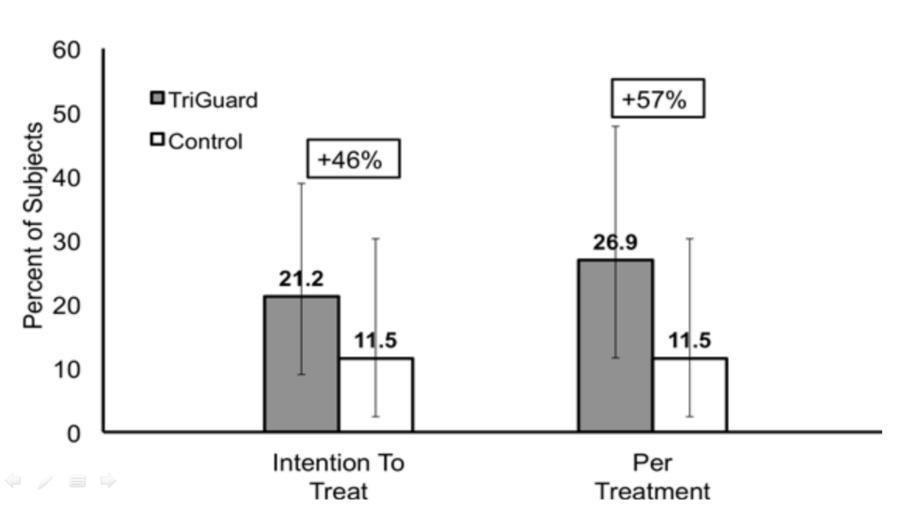


DW Brain Imaging



Increased rate of pts without any new brain lesion

A Freedom from ischemic brain lesions





Key Messages on Behalf of PCR Breaking News Session

Leaflet Thickening and Reduced Motion of Bioprosthetic Aortic Valves

Dr Bernard Prendergast DM FRCP FESC
St Thomas' Hospital London, UK
Co-Director PCR London Valves



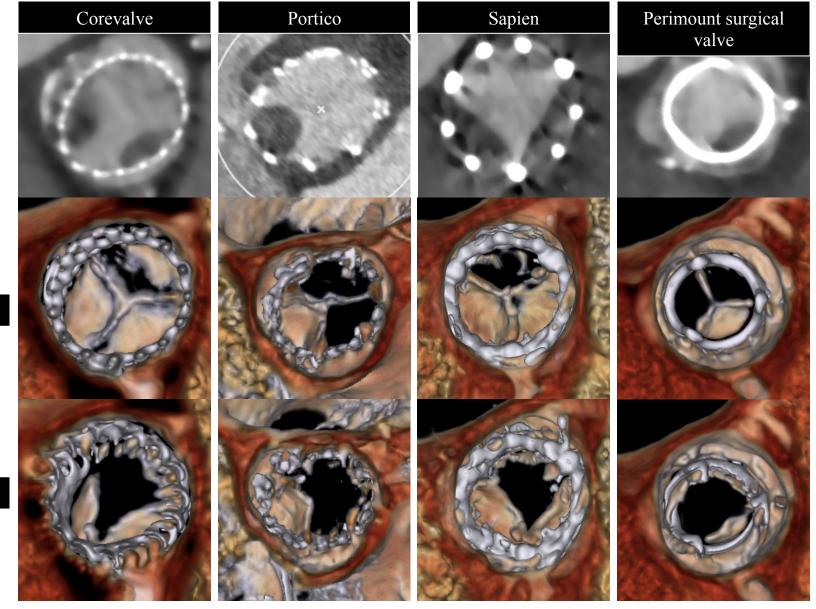








Reduced leaflet motion was observed in all valve types including surgical bioprostheses



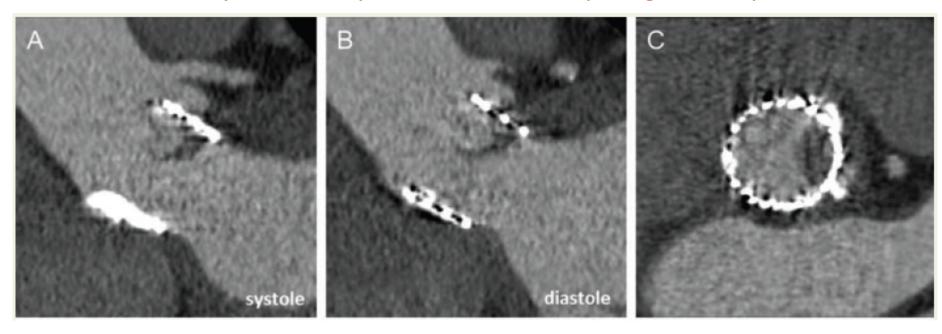
Systole

Diastole



Early Hypoattenuating Leaflet Thickening

SAPIEN XT, 5 days after implantation, on clopidogrel + aspirin



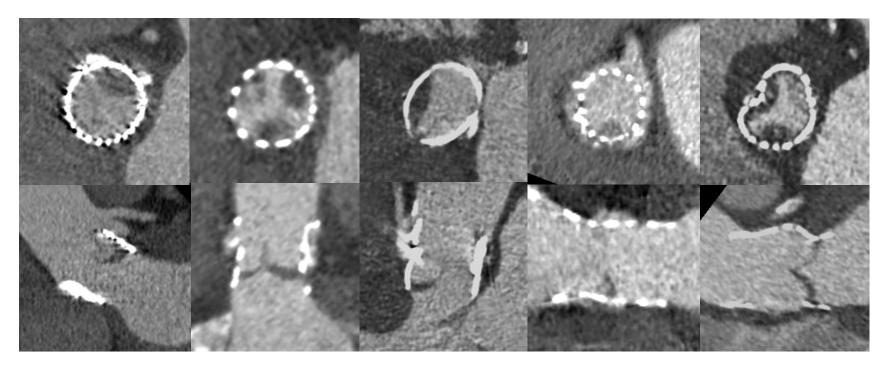
2nd generation dual-source CT scanner (Somatom Definition Flash, Siemens) contrast-enhanced retrospective ECG-gated data acquisition temporal resolution of 75 ms





Early Hypoattenuating Leaflet Thickening

may occur in any valve type



SAPIEN XT

SAPIEN 3

LOTUS

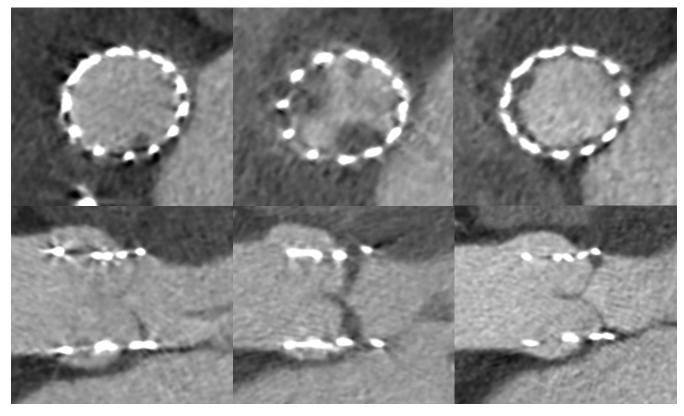
CORE VALVE

PERCEVAL





Progression and Regression of Leaflet Thickening



July 2014

3-month FU

6 month FU

Antiplatelet Therapy

Antiplatelet Therapy

+

Full Anticoagulation





TAVI: An Established Procedure

- TAVI is now a standard life saving procedure for patients with severe AS who are inoperable and an alternative to surgical AVR in high risk subjects
- A large body of high quality clinical evidence confirms its safety, durability and effectiveness
- Over 100,000 procedures performed worldwide
- There is no current standardised regime of anti-platelet or anti-thrombotic therapy before, during or after TAVI
- Rates of stroke in current RCTs and large scale registries are very low (1-2%) and comparable with surgical AVR



Reassuring Data

- Today's data allay concerns regarding previous chance clinical observations and research-based imaging using 4D CT
- In 345 patients with a variety of surgical valves and TAVI devices:
 - ➤ Spectrum of findings (leaflet thickening, impaired leaflet motion and thin films or small aggregations of thrombus) in **7-15% of patients**
 - > All asymptomatic no association with clinical events (stroke, systemic embolism or valve failure)
 - Resolution of the most advanced abnormalities with oral anticoagulants
- Some of these findings may represent imaging artefact or the natural history of biological valve leaflets



Take Home Messages

- There is no need for clinicians to modify their TAVI practice:
 - ➤ Patient selection, device implantation, or follow up protocols (imaging and medical therapy)
 - Systematic follow up using CT or TOE in asymptomatic TAVI patients is unjustified
 - ➤ Current regimes of antithrombotic therapy remain appropriate intensified treatment will expose TAVI patients to higher risk of bleeding
- Future studies will elaborate these observations and define the optimal regime of antithrombotic therapy for patients undergoing TAVI or surgical bioprosthetic AVR



Structural plenary sessions

How to Prevent Thromboembolic Complications in TAVI

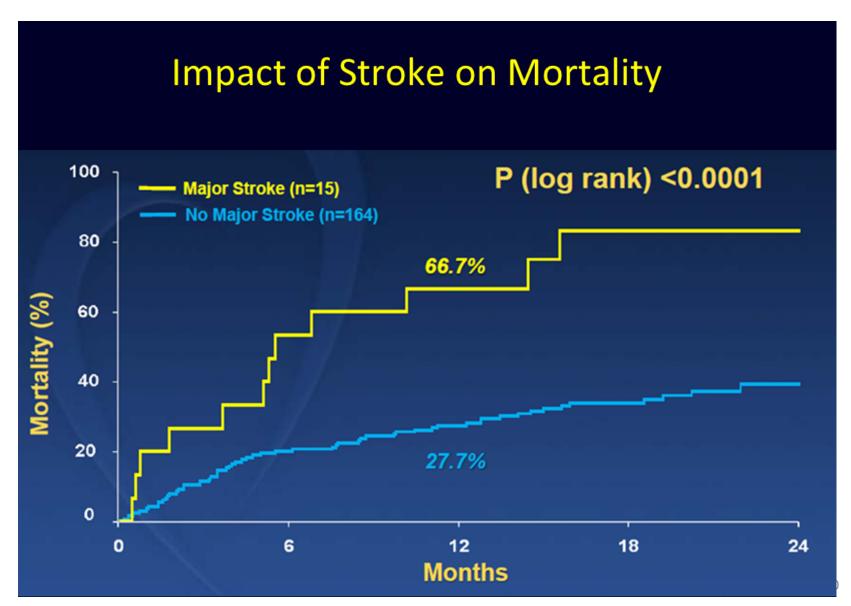
PETER WENAWESER, MD



Swiss Cardiovascular Centre, University Hospital, Bern, Switzerland

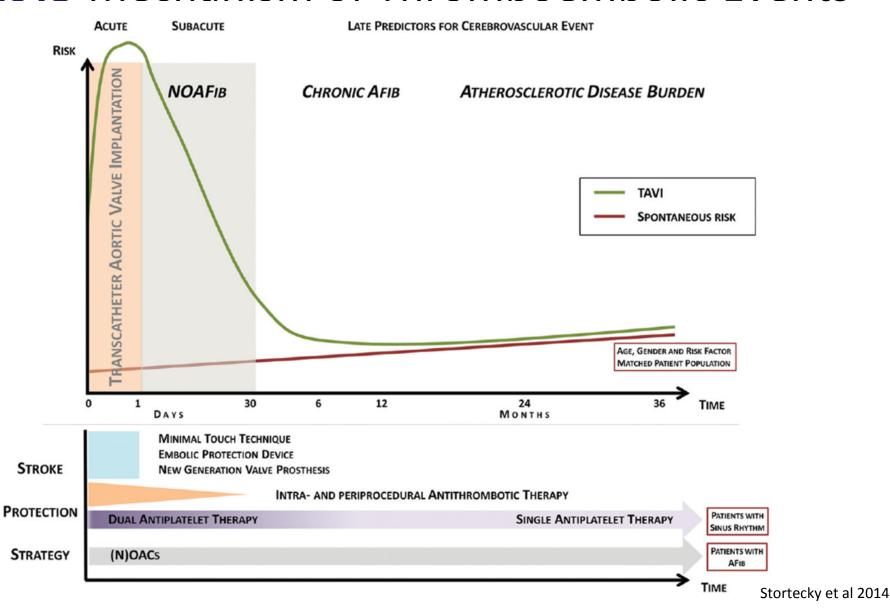


TAVI - STROKE



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PCR 2015 Mechanism of Thromboembolic Events





Background

Device	Embrella	TriGuard™	Claret™	
Access Site	Radial	Femoral	Radial	
Position	Aorta	Aorta	Brachiocephalic + Left Common Carotid	
Coverage Area	Brachiocephalic + LCC	Brachiocephalic + LCC + LSC	Brachiocephalic + LCC	
Mechanism	Deflection	Deflection	Capture	
Size	6F	9F	6F	
Pore Size	100 microns	250 microns	140 microns	

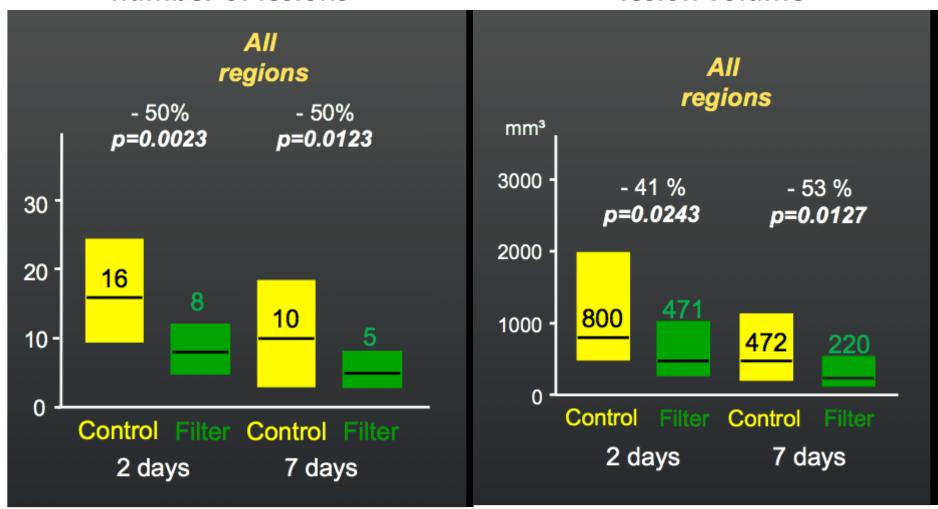
Protection systems



CLEAN-TAVI MRI results

number of lesions

lesion volume



Boxes identify the 25%-75% CI, the black lines and number represent the median.



Summary

- Stroke remains an important issue for patients undergoing TAVI
- Further improvements in the field of antiplatelet and anticoagulation treatment are warranted
- The role of protection devices need be determined



Structural plenary sessions

Paravalvular leak



Paravalvular Aortic Regurgitation: The Achille's heel of TAVI?

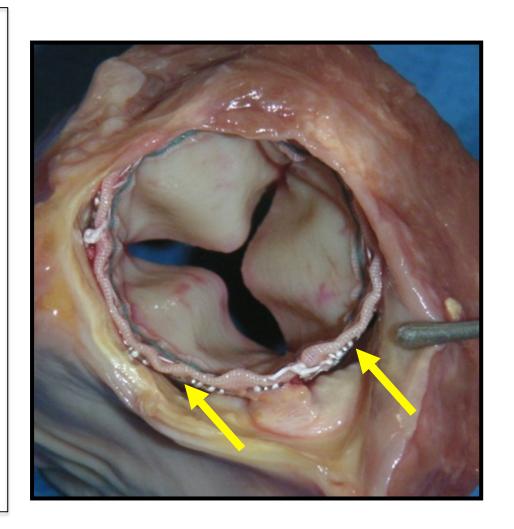
Overall incidence: 50-85%

Moderate and severe PVL

2010 SOURCE: 1.9%
2010 Canadian registry: 6%
2010 PARTNER IA: 12%
2011 PARTNER IB: 12.2%
2011 German registry: 15.2
2012 Italian registry: 15.2%
2012 FRANCE 2: 17%

Two main causes:

- *Inappropriate sizing* of the prosthesis
- *Malpositioning* of the prosthesis





The new devices and their characteristics to reduce PVL





- Repositionable, fully retrievable
- Allows hemodynamic assessment before final detachment



- Adaptive seal
- Repositionable & retrievable
- High radial force
- Allows hemodynamic assessment before final detachment

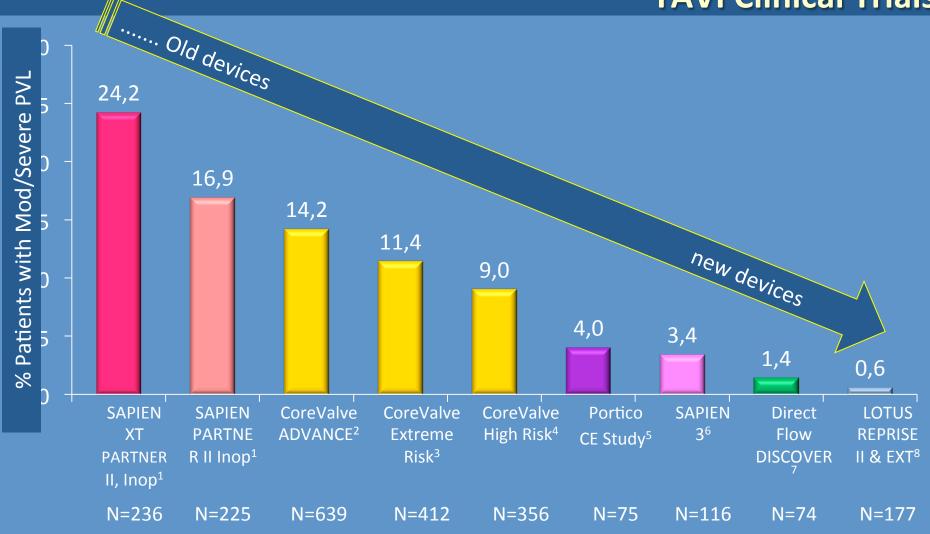


- Outer skirt minimizes paravalvular leak
- High radial strength for circularity / increased frame height



- More consistent radial force and
- Optimized cover index to reduce PVL
- Resheathable, recapturable, repositionable and retrievable
- Allows hemodynamic assessment before final detachment

1 Month Moderate & Severe PVL TAVI Clinical Trials



¹Leon M, ACC 2013, ²Linke A, PCR 2014. ³Popma J, *JACC* 2014; 63(19): 1972-81, ⁴Adams D, *N Engl J Med* 2014; 370: 1790-98. ⁵Manoharan, et al. TCT 2014. ⁶Webb J, EuroPCR 2014. ⁷Schofer, JACC 2013. ⁸Ian Meredith, London Valves 2014. Results from different studies not directly comparable. Information provided for educational purpose only.



Structural plenary sessions

TAVI in intermediate-risk patients What should we be doing now?











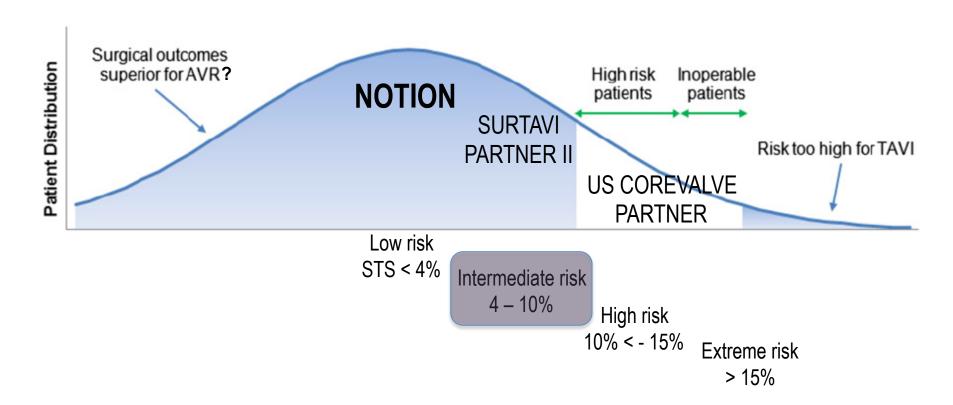
Risk is described along a continuum. There is no universally accepted criteria which clearly separates risk categories.

	Low Risk	Intermediate Risk	High Risk	Extreme Risk	
VARC-2 (2012) ¹	Estimated 30 day mortality <4%	Estimated 30 day mortality 4-10%	Estimated 30 day mortality >10%	Est 30 day mortality >15% (very high risk) Est >50% irreversible morbidity or mortality (extreme risk)	
AHA/ ACC (2014) ² Note: All bullets represent "OR"	-STS <4% -with no additional risk indicators	-STS 4-8% -1 Frailty index -1 Major Organ System compromised -Possible Procedure impediment	-STS >8% -≥ 2Frailty indices -2 Major Organ System compromised -Possible Procedure specific impediment	 Predicted risk of death or major morbidity >50% at 1 y ≥3 Major Organ System compromised Severe Procedure impediment 	



The Evidence Base

Operative Risk and TAVR vs. SAVR Trials





Structural plenary sessions

A Future Vision of TAVI: A simplified and reproducible procedure





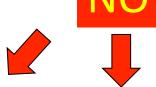






In 2015, TF-TAVI with conscious sedation comes with the concept of « minimalist strategy »

- TAVI with local anesthesia and light sedation
- Pure percutaneous transfemoral approach
- Preclosing with closure devices
- Transthoracic Echo on demand
- ICU < 24h, Early discharge (1-3 Days)







Additional vascular lines (jugular vein / radial art.)

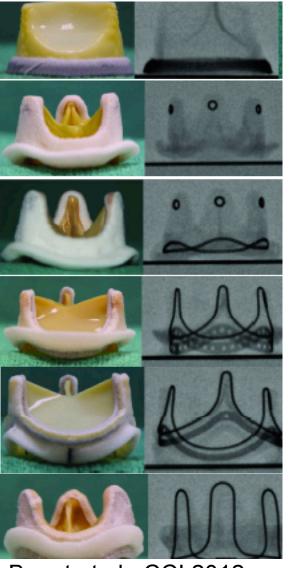


Structural plenary sessions

Valve in valve



Valve in Valve Sizing



Mitroflow (Sorin)

Mosaic (Medtronic)

Hancock II (Medtronic)

Perimount (Edwards)

Magna (Edwards)

Porcine (Edwards)

Bapat et al. CCI 2012

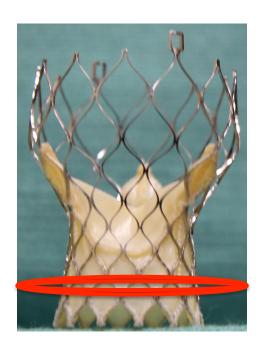


Ideal Position

With Reference to the Neo-annulus = Sewing ring



Sapien 15%



CoreValve 4mm



Portico 4mm



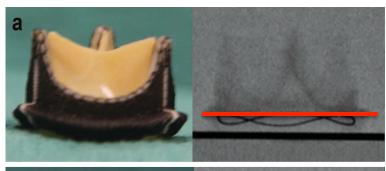
Where is the sewing ring?

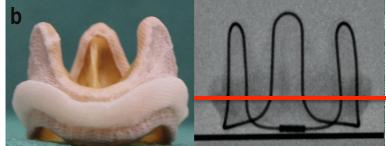
Fluoroscopy

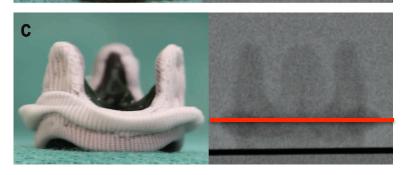
Sewing ring marker

Stent frame marker

No marker









Structural plenary sessions

Left atrial appendage closure systems: implantation techniques











LAA closure

To obtain a technical overview of currently used devices for LAA closure





LAA closure

- To learn how to tackle challenging anatomies with these devices
- ✓ Too large?
- ✓ Too small?
- ✓ Too shallow?
- ✓ Multilobar?
- ✓ Chicken wing?



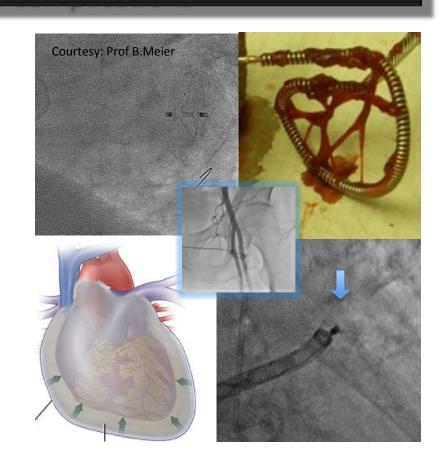


LAA closure

To learn how to avoid complications

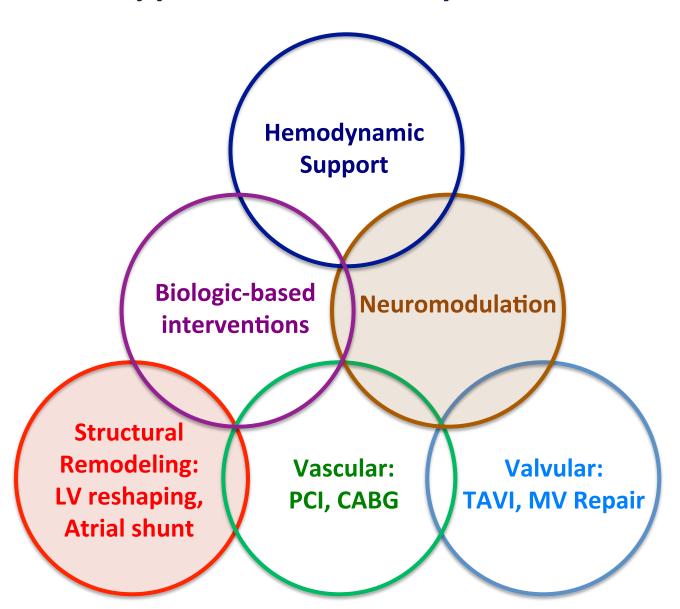
Most common complications

- ✓ Device embolization
- ✓ Thrombus formation
- ✓ Cardiac tamponade
- ✓ Air embolism
- √ Vascular complications



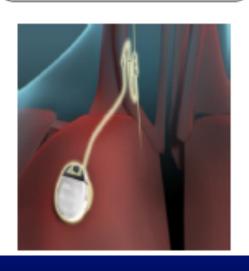


Interventions for Heart Failure Approaches and Components



Parasympathetic Modulation with Devices

Vagal Stimulation



Baroreceptor Stimulation

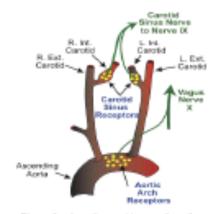


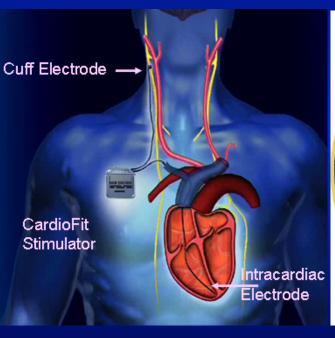
Figure 1. Location and innervation of arterial baroneceptors.

VS Clinical Devices and Studies

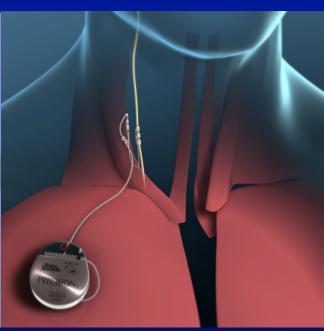
CardioFit

Anthem-HF

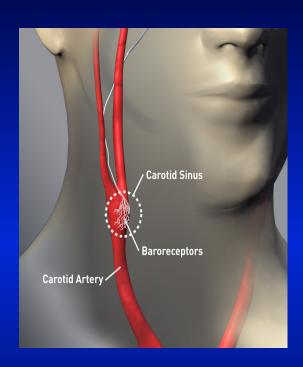
Nectar-HF



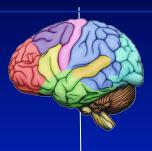




The Baroreflex as a Therapeutic Target



Carotid Baroreceptor Stimulation



Integrated Autonomic Nervous System Response

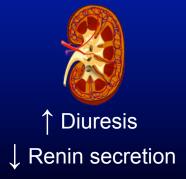
Inhibits **Sympathetic** Activity Enhances **Parasympathetic** Activity





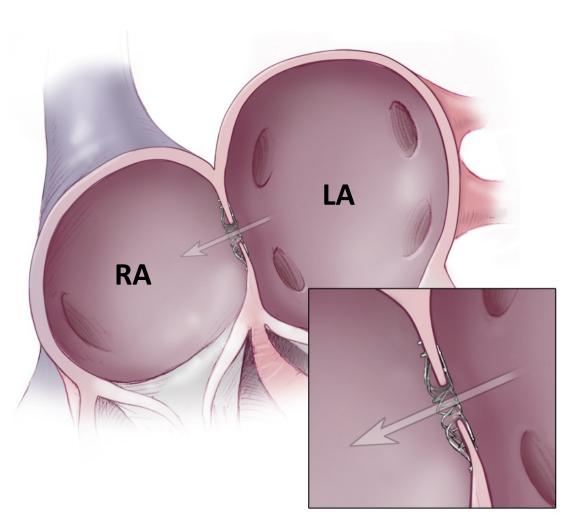








Inter-Atrial Shunt Device¹ – Concept



Elevated LV filling pressures (Elevated LAP)



Pulmonary Venous hypertension (Elevated PCWP)

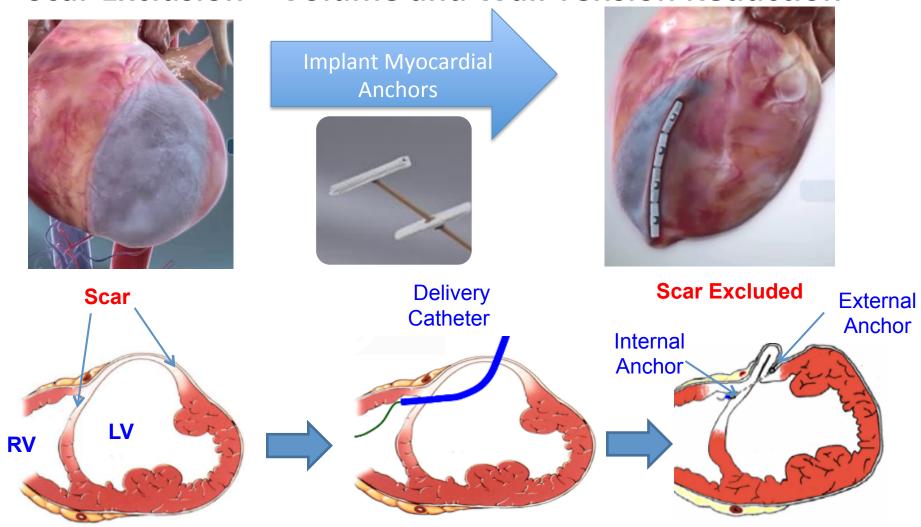


Pulmonary edema,
Dyspnea at rest/exercise

⁸⁶



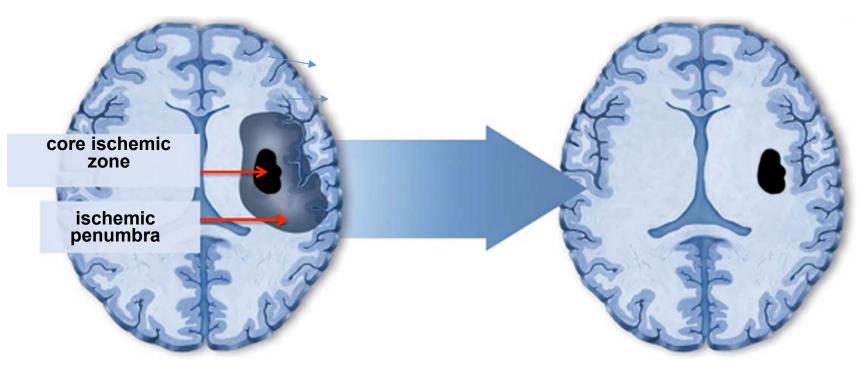
Revivent Principles of Operation: Scar Exclusion = Volume and Wall Tension Reduction



Breaking News Session

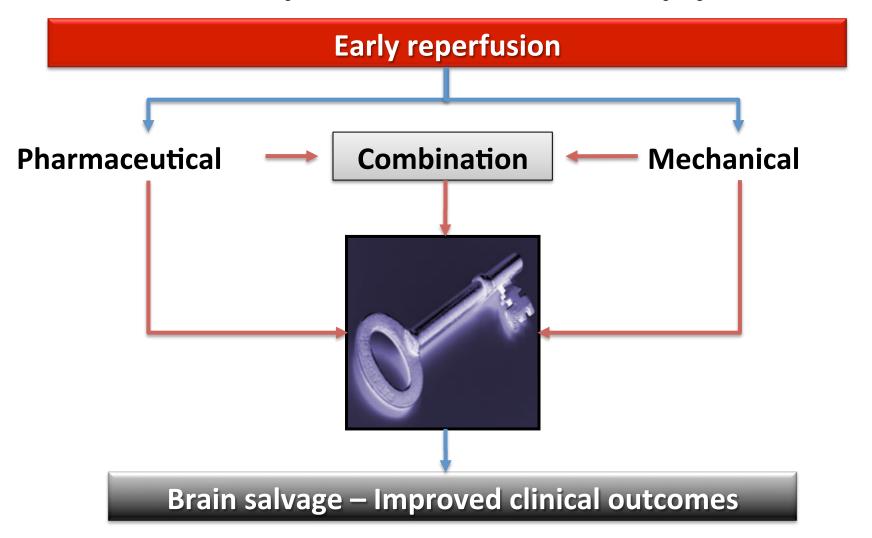
ACUTE STROKE

Rapid Reperfusion May Reduce Neurologic Deficit Just Like AMI



- Reperfusion of the ischemic penumbra may reduce the extent of damage and improve recovery of function
- Time is Brain
- The average patient loses 32,000 brain cells/second

Reperfusion Therapy



Endovascular therapy is highly beneficial, as compared with intravenous t-PA alone, in patients with occlusions of the intracranial internal carotid artery or middle cerebral artery up to 6 hours after stroke onset.

There is no significant increase in the rate of symptomatic brain hemorrhage.

Given the importance of this disease, how can we offer this effective method to as many patients with acute ischemic stroke as possible?

What do we need?

To build health care systems

- Interventional stroke centers
- Early intervention
- Collaborative network
- Emergency Medical Services

What do we need?

To train physicians

- Angiologists, neurologists, vascular surgeons, interventional cardiologists
- Depending on local situation

Many similarities with the implementation of STEMI networks (Stent for Life programme)

Experience with STEMI:

- need for early intervention
- effective EMS is crucial
- PCI centers effective 24h/7days
- trained and efficient interventional teams

The call for action includes

- 1. mapping of the local-regional-national situation
- 2. organisation of a proper emergency medical care system
- 3. increasing awareness of the public for early symptom recognition

EuroPCR

encourages the interventional community

- to join forces
- with all stakeholders
- in order to advance the establishment of proper care systems to offer endovascular treatment to all eligible stroke patients





EuroIntervention@EuroPCR 2015 On behalf of the Editors of EuroIntervention

Editor in chief: Patrick W. Serruys Managing Editor: Paul Cummins











Key milestones

















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