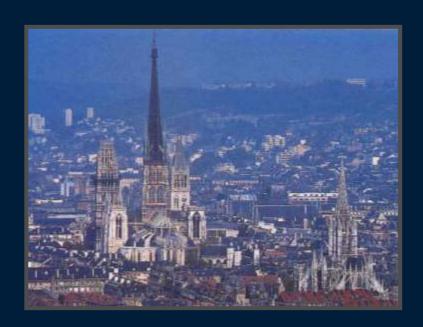
TAVR: March to the Lower Risk Cardiologist perspective

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Disclosure Statement of Financial Interest

Within the past 12 months, I have had a financial interest/arrangement or affiliation with the organization(s) listed below.

Affiliation/Financial Relationship

- Consulting Fees/Honoraria
- Proctoring-Training activities/Honoraria

Company

- Edwards Lifesciences
- Edwards Lifesciences





TAVI: Where Are We Today?

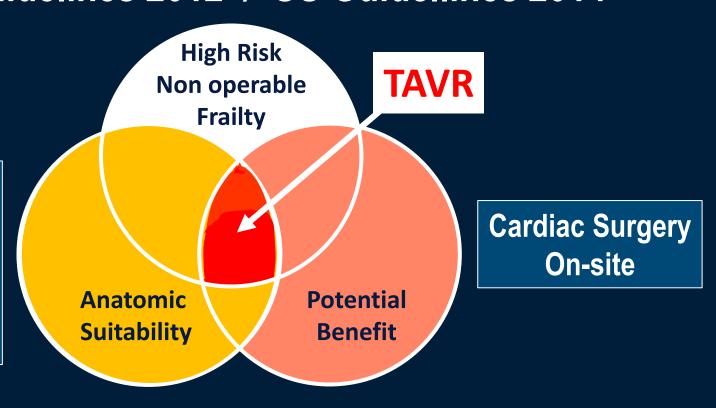
An incredible expansion worldwide



~ 300 000 TAVI procedures in 10 years > 700 centers OUS, > 500 centers in USA TAVI available in 65 countries around the world > 70 000 TAVI in 2015, expected growth of 40% / year

In 2015: Current Guidelines Are Freezing TAVR in the Past ESC Guidelines 2012 / US Guidellines 2014

Decison
must be
confirmed
by a
« Heart Team »



« Intermediate » risk patients (Log Euroscore < 10-20%, STS Score < 4-10%) are not candidates to TAVI</p>

Advanced Valves and Delivery Systems, Have Changed the World of TAVI Improved techniques, safety, and results



In 2016, The March to Lower Risk is Ongoing What do we need to know?

Propensity score Done analysis of TAVR vs SAVR in lower risk patients

Evidence-based trials in lower risk patients

Done

2013: OBSERVANT Study

2016: PARTNER 2S3i

2015: NOTION Study

2016: PARTNER 2A

Improved devices and Done strategies making TAVI safer, simpler and cost effective

Assessment of Valve + Platform durability

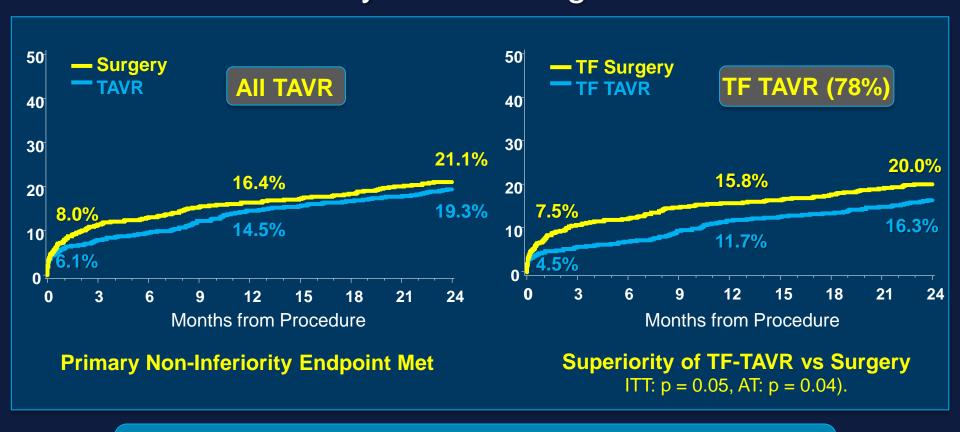
Ongoing

on long term

New TAVR Systems Minimalist TF-TAVR

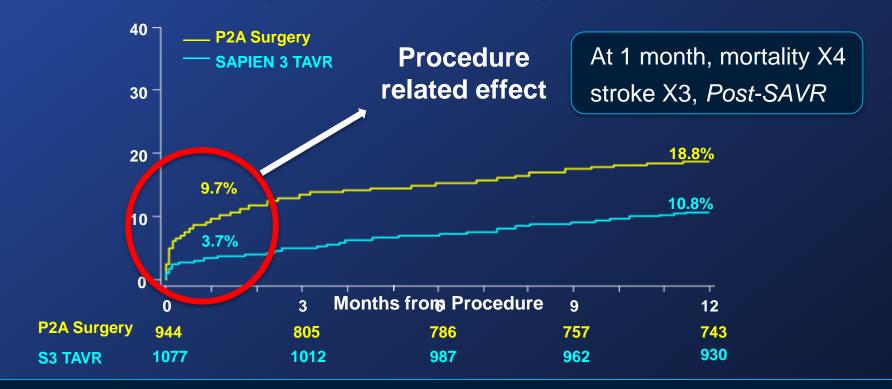
5 years **(PARNER 2A & 2B)**

The PARTNER 2A Trial (SAPIEN XT) Primary Endpoint (ITT) at 2 years All-Cause Mortality or Disabling Stroke



TAVR reduced AKI, severe bleeding, new AF and L.O.S. Surgery reduced vascular complications and PVL

The PARTNER S3i trial: SAPIEN 3 (PARTNER 2) vs SAVR (PARTNER 2A), propensity score analysis All-Cause Mortality and All Stroke (AT)



Primary Endpoint – Superiority of TAVR achieved (p<0.001)

Death, Stroke, or AR ≥ Mod at 1 Year

Superiority of SAVR on PVL (p<0.001) but moderate to severe PVL = 1.5% only at 1 year with TAVR

In lower risk patients, real life is clearly beyond both guidelines and randomized trials

- In Europe, TF-TAVR (90% of cases with new generation devices) is already the preferred option for patients older than 80, whatever the STS score
- Older patients are often referred to the cardiologists by the surgeons themselves
- In this subset of patients, valve durability on long term is not an issue
- The « minimalist transfemoral » approach is increasingly accepted (local anesthesia, no TEE, early discharge)

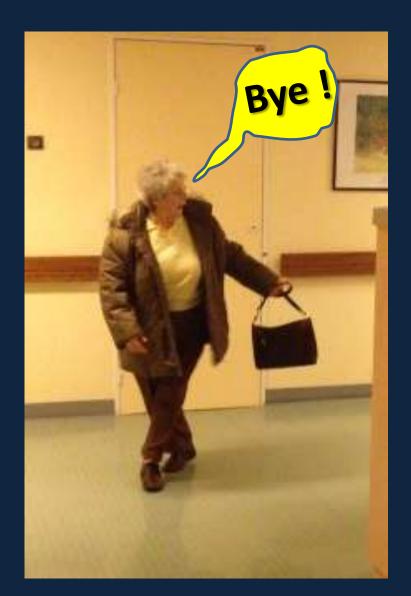
SAPIEN 3: Ease of use, improved results and safety: Key factors for the march to lower risk

2016: TAVR in real life

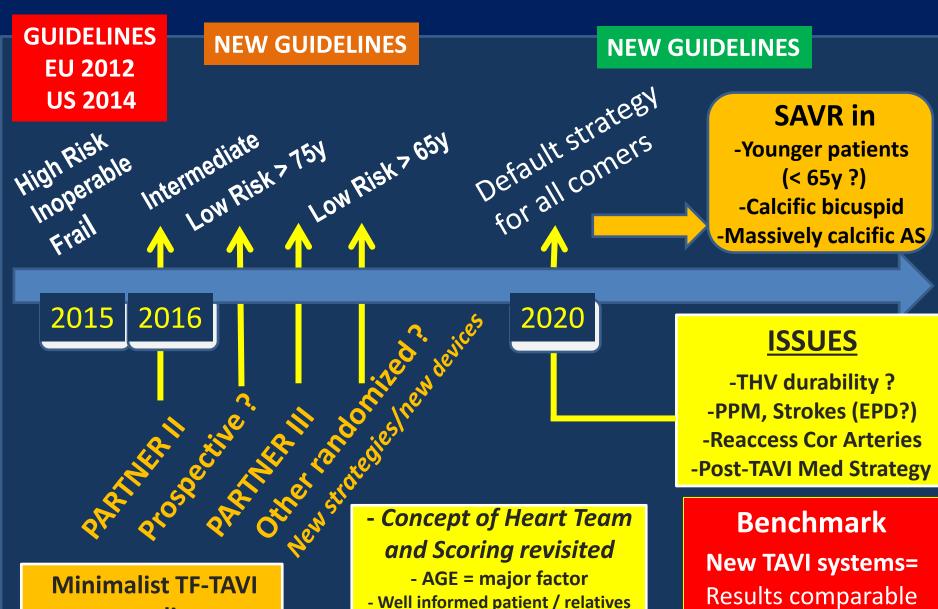
84 Y/O patient, EuroScore 8

- Minimalist TF approach
 Local anesthesia
 No pain, no scar
- Procedure duration: 40 min
- No AR, no other complication
- Total L.O.S.: 5 Days

Discharge at Day 2 Post-TAVR



How can we see the future of TAVR?



at the « heart » of the heart team

decision (TAVI or SAVR)

to SAVR at > 10 years

expanding

Conclusions

- In 2016, TAVR has entered a new era with remarkable technology enhancements leading to dramatic improvement of outcomes
- TAVR should be soon recognized as an alternative to SAVR in lower risk patients. The patients should be clearly informed of the two possible options
- Within 5 years, the impact of TAVR will continue to grow and TAVR might become the default strategy for a majority of AS patients, SAVR remaining an alternative option in suboptimal TAVR indication