CASE 7 - Concomitant CAD PTCA-TAVI markedly oval annulus

- 84 male
- Previous CVA x 2
- Moderate CRF
- NYHA III
- ECHO:
  - Severe AS, mean gradient 48mmHg, peak gradient 87mmHg, AVA 0.42cm²
- LHC:
  - Severe LMS - LAD - Im - RCA disease
- EUROSCORE 25.27%
ECHOCARDIOGRAPHY PRE
• CT
  – Annulus diameter :
    • 30,5 x 19,4 mm – mean 25,9 mm
  – LVOT diameter :
    • 31 x 17.5 mm
PTCA LMS – LAD - IM
TAVI – EVOLUT R 29 mm
TAVI – EVOLUT R 29 mm
TAVI – EVOLUT R 29 mm

REPOSITION lower

REPOSITION lower
TAVI – EVOLUT R 29 mm

FINAL INITIALLY – incomplete apposition moderate residual AR

ECHO
TAVI – EVOLUT R 29 mm

10 mins later – complete aposition
ECHO FINAL 4 days later
CASE 8 - TAVI IN EXTREME TORTUOSITY

- 86 male
- CHB – PPM 1 year ago
- NYHA III
- ECHO
  - Severe AS-AV gradient peak 65mmHg – mean 40mmHg – AVA 0.5cm²
  - Mild LV impairment
- LHC
  - Mild CAD
- **EUROSCORE 21.3%**
CT - extreme tortuosity
CT - extreme tortuosity
TAVI – EVOLUT R 29mm

Pre iliac

Tortous thoracic Ao
TAVI – EVOLUT R 29mm

Wire crossing – AL1 not long enough

Extended AL1 crossing
TAVI – EVOLUT R 29mm

Wire in LV

ARROW 100
TAVI – EVOLUT R 29mm

ARROW in LV - pigtail

CONFIDA over pigtail in LV
TAVI – EVOLUT R 29mm
TAVI – EVOLUT R 29mm
EVOLUT over CONFIDA unable to cross
TAVI – EVOLUT R 29mm

ARROW over CONFIDA

ARROW 100 in LV
TAVI – EVOLUT R 29mm
LANDERQUIST over ARROW in LV
TAVI – EVOLUT R 29mm

EVOLUT R over LANDERQUIST – buddy wire

EVOLUT R over LANDERQUIST – buddy wire
TAVI – EVOLUT R 29mm deployment
TAVI – EVOLUT R 29mm deployment
TAVI – EVOLUT R 29mm deployment
TAVI – EVOLUT R 29mm
final
Mortality after TAVI has decreased

1-yr TAVI mortality in randomized trials

- Non operable
  - PARTNER B: 31%

- Operable
  - PARTNER A: 24%
  - US Corevalve: 14%
  - NOTION: 5%

Mortality after TAVI has decreased
Time has come!