



Reconstruction of the Aortic Valve and Root: A practical approach

## Case presentations

# Day #2, Patient #1: S. F.

- 31y, male
- 177 cm, 94 kg, BSA 2,11 m<sup>2</sup>
- NYHA I-II, CCS 0
- Severe aortic regurgitation
- Bicuspid aortic valve
- EF 48 %
- LVEDD 61 mm, LVESD 46 mm (increasing dimensions in the last 3 months)
- $\Delta p_{\max}$  11 mmHg,  $\Delta p_{\text{mean}}$  5 mmHg
- AV 31 mm, Sinus 39 mm, STJ 33 mm
- Plan A: Aortic valve repair
- Plan B: Ross

# Day #2, Patient #2: G. S.

- 58y, male
- 180 cm, 93 kg, BSA 2,13 m<sup>2</sup>
- NYHA II, CCS 0
- Severe aortic regurgitation
- Tricuspid aortic valve
- EF 51 %
- LVEDD 67 mm, LVESD 49 mm
- $\Delta p_{\max}$  15 mmHg,  $\Delta p_{\text{mean}}$  6 mmHg
- AV 27 mm, Sinus 34 mm, STJ 28 mm
- Plan A: Aortic valve repair
- Plan B: Aortic valve replacement (biological)

# Day #2, Patient #3: S. S.

- 39y, male
- 180 cm, 76 kg, BSA 1,95 m<sup>2</sup>
- NYHA II, CCS 0
- Severe aortic regurgitation
- Bicuspid aortic valve
- EF 51 %
- LVEDD 72 mm, LVESD 53 mm
- $\Delta p_{\max}$  20 mmHg,  $\Delta p_{\text{mean}}$  10 mmHg
- AV 30 mm, Sinus 39 mm, STJ 33 mm
- Plan A: Aortic valve repair
- Plan B: Ross

# Day #2, Patient #4: L.-O. M.

- 9y, male
- 138 cm, 47 kg, BSA 1,59 m<sup>2</sup>
- NYHA III, CCS 0
- Severe aortic regurgitation
- Unicuspid aortic valve
- EF 70 %
- LVEDD 48 mm, LVESD 29 mm
- $\Delta p_{\max}$  47 mmHg,  $\Delta p_{\text{mean}}$  30 mmHg
- AV 22 mm, Sinus 27 mm, STJ 25 mm
- Plan A: Aortic valve repair
- Plan B: Ross