

MVT Aortic vol. 2: June 9-10, 2022

Hybrid via Geneva & Edwards Masters

Summary & Highlights, Sessions 1-3

Thursday, June 9, 2022

Summary

Following a hybrid format, the first day of the course included 7 speakers from 5 different countries who gave 13 presentations and took part in 3 panel discussions. An audience of approximately 40 in Geneva was accompanied by hundreds of online connections.

Mostly, the speakers discussed different surgical approaches for Bentall and Ross procedures. These discussions were accompanied by a few very interesting patient case discussions and live-in-a-box procedures. The day concluded with speakers sharing some insight regarding mechanical valve use, the long-term durability of TAVR, and how to plan for future valve-in-valve procedures.

Highlights

Session 1

Bentall Procedure

To start the course, **Alexey Dashkevich** kicked-off Session 1 by sharing his expertise regarding the challenging complication of endocarditis and aortic root destruction. He explored the clinical options available for such cases and discussed the outcomes of each. Next, **Patrick Klein** gave a presentation on aortic root replacement options using biological valve conduits, where he also reviewed the literature on the safety, durability, and other outcomes related to these biological conduits. Following, **Ruggero De Paulis** presented the outcomes of Bentall procedures and valve-sparing root replacement, which set the stage for course co-director **Michael Borger** to present a live-in-a-box video where he walked the audience through a mini-Bentall procedure with a biological valve. **Ruggero De Paulis** then concluded Session 1 by leading an interactive patient case discussion where a Bentall procedure and aortic root valve sparing were both viable options.

Session 2

Ross Procedure

Session 2 began with **Marjan Jahangiri** providing a clear overview of the long-term outcomes after a Ross procedure, specifically regarding durability. She explored the different factors associated with Ross procedure failure and how to address those issues. **Martin Andreas** then described different technical approaches to the Ross procedure, explaining the rationale and choice for each depending on the patient. The session concluded with **Stephan Ensminger** sharing a live-in-a-box video of a Ross procedure, which was followed by a panel discussion and an interesting interactive patient case discussion about choosing between a Ross procedure and a bioprosthetic valve replacement for a young patient.



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Session 3

Aortic Valve Replacement

Alexey Dashkevich then returned to start Session 3 by reviewing the guidelines for using mechanical valves and describing the risks and benefits of mechanical valve replacements depending on the patient. Next, **Marjan Jahangiri** returned to discuss a variety of factors to consider when planning for future valve-in-valve procedures including the importance of patient history and patient preparation among others. **Martin Andreas** then provided an overview of the long-term outcomes of TAVR, and he also discussed the evolving criteria for patient selection for TAVR and the role of TAVR in the future. To finish off the first day of the course, **Patrick Klein** led a very interesting patient case discussion that primarily revolved around choosing a mechanical or a biological valve for a 50-year-old patient.

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MVT Aortic vol. 2: June 9-10, 2022

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Summary & Highlights, Sessions 4-6

Friday, June 10, 2022

Summary

Following a hybrid format, the second day of the course included 8 speakers from 3 countries who gave 11 presentations and took part in 3 panel discussions. An audience of approximately 40 in Geneva was again accompanied by hundreds online.

Aortic valve replacement was the main theme of the day with speakers focusing on how to go about SAVR after failed TAVR in addition to the advantages and disadvantages of mechanical and biological valves. Interesting live-in-a-box videos accompanied unique patient case discussions, and the course finished with an interesting lecture that included borderline cases where valve repair and valve replacement could both be viable options.

Highlights

Session 4

Aortic Valve Replacement

Starting off Day 2, **Bart Meuris** began Session 4 by reviewing research methods that are used to assess the durability of bioprosthetic valves. He went on to discuss the added value of in-vivo models and the potential roles of computational models and algorithms for assessing valve durability. Next, **Gino Gerosa** discussed the guidelines for aortic valve replacement, the main problems with older bioprosthesis models, and how newer generations of bioprostheses are created with longer durability in mind. **Michael Berger** then presented a live-in-a-box video that contained a minimally invasive aortic valve replacement and annular patch enlargement with a biological valve. Following a panel discussion, **Augusto D'Onofrio** then led an interactive case discussion that included a patient with a small aortic annulus who posed many challenges.

Session 5

Aortic Valve Replacement

To begin Session 5, **Bart Meuris** returned to describe the burden of degenerated TAVI valves from the patient's and the surgeon's perspectives. He also discussed the risks of performing SAVR after TAVR and provided recommendations for reacting to such cases and proactively preventing them. **Augusto D'Onofrio** then returned to compare mini-AVR and TAVI techniques, specifically considering the gray area between following the guidelines and personalizing patient care, specifically for younger patients. He then gave another presentation to further elaborate on the difficulties of removing a failed TAVI. He showed data regarding the available options for failed TAVI replacement and concluded with recommendations based on that data in addition to his own personal experience. Next, **Sabine Bleiziffer** led a case discussion about a patient who underwent SAVR after TAVI. Following a panel discussion, **Jeroen Bax** described structural valve deterioration and failure following aortic valve replacement according to the VARC-3 guidelines.



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Session 6

Aortic Valve Repair

Session 6 began with **Hermann Reichenspurner** discussing when to use different techniques for aortic valve repair. He also commented on borderline cases when valve repair and valve replacement are both viable options in addition to recognizing when a valve is beyond repair and must be replaced. To conclude the course, **Evaldas Girdauskas** shared a live-in-a-box video about an isolated bicuspid aortic valve repair, which was then followed by a panel discussion and take-home messages.

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