Section I: Mitral disease

Transcatheter repair

- 1. Uncomplicated transcatheter mitral valve repair with MitraClip
- 2. Commissural mitral regurgitation therapy
- 3. Advanced steering in the left atrium for an aortic hugger
- 4. Transcatheter repair of ruptured papillary muscle
- 5. Optimal intraprocedural guidance for mitral therapy
- 6. Challenges of transcatheter therapy for functional mitral regurgitation
- 7. The zip-and-clip technique in transcatheter mitral valve repair
- 8. Mitral annular calcification and transcatheter mitral valve repair
- 9. Optimization for multiple clip placement
- 10. Importance of hemodynamics for assessing residual regurgitation
- 11. Use of low profile pressure wire for simultaneous left atrial pressure during repair
- 12. Barlow's valve therapy
- 13. Transcatheter mitral repair for cardiogenic shock
- 14. A space too small for additional clipping
- 15. Treatment of leaflet perforation with vascular plugs
- 16. Occluder therapy for residual mitral regurgitation after transcatheter repair
- 17. Clip-to-annuloplasty ring
- 18. Transcatheter repair of severe mitral regurgitation after surgical annuloplasty
- 19. Unsuccessful transcatheter repair after prior cardiac surgery
- 20. MitraClip in a patient with radiation heart disease
- 21. A difficult case of transcatheter mitral valve repair
- 22. Stuck on the atrial septum
- 23. Ensuring mitral leaflet insertion
- 24. One of my most difficult transcatheter repair cases
- 25. Single leaflet device attachment and clip embolization
- 26. Lessons learned from a difficult MitraClip case
- 27. Percutaneous treatment of ventricular dysfunction and secondary mitral regurgitation (Accucinch)
- 28. Percutaneous annuloplasty for severe mitral regurgitation (MitraAlign)
- 29. Left ventricular therapy for mitral regurgitation (Myocor)

30. Coronary sinus approach for mitral regurgitation (Carillon)

31. Plugging a hole near a mitral surgical ring

32. Anatomical intelligence and image fusion for image guidance of transcatheter mitral valve repair

Valve replacement

33. Computed tomography imaging for transcatheter mitral replacement

34. Retrograde transcatheter mitral valve replacement for mitral regurgitation (Twelve)

35. Retrograde transcatheter mitral valve replacement for mitral regurgitation (Tendyne)

36. Retrograde transcatheter mitral valve replacement for mitral regurgitation (Tiara)

37. Antegrade valve replacement in severe mitral annular calcification

38. Self expanding prosthesis for severe mitral annular calcification

39. Retrograde valve replacement in severe mitral annular calcification with a rail

40. Management of LVOT obstruction from mitral valve replacement

41. Transcatheter valve placement in a mitral ring

Balloon commissurotomy

42. Hemodynamic assessment of mitral disease

43. Balloon mitral valvuloplasty for rheumatic mitral stenosis

44. Rupture of mitral valve with balloon mitral valvuloplasty

45. The banking technique for Inoue balloon movement

Section II Aortic valve disease

Valve replacement

46. Caseous mitral annular calcification distorting the aortic annulus

47. Transfemoral balloon-expandable transcatheter aortic valve replacement (Sapien

3)

48. Double Valve Transcatheter Therapy for Mitral and Aortic Stenosis

- 49. Transvenous antegrade transcatheter aortic valve replacement
- 50. Valve embolization in transcatheter aortic valve replacement
- 51. Transcatheter aortic valve therapy for ascending aortic dissection with aortic regurgitation

- 52. Superior placement to overcome severe left ventricular outflow tract calcification
- 53. Retrieval of transaortic sheath marker loss
- 54. Left ventricular perforation during transcatheter aortic valve replacement
- 55. Subaortic ring therapy
- 56. Bicuspid aortic valve therapy transcatheter challenges
- 57. Transcatheter aortic valve-in-valve therapy with high risk of coronary obstruction
- 58. A difficult case of transcatheter aortic valve replacement
- 59. Valve embolization during transcatheter aortic therapy
- 60. Transcaval transcatheter aortic valve replacement
- 61. Subclavian management during transcatheter aortic valve replacement
- 62. Rapid ventricular pacing and demise of left ventricular function
- 63. Pure aortic regurgitation treatment
- 64. Aortic regurgitation treatment in the presence of a left ventricular assist device
- 65. Prosthetic valve thrombosis
- 66. Fractures and twists during transcatheter aortic valve implantation
- 67. Transcatheter aortic valve therapy without pre-procedural computed tomography

Section III Prosthetic valve

Paravalvular regurgitation

- 68. Computed tomography for paravalvular leak closure
- 69. Retrograde repair of aortic paravalvular regurgitation
- 70. Retrograde repair of mitral paravalvular regurgitation
- 71. Retrograde Repair of a Multi-Orifice Mitral Paravalvular Leak by Hopscotch

Technique

- 72. Antegrade repair of mitral paravalvular regurgitation
- 73. Benefit of accurate transseptal puncture in paravalvular closure
- 74. Challenging echocardiographic imaging for leak closure
- 75. Coronary dissection from paravalvular leak closure
- 76. Treatment of Coronary Obstruction after Paravalvular Leak Closure
- 77. Papillary muscle rupture during paravalvular leak closure
- 78. Step up technique with coronary guidewire use for paravalvular leak closure
- 79. The anchor wire technique for aortic paravalvular leak closure
- 80. Venous-arterial rail and anchor

- 81. Simultaneous plug placement for paravalvular leaks
- 82. Closure of aorta to right ventricle fistula
- 83. The aortic-arterial rail technique
- 84. Repair of paravalvular regurgitation in a balloon-expanding prosthesis

Valve-in-valve

- 85. Mitral valve-in-valve therapy with an apical rail
- 86. Antegrade mitral valve-in-valve therapy
- 87. Bioprosthetic valve fracture at the time of valve-in-valve TAVR
- 88. Self-expanding prosthesis for aortic valve-in-valve
- 89. Small prosthesis therapy
- 90. Transcatheter valve-in-valve therapy for tricuspid disease
- 91. Complex self-expanding aortic valve therapy
- 92. A very difficult case of valve-in-valve therapy
- 93. Antegrade balloon-expandable valve for tricuspid valve-in-valve therapy
- 94. Complex tricuspid valve-in-valve therapy
- 95. Fusion imaging for apical access and mitral valve placement
- 96. Fusion Imaging for Mitral Valve-in-Valve Replacement
- 97. Challenging case of surgical mitral ring therapy

Section IV Cardiomyopathy

Hypertrophic cardiomyopathy

- 98. Mitral valve abnormalities in hypertrophic cardiomyopathy
- 99. Closure of eccentric atrial septal defect" and place in congenital section
- 100. Reversed pulsus paradoxus
- 101. Percutaneous mitral valve repair in hypertrophic cardiomyopathy
- 102. Recurrent obstruction after percutaneous plication in hypertrophic cardiomyopathy
- 103. Complicated alcohol septal ablation
- 104. Untoward myocardial targeting with contrast during alcohol septal ablation
- 105. Case selection for alcohol septal ablation
- 106. Assessment of aortic stenosis in hypertrophic cardiomyopathy
- Dilated cardiomyopathy
- 107. Volume reduction through infarct exclusion

Section V Congenital abnormalities, pseudoaneurysms, and shunts

Patent ductus arteriosus

108. Closure of patent ductus arteriosus

Patent foramen ovale

109. Complicated patent foramen ovale closure

110. Techniques of ASD Closure with Deficient Rims

111. Closure of patent foramen ovale (Helex)

Coarctation of the aorta

112. Transcatheter open-cell stent implantation for treatment of native coarctation of the aorta

Ventricular septal defect

113. Transcatheter device closure of a post myocardial infarction ventricular septal defect

114. Gerbode therapy

115. Congenital muscular ventricular septal defect closure

116. Treatment of post-infarct ventricular septal defect

117. Patent foramen ovale closure from the right internal jugular vein

Pulmonary

118. Pulmonary homograft therapy

119. Treatment of a chicken wing left atrial appendage

120. Complicated left atrial appendage closure

121. Pearls from a case of left atrial appendage closure

122. Residual leak treatment after left atrial appendage closure

Pseudoaneurysm

123. Closure of multiple pseudoaneurysms in the ascending aorta

124. Apical pseudoaneurysm

125. Transventricular therapy of pulmonary homograft

Atrial shunt creation

126. Induction of left-to-right atrial shunting for heart failure (Corvia)

Section VI Tricuspid disease

Tricuspid regurgitation

127. Transcatheter tricuspid valve annuloplasty with pledgets implantation for severe

tricuspid regurgitation

- 128. Imaging for the tricuspid valve: tips and techniques
- 129. Tricuspid transcatheter repair
- 130. Transcatheter tricuspid valve repair with the FORMA Repair System
- 131. Transapical valve in tricuspid ring