Balloon Rupture

If BAV Balloon Ruptures or Leaks During Deployment



If Delivery System Balloon Ruptures or Leaks During Deployment Without THV Embolization



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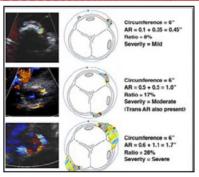
Previous generation device used for illustration

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Assessing Aortic Regurgitation

- · Good diastolic pressures post-implant may indicate adequate THV function
- Echocardiography is the gold standard for assessing prosthetic THV function
- Severity of aortic regurgitation must be assessed incorporating multiple criteria (both quantitative and qualitative)
- American Society of Echocardiography VARC guidelines¹ provide an important framework



Parameter	Mild	Moderate	Severe
Valve Structure and Motion			
Mechanical or Bioprosthetic	Usually Normal	Usually Abnormal	Usually Abnormal
Structural Parameters			
LV Size	Normal	Normal or Mildly Dilated	Dilated
Doppler Parameters (Qualitative or Semiquantitative)			
Jet Width in Central Jets (%LVO Diameter): Color	Narrow (≤25%)	Intermediate (26-64%)	Large (≥65%)
Jet Density: CW Doppler	Incomplete or Faint	Dense	Dense
Jet Deceleration Rate (PHT, ms): CW Doppler	Slow (>500)	Variable (200-500)	Steep (<200)
LVO Flow versus Pulmonary Flow: PW Doppler	Slightly Increased	Intermediate	Greatly Increased
Diastolic Flow Reversal in the Descending Aorta: PW Doppler Circumferential Extent of Paraprosthetic AR (%)	Absent or Brief Early Diastolic <10	Intermediate 10-20	Prominent, Holodiastolic >20
Doppler Parameters (Quantitative)			
Regurgitant Volume (ml/beat)	<30	30-59	>60
Regurgitant Fraction (%)	<30	30-50	>50

¹Leon et al. VARC Consensus Endpoints After TAVI for High-Risk AS, *JACC Vol. 57*, *No. 3*, *2011*: 253-69 Image Credit: CC Patrick J. Lynch and C. Carl Jaffe, Yale University, 2006



Assessing Aortic Regurgitation: Management

Differential Diagnosis

 Wide pulse pressure (with lower diastolic pressure than baseline) may indicate severe AR

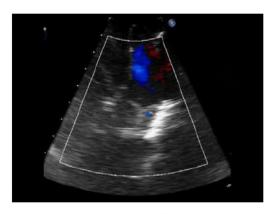
Management

- Depends on etiology
- Stabilization of hemodynamics priority
- Management can include post-dilatation or surgery

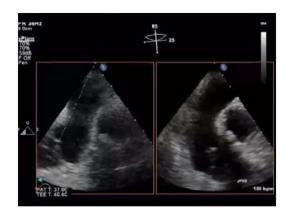


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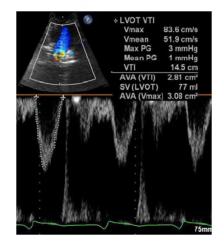
Assessing Aortic Regurgitation: Quantification



Deep Gastric

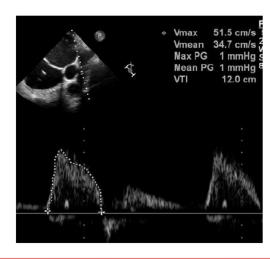


High Esoph PV



Quantitative Doppler

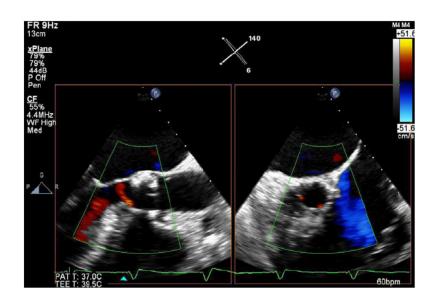
- LVOT stroke volume = 77 cc
- RVOT stroke volume = 55 cc
- Regurgitant volume = 22 cc





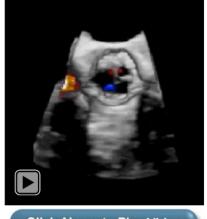
Assessing Aortic Regurgitation: Paravalvular

- Small paravalvular regurgitant jets are common
 - They are hemodynamically insignificant
 - They may resolve within minutes to hours





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