

MODULE 2: ProEducar Fellows Course@EuroPCR. TAVI Basics: "What should I know to become a good TAVI doctor?"

PATIENT SELECTION FOR TAVR -

HEART TEAM

Henrique B. Ribeiro

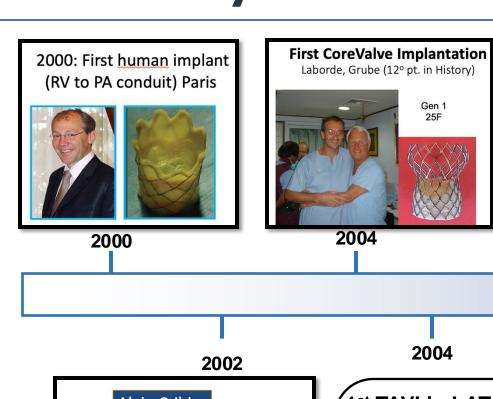
Professor Colaborador da FMUSP Hemodinamicista do InCor, Sírio-Libanês e Samaritano Paulista PhD na Universidade Laval — Canada



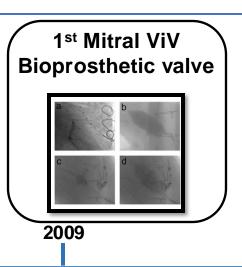


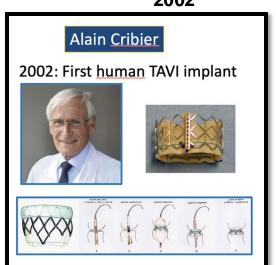


History of TAVI in the World and in LATAM

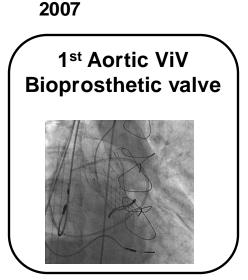


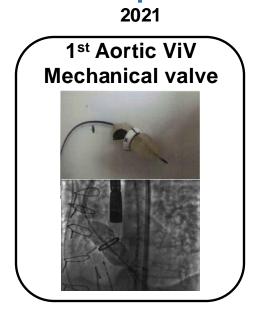




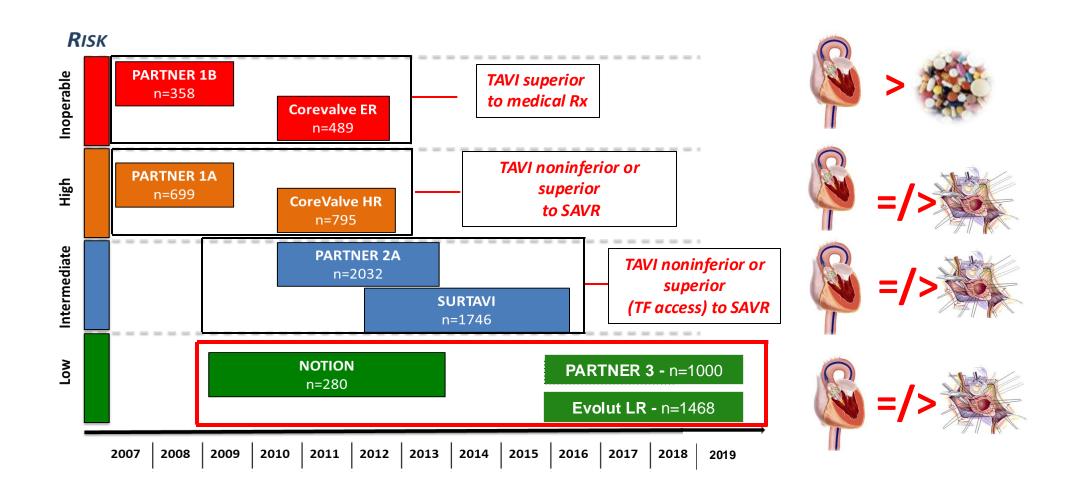






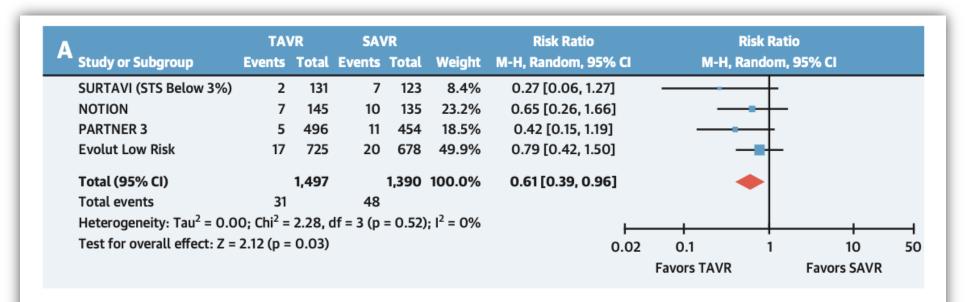


Evidências dos Estudos Randomizados em TAVI



LOW RISK

Meta-analysis: All-Cause and Cardiovascular Death at 1 Year

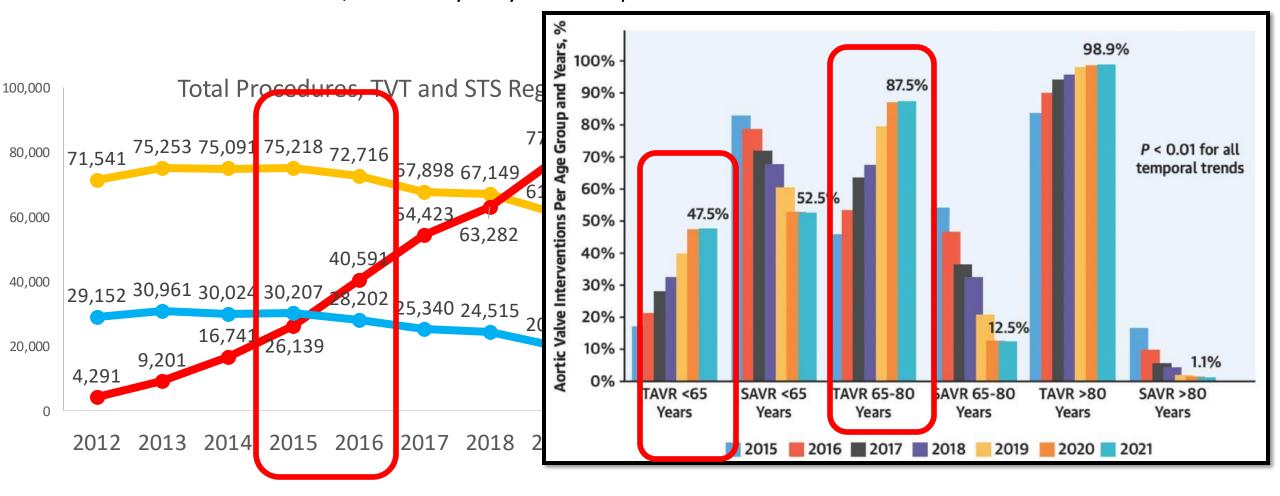


	TAVR		SAVR		Risk Ratio		Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random,	95% CI	
SURTAVI (STS Below 3%)	2	131	4	123	8.8%	0.47 [0.09, 2.52]		_	
NOTION	6	145	10	135	25.6%	0.56 [0.21, 1.50]			
PARTNER 3	4	496	9	454	18.1%	0.41 [0.13, 1.31]			
Evolut Low Risk	12	725	18	678	47.5%	0.62 [0.30, 1.28]			
Total (95% CI)		1,497		1,390	100.0%	0.55 [0.33, 0.90]	•		
Total events	24		41						
Heterogeneity: $Tau^2 = 0.00$; $Chi^2 = 0.41$, $df = 3$ (p = 0.94); $I^2 = 0\%$					_				
Test for overall effect: Z =	2.37 (p =	0.02)				0.02	O.1 1 Favors TAVR	10 Favors SAVR	50

Kolte, D. et al. J Am Coll Cardiol. 2019;74(12):1532-40.

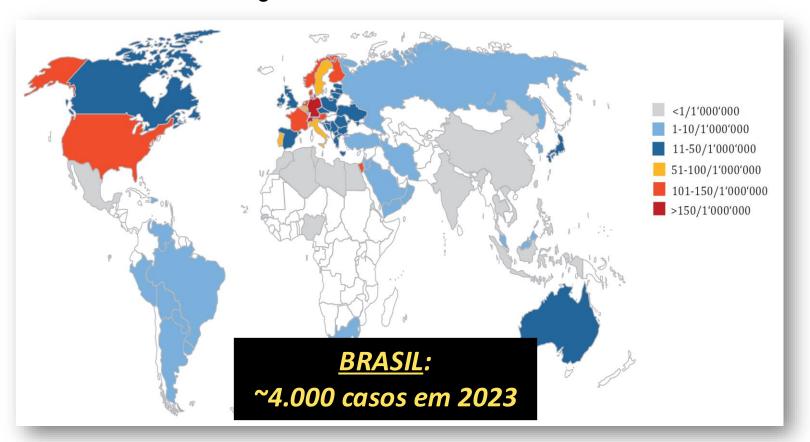
TAVI VS. SAVR IN THE USA

TAVI annual case volumes in the U.S. surpassed isolated surgical AVR for the first time in 2016. In 2019, the total yearly TAVR surpassed SAVR in all its forms.



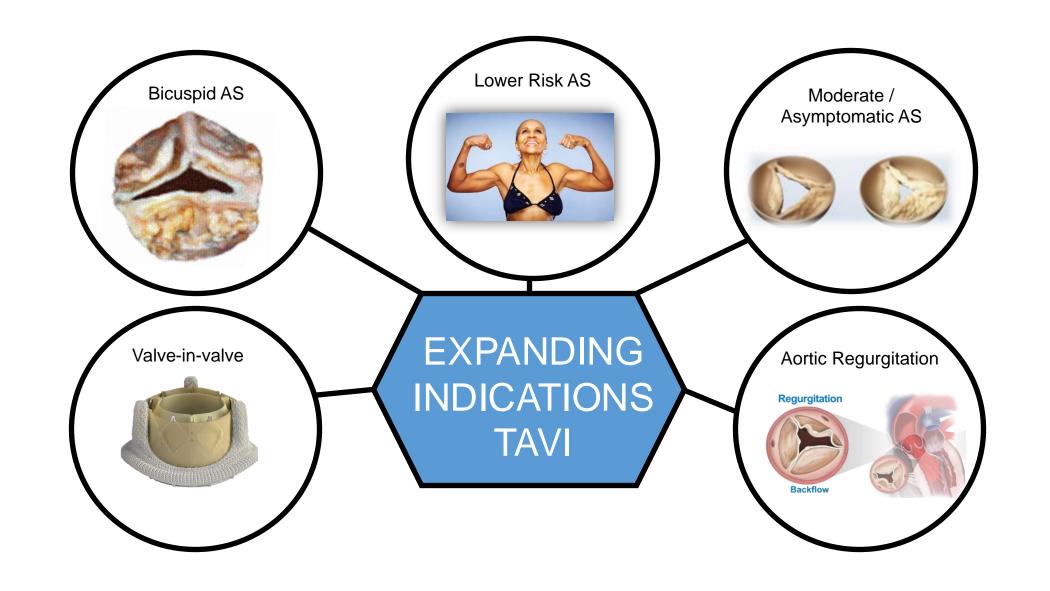
GAPS IN IMPLEMENTATION: GEOGRAPHICAL DISPERSION AND SOCIOECONOMIC INEQUALITIES - TAVI

Pilgrim T et al. Eur Heart J 2018



Estimates for Q1–Q4 2017 (Western Europe) or Q4 2016–Q3 2017 (all other regions) including moving annual total (MAT) data.

Data are subject to end of year adjustment.



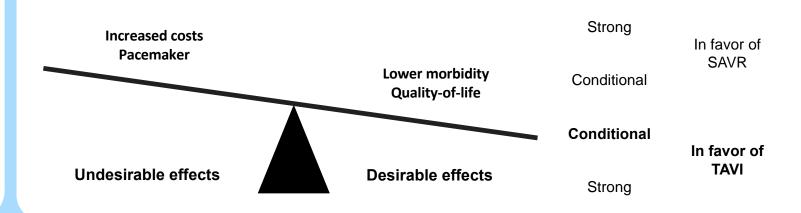
Clinical practice guideline for transcatheter versus surgical valve replacement in patients with severe aortic stenosis in Latin America

Pablo Lamelas ¹, ^{1,2} Martin Alberto Ragusa, ^{3,4} Rodrigo Bagur ¹, ⁵ Iqbal Jaffer, ⁶ Henrique Ribeiro, ⁷ Adrian Baranchuk, ⁸ Fernando Wyss ¹, ⁹ Alvaro Sosa Liprandi, ¹⁰ Gabriel Olivares, ¹¹ Magaly Arrais, ¹² Juan Camilo Rendon, ¹³ Jorge Catrip, ¹⁴ Carla Agatiello, ¹⁵ Fernando Cura, ¹ Alfaro Marchena, ¹⁶ Fabio Sandoli de Brito Jr, ¹⁷ José A Mangione, ¹⁸ Aníbal Damonte, ¹⁹ Omar Santaera, ²⁰ Pedro Hidalgo, ²¹ Robby Nieuwlaat, ²² Ariel Izcovich, ³ Endorsed by the Sociedad Latino Americana de Cardiología Intervencionista (SOLACI) and the Sociedad Interamericana de Cardiología (SIAC)

Latin America SOLACI SIAC

Scenarios favoring SAVR

Patients with severe symptomatic aortic stenosis from 75 years of age eligible for transfemoral TAVI



Subgroup considerations: Assess through Heart Team

Scenarios favoring TAVI

Unfavorable anatomy for TAVI

Older age

Unsuitable for transfemoral access

High- or moderate-risk for surgery

Presence of concomitant valvular disease with surgical indication

Prior sternotomy or surgical aortic valve replacement

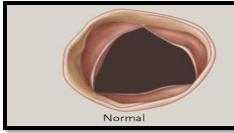
Multivessel coronary artery disease

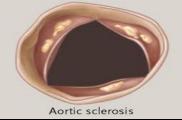
Frailty

Patients placing a higher value on bioprosthetic valve durability or pacemaker risk

Patients placing a higher value on lower procedural morbidity and rapid recovery



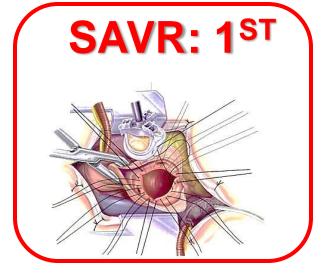




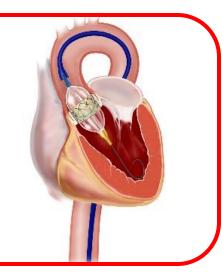




PAST



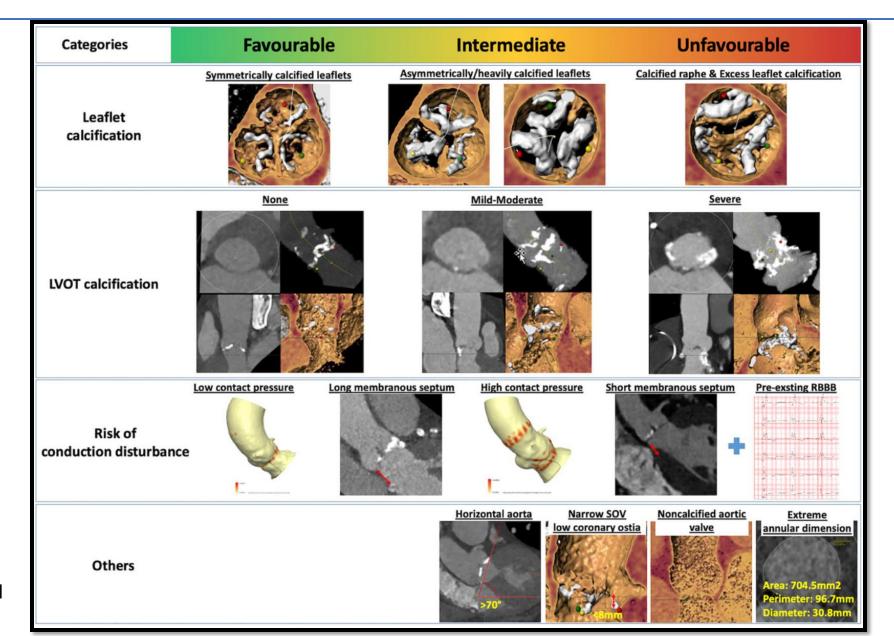
TAVR:
EXCEPTION IN
HIGHER RISK
PTS

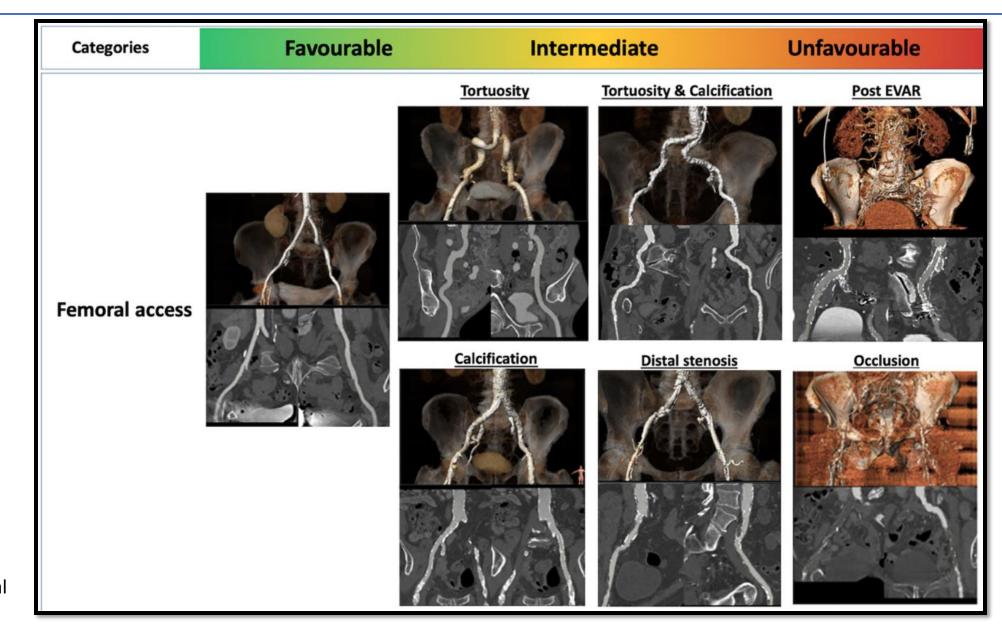


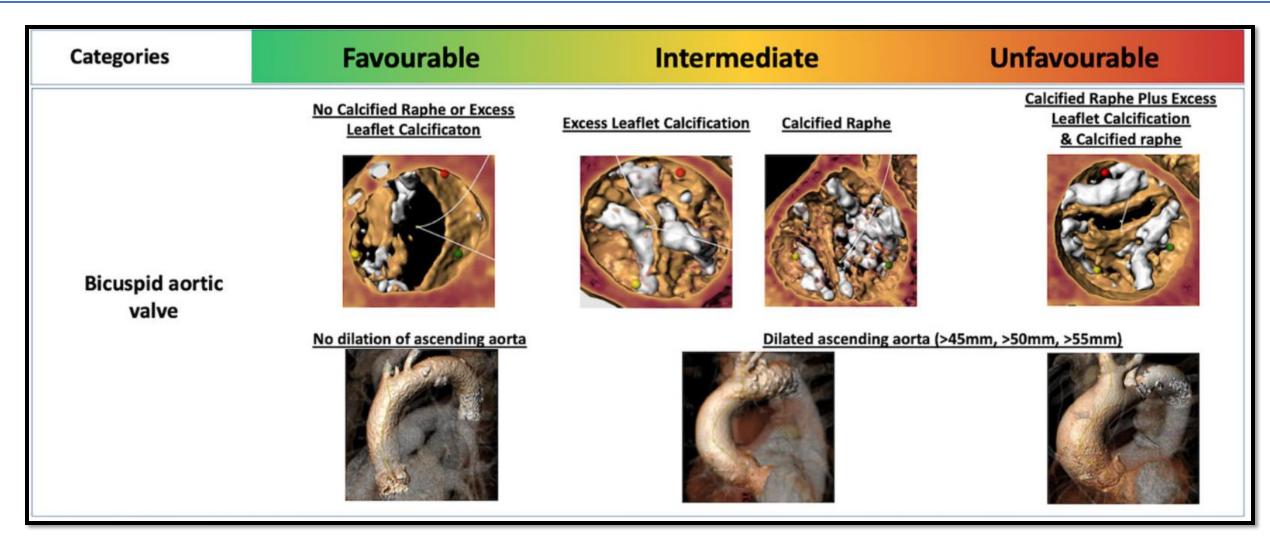
PRESENT

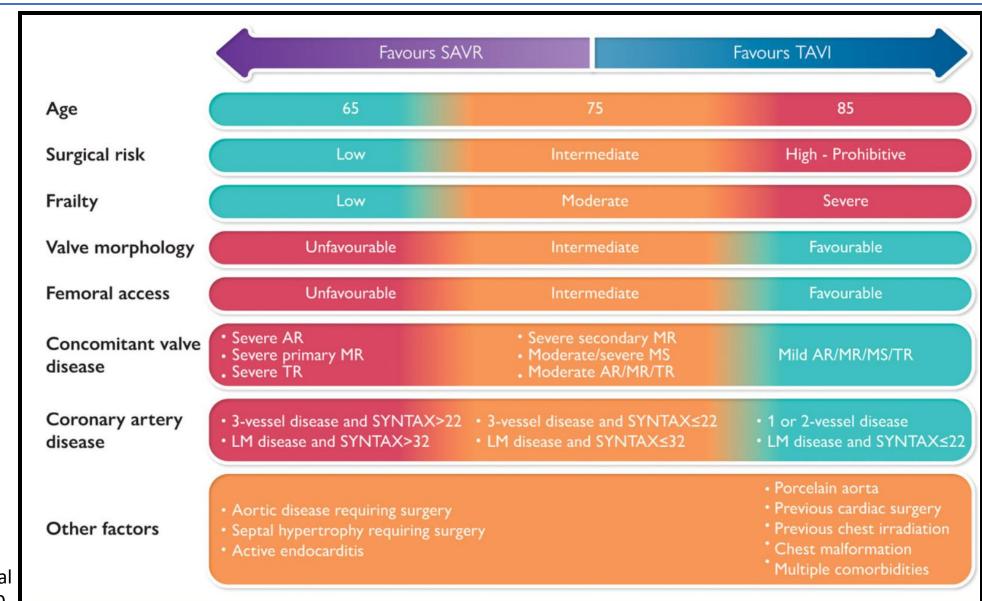
Windecker S, et al. European Heart Journal (2022) 43, 2729–2750 Which patients with aortic stenosis should be referred to surgery rather than transcatheter aortic valve implantation?

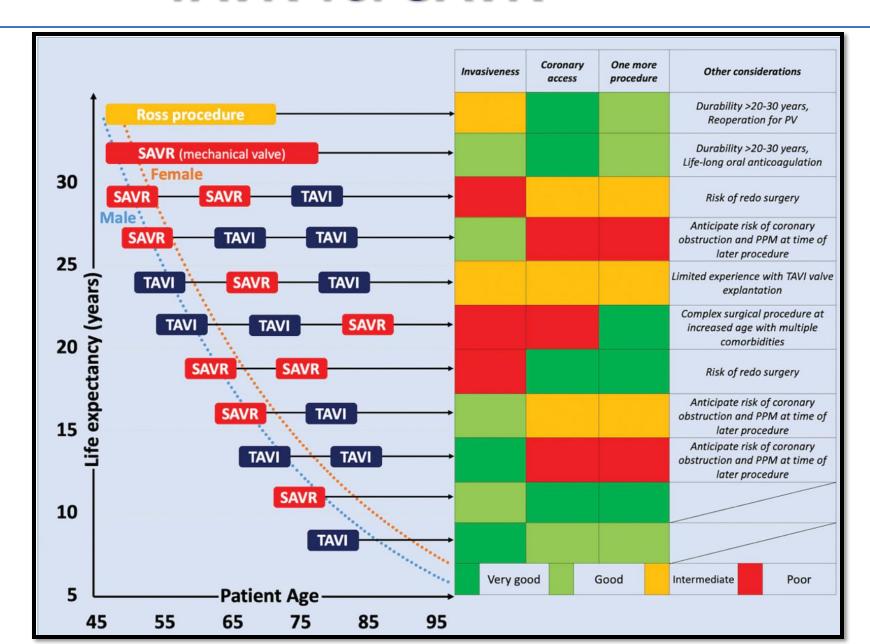
Stephan Windecker (10 1*, Taishi Okuno (10 1*), Axel Unbehaun (10 2,3, Michael Mack⁴, Samir Kapadia (10 5*, and Volkmar Falk (10 2,3,6,7)







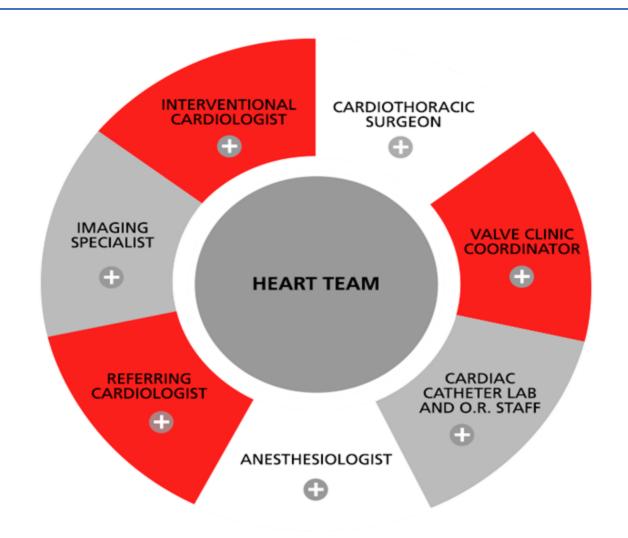




HEART TEAM

Recommendations for the Multidisciplinary Heart Valve Team and Heart Valve Centers

COR	LOE	Recommendations
1	C-EO	 Patients with severe VHD should be evaluated by a Multidisciplinary Heart Valve Team (MDT) when intervention is considered.
2a	C-LD	 Consultation with or referral to a Primary or Comprehensive Heart Valve Center is reasonable when treatment options are being discussed for 1) asymptomatic patients with severe VHD, 2) patients who may benefit from valve repair versus valve replacement, or 3) patients with multiple comorbidities for whom valve intervention is considered.^{1–19}



2020 ACC/AHA Guideline for the management of valvular heart disase. Otto et al.