



ČESKÁ ASOCIACE INTERVENČNÍ KARDIOLOGIE

# Interaktivní kasuistika: kdy SAVR?

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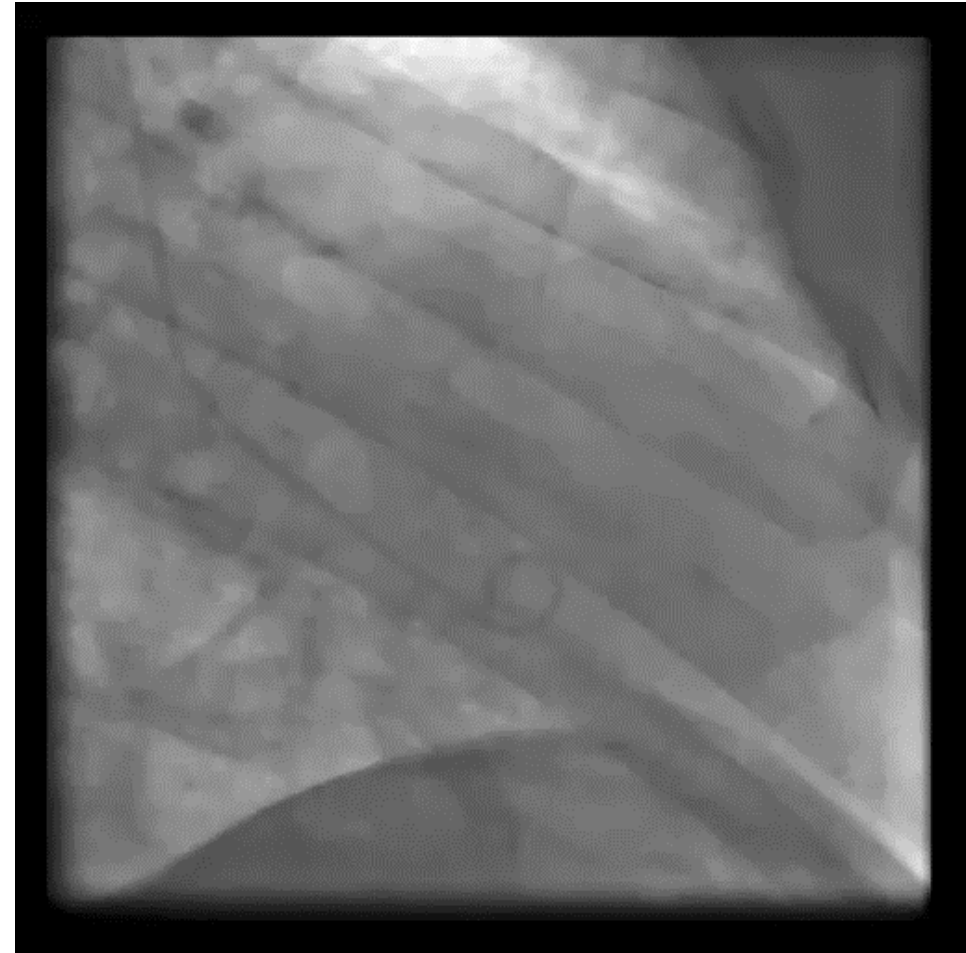
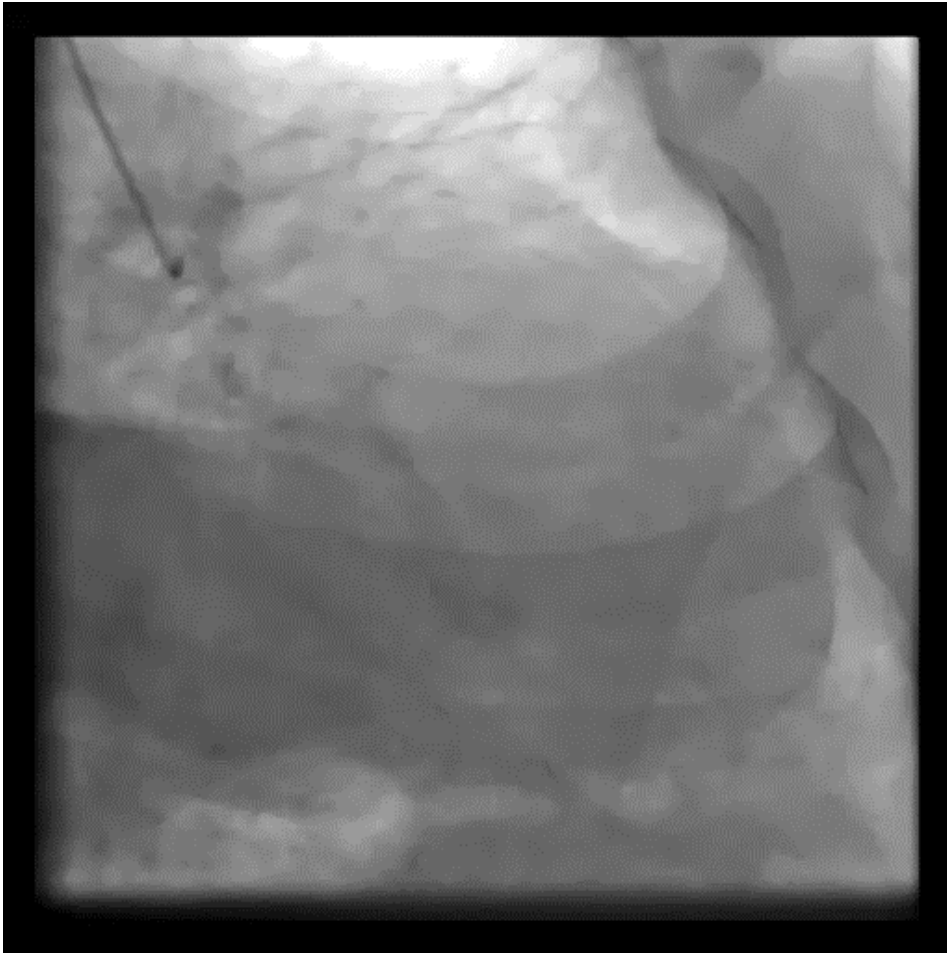


# Muž, 76 let

- 2018 – SKG, dobrá fce LK
- 2022 – dušnost NYHA II s progresí a oboustr. SS ad hospitalizace, FISI, EF LK 15%, Hb 113, CKD-EPI 0,94, bili 27
- Intersticiální plicní proces
- HLP, VCHGD v remisi, BHP, CHŽI, resekce feochromocytomu 2018, NIDDM
- Medik: furosemid, Verospiron, Xarelto 20mg, PAD
-

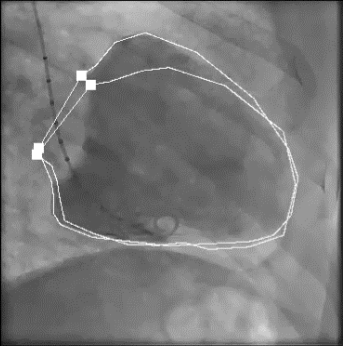
# 2018

FFR RIA 0,83



# 2022 – 🤖 Co se přihodilo?

General EF 22,53 %



	Volume (ml)	Indexed (ml/m <sup>2</sup> )
EDV	187,11	94,73
ESV	144,95	73,38
SV	42,16	21,35

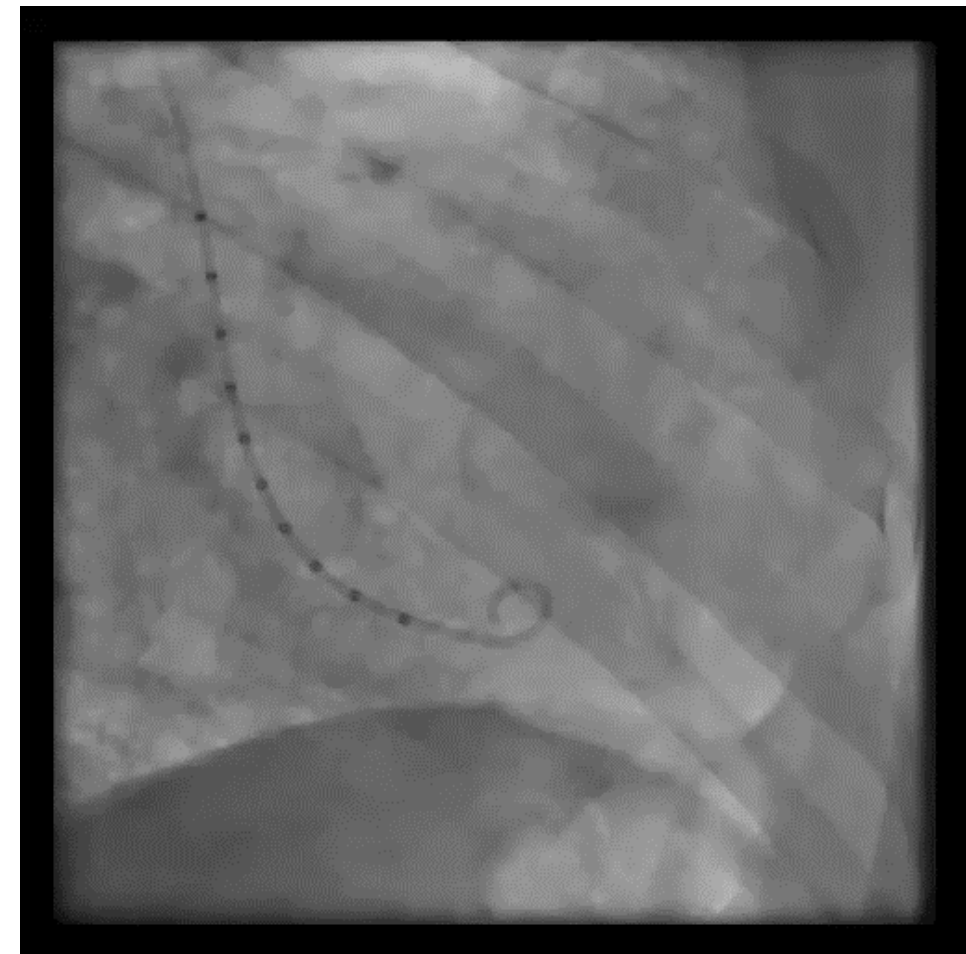
Cardiac output	(l/min)	-
Cardiac index	(l/min/m <sup>2</sup> )	-

Wall	
Wall thickness	- (mm)
Wall volume	- (ml)
Wall mass	- (gr)
Wall stress	-

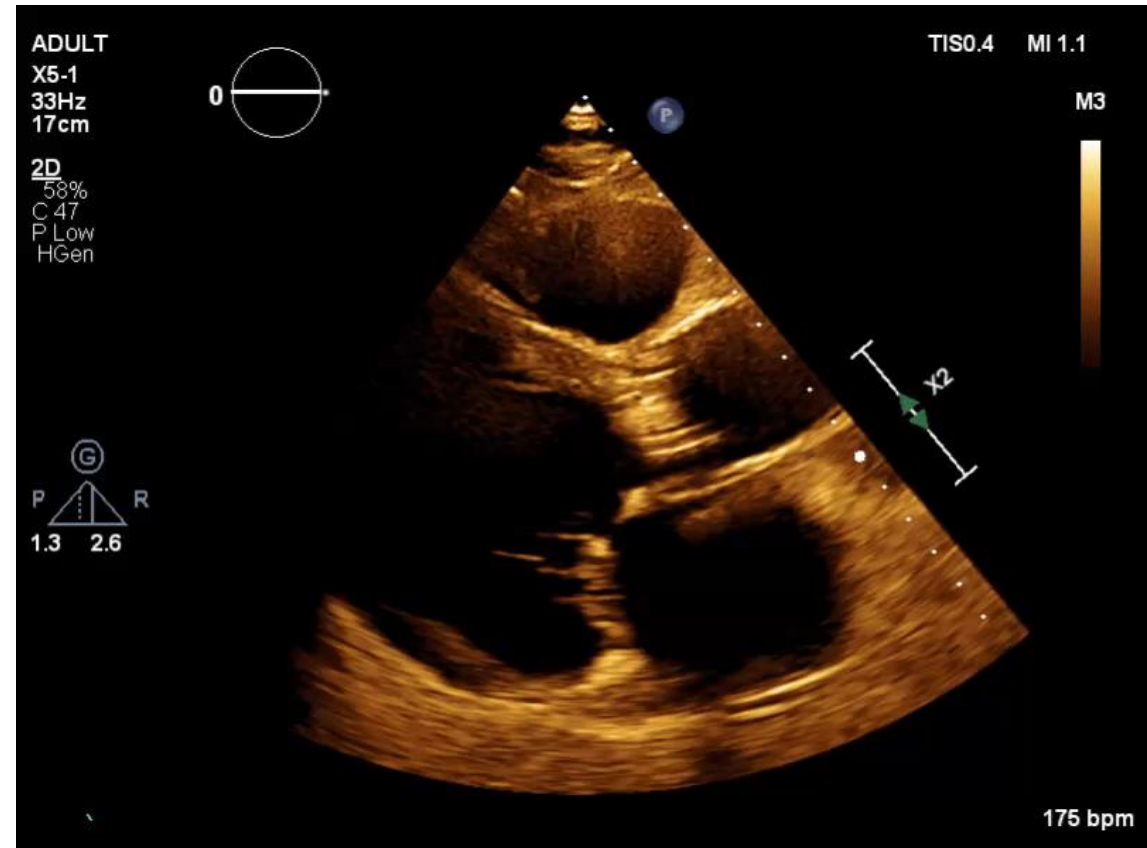
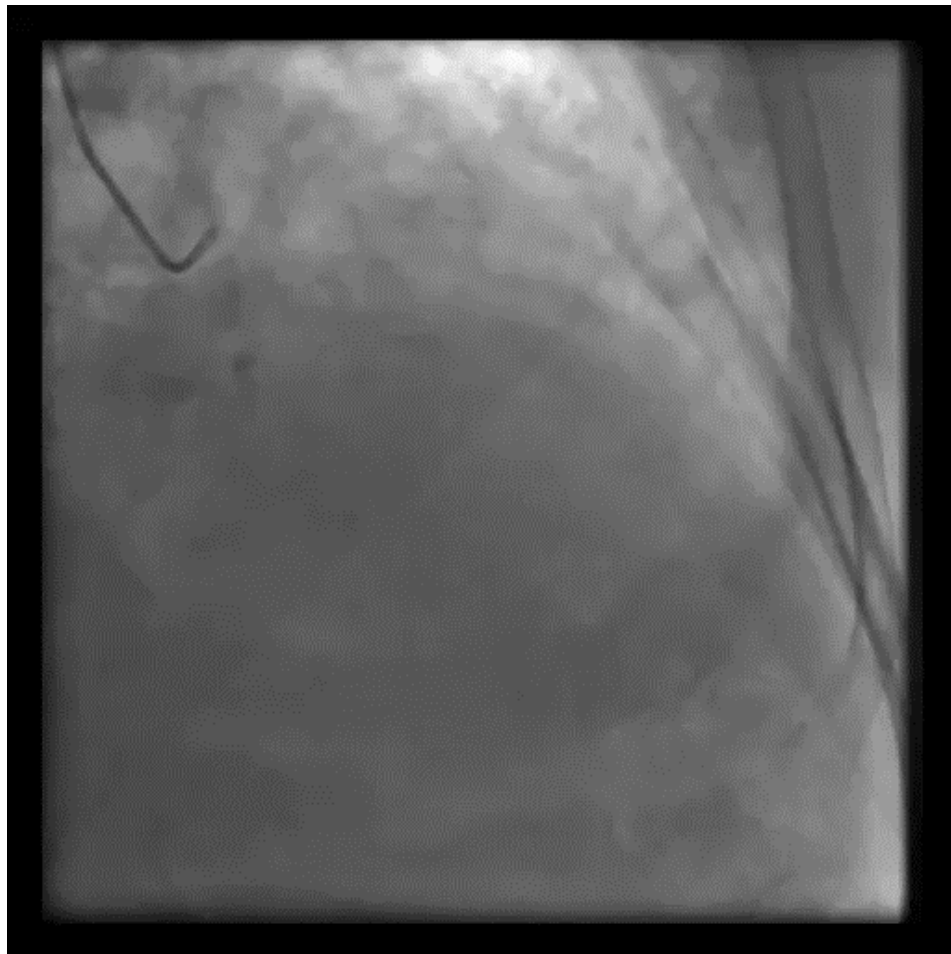
Patient Name	Klimes Josef		
ID	460501/473		
Sex	Male		
Birth Date	1-5-1946		
Physician	Poloczek, Martin	Heart rate	- (bpm)
Hospital	FN Brno	BSA	1,98 (m <sup>2</sup> )
Acquisition Date	12-9-2022	Index method	BSA

Study ID	1	Volume method	Area Length
Trial Name		EDV regression	x0,810+1,900
Run ID	7	ESV regression	x0,810+1,900
Series Descr	Coro 2020		
ED Frame Nr.	40		
ES Frame Nr.	45		
		RAO Cal Factor	0,1277 (mm/pix)
		Cal Object	0,00 (mm) SiemensCal (TOD w/ ROI)

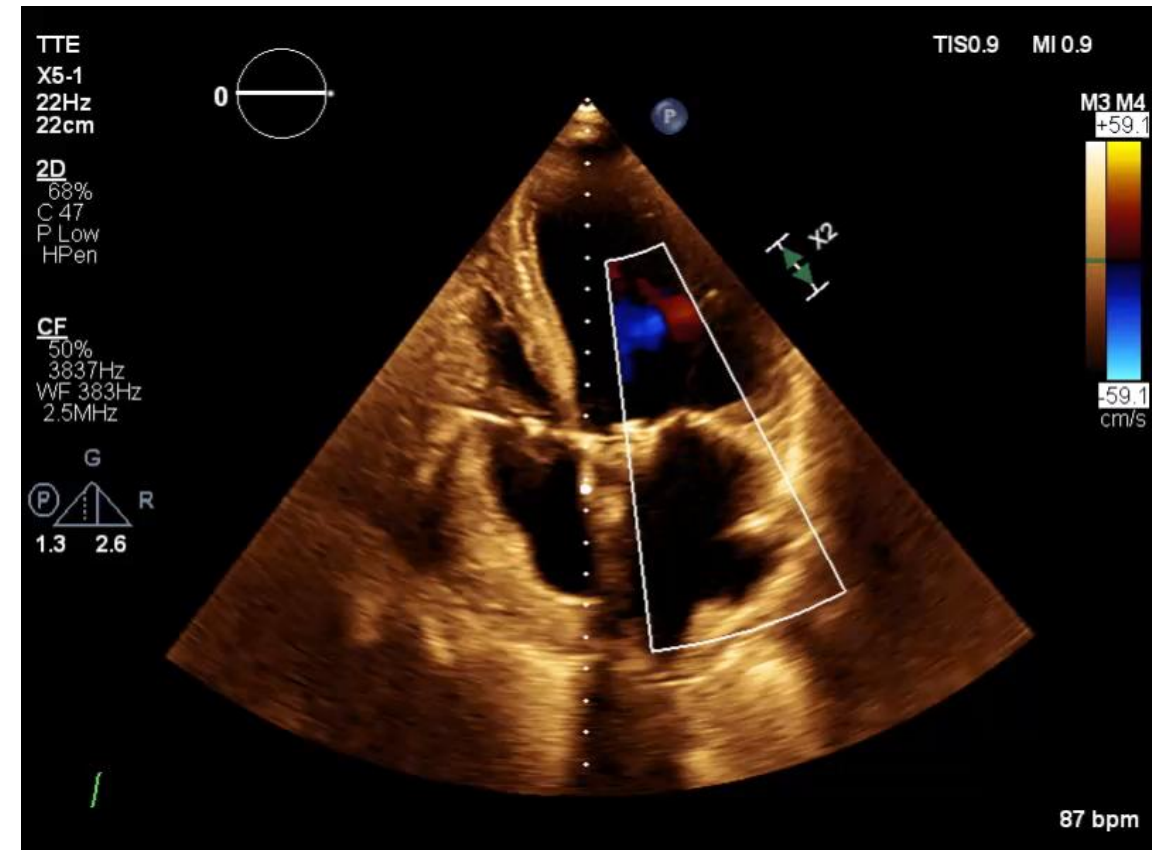
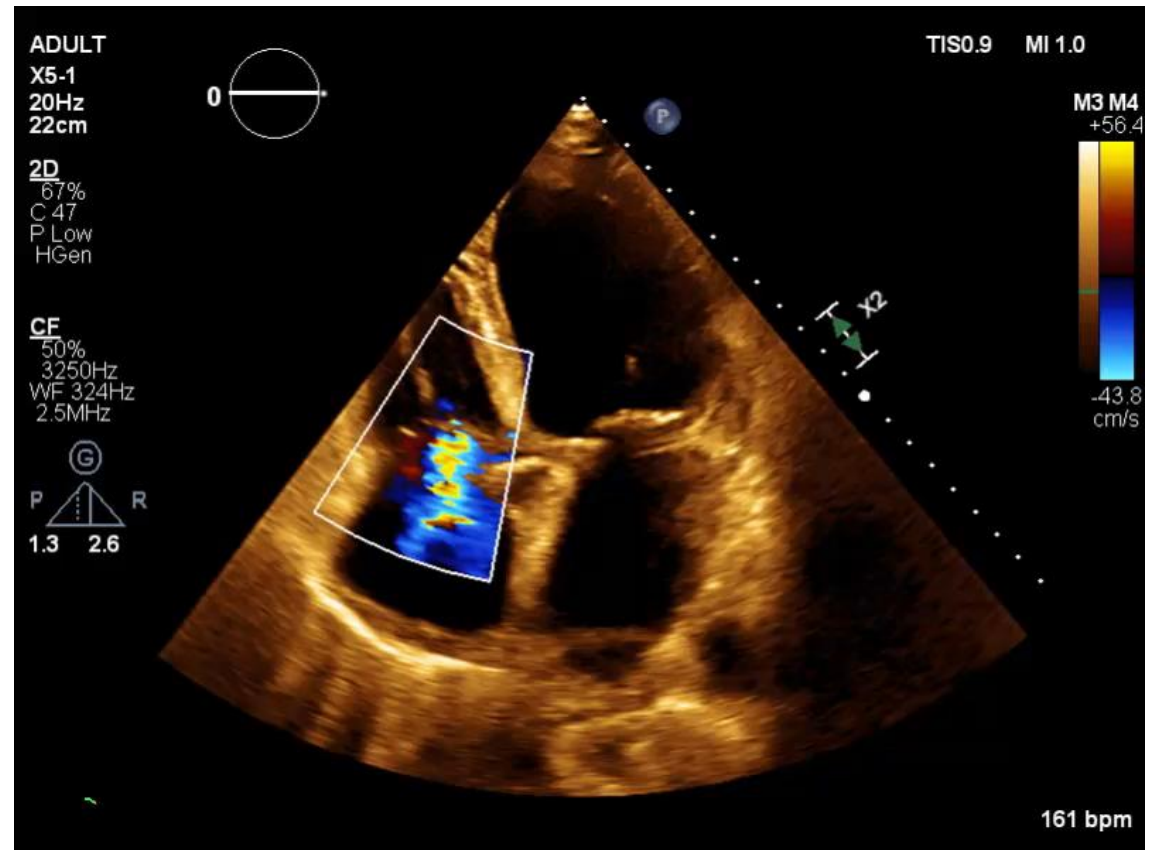
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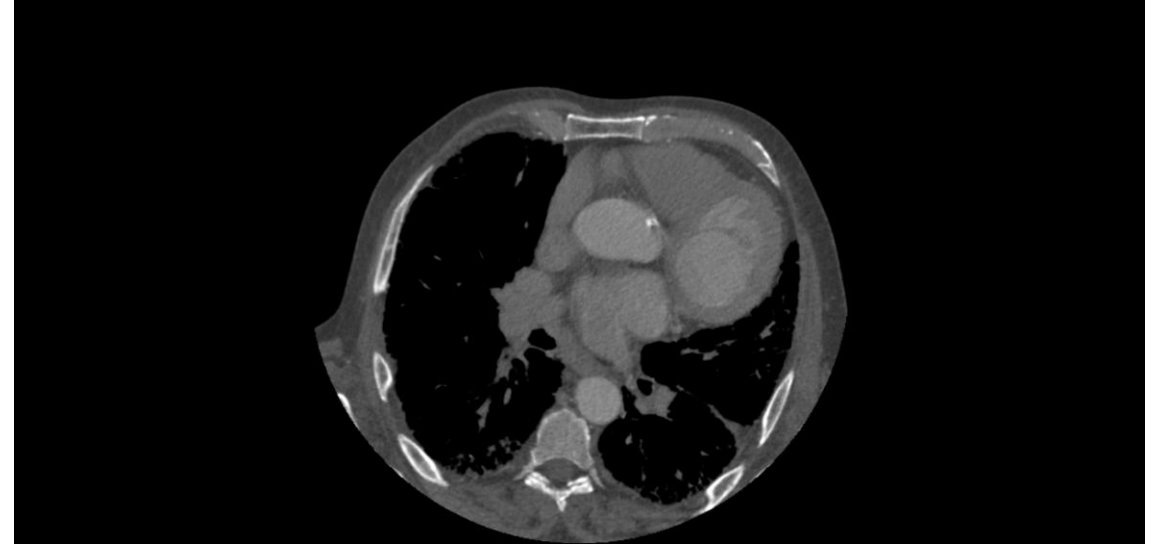
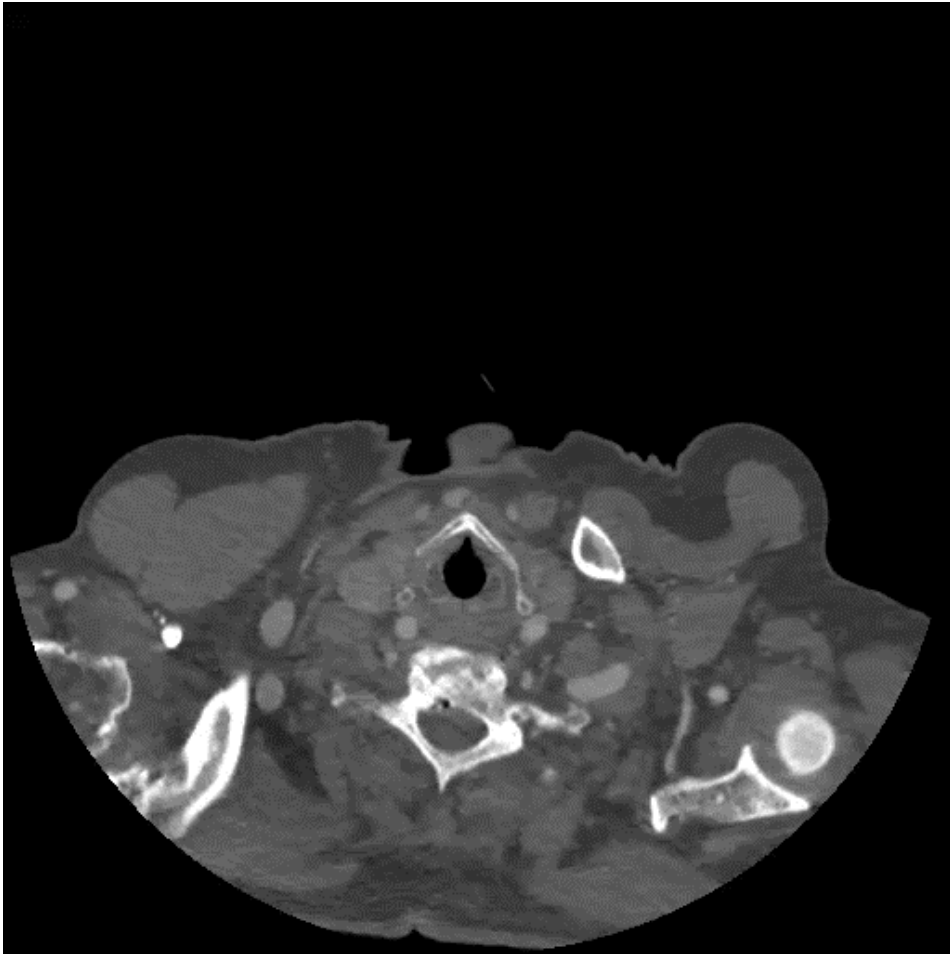
# 2022 – Co se přihodilo? SKG idem, ale významná AoS 😊



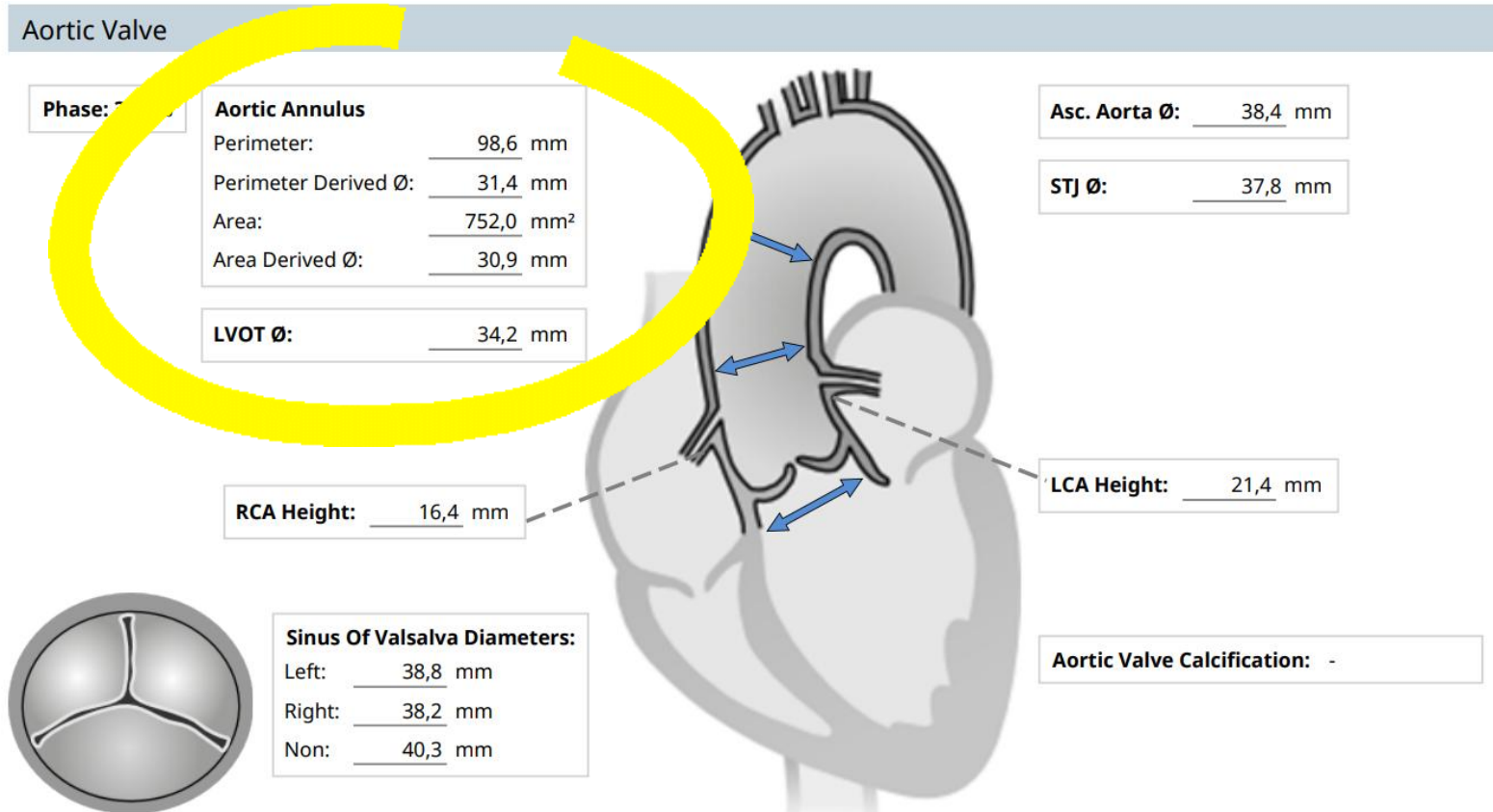
# TR 2-3, asymptomatic PFO



Muž, 76 let s těžkou systolickou dysfcií  
a dosti komorbidity. **Čistá** indikace k TAVI?



# 3mensio – indikace TAVI?



**Measurements:**

Ascending Aorta Ø	Min: 37,4 mm Max: 39,4 mm Average: 38,4 mm	Sinotubular Junction Ø	Min: 36,5 mm Max: 39,2 mm Average: 37,8 mm
Aortic Annulus	Min Ø: 28,0 mm Max Ø: 34,6 mm Average Ø: 31,3 mm Eccentricity: 0,19	LVOT Ø	Min: 29,1 mm Max: 39,3 mm Average: 34,2 mm
Sinus of Valsalva Height	20,5 mm	Aorto-Mitral Continuity Length	
Annulus to Apex		Valve to RCA	
Membranous Septum Length		Valve to LCA	
		Valve to STJ	



# ESC GL 2021

**Table 6 Clinical, anatomical and procedural factors that influence the choice of treatment modality for an individual patient**

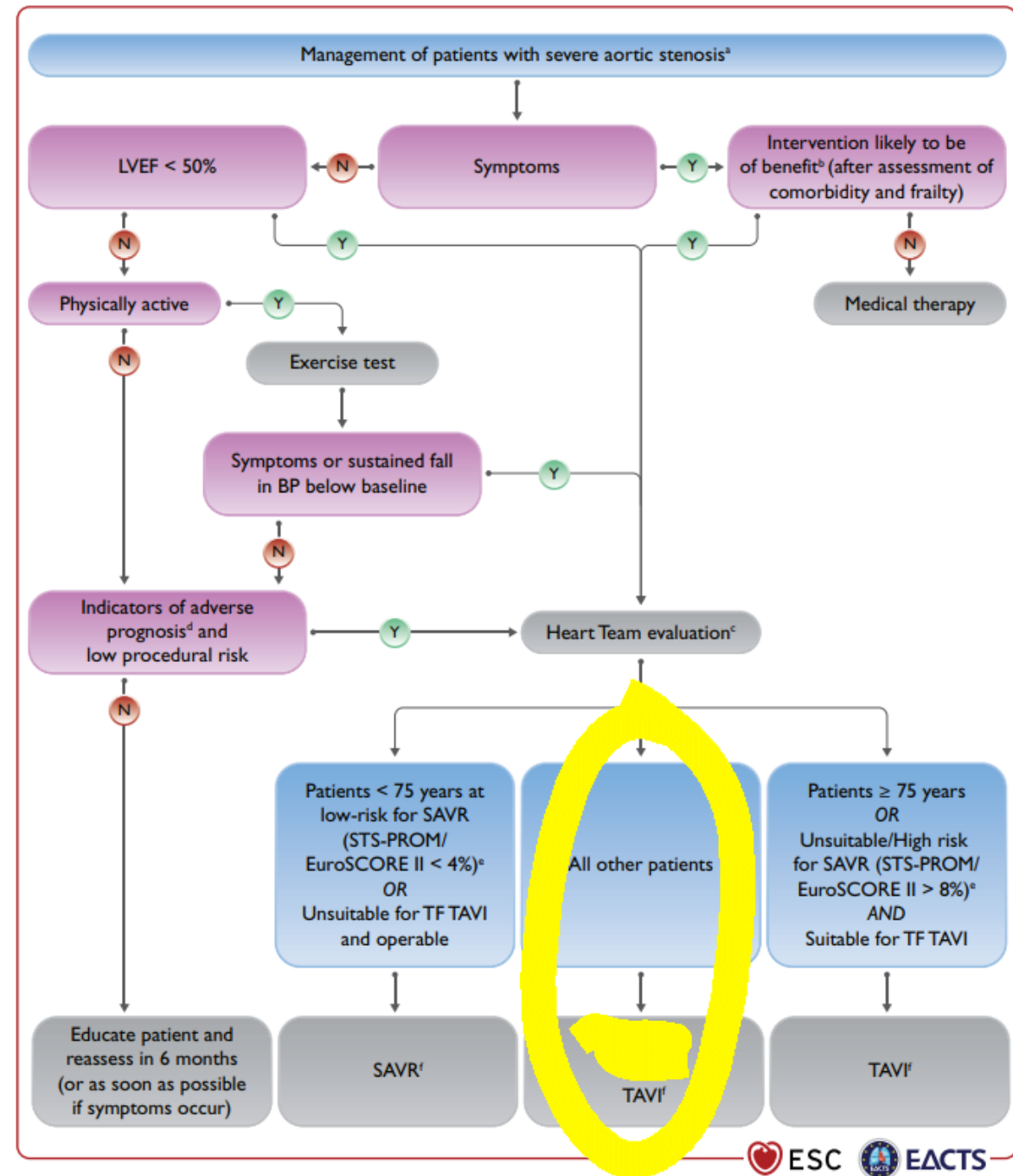
	Favours TAVI	Favours SAVR
<b>Clinical characteristics</b>		
Lower surgical risk	–	+
Younger age <sup>a</sup>	–	+
Previous cardiac surgery (particularly intact coronary artery bypass grafts at risk of injury during repeat sternotomy)	+	–
Severe frailty <sup>b</sup>	+	–
Active or suspected endocarditis	–	+

<b>Anatomical and procedural factors</b>		
TAVI feasible via transfemoral approach	+	–
Transfemoral access challenging or impossible and SAVR feasible	–	+
Transfemoral access challenging or impossible and SAVR inadvisable	+ <sup>c</sup>	–
Sequelae of chest radiation	+	–
Porcelain aorta	+	–
High likelihood of severe patient–prosthesis mismatch (AVA <0.65 cm <sup>2</sup> /m <sup>2</sup> BSA)	+	–
Severe chest deformation or scoliosis	+	–
Abnormal aortic dimensions unsuitable for available TAVI devices	–	+
Bicuspid aortic valve	–	+
Valve morphology unfavourable for TAVI (e.g. high risk of coronary obstruction due to low coronary ostia or heavy leaflet/LVOT calcification)	–	+
Thrombus in aorta or LV	–	+

### Concomitant cardiac conditions requiring intervention

Significant multi-vessel CAD requiring surgical revascularization <sup>d</sup>	-	+
Severe primary mitral valve disease	-	+
Severe tricuspid valve disease	-	+
Significant dilatation/aneurysm of the aortic root and/or ascending aorta	-	+
Septal hypertrophy requiring myectomy	-	+

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# ...Ao anulus nadhraniční pro TAVI, takže SAVR

- OPERACE na CKTCH: dne 23.11.2022 provedena v ECC náhrada aortální chlopně bioprotézou - AVR bio (EL Perimount 27), anuloplastika trikuspidální chlopně - TVP anuloplastika (ring EL Physio tricuspid 32), uzávěr foramen ovale apertum, sutura vena jugularis interna l. dx. pro malpozici HD kanyly.

**Děkuji za pozornost**