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XXXIV.
VÝROČNÍ SJEZD ČESKÉ
KARDIOLOGICKÉ SPOLEČNOSTI



ČESKÁ ASOCIACE INTERVENČNÍ KARDIOLOGIE

Novinky z Doporučených postupů ESC 2025 pro chlopenní vady

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Brno, 10. května 2026



ESC

European Society
of Cardiology

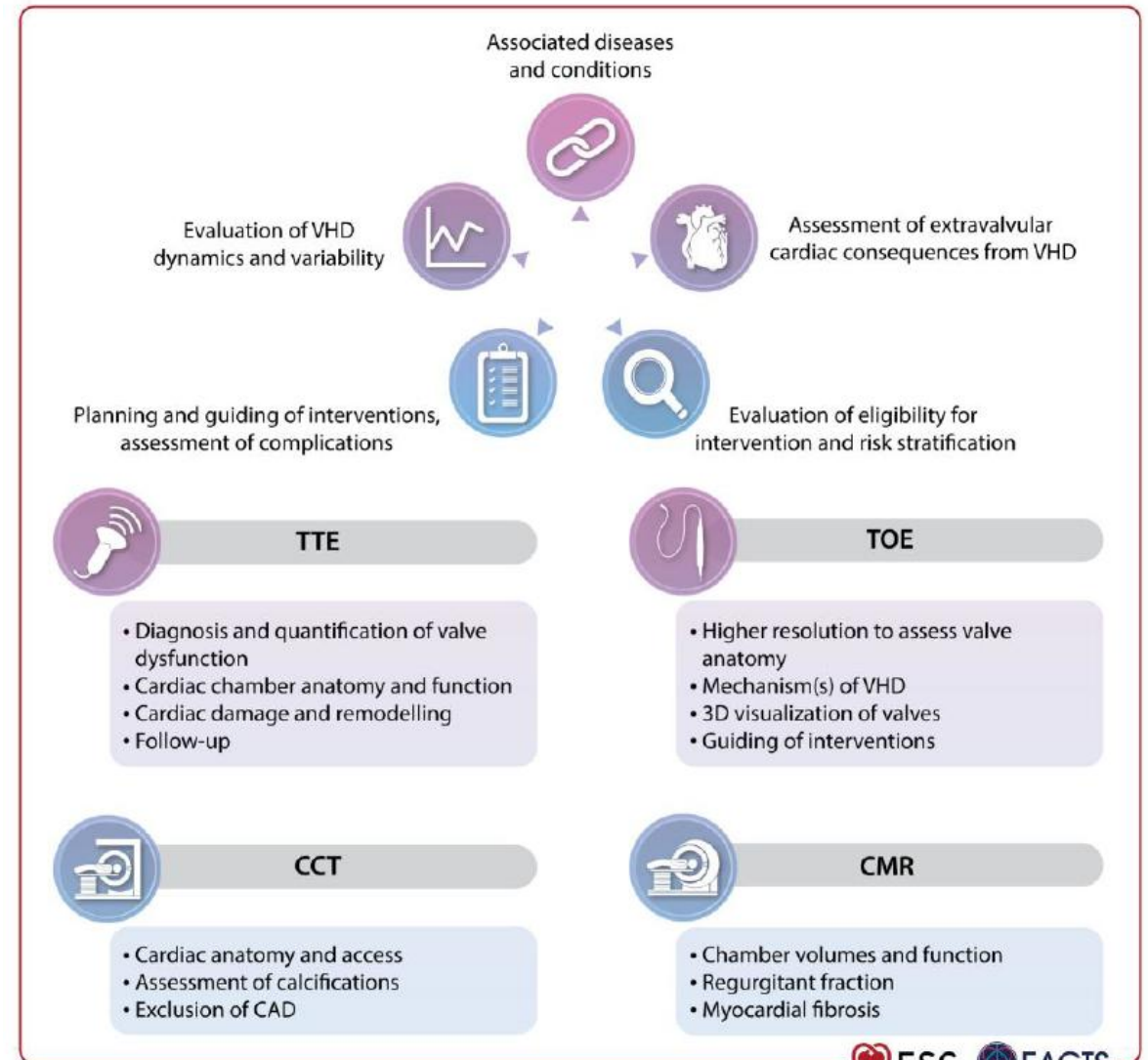
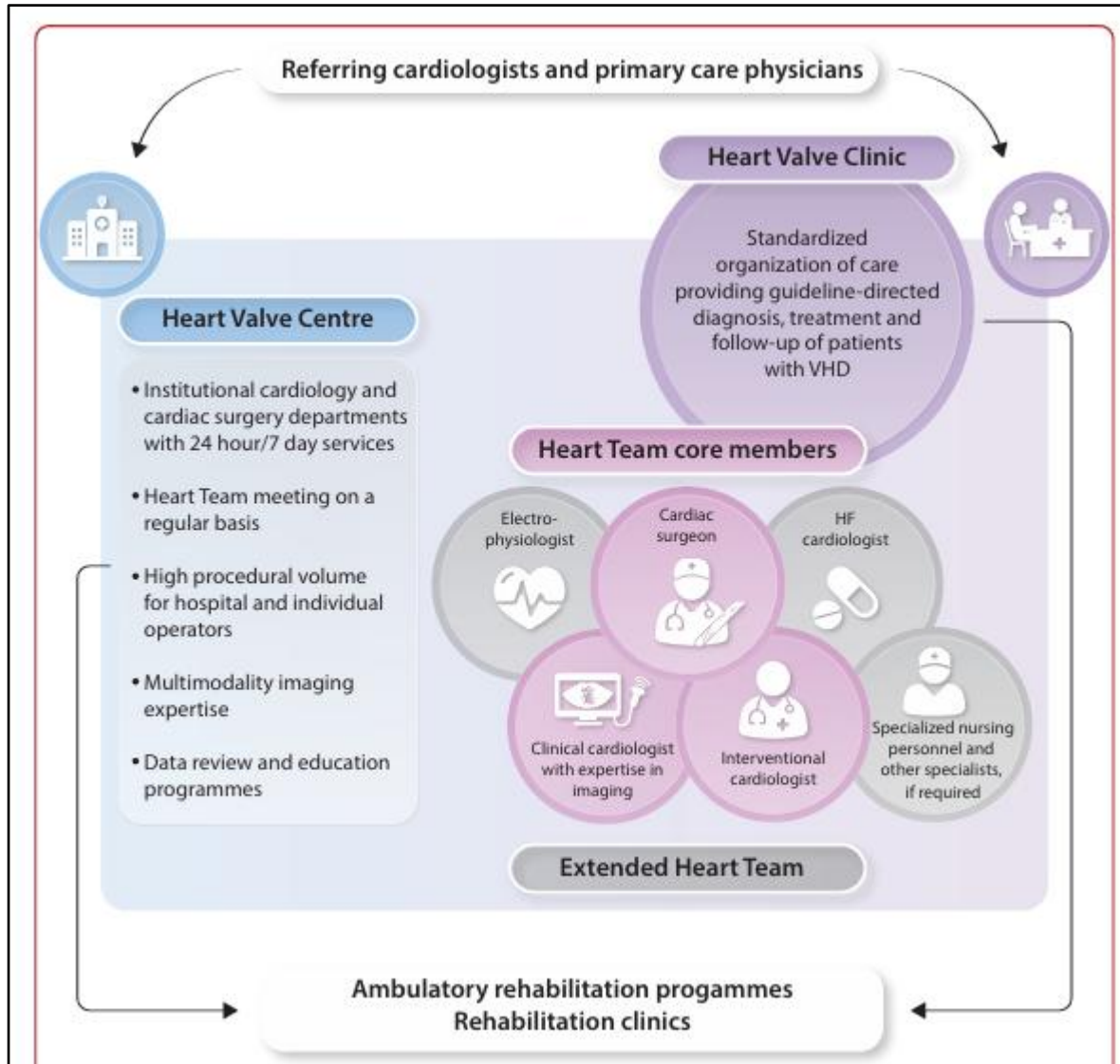
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<https://doi.org/10.1093/eurheartj/ehaf194>

ESC GUIDELINES

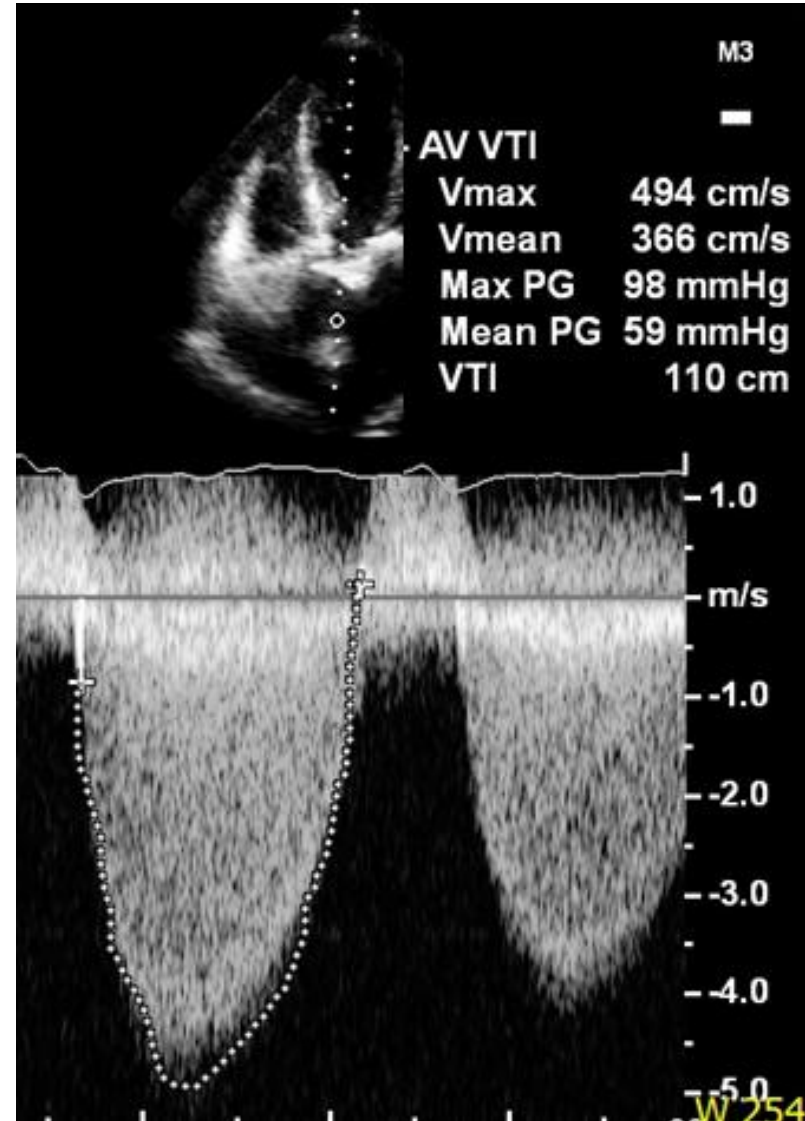
2025 ESC/EACTS Guidelines for the management of valvular heart disease

- Hlavní cíle:
 - Zjednodužit, zrychlit rozhodování a omezit nedostatečnou léčbu pacientů („undertreatment“)
 - Zdůraznit nutnost vytvoření dlouhodobého plánu péče o nemocné s chlopenními vadami
 - Centralizace péče do specializovaných center

Centra pro léčbu chlopenních vad, specializované týmy, síť spolupracujících pracovišť



Aortální stenóza (AS)



Aortální stenóza v roce 2025 – TAVI / SAVR

2021

Recommendations in 2021 version	Class	Level
Mode of intervention in aortic stenosis		
TAVI is recommended in older patients (≥75 years), or in those who are high risk (STS-PROM/EuroSCORE II >8%) or unsuitable for surgery.	I	A
SAVR is recommended in younger patients who are low risk for surgery (<75 years and STS-PROM/EuroSCORE II <4%), or in patients who are operable and unsuitable for transfemoral TAVI.	I	B

2025

Recommendations in 2025 version	Class	Level
TAVI is recommended in patients ≥75 years of age with aortic stenosis, if the aortic valve is suitable for TAVI.	I	A
SAVR is recommended in patients <75 years of age, if the aortic valve is suitable for SAVR.	I	B

Aortální stenóza v roce 2025

- Výběr způsobu intervence
 - **Katetrizační léčba:** u pacientů ≥ 70 let (bez ohledu na operační riziko): **TAVI (IA)**
 - **Chirurgie:** jistě u pacientů < 70 let a s nízkým rizikem operace: **SAVR (IB)**
 - Všichni **ostatní pacienti:** < 70 let, střední/vysoké riziko **TAVI / SAVR (IB)**
- Doporučuje **Heart Team**, respektuje **přání pacienta** **(IC)**

Pozn.: jasná data jsou pro TF přístup a trojcípou Ao chlopeň

Aortální stenóza v r. 2025 – ASYMPTOMATICKÁ

2025

Indications for intervention in symptomatic and asymptomatic severe aortic stenosis, and recommended mode of intervention

Intervention should be considered in asymptomatic patients (confirmed by a normal exercise test, if feasible) with severe aortic stenosis and LVEF $\geq 55\%$, as an alternative to close active surveillance, if the procedural risk is low.

IIa

A

2021

Intervention should be considered in asymptomatic patients with severe aortic stenosis and systolic LV dysfunction (LVEF $< 55\%$) without another cause. ^{9,240,241}

IIa

B

Aortální stenóza – absence femorálního (TF) přístupu

2021

Non-transfemoral TAVI may be considered in patients who are inoperable and unsuitable for transfemoral TAVI.

I Ib

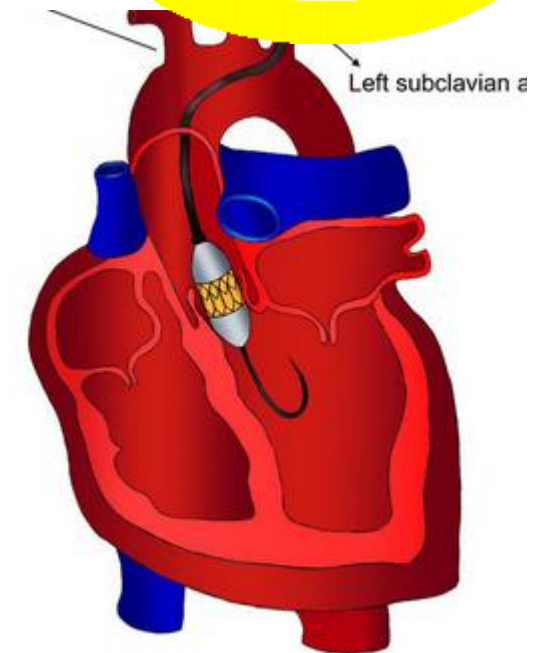
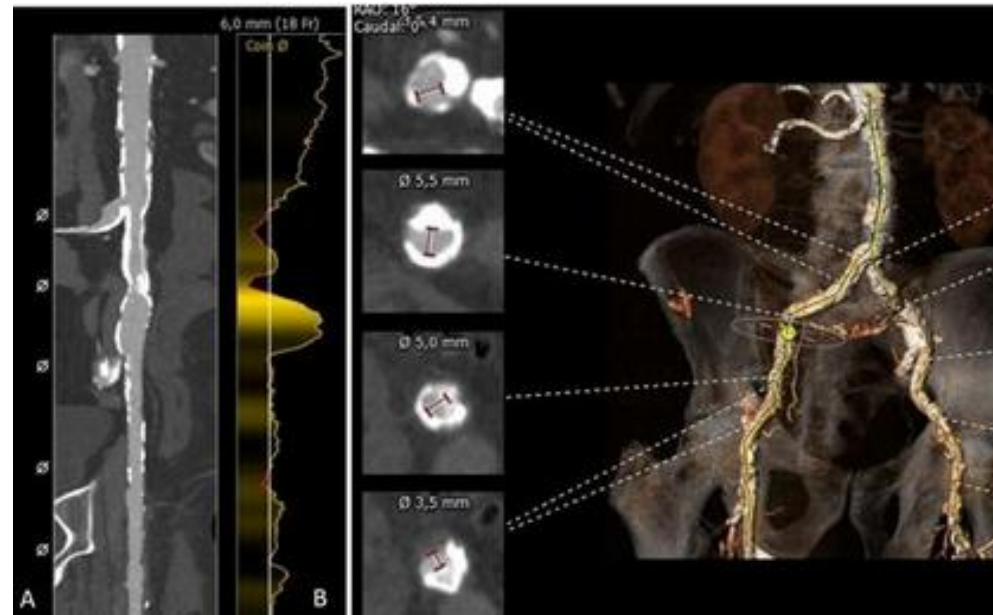
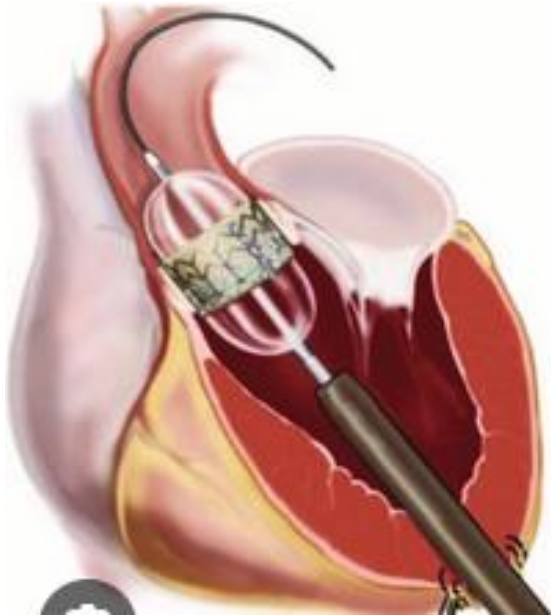
C

2025

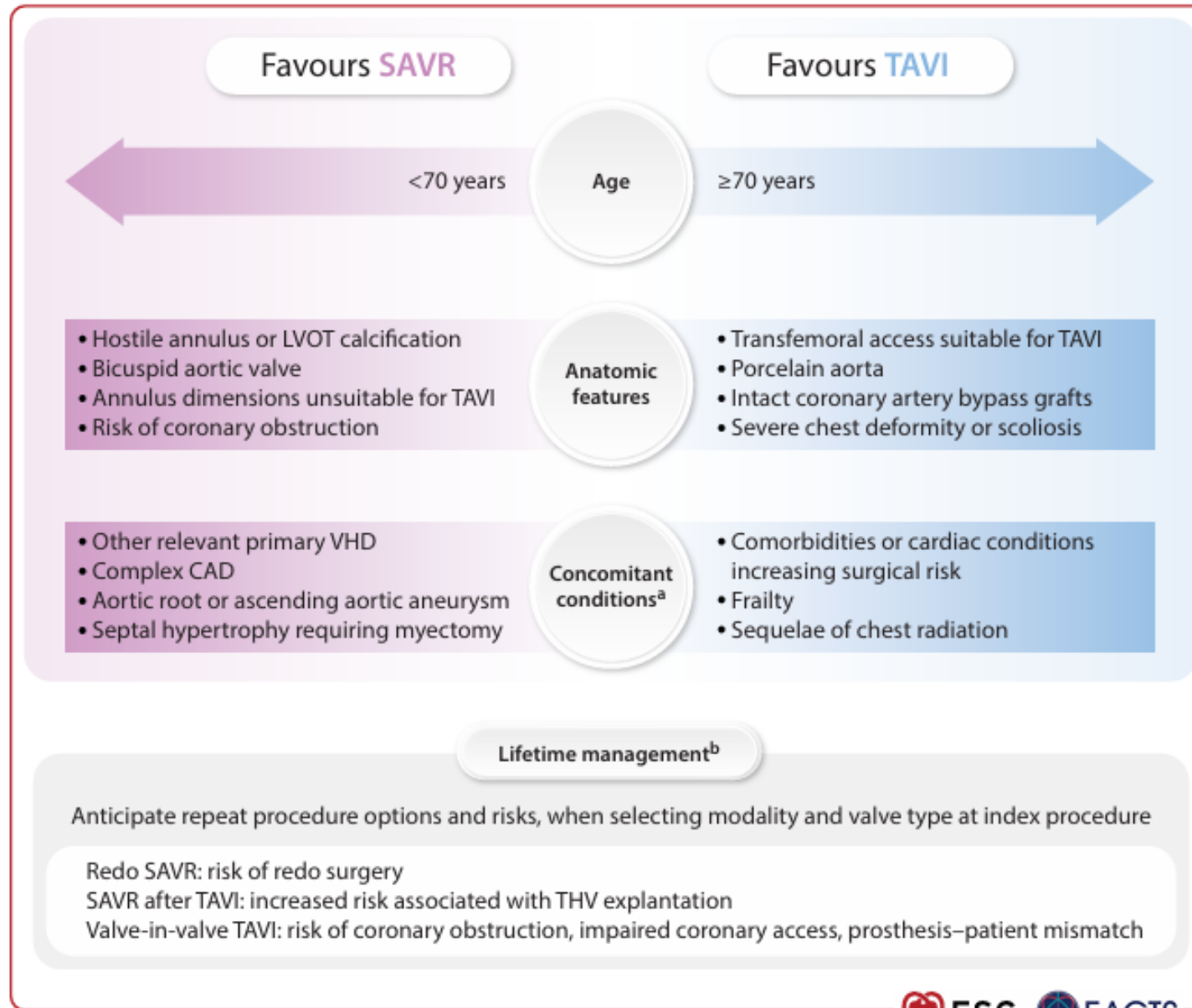
Non-transfemoral TAVI should be considered in patients who are unsuitable for transfemoral access.

I Ia

B

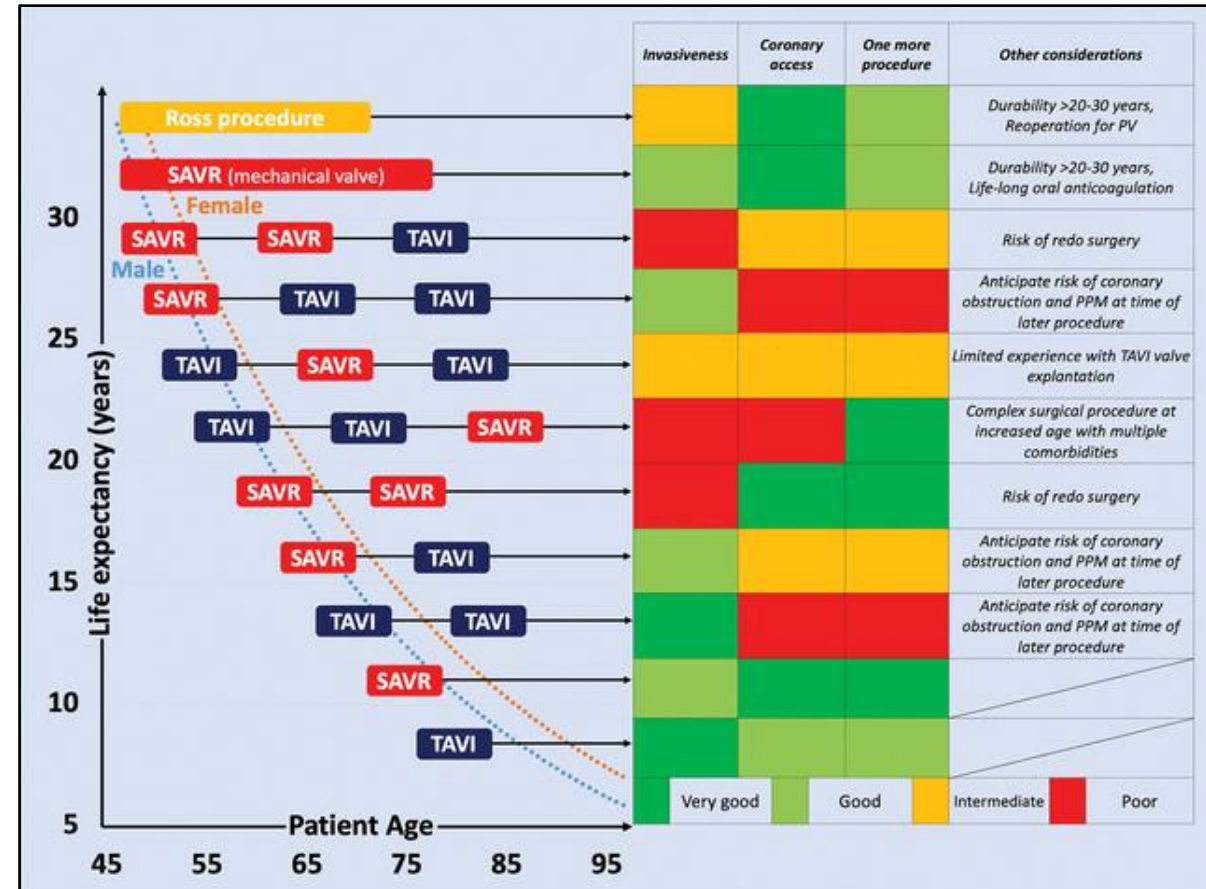


Aortální stenóza – lifetime management



Aortální stenóza – lifetime management

Recommendations in 2025 version	Class	Level
<p>It is recommended that the mode of intervention is based on Heart Team assessment of individual clinical, anatomical, and procedural characteristics, incorporating lifetime management considerations and estimated life expectancy.</p>	I	C



Aortální stenóza – Valve-in-valve

2021

Transcatheter, transfemoral valve-in-valve implantation in the aortic position should be considered by the Heart Team depending on anatomical considerations, features of the prosthesis, and in patients who are at high operative risk or inoperable.

IIa

B



2025

Transcatheter transfemoral valve-in-valve implantation in the aortic position should be considered in patients with significant valve dysfunction who are at intermediate or high surgical risk, and have suitable anatomical and prosthesis features, as assessed by the Heart Team.

IIa

B

Aortální stenóza – kdy „jen“ CT koronarografie?

2021

2025

Recommendations in 2021 version	Class	Level	Recommendations in 2025 version	Class	Level
Management of coronary artery disease in patients with valvular heart disease					
CCTA should be considered as an alternative to coronary angiography before valve surgery in patients with severe VHD and low probability of CAD.	IIa	C	CCTA is recommended before valve intervention in patients with moderate or lower ($\leq 50\%$) pre-test likelihood of obstructive CAD.	I	B

C Risk factor weighted clinical likelihood model

Number of risk factors	Non-anginal pain						Atypical angina or dyspnea						Typical angina					
	Women			Men			Women			Men			Women			Men		
	0-1	2-3	4-5	0-1	2-3	4-5	0-1	2-3	4-5	0-1	2-3	4-5	0-1	2-3	4-5	0-1	2-3	4-5
Age: 30-39	0	1	2	1	2	5	0	1	3	2	4	8	2	5	10	9	14	22
Age: 40-49	1	1	3	2	4	8	1	2	5	3	6	12	4	7	12	14	20	27
Age: 50-59	1	2	5	4	7	12	2	3	7	6	11	17	6	10	15	21	27	33
Age: 60-69	2	4	7	8	12	17	3	6	11	12	17	25	10	14	19	32	35	39
Age: 70-80	4	7	11	15	19	24	6	10	16	22	27	34	16	19	23	44	44	45

Aortální regurgitace v r. 2025

Indications for intervention in severe aortic regurgitation

Patients should be considered for the treatment of severe AR in symptomatic patients in whom the regurgitant jet is large according to the Heart Team, if the anatomy is suitable.

IIb

B

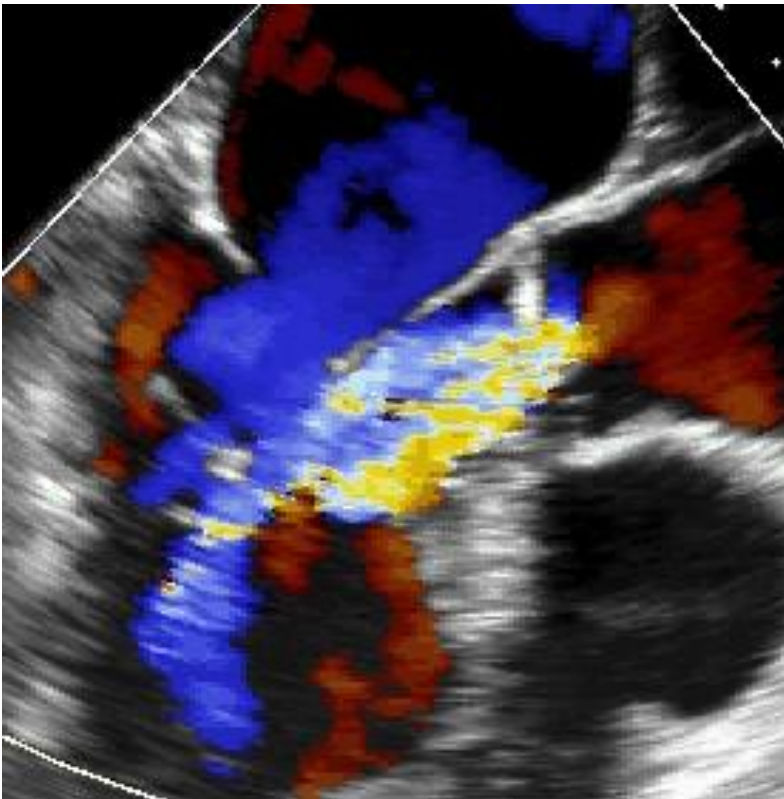


Table 5 Echocardiographic criteria for the definition of severe aortic valve regurgitation

Qualitative	
Valve morphology	Abnormal/flail/large coaptation defect
Colour flow regurgitant jet area ^a	Large in central jets, variable in eccentric jets
CW signal of regurgitant jet	Dense
Other	Holodiastolic flow reversal in descending aorta (EDV >20 cm/s)
Semiquantitative	
Vena contracta width (mm)	>6
Pressure half-time ^b (ms)	<200
Quantitative	
EROA (mm ²)	≥30
Regurgitant volume (mL/beat)	≥60
Enlargement of cardiac chambers	LV dilatation

Aortální regurgitace v roce 2025

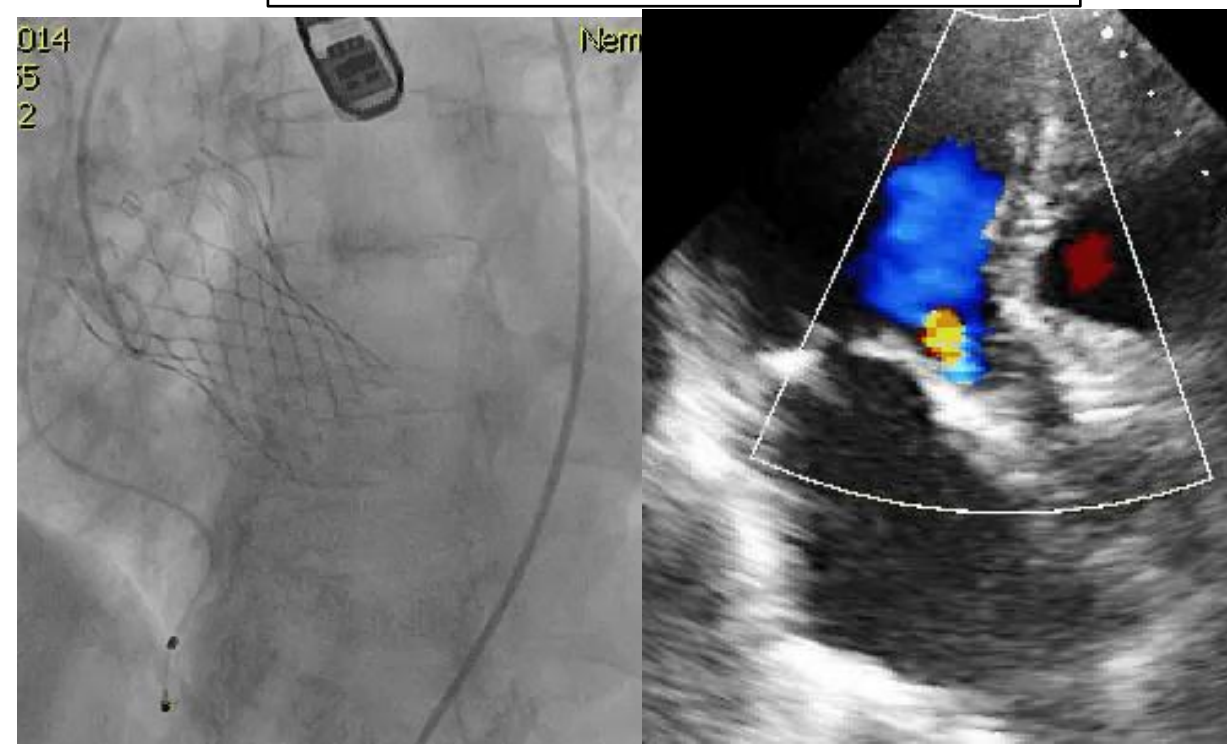
SAVR - u všech nemocných s přijatelným oper. rizikem

TAVI - u nemocných nevhodných k operaci

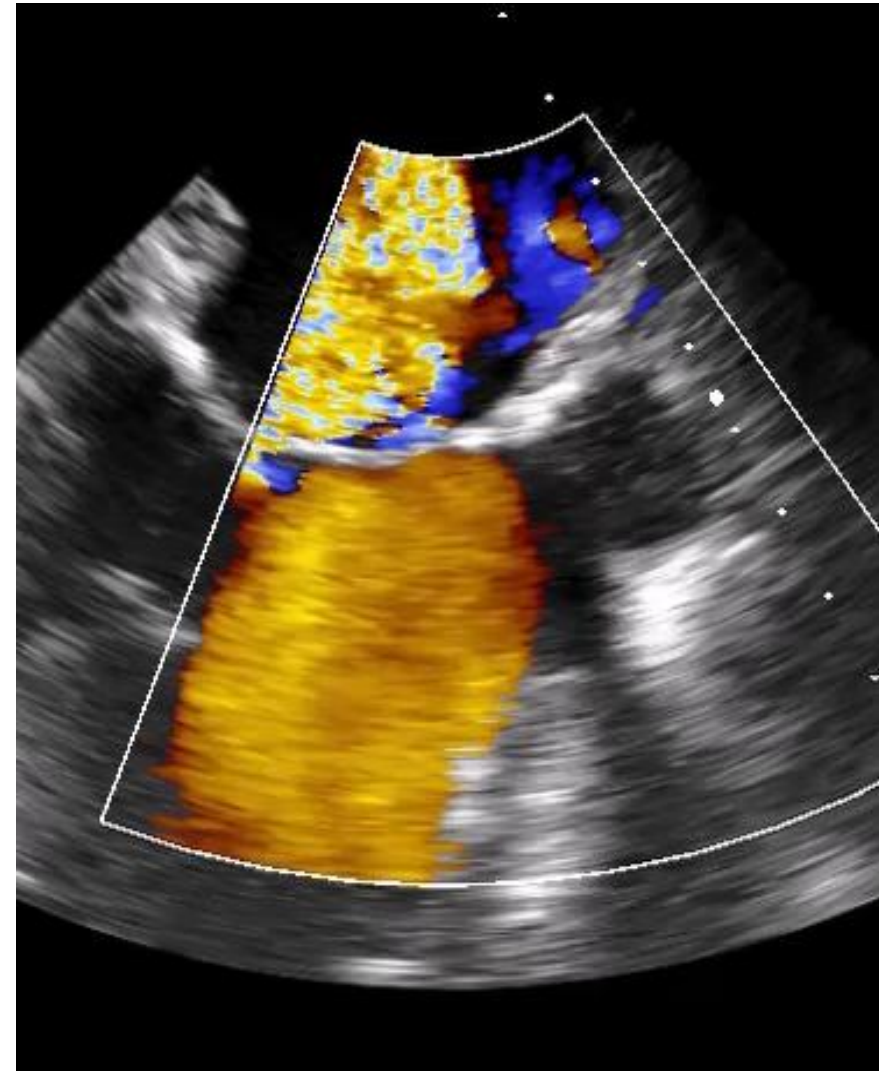
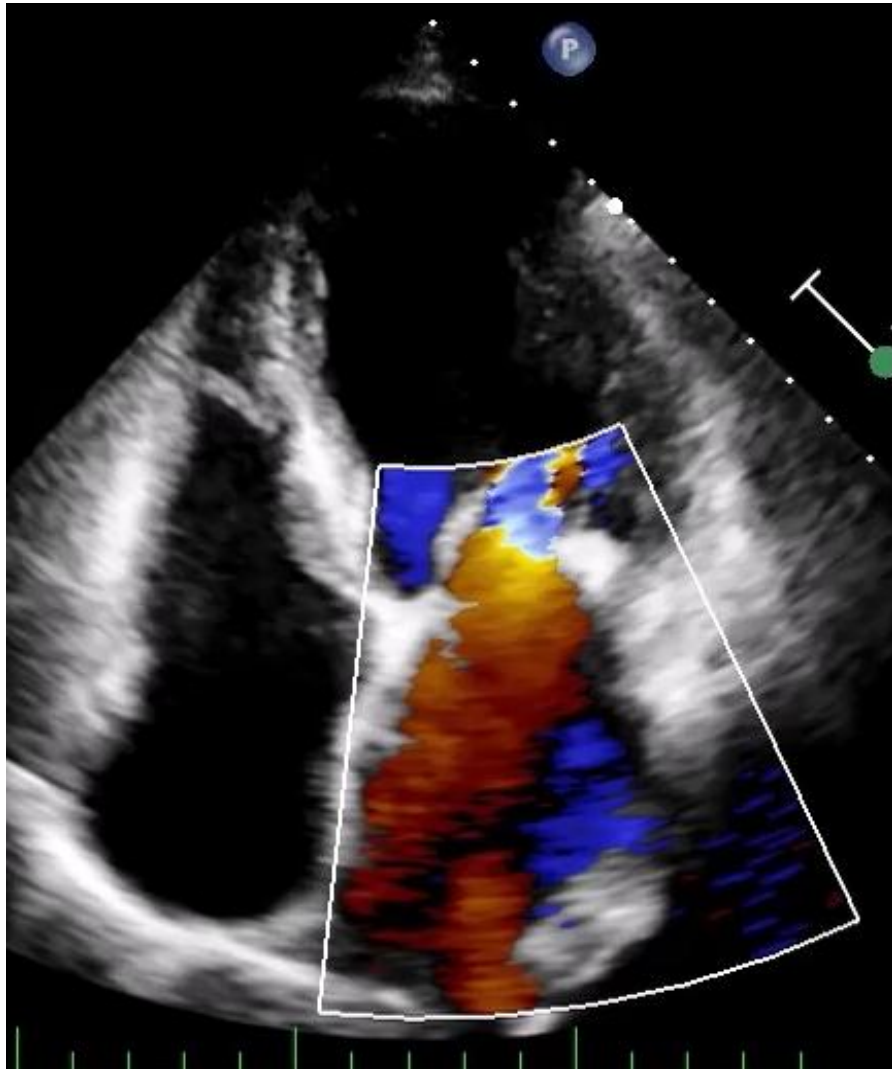
Před TAVI



Po TAVI



Mitrální regurgitace



Primární mitrální regurgitace - asymptomatická

prolaps



2021

Surgical mitral valve repair should be considered in low-risk asymptomatic patients with LVEF >60%, LVESD <40 mm^d and significant LA dilatation (volume index ≥ 60 mL/m² or diameter ≥ 55 mm) when performed in a Heart Valve Centre and a durable repair is likely. ^{285,288}

IIa

B

2025

Indications for intervention in severe primary mitral regurgitation

Surgical MV repair is recommended in low-risk asymptomatic patients with severe PMP with $\text{LVEF} > 60\%$ (LVESD <40 mm, LVESDi <20 mm/m², and LVEF >60%) when a durable result is likely, if at least three of the following criteria are fulfilled:

- AF
- SPAP at rest >50 mmHg
- LA dilatation (LAVI ≥ 60 mL/m² or LA diameter ≥ 55 mm)
- Concomitant secondary TR \geq moderate.

Class

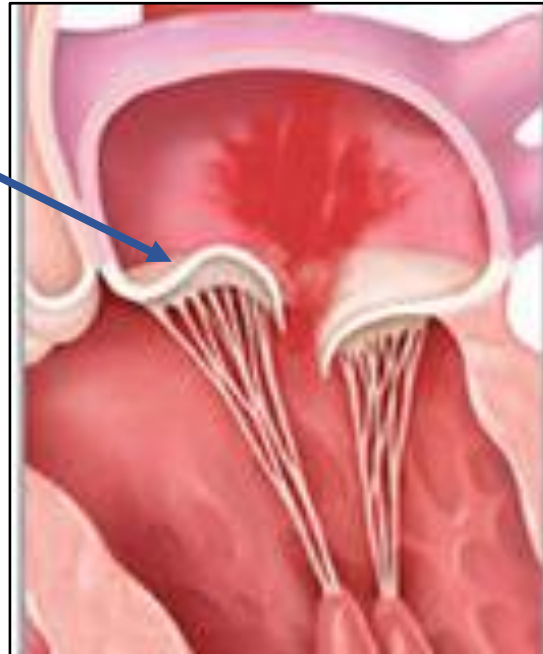
Level

I

B

Primární mitrální regurgitace - symptomatická

prolaps



2021

TEER may be considered in symptomatic patients who fulfil the echocardiographic criteria of eligibility, are judged inoperable or at high surgical risk by the Heart Team and for whom the procedure is not considered futile. ²⁹⁹⁻³⁰²

IIb

B

2025

TEER may be considered in symptomatic patients with severe PMR who are anatomically suitable and at high surgical risk according to the Heart Team. ^{538,540,566}

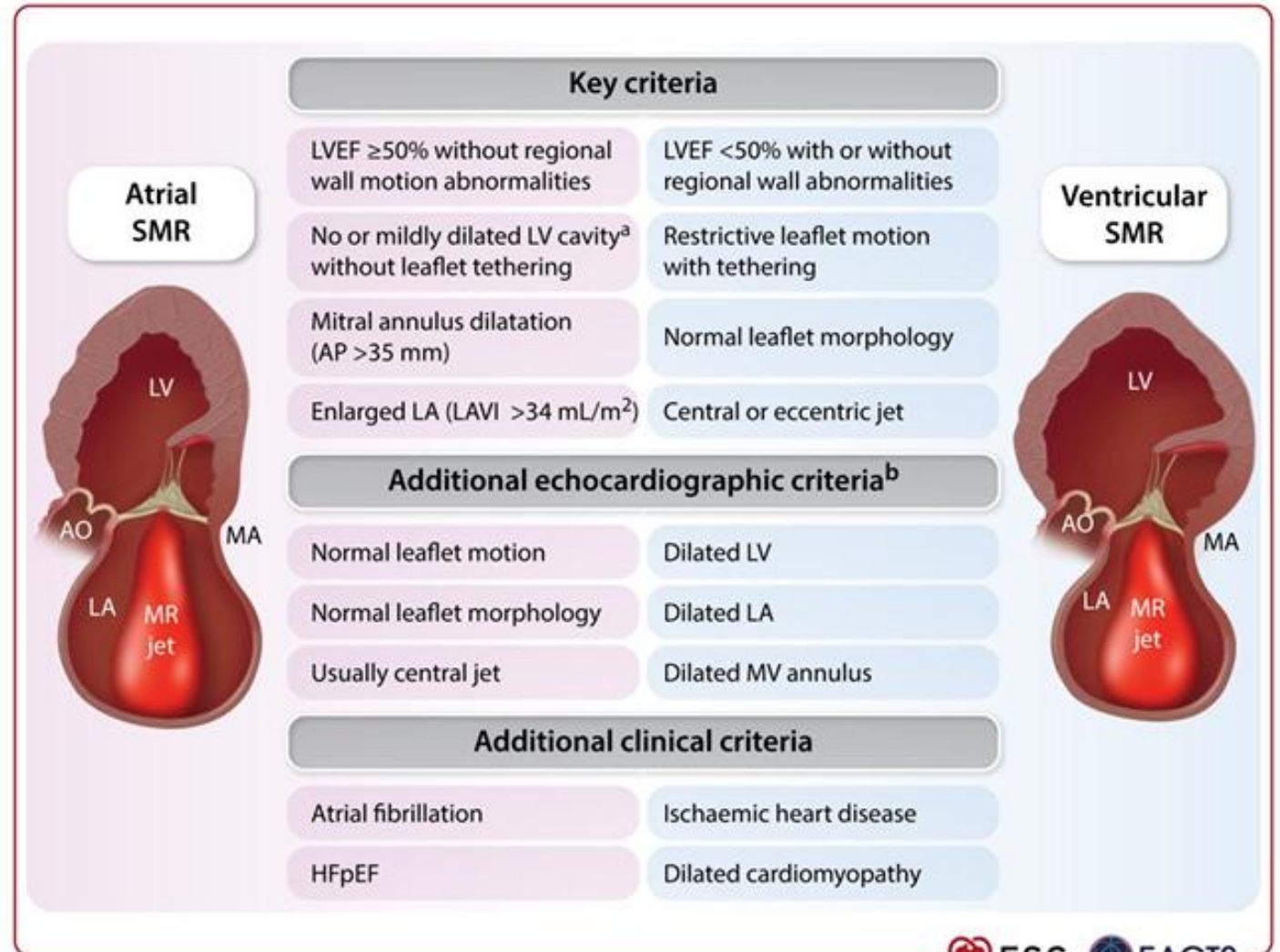
IIa

B

Sekundární mitrální regurgitace




Dilatace anulu



Sekundární atriální mitrální regurgitace

2025

Recommendations	Class ^a	Level ^b
Severe atrial secondary mitral regurgitation		
<u>MV surgery, surgical AF ablation, if indicated, and LAAO</u> should be considered in symptomatic patients with severe atrial SMR under optimal medical therapy. <small>627-630,636,637</small>	IIa	B
 should be considered in symptomatic patients with severe atrial SMR not eligible for surgery after optimization of medical therapy including rhythm control, when appropriate. <small>588,590,638,639</small>	IIb	B

Sekundární ventrikulární mitrální regurgitace

Severe ventricular secondary mitral regurgitation without concomitant coronary artery disease

It is **recommended** to reduce HF hospitalizations and improve quality of life in haemodynamically stable, symptomatic patients with impaired LVEF (<50%) and persistent severe ventricular SMR, despite optimized GDMT and CRT (if indicated), fulfilling specific clinical and echocardiographic criteria.^{c 583,584,606,608,613}

They may be considered for symptom improvement in selected symptomatic patients with severe ventricular SMR not fulfilling the specific clinical and echocardiographic criteria,^f after careful evaluation of LVAD or HTx.^{203,608–610}

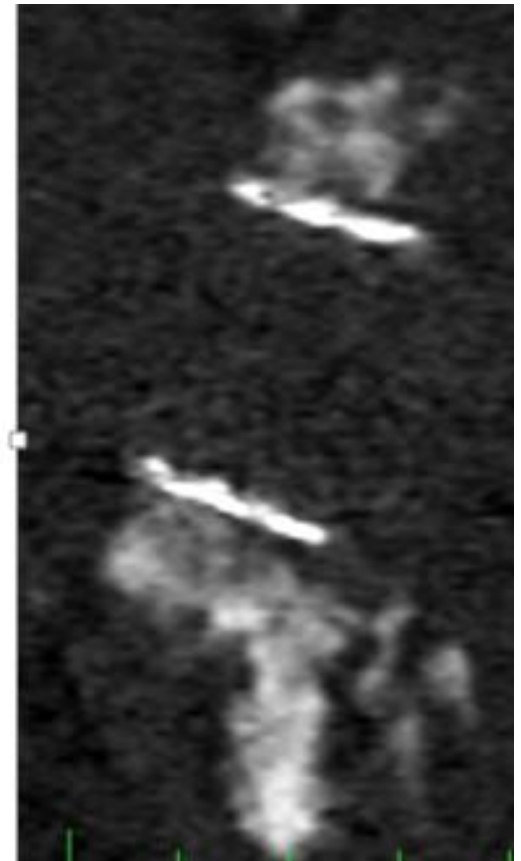
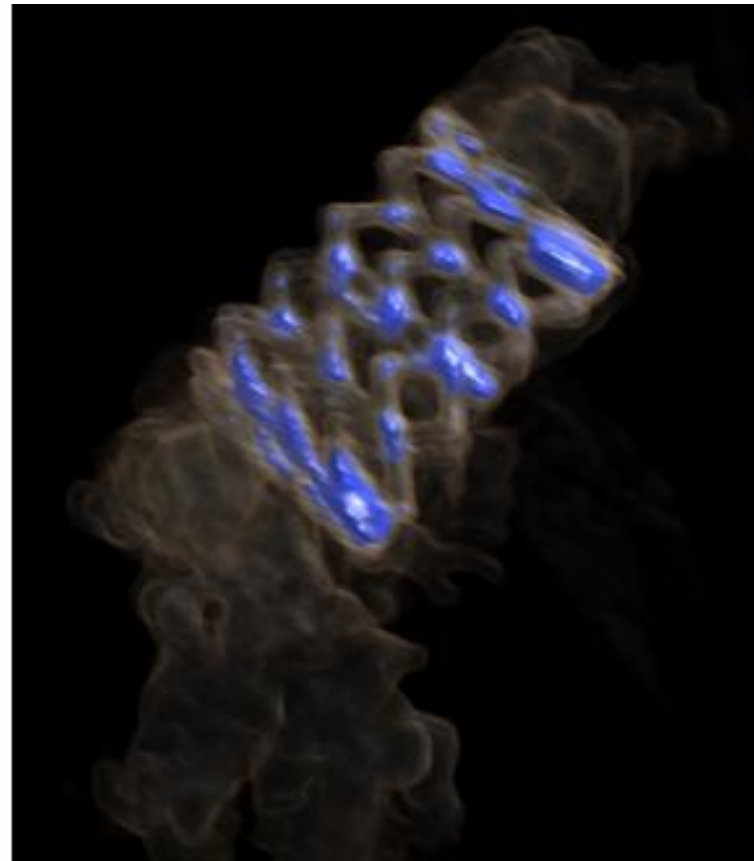
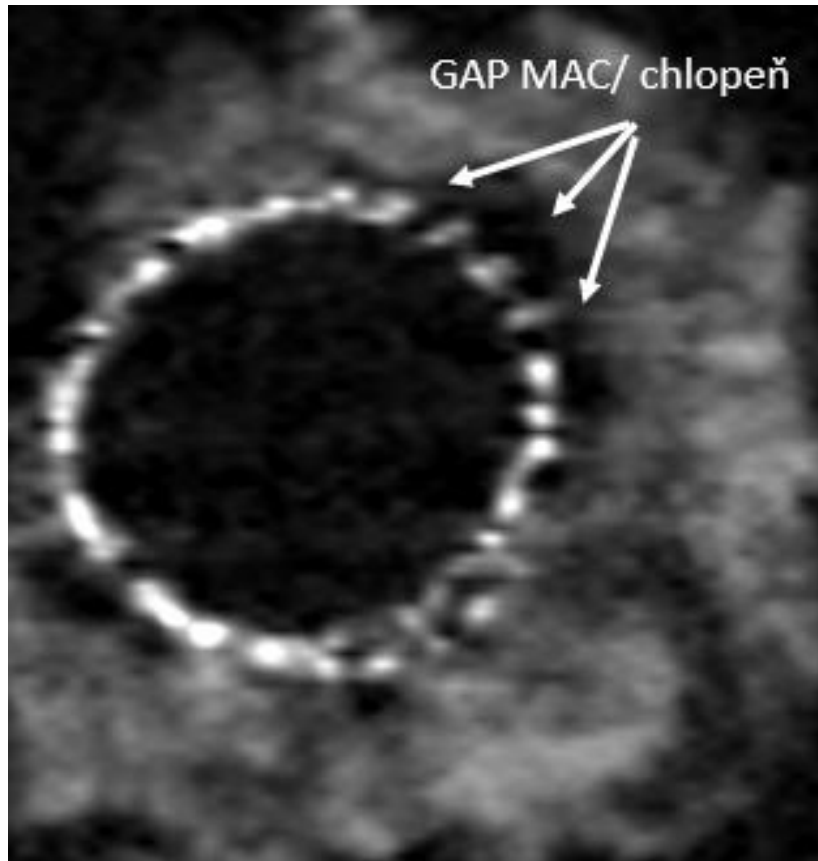
They may be considered in symptomatic patients with severe ventricular SMR and advanced HF who are not suitable for TEER.⁶¹⁷

I	A
IIb	B
IIb	C

Specific clinical and echocardiographic criteria for M-TEER

Anatomy deemed suitable for M-TEER
NYHA class \geq II
LVEF 20%–50%
LVESD \leq 70 mm
At least one HF hospitalization within the previous year or increased natriuretic peptide levels (BNP \geq 300 pg/mL or NT-proBNP \geq 1000 pg/mL)
SPAP \leq 70 mmHg
No severe RV dysfunction
No Stage D or advanced HF
No CAD requiring revascularization
No severe AV and/or TV disease
No hypertrophic, restrictive, or infiltrative cardiomyopathies

Mitrální stenóza – Transcatheter Mitral Valve Implantation (TMVI)



Trikuspidání regurgitace

Recommendations	Class	Level
Patients with severe tricuspid regurgitation without left-sided valvular heart disease requiring surgery		
TV surgery is recommended in asymptomatic patients with severe primary TR who have RV dilatation/RV function deterioration, but without severe LV/RV dysfunction or severe PH.	I	C
TV surgery should be considered in asymptomatic patients with severe primary TR who have RV dilatation/RV function deterioration, but without severe LV/RV dysfunction or severe PH.	IIa	C
TV surgery should be considered in patients with severe secondary TR who are symptomatic or have RV dilatation/RV function deterioration, but without severe LV/RV dysfunction or severe PH.	IIa	B
TV surgery should be considered to improve quality of life and RV function in patients with severe TR who are symptomatic despite optimal medical therapy and have severe PH.	IIa	A

Závěry

- **Spolupráce**
 - „Heart“ tým
 - specializovaná centra pro léčbu chlopenních vad 24/7
 - síť spolupracujících pracovišť – včasná detekce a individualizovaná péče
- **AoS**
 - rozšíření indikací pro TAVI + life-time management
 - CT koronarografie u části pacientů
- **MiR**
 - dřívější chirurgická léčba u asymptomatických pacientů,
 - rozšířené indikace (třída IA) pro M-TEER u sekundární ventrikul. MR
- **TriR**
 - dřívější operace a rozšířené indikace (třída IIaA) pro T-TEER



Děkuji za pozornost a M. Brannemu za pomoc.