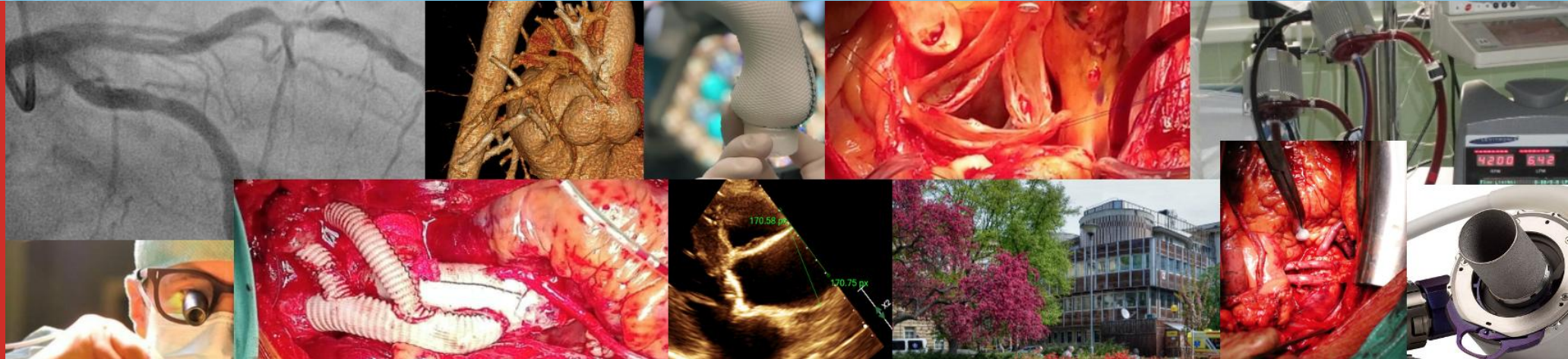




Centrum
kardiovaskulární
a transplantační
chirurgie



Chirurgické výkony na aortální chlopni a hrudní aortě

Petr Fila

ESC Guidelines



ESC

European Society
of Cardiology

European Heart Journal (2025) 46, 4635–4736
<https://doi.org/10.1093/eurheartj/ehaf194>

ESC GUIDELINES

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

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ESC Guidelines - aortální regurgitace

Indications for surgery in severe aortic regurgitation—Section 7.4

AV repair may be considered in selected patients at experienced centres when durable results are expected.

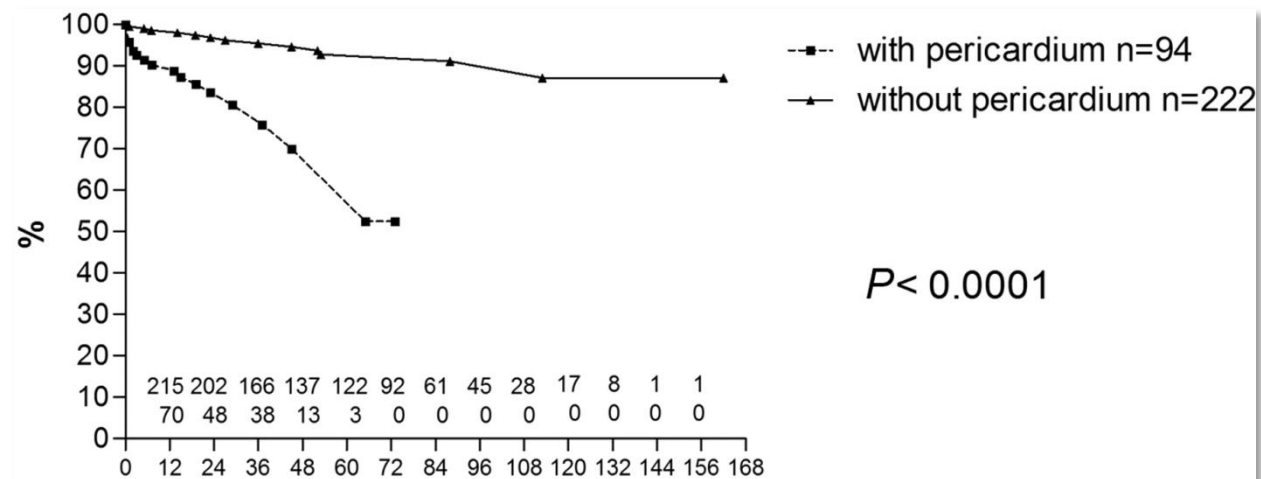
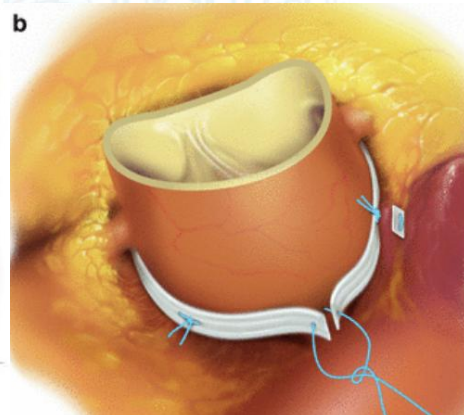
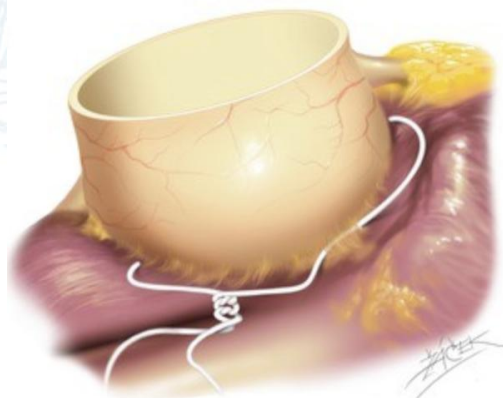
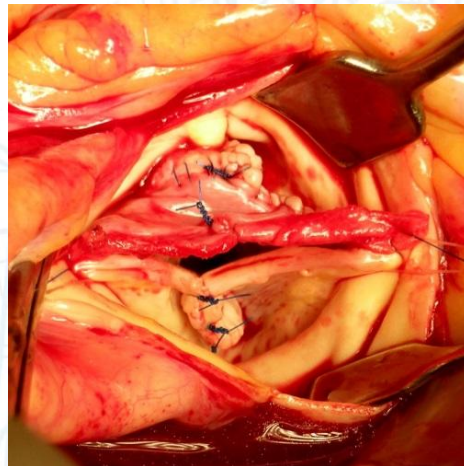
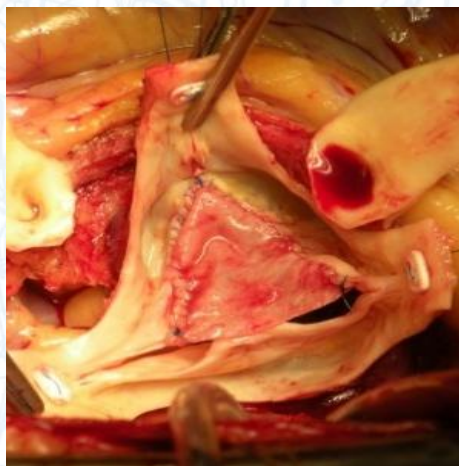
IIb

C

AV repair should be considered in selected patients with severe AR at experienced centres, when durable results are expected.

IIa

B



ESC Guidelines - aortální regurgitace

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

Indications for surgery in severe aortic regurgitation—Section 7.4

AV repair may be considered in selected patients at experienced centres when durable results are expected.

IIb

C

AV repair should be considered in selected patients with severe AR at experienced centres, when durable results are expected.

IIa

B

Concomitant surgery of the ascending aorta

Valve-sparing aortic root replacement is recommended in young patients with aortic root dilatation at experienced centres, when durable results are expected.^{247,250–253,255}

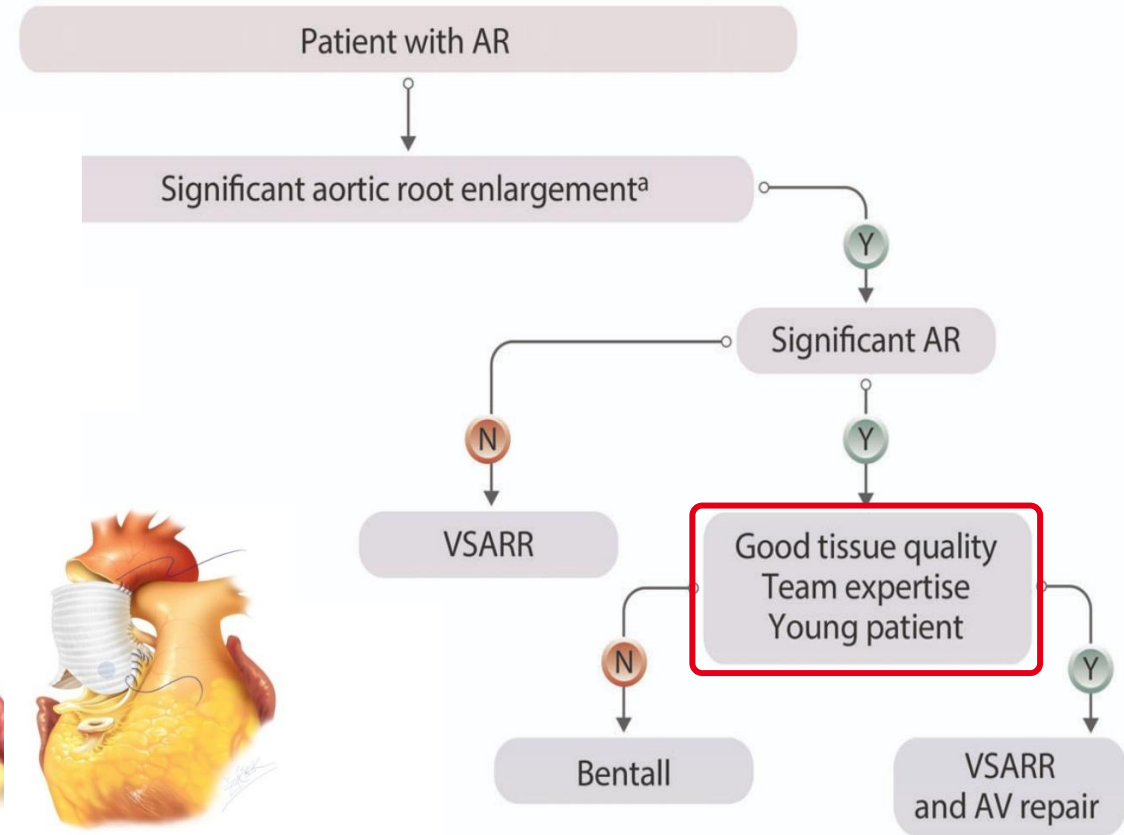
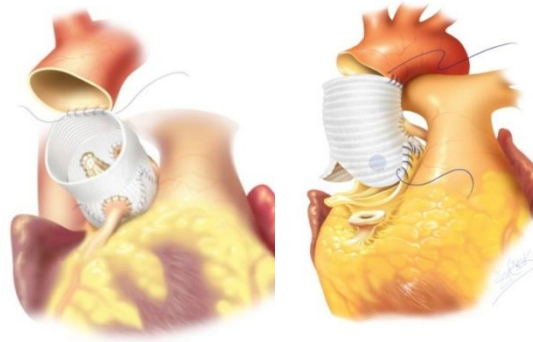
I

B

When AV surgery is indicated and the predicted surgical risk is low, replacement of the aortic root or ascending aorta should be considered if the maximal diameter is ≥ 45 mm.^d

IIa

C

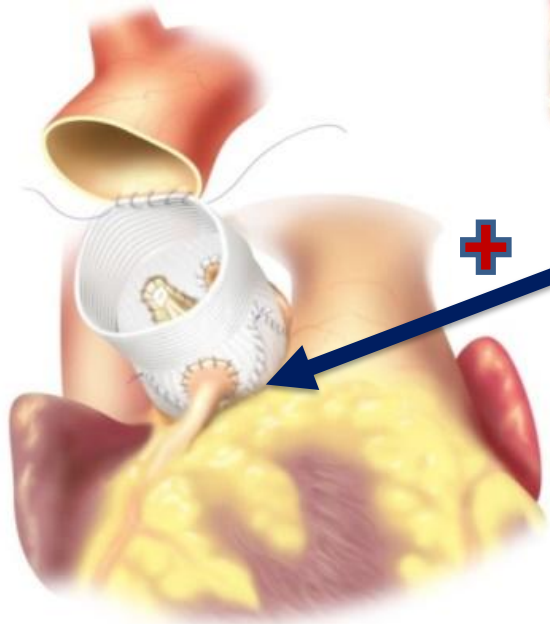
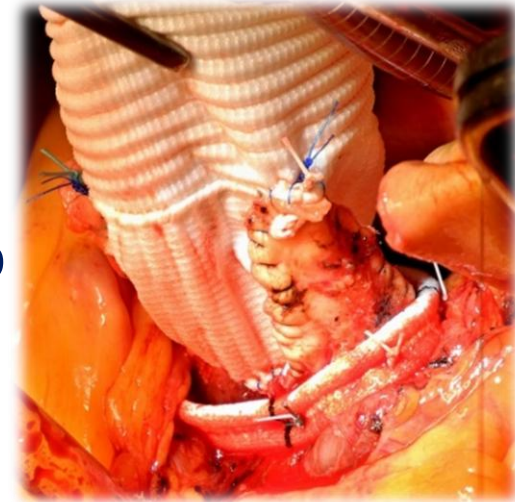


Záchovné operace aortální chlopně

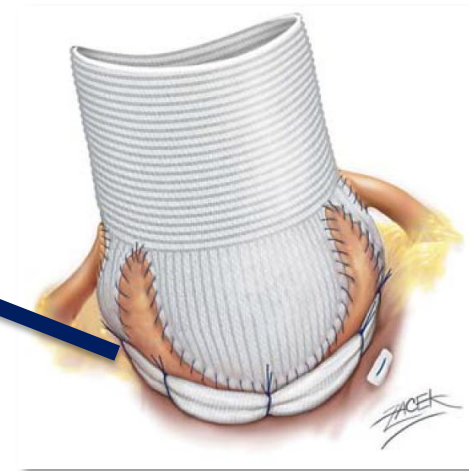
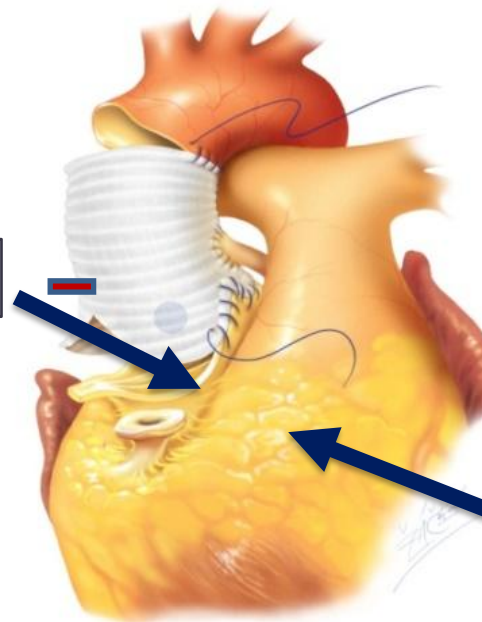
reimplantace - David



remodelace - Yacoub



stabilizace aortálního anulu



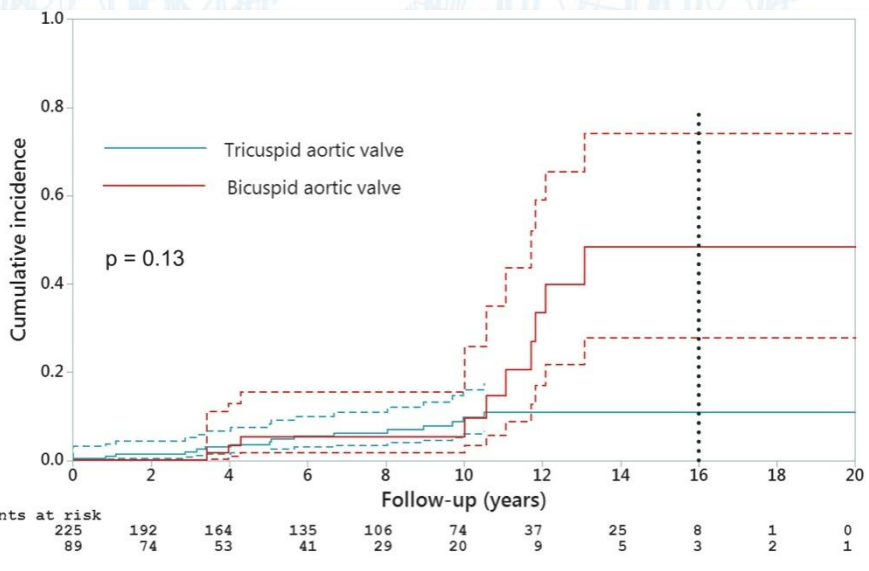
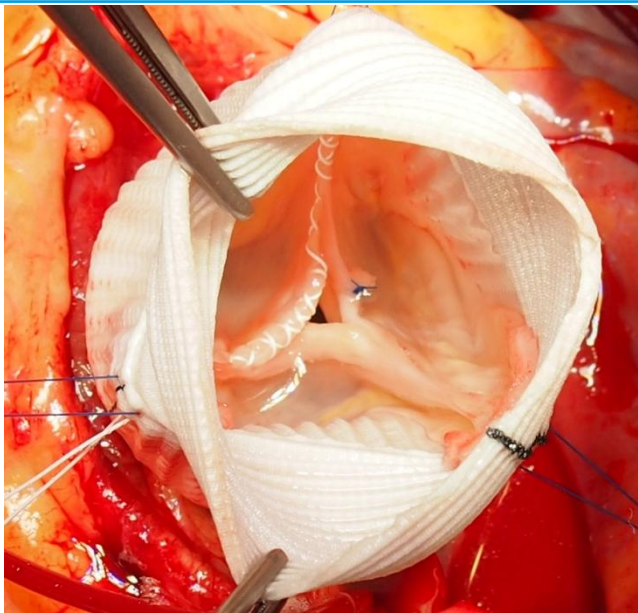
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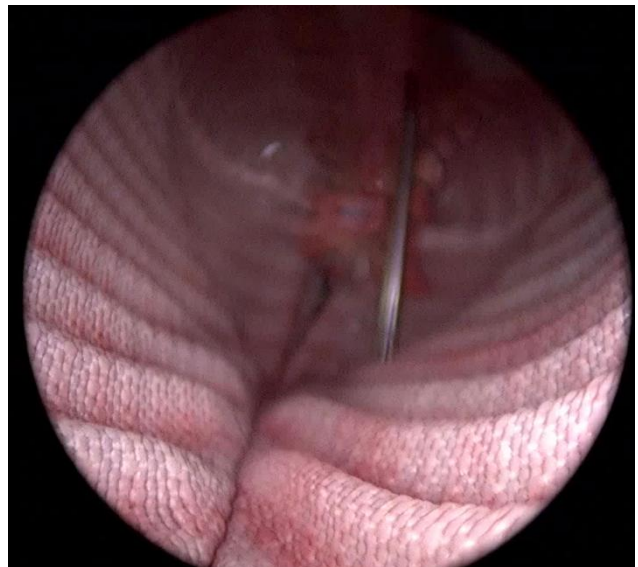
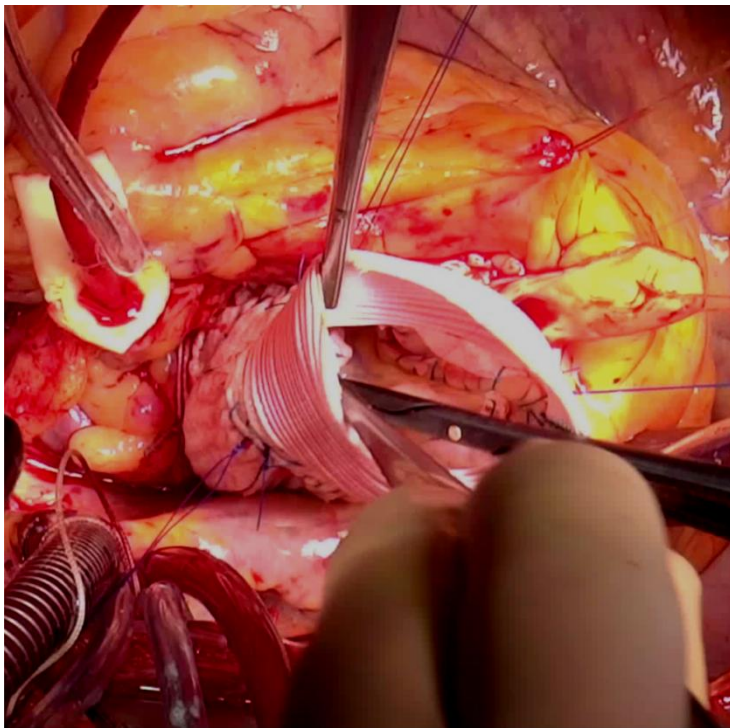
247,250–253,255



Praz F, 2025 ESC/EACTS Guidelines for the management of valvular heart disease. Eur J Cardiothorac Surg rgerly 2025, 67(8).



Klotz, Journal of thoracic cardiovascular surgery, 2018, 155. and4: 1403-1411. e1.



Záchovné operace aortální chlopně vs. Bentall

Systematic review and meta-analysis of surgical outcomes in Marfan patients undergoing aortic root surgery by composite-valve graft or valve sparing root replacement

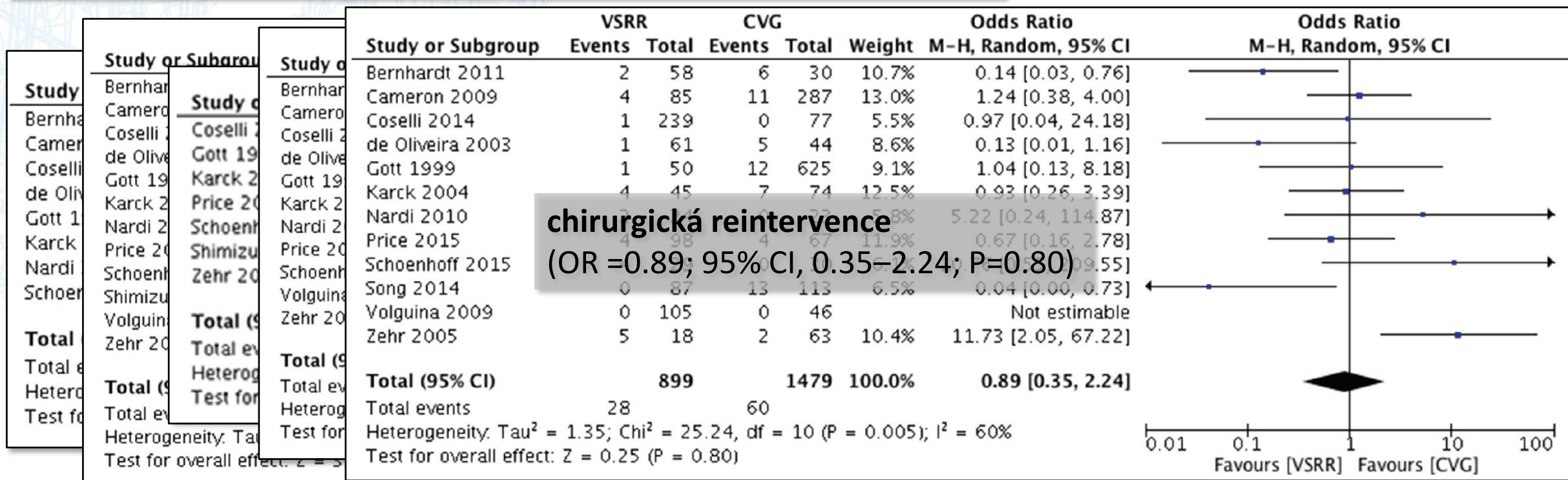
Campbell D. Flynn¹, David H. Tian², Ashley Wilson-Smith², Tirone David³, George Matalanis⁴, Martin Misfeld⁵, Stefano Mastrobuoni⁶, Gebrine El Khoury⁶, Tristan D. Yan^{2,7,8}

23 studií

2976 pts s Marfan syndromem

1352 VSRR vs. 1624 Bentall

Ø FU VSRR 4,5 roků vs. Bentall 7,14 roků

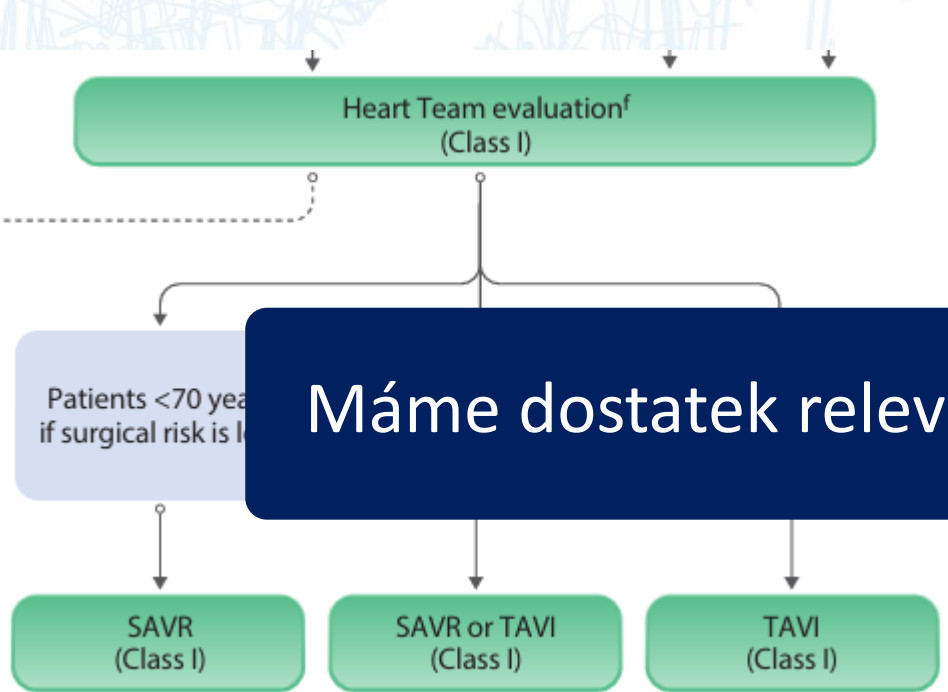


ESC Guidelines - aortální stenóza

TAVI is recommended in older patients (≥ 75 years), or in those who are high risk (STS-PROM/EuroSCORE II $> 8\%$) or unsuitable for surgery.

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	A	TAVI is recommended in patients ≥ 70 years of age with tricuspid AV stenosis, if the anatomy is suitable.	I	A
I	B	SAVR is recommended in patients < 70 years of age, if the surgical risk is low.	I	B



Máme dostatek relevantních dat pro snižování věku pro TAVI?

Favours SAVR

Favours TAVI

< 70 years Age ≥ 70 years

- Hostile annulus or LVOT calcification
- Bicuspid aortic valve

Anatomic

- Transfemoral access suitable for TAVI
- Porcelain aorta

Lifetime management^b

Anticipate repeat procedure options and risks, when selecting modality and valve type at index procedure

Redo SAVR: risk of redo surgery
SAVR after TAVI: increased risk associated with THV explantation
Valve-in-valve TAVI: risk of coronary obstruction, impaired coronary access, prosthesis-patient mismatch

ESC Guidelines - aortální stenóza

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

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

TAVI is recommended in patients ≥ 70 years of age with tricuspid AV stenosis, if the anatomy is suitable.

I

A

Transcatheter Aortic-Valve Replacement in Low-Risk Patients at Five Years

M.J. Mack, M.B. Leon, V.H. Thourani, P. Pibarot, R.T. Hahn, P. Genereux, S.K. Kodali, S.R. Kapadia, D.J. Cohen, S.J. Pocock, M. Lu, R. White, M. Szerlip, J. Ternacle, S.C. Malaisrie, H.C. Herrmann, W.Y. Szeto, M.J. Russo, V. Babaliarios, C.R. Smith, P. Blanke, J.G. Webb, and R. Makkar, for the PARTNER 3 Investigators*

5-Year Outcomes After Transcatheter or Surgical Aortic Valve Replacement in Low-Risk Patients With Aortic Stenosis

John K. Forrest, MD,^a Steven J. Yakubov, MD,^b G. Michael Deeb, MD,^c Hemal Gada, MD,^d Mubashir A. Mumtaz, MD,^d Basel Ramlawi, MD,^e Tanvir Bajwa, MD,^f John Crouch, MD,^f William Merhi, DO,^g Stephane Leung Wai Sang, MD,^g Neal S. Kleiman, MD,^h George Petrossian, MD,ⁱ Newell B. Robinson, MD,ⁱ Paul Sorajja, MD,^j Ayman Iskander, MD,^k Pierre Berthoumieu, MD,^l Didier Tchétché, MD,^l Christopher Feindel, MD,^m Eric M. Horlick, MD,^m Shigeru Saito, MD,ⁿ Jae K. Oh, MD,^o Yoojin Jung, PhD,^p Michael J. Reardon, MD,^h the Low Risk Trial Investigators*

Transcatheter or Surgical Treatment of Aortic-Valve Stenosis

S. Blankenberg, M. Seiffert, R. Vonthein, H. Baumgartner, S. Bleiziffer, M.A. Borger, Y.-H. Choi, P. Clemmensen, J. Cremer, M. Czerny, N. Diercks, I. Eitel, S. Ensminger, D. Frank, N. Frey, A. Hagendorff, C. Hagl, C. Hamm, U. Kappert, M. Karck, W.-K. Kim, I.R. König, M. Krane, U. Landmesser, A. Linke, L.S. Maier, S. Massberg, F.-J. Neumann, H. Reichenspurner, T.K. Rudolph, C. Schmid, H. Thiele, R. Twerenbold, T. Walther, D. Westermann, E. Xhepa, A. Ziegler, and V. Falk, for the DEDICATE-DZHK6 Trial Investigators*

Praz, *European heart journal*, 2025, 46: 4635-4736

Mack, *NEJM*, 2023, 389.21: 1949-1960

Forrest, *JACC*, 2025, 85.15: 1523-1532

Blankenberg, *NEJM*, 2024, 390.17: 1572-1583

Předpokládaná délka života

RCT s 5 letými výsledky

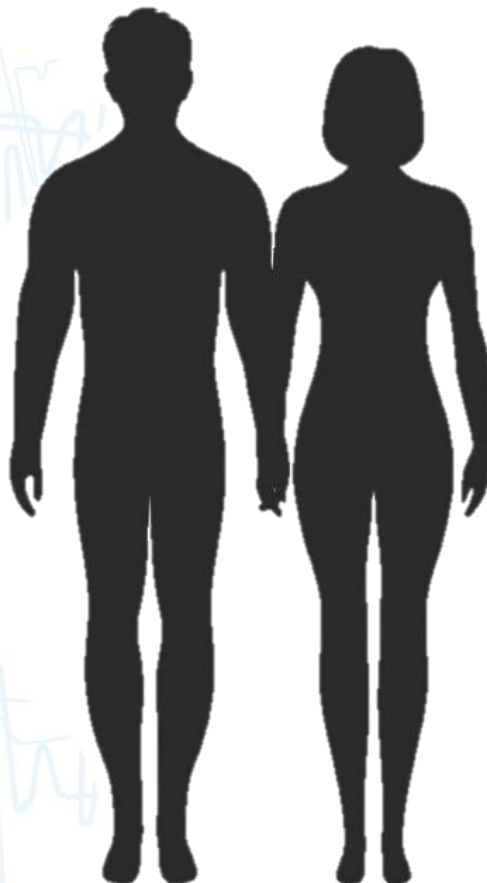
X

střední délka života (2024)

muž 77,2 žena 83,1 let

předpokládané dožití

Věk	muži	ženy
65 let	17,0	20,7
70 let	13,5	16,6
75 let	10,5	12,9



bikuspidní chlopeň

Věk	BAV
50 let	70 %
60 let	59 %
70 let	42 %
80 let	28 %

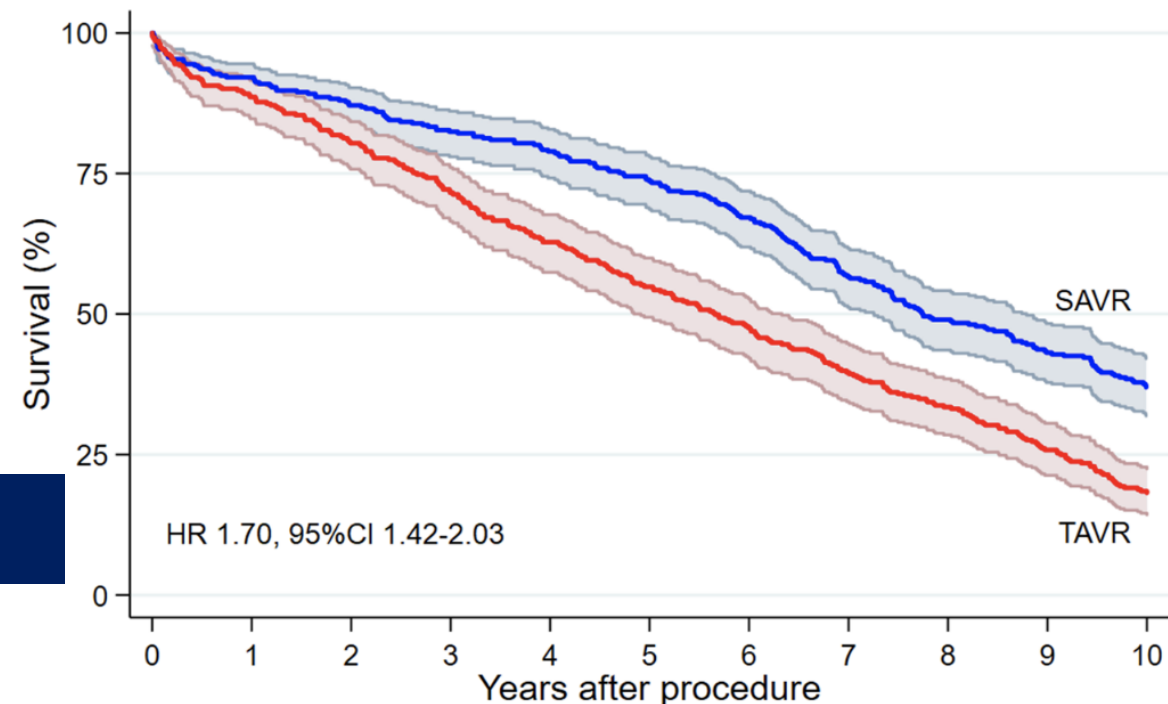
OBSERVANT study - 10 let u nízkorizikových

Ten-year outcomes after transcatheter or surgical aortic valve replacement in low-risk patients: The OBSERVANT study

Fausto Biancari^{a,*}, Paola D'Errigo^b, Marco Barbanti^{c,d}, Gabriella Badoni^b, Corrado Tamburino^e, Gianluca Polvani^{a,f}, Giuliano Costa^e, Giovanni Baglio^g, Stefano Rosato^b

PSM – 355 SAVR vs. 355 TAVI
Ø věk 80 let
signifikanční rozdíl v přežívání od 3. roku
10leté přežívání 37,0% vs 18,2% (p < 0,001)

limitem není věk, ale “rizikovost” pacienta



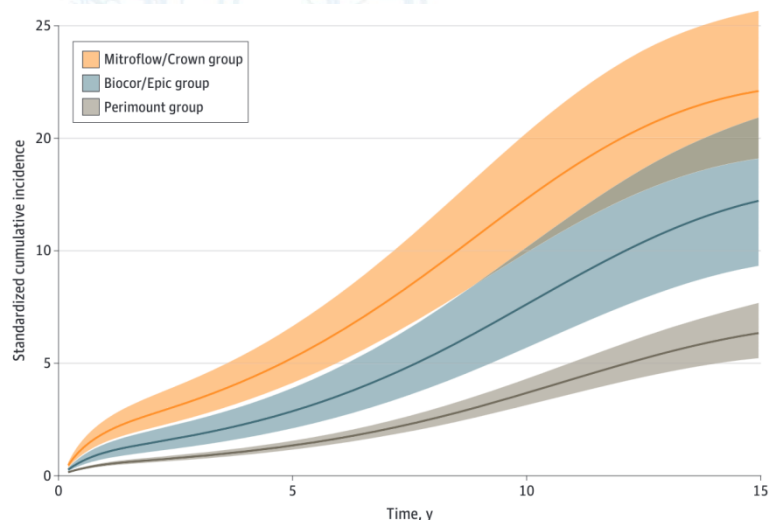
Dlouhodobá trvanlivost biochlopní

Original Investigation | Cardiology

Comparison of Long-term Performance of Bioprosthetic Aortic Valves in Sweden From 2003 to 2018

Michael Persson, MD; Natalie Glaser, MD, PhD; Johan Nilsson, MD, PhD; Örjan Friberg, MD, PhD; Anders Franco-Cereceda, MD, PhD; Ulrik Sartipy, MD, PhD

SWEDHEART; 2003-2018, n=16 983 bioSAVR
věk 72,6 ± 8,5
Perimount
reintervence 3,6%/10 letech, 6,1%/15 letech

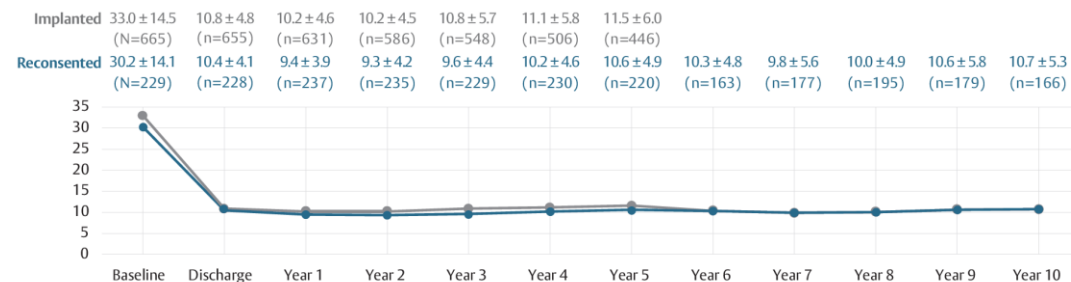


Persson, 8. JAMA Network Open, 2022, 5.3: e220962-e220962.
 Svensson, JTCS, 171, 4, 2026, S18-S19,

27. Long-Term Outcomes Following Aortic Valve Replacement with a Novel Tissue Bioprosthesis: 10-Year Results from the COMMENCE Trial

Lars Svensson¹, Eugene Blackstone¹, Joseph Bavaria², Bartley Griffith³, Thomas Beaver⁴, Nimesh Desai⁵, Philippe Pibarot⁶, Michael Borger⁷, Vinod Thourani⁸, John Puskas⁹

bioSAVR Inspiris Resilia, n = 102
věk 65,1 ± 10,9
SVD
reintervence 2,2%/10 letech

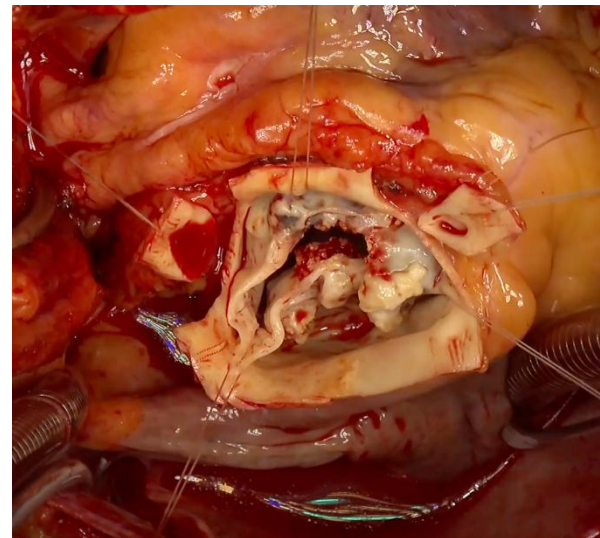
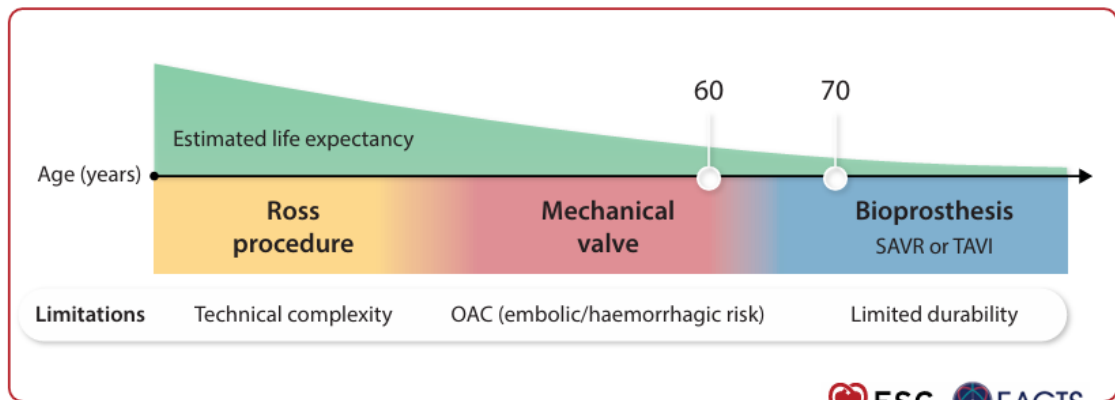


Guidelines - Rossova operace

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ESC GUIDELINES

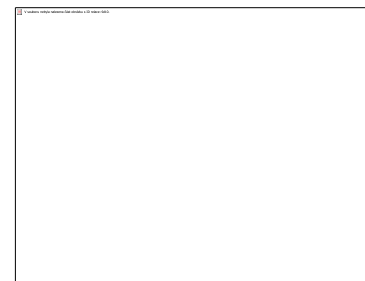
2025 ESC/EACTS Guidelines for the management of valvular heart disease



mAVR

Ross

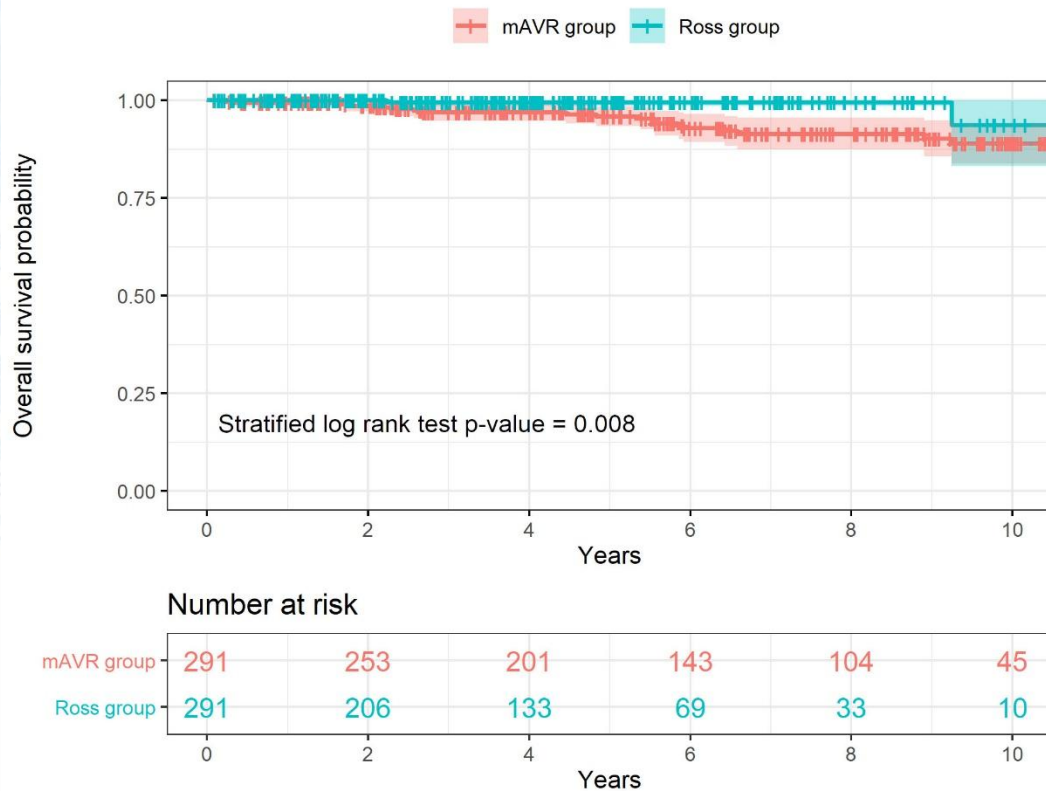
Replacement of the AV using an autograft (Ross procedure) is an alternative to an MHV in young patients that should be performed at experienced centres by operators with dedicated expertise (see also Section 8).⁸⁰⁶ General recommendations are summarized in



Rossova operace

Ross procedure provides survival benefit over mechanical valve in adults: a propensity-matched nationwide analysis

Jan Gofus ^a, Petr Fila ^{b,*}, Svetlana Drabkova ^c, Pavel Zacek ^a, Jiri Ondrasek ^b, Petr Nemecek ^b, Jan Sterba ^b, Martin Tuna ^a, Jiri Jarkovsky ^c and Jan Vojacek ^a



Ross - Brno, Hradec Králové N=296

mAVR v ČR N=5120

propensity score matching

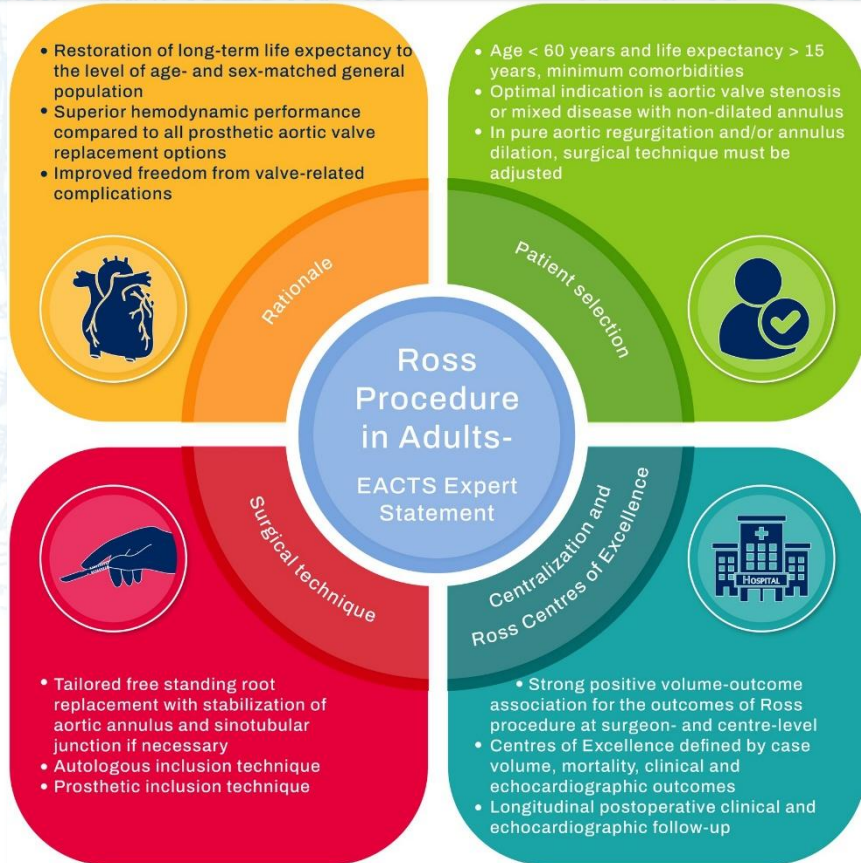
291 vs 291 pts

- Ross - nižší mortalita (0,7 vs 6,5 %; p=0,015)
- přežívání - 100 % vs 95,9 % - 5 leté
93,6 % vs 88,9 % - 10 leté (p=0,008)
- 10 leté přežívání - Ross - **podobné běžné populace**
- mAVR - **významně redukováno**

Rossova operace - co je nového?

EACTS Expert Consensus Statement on the Ross Procedure in Adult Patients

Jan Vojacek¹, Jan Gofus¹, Martin Andreas², Joseph E. Bavaria³, Denis Berdajs⁴, Filip P. A. Casselman⁵, Ismail El-Hamamsy⁶, Tomas Holubec⁷, Laurent de Kerchove⁸, Milan Milojevic^{9,10}, Leonardo Mulinari¹¹, Maral Ouzounian¹², Peter Skillington¹³, Johanna J. M. Takkenberg¹⁴, Peter Verbrugghe¹⁵, EACTS Scientific Document Group



Co?

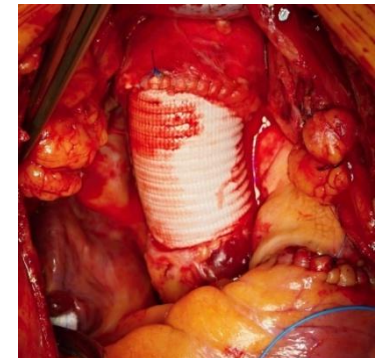
- vynikající hemodynamické vlastnosti
- dlouhodobé přežití
- kvalita života

Pro koho?

- pod 50let (60 let), s dlouhou life-expectancy, minimem komorbidit
- AoS, stenosinsuficienece bez dilatovaného anulu
- AoR/dilatací anulu - techniky ke stabilizaci autograftu

Kde a jak?

- centralizace/asociace na chirurga
- dlouhodobé sledování
- dlouhodobá péče o pacienty - korekce TK!



ESC Guidelines



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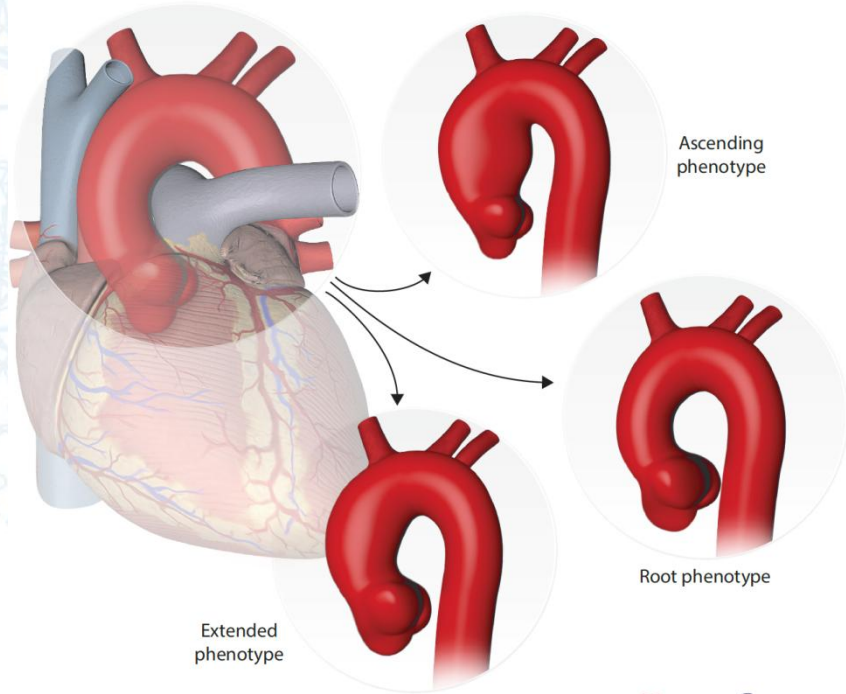
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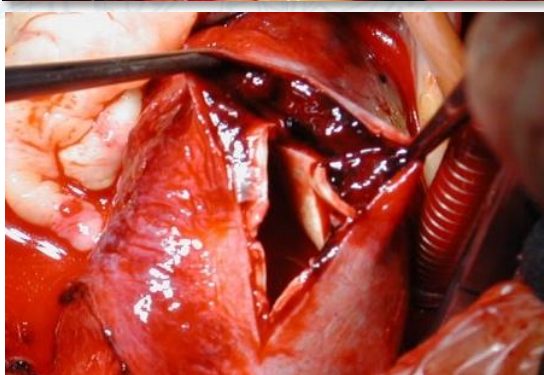
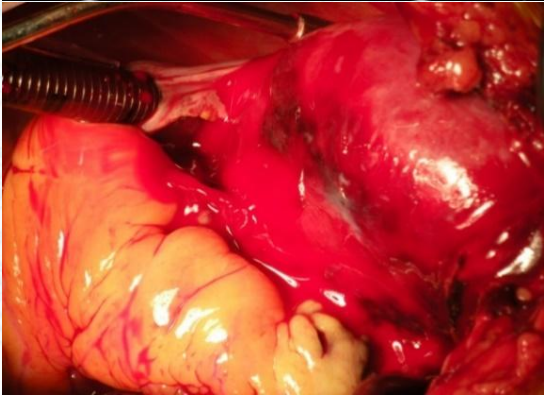
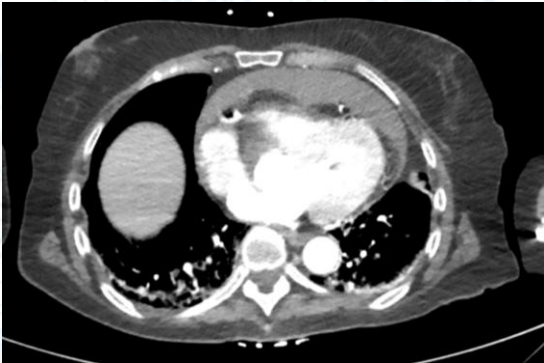
ESC Guidelines

2024 ESC Guidelines for the management of peripheral arterial and aortic diseases

- posun k nižším rozměrům/rizikovost pacienta
- nejen příčný rozměr
 - růst $\geq 3\text{mm/rok}$
 - rezistentní hypertenze
 - výška postavy $<1,69\text{m}$
 - kořenový fenotyp
 - délka asc. aorty $>11\text{cm}$
 - věk <50 let
 - plánované těhotenství
 - anamnéza akutního aortálního syndromu



Cíl? Zabránit dilataci/disekci!



- 20-50% zemře, než se dostane do nemocnice/kardiochirurgii
- 50 % neléčených typ A zemře do 48 hod - mortalita 1-2 % / hod
- 30 denní mortalita po operaci 5-24%

Mahase, BMJ 2020; 368 :m304

Gudbjartsson,. Scandinavian Cardiovascular Journal, 2020, 54.1: 1-13.

Predikce disekce aorty typu A

JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY
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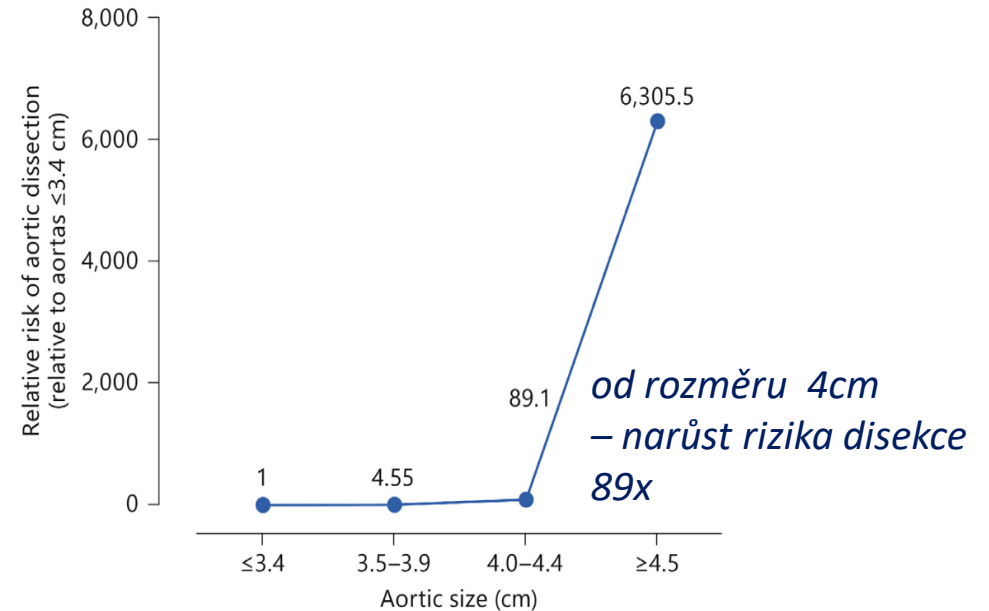
VOL. 80, NO. 24, 2022

CLINICAL PRACTICE GUIDELINE

2022 ACC/AHA Guideline for the Diagnosis and Management of Aortic Disease



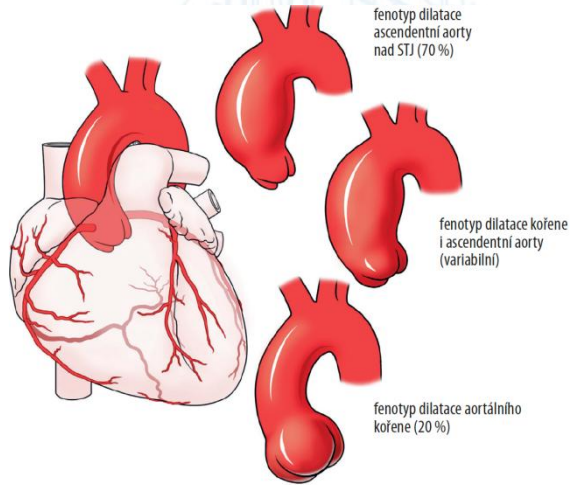
FIGURE 5 Relative Risk of Aortic Dissection by Size Range



The relative risk of aortic dissection begins to increase appreciably at a diameter of 4.0 cm to 4.4 cm and then increases dramatically at a diameter of ≥4.5 cm. Reprinted from Paruchuri et al.⁵ Copyright 2005, with permission from Karger Publishers, Basel Switzerland.

- In asymptomatic patients with aneurysms of the aortic root or ascending aorta who have a maximum diameter of ≥5.0 cm, surgery is reasonable when performed by experienced surgeons in a Multidisciplinary Aortic Team.¹⁴⁻¹⁷

Hranice pro výkon na aortě



- Marfan + RF (IIa)
- výkon na Ao chlopni

- Marfan (I)
- BAV root (I)
- BAV asc. + RF (IIa)
- TAV root low-risk (IIa)

- izolované aneurysma
- BAV asc. (I)
- TAV (I)



- PRKG1 + RF

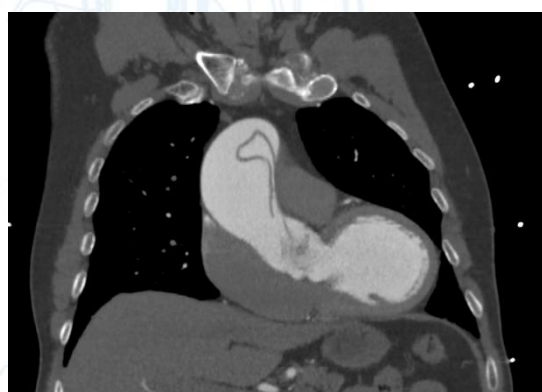
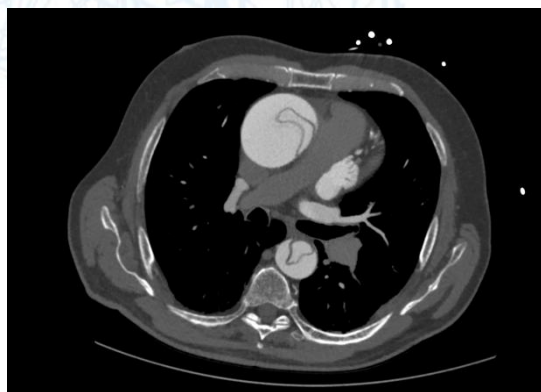
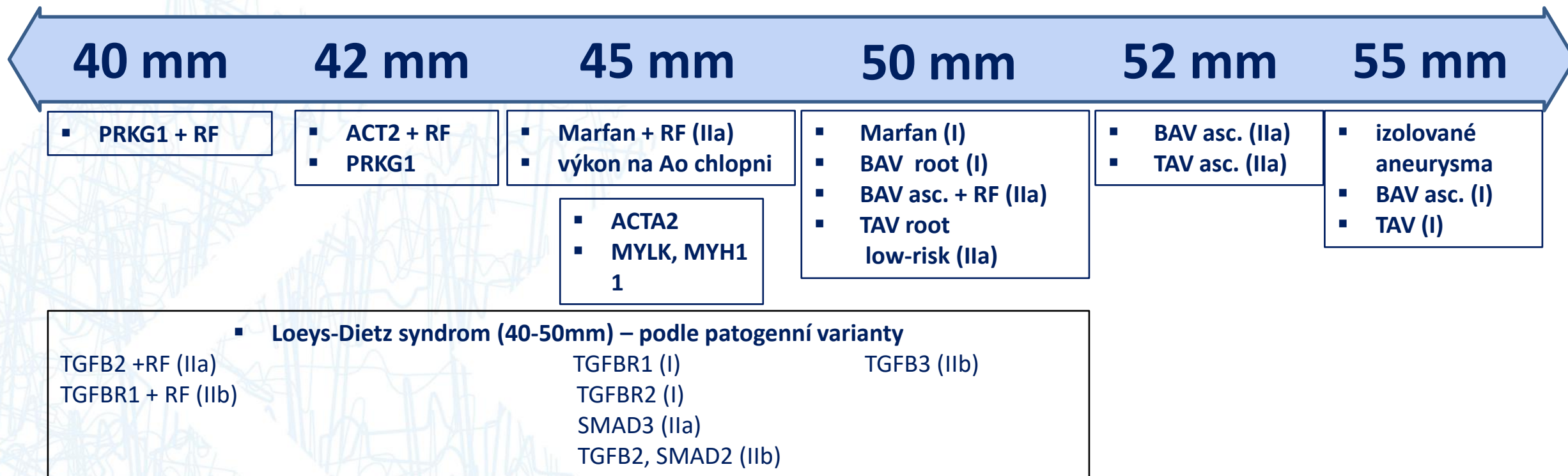
- ACT2 + RF
- PRKG1

- ACTA2
- MYLK, MYH1
1

- BAV asc. (IIa)
- TAV asc. (IIa)

- Loeys-Dietz syndrom (40-50mm) – podle patogenní varianty
 - TGFB2 +RF (IIa)
 - TGFBR1 + RF (IIb)
 - TGFBR1 (I)
 - TGFBR2 (I)
 - SMAD3 (IIa)
 - TGFB2, SMAD2 (IIb)
 - TGFB3 (IIb)

Hranice pro výkon na aortě

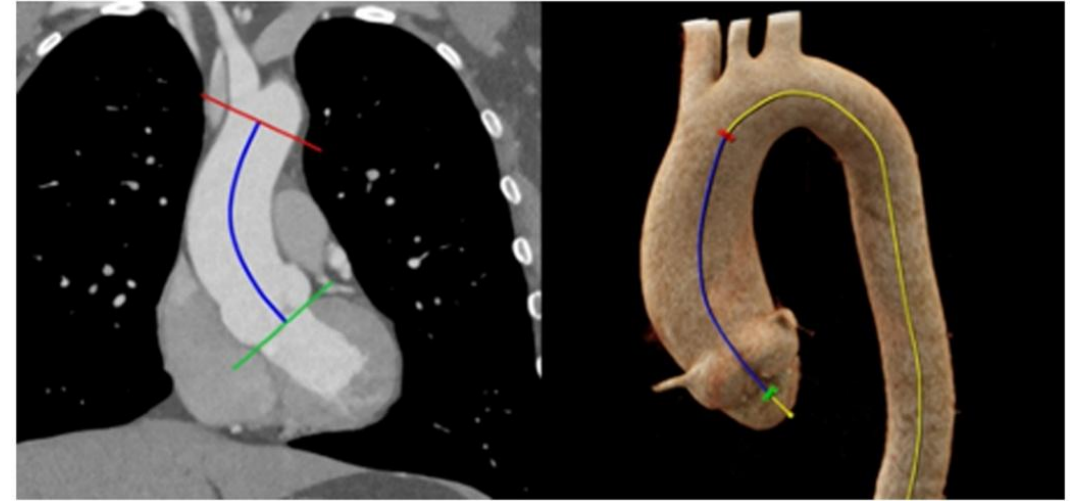


**Nejen dilatace (příčný rozměr) aorty!
Co dalšího hraje roli?**

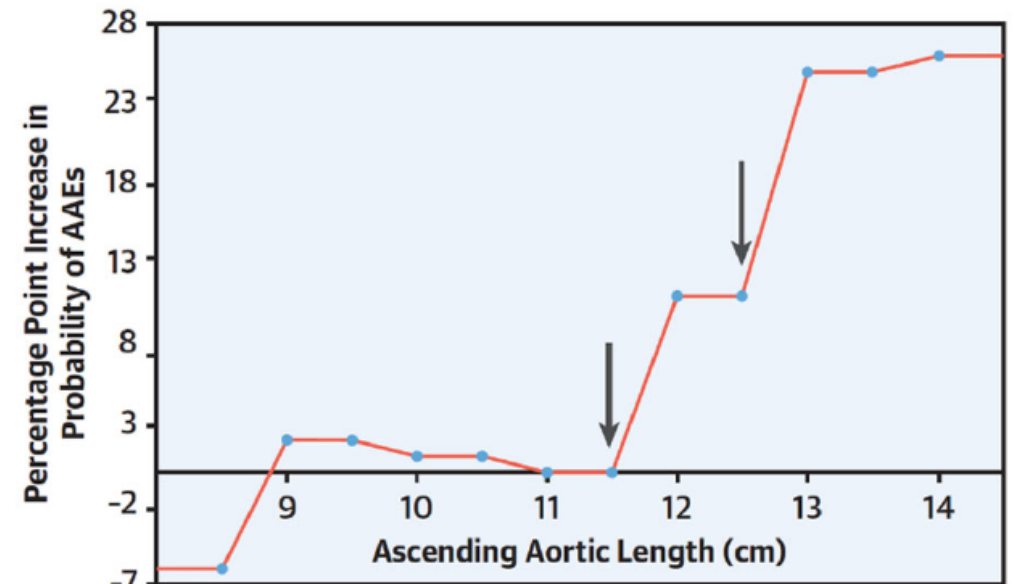
Riziko elongace aorty

EACTS/STS Guidelines for diagnosing and treating acute and chronic syndromes of the aortic organ

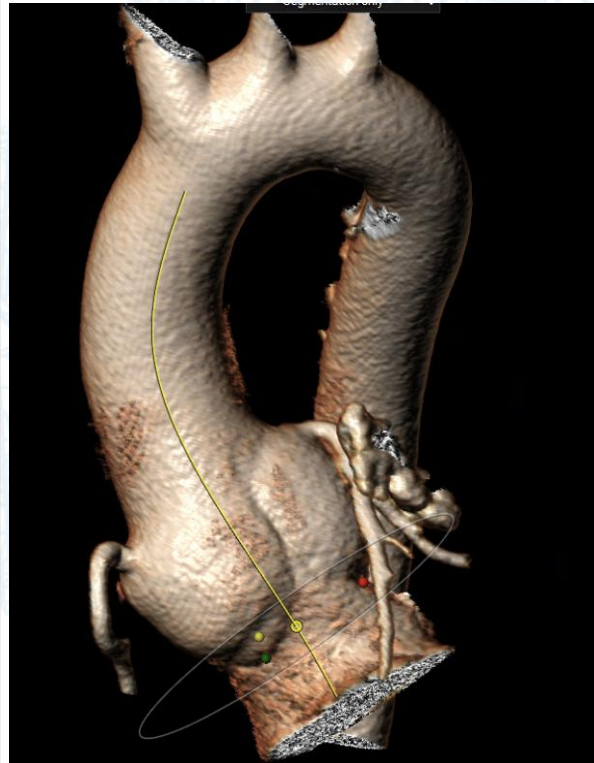
Authors/Task Force Members: Martin Czerny ^{a,b,*†} (Co-Chairperson) (Germany), Martin Grabenwöger ^{c,d,*†} (Co-Chairperson) (Austria), Tim Berger ^{a,b} (Task Force Coordinator), Victor Aboyans ^{e,f} (France), Alessandro Della Corte ^{g,h} (Italy), Edward P. Chen ⁱ (USA), Nimesh D. Desai ^j (USA), Julia Dumfarth ^k (Austria), John A. Elefteriades ^l (USA), Christian D. Etz ^m (Germany), Karen M. Kim ⁿ (USA), Maximilian Kreibich ^{a,b} (Germany), Mario Lescan ^o (Germany), Luca Di Marco ^p (Italy), Andreas Martens ^{q,r} (Germany), Carlos A. Mestres ^s (South Africa), Milan Milojevic ^t (Serbia), Christoph A. Nienaber ^{u,v} (UK), Gabriele Piffaretti ^w (Italy), Ourania Preventza ^x (USA), Eduard Quintana ^y (Spain), Bartosz Rylski ^{a,b} (Germany), Christopher L. Schlett ^{b,z} (Germany), Florian Schoenhoff ^{aa} (Switzerland), Santi Trimarchi ^{ab} (Italy) and Konstantinos Tsagakis ^{ac} (Germany), EACTS/STS Scientific Document Group



Recommendations	Class ^a	Level ^b	Ref ^c
Surgery should be considered for a symptomatic aneurysm of the ascending aorta, almost independently of size (once non-aortic causes have been eliminated).	IIa	C	-
For individuals of small body size, height nomograms should be considered in the decision about indications for surgery at various aortic dimensions.	IIa	B	[340]
An ascending aortic length exceeding 110 mm should be considered as a risk factor for aortic events when indicating elective surgery for aortic aneurysms.	IIa	B	[196]
Despite metrics and precision criteria, the benefits and risks of surgical intervention versus nonoperative management should be considered on a case-by-case basis.	IIa	C	-



Posun k preventivní chirurgické léčbě - individualizované řešení

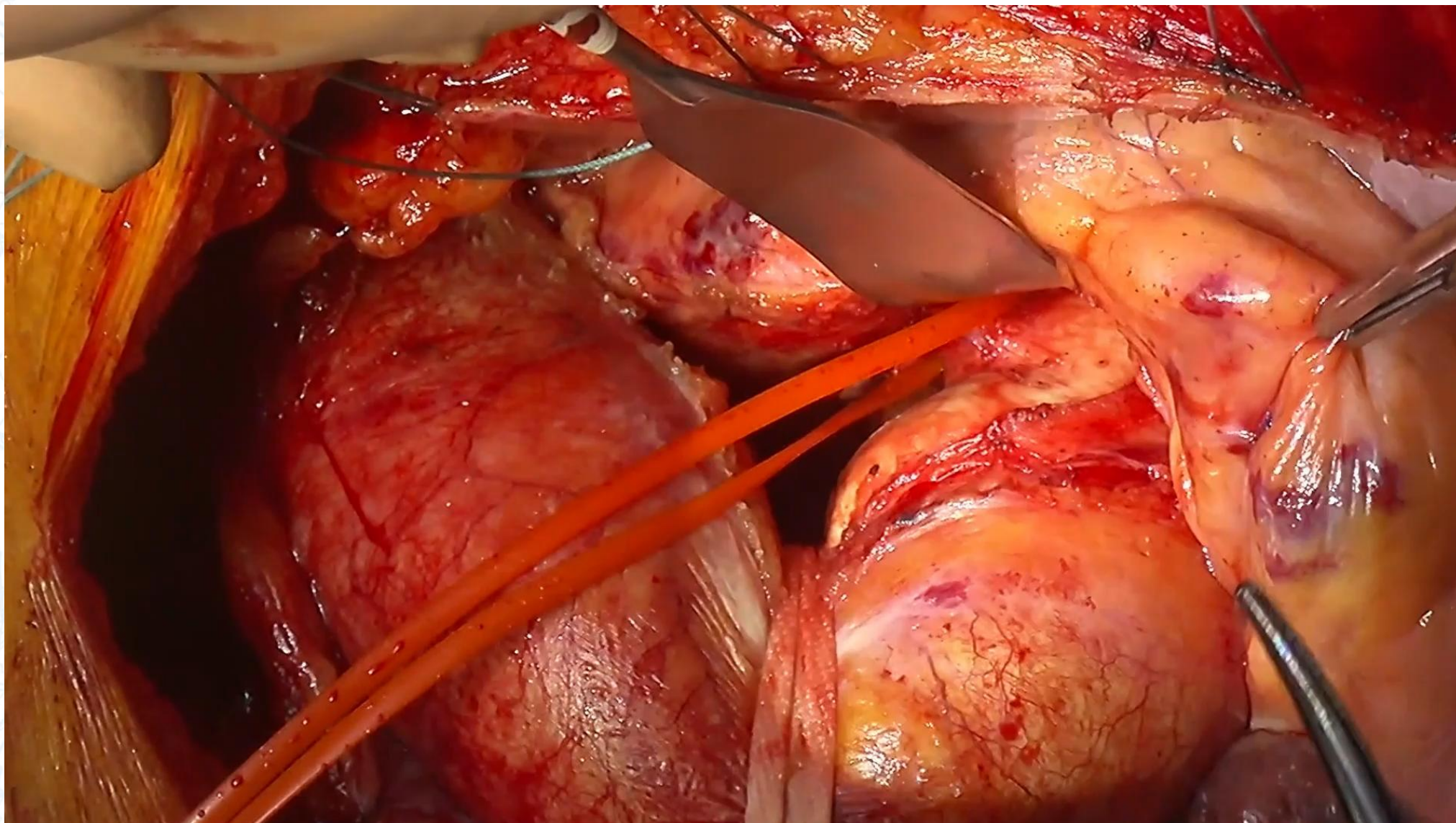


- PEARs - Personalised External Aortic Root Support
- polyesterová síťka kolem kořene a ascendentní aorty
- individualizace tvaru dle CT
- preventivní/kurativní výkon



Implantace PEARS

kmen ACS
kmen ACD

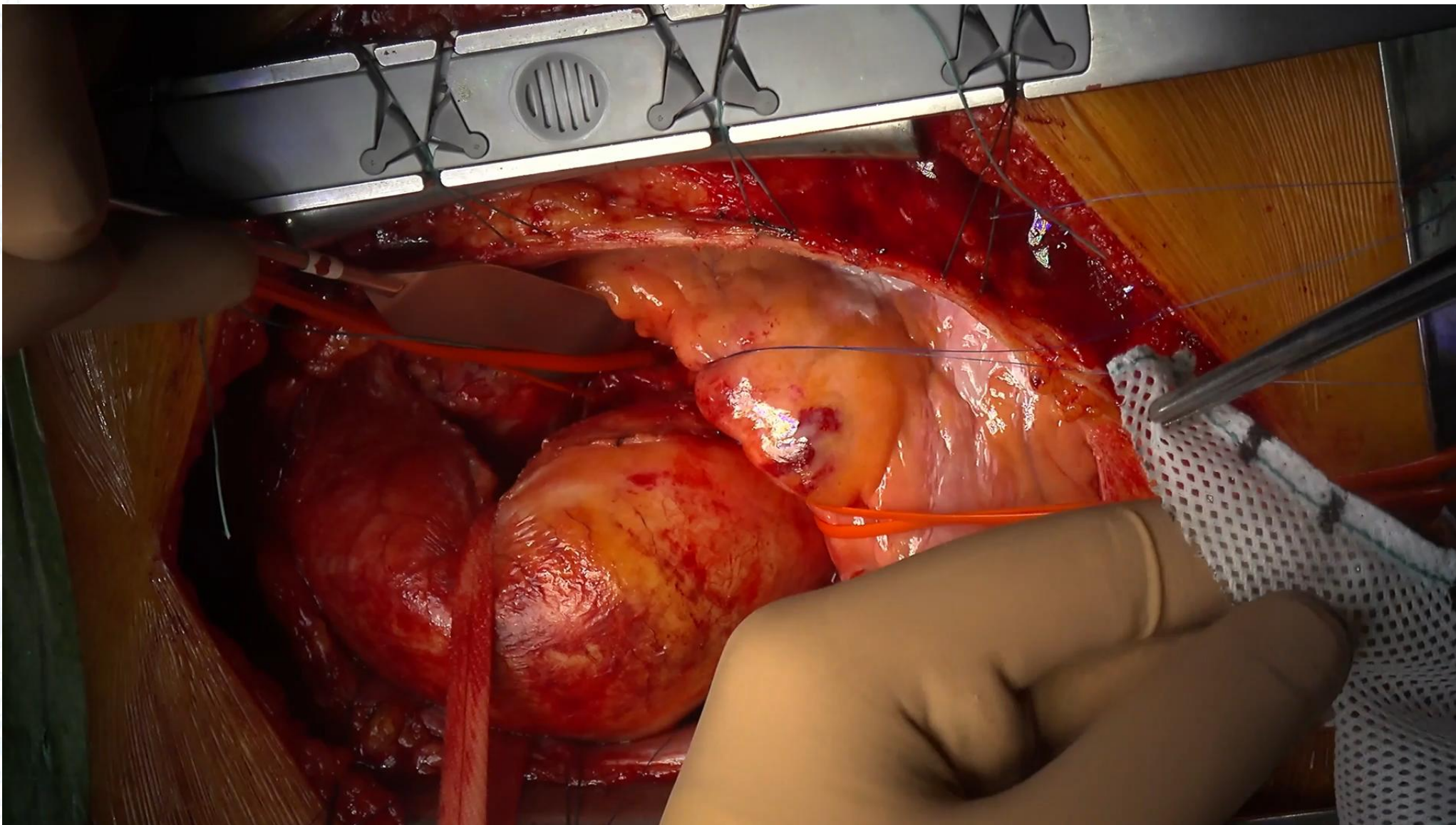


Implantace PEARS



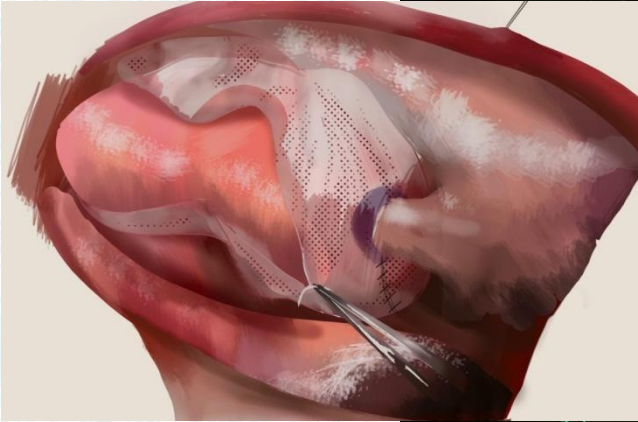
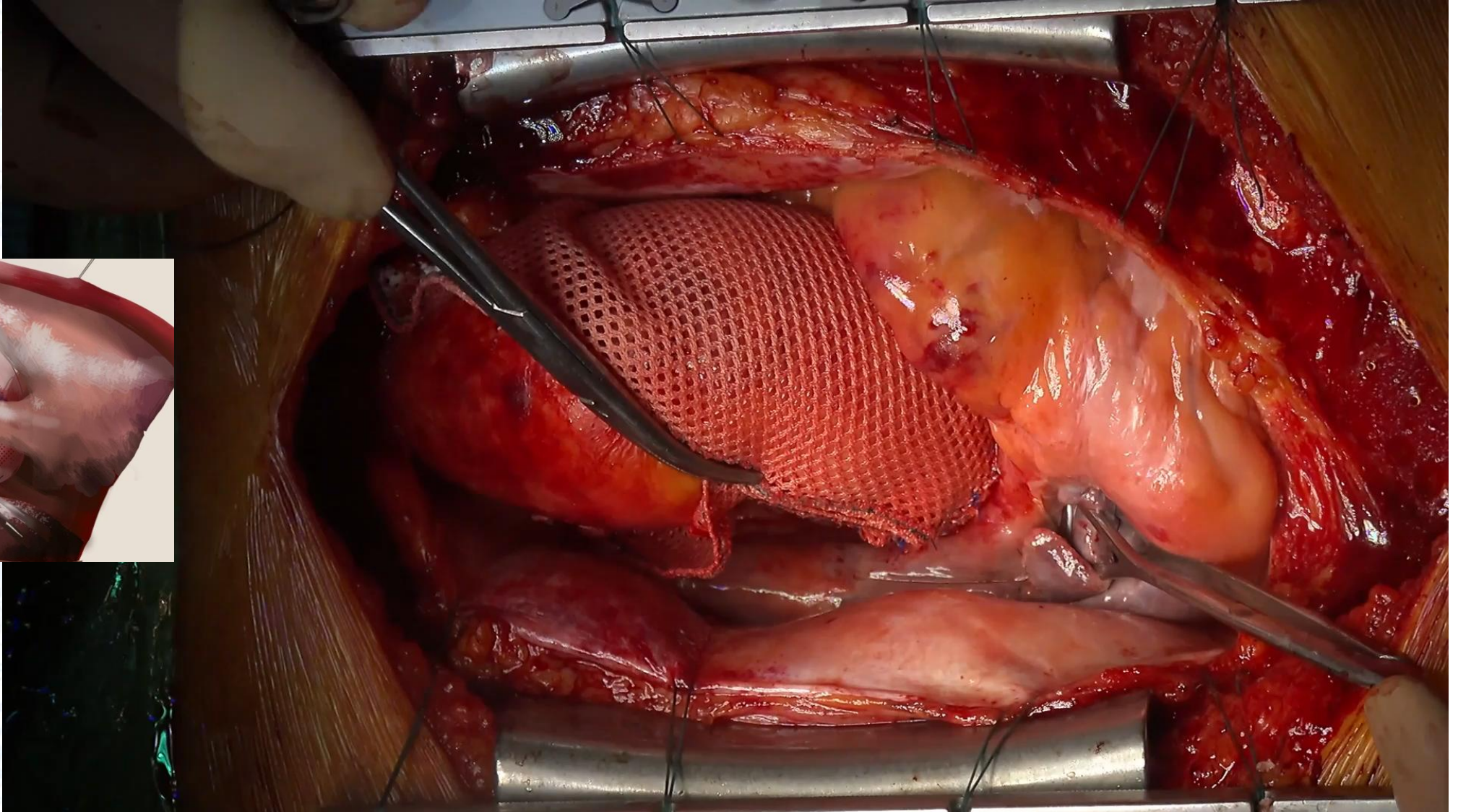
Implantace PEARS

Exovasc
umístění



Implantace PEARS

sutura švu



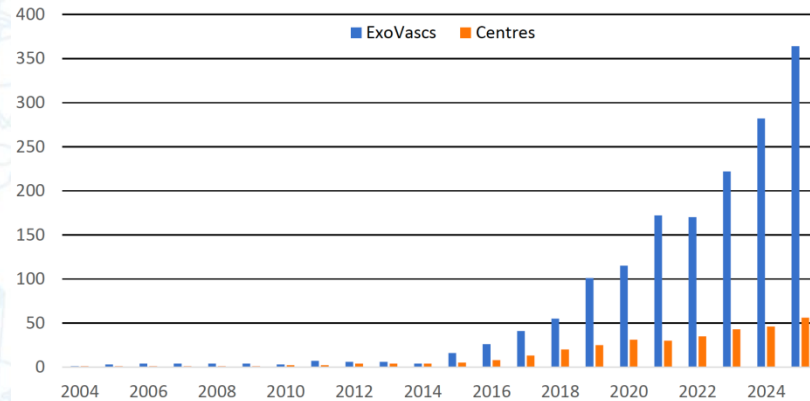
PEARS - celosvětový report

27. dubna 2026

n = 1769 (479 žen, 1290 mužů), 3-84 let

MFS, bikuspidní aortopatie, L-D sy, Turner sy, E-D sy, MYBCP3, ACTA2 mutace, TGA, Ross/PEARS

79% bez mimotělního oběhu



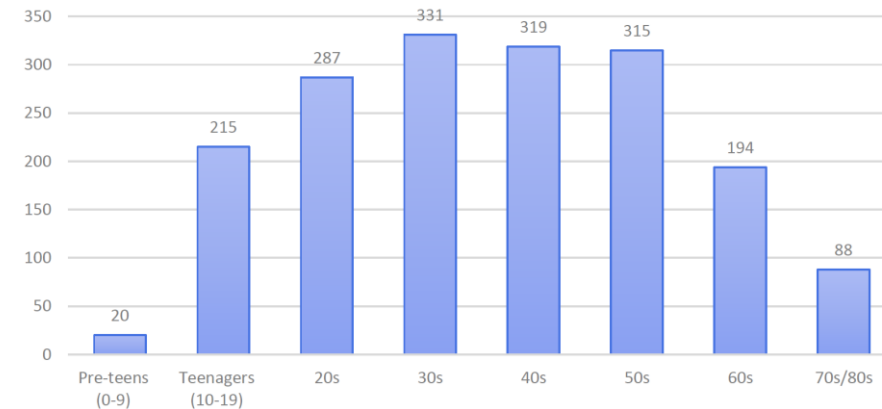
7 pacientů > 20 let

68 pacientů > 10 let

446 pacientů > 5 let

15 žen - 16 narozených dětí

bez akutní disekce (pokryté části) u implantovaných pacientů



Shrnutí

Záchovné operace

- náhrada dilatované aorty + korekce chlopenní vady
- fungující/opravená chlopeň je vždy lepší než náhrada

Aortální stenóza

- SAVR vs. TAVI - posuzovat rizikovost více než pouze věk
- naděje na dožití a life-time management

Rossova operace

- jediná náhrada aortální chlopně - zachování přežívání běžné populace
- ano, ale... NE VŠEM, NE VŠUDE, NE KÝMKOLI

Aneurysma aorty

- němé/agresivní onemocnění
- nečekat na příznaky = problém

PEARS

- pacientovi na míru, prevence fatální komplikace
- včasné řešení

