



# INFEKČNÁ ENDOKARDITÍDA PO ORTOTOPICKEJ TRANSPLANTÁCII SRDCA



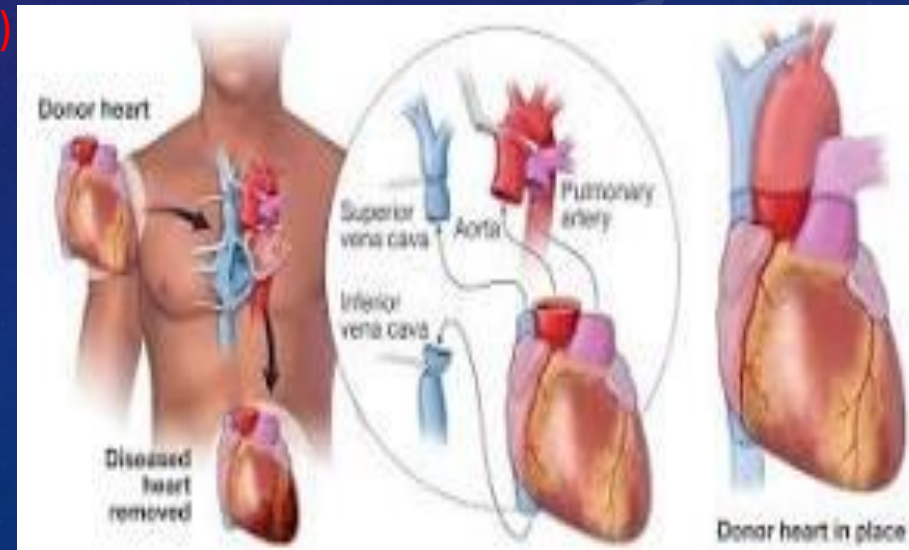
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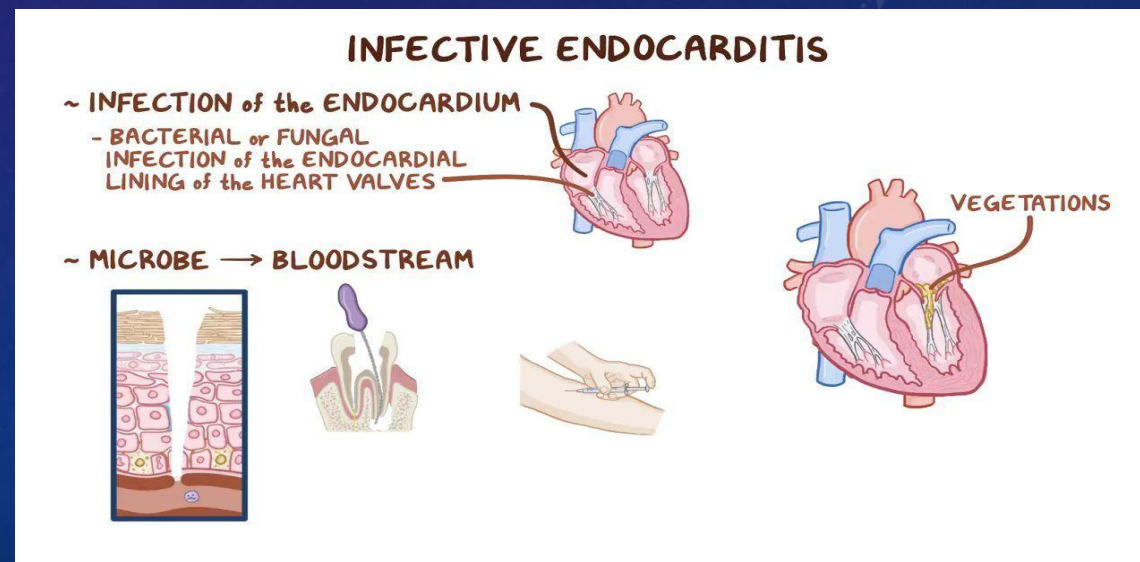
## Transplantácia srdca

- „Zlatý“ štandard liečby pokročilého srdcového zlyhávania pri absencii KI
- 1. transplantácia na svete Christiaan Barnard 3. decembra 1967 v Kapskom meste. (JAR)
- V SR 1. úspešná transplantácia srdca (HTx) 20.-21.3.1998 (NUSCH BA a.s.)
- Od r. 1998 do marca 2023 418 transplantácií
- Za r. 2020 napriek pandémie COVID 19 25 HTx/rok



- **Infekčná endokarditída**

- 1. pred 450 rokmi popísal francúzsky lekár Jean François Fernel
- Incidencia 3-10 prípadov/100 000 obyvateľov/rok
- Mortalita vysoká 14-22% , do 10 rokov dosahuje 51%
- Etiologický agens: viridujúce streptokoky, stafylokoky(nárast v poslednom období), enterokoky, HACEK





# IE po HTx literárny prehľad

- **IE po HTx**
- Vo Philadelphii (USA) za 30 rokov realizovali 659 HTx
- Z toho 10 pacientov malo dg IE
- Etiologický agens: *Staphylococcus aureus* (4 prípady) and *Aspergillus fumigatus* (1 prípad)
- Faktory asociované s infekciou St. aureus: hemodialyzačný katéter, celulitída, kontaminovaný donorský orgán
- Priemerná doba prežívania v skupine HTx s IE významne kratšia v porovnaní s HTx bez IE (1,4 versus 9,3 roka  $p < 0.001$ )



# IE po HTx literárny prehľad

The screenshot shows a web browser window with multiple tabs. The active tab is a ScienceDirect article page. The URL is <https://www.sciencedirect.com/science/article/abs/pii/S0955470X21000781?via%3Dihub>. The article title is "Infective endocarditis following heart transplantation: A systematic review", which is circled in red. The journal is "Transplantation Reviews", Volume 36, Issue 1, January 2022, 100672. The authors listed are Andrew M. Jordan, Robert Takam, Daniel Ahmad, Sonali V. Patel, Elizabeth J. Maynes, Matthew P. Weber, Sean Moss, Tricia L. Royer, Vakhtang Tchanchalashvili, H. Todd Massey, J. Eduardo Rame, and John J. Zurlo. The article is a review article. The page includes a table of contents on the left, a list of recommended articles on the right, and a "Highlights" section at the bottom. The "Highlights" section contains two bullet points: "Overall case fatality of infective endocarditis after heart transplantation is 44.6." and "Median time to presentation after transplantation is 8.4 months." The browser's taskbar at the bottom shows the time as 13:56 on 26.3.2023.

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Outline

- Highlights
- Abstract
- Keywords
- 1. Introduction
- 2. Methods
- 3. Results
- 4. Discussion
- 5. Conclusion

Funding and conflict of interest

Disclosures

Declaration of Competing Interest

Appendix A. Supplementary data

References

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Figures (2)

ELSEVIER

Transplantation Reviews  
Volume 36, Issue 1, January 2022, 100672

Review article

**Infective endocarditis following heart transplantation: A systematic review**

Andrew M. Jordan<sup>a</sup>, Robert Takam<sup>a</sup>, Daniel Ahmad<sup>a</sup>, Sonali V. Patel<sup>a</sup>, Elizabeth J. Maynes<sup>a</sup>, Matthew P. Weber<sup>a</sup>, Sean Moss<sup>b</sup>, Tricia L. Royer<sup>b</sup>, Vakhtang Tchanchalashvili<sup>a</sup>, H. Todd Massey<sup>a</sup>, J. Eduardo Rame<sup>c</sup>, John J. Zurlo<sup>b</sup>, Nana Aburjania<sup>b</sup>

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Highlights

- Overall case fatality of infective endocarditis after heart transplantation is 44.6%.
- Median time to presentation after transplantation is 8.4 months.

Recommended articles

Allotransplantation of donor rectus fascia for abdominal wall closure in transplant...  
Transplantation Reviews, Volume 35, Issue 4, 2021, Arti...  
Yveline Janssen, ..., Marc Miserez  
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A comprehensive review of coronary artery disease in patients with end-stage liver...  
Transplantation Reviews, Volume 36, Issue 3, 2022, Arti...  
Michael Dangl, ..., Cesar Mendoza  
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Future imaging modalities for the assessment of pancreas allografts a scan...  
Transplantation Reviews, Volume 36, Issue 2, 2022, A...  
D.T. Doherty, ..., D. van Dellen  
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13:56  
26.3.2023

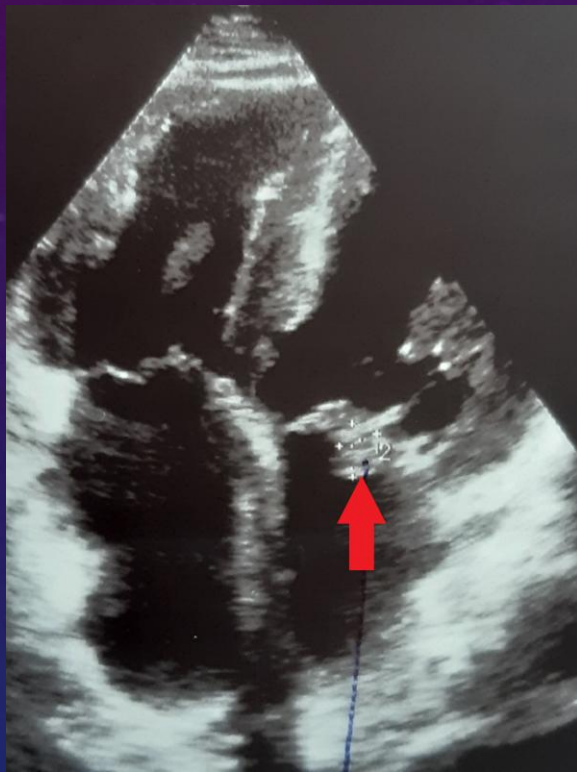








# 1. ECHO vyš. 19.5.2022



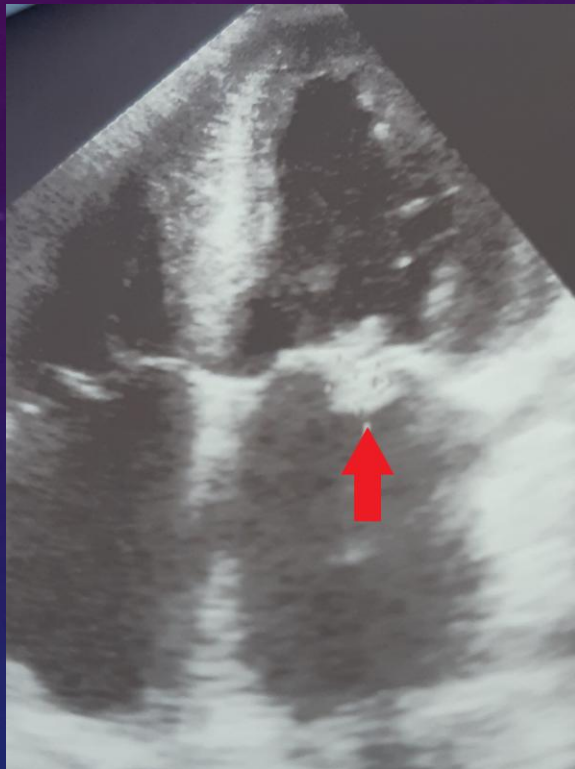
Pre zimnicu s triaškou počas dialýzy odobraté hemokultúry, pre signalizujúcu pozitivitu odoslaný na echo vyš.

**Transtorakálne ECHO:** na prednom cípe mitrálnej chlopne vlajúci útvar vegetácia veľkosti 13x9mm, **MiR II.-III.st.**, **TriR III.st.**, **TriVmax. 3.93m/s**, trikuspidálny reg. gradient 62mmHg, kalkul.sPAP 67mmHg

parameter	výsledok
leukocyty	8,2...7,1...6,9...7,6...13,3...7,9...6,7
erythrocyty	4,25...4,21...4,33...4,10...4,52...3,80
hemoglobín	115,0...116,0...111,0...122,0...102,0...106,0...101,0...104,0...97,0...95,0
trombocyty	146...124...135...118...109...102...122
urea	20,7...20,3...22,4...22,5...15,3... 13,6
kreatinín	877,7...924,9...904,8...989,8...768,1
NT-BNP	52922...57316...48634...43390...>70000...>70000
CRP	48,94...38,76...14,76...27,36...147,44...153,85...90,43...56,07...103,52...94,29...53,49...18,86
prokalcitonín	1,440...0,867...0,358...0,846...0,538...0,388...0,506...0,255...0,504...0,213
AST	0,16...0,20...0,32...0,36...0,23...0,21
ALT	0,30...0,29...0,31...0,34...0,28...0,36
GMT	3,03...2,49...1,86...2,13...2,07...2,62
ALP	2,65...2,08...1,84...2,17...2,28...2,50...2,48
Na	138,0...137,0...138,0...138,0...135,0...137,0
K	5,18...4,75...4,22...4,68...5,40...4,56...5,04
Chl	103,0...104,0...109,0...103,0...98,7...103,0



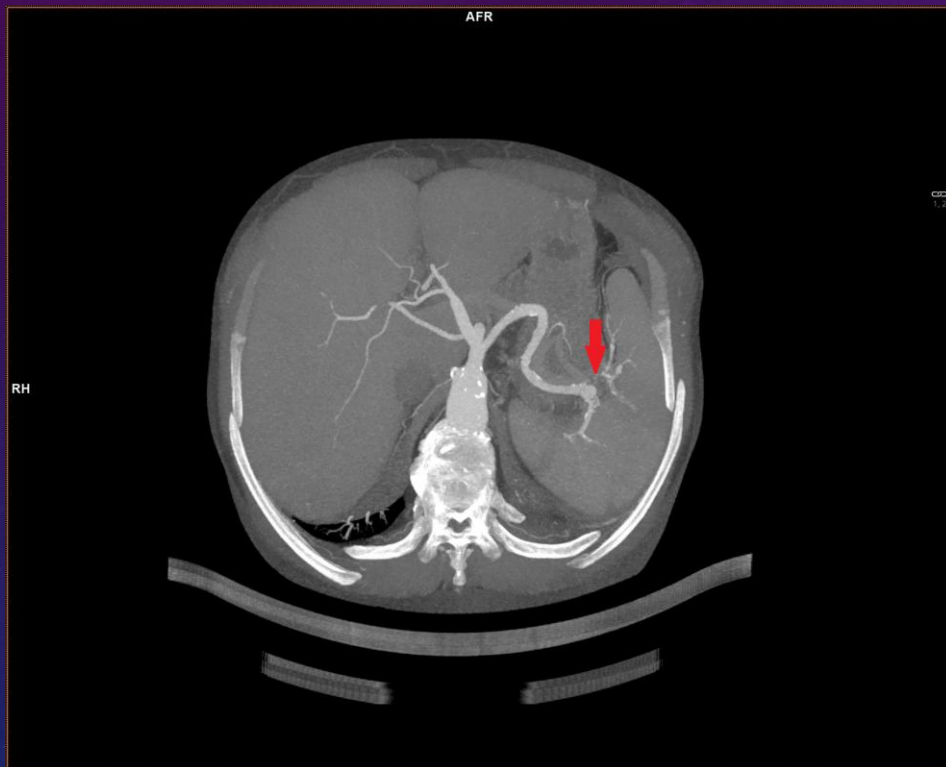
# Kontrolné transtorakálne ECHO vyš. 2.6.2022



- 4 dutinová apikálna projekcia:
- pretrvávajúca vegetácia na prednom cípe mitrálnej chlopne

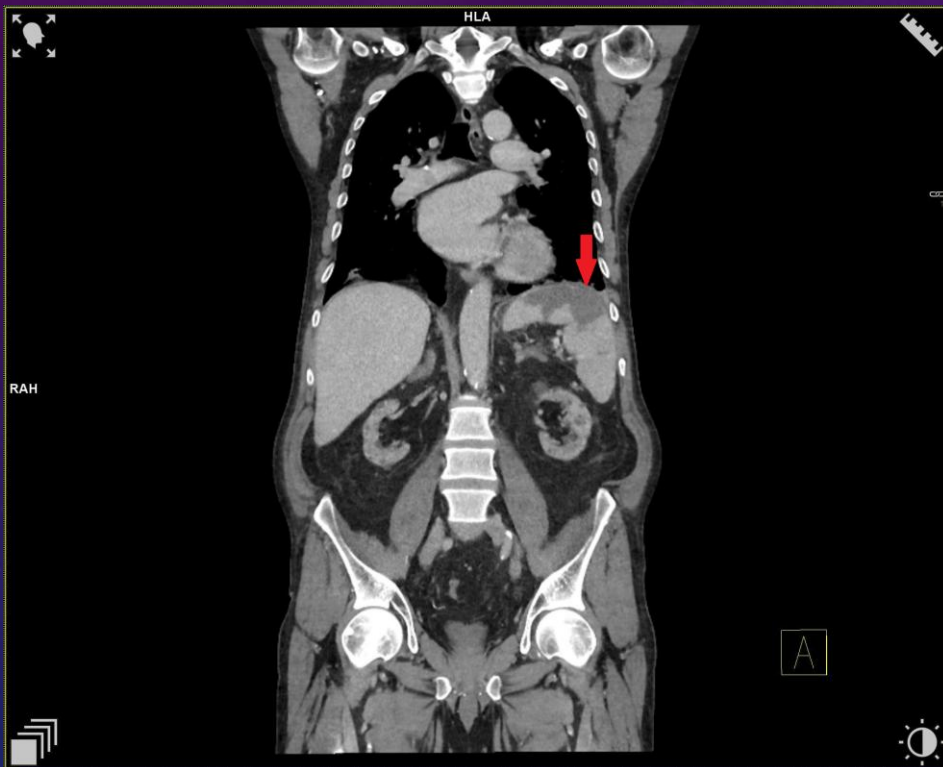


# CT Abdomenu 7.6.2021



- CT abdomenu axiálna projekcia: šípka ukazuje výpadok vo vetve a. lienalis v dôsledku septickej embolizácie

# CT abdomenu 7.6.2021



- CT abdomenu: koronárny rez hypodenzné ložisko v slezine v dôsledku septickej embolizácie

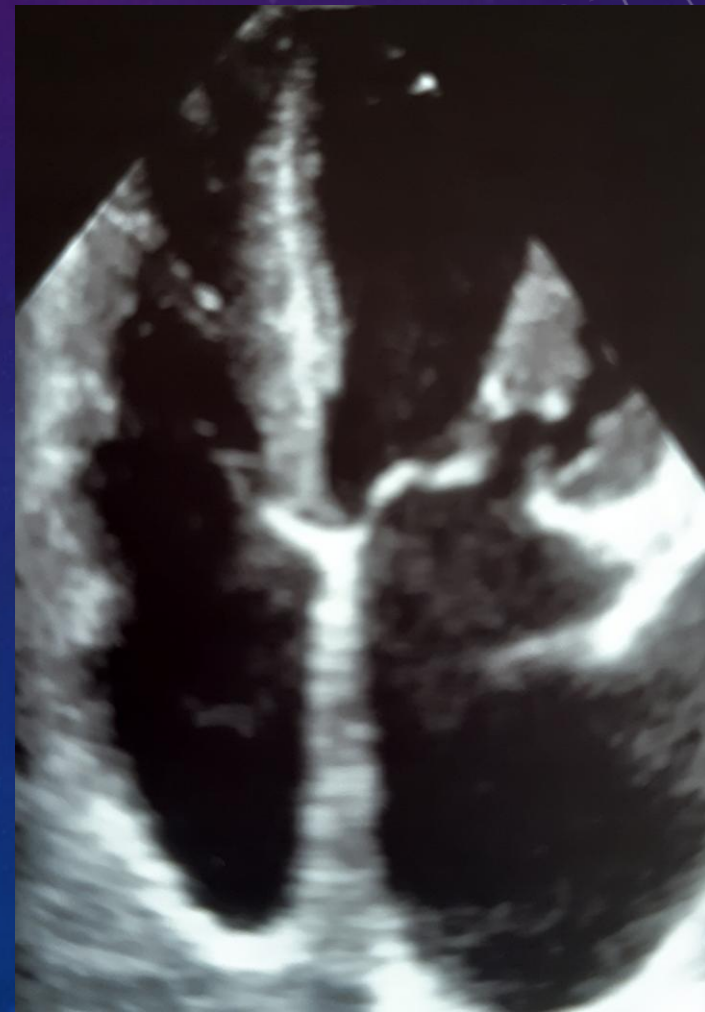




# Kontrolné ECHO 28.6.2022

28.6.2022: kontrolné ECHO:

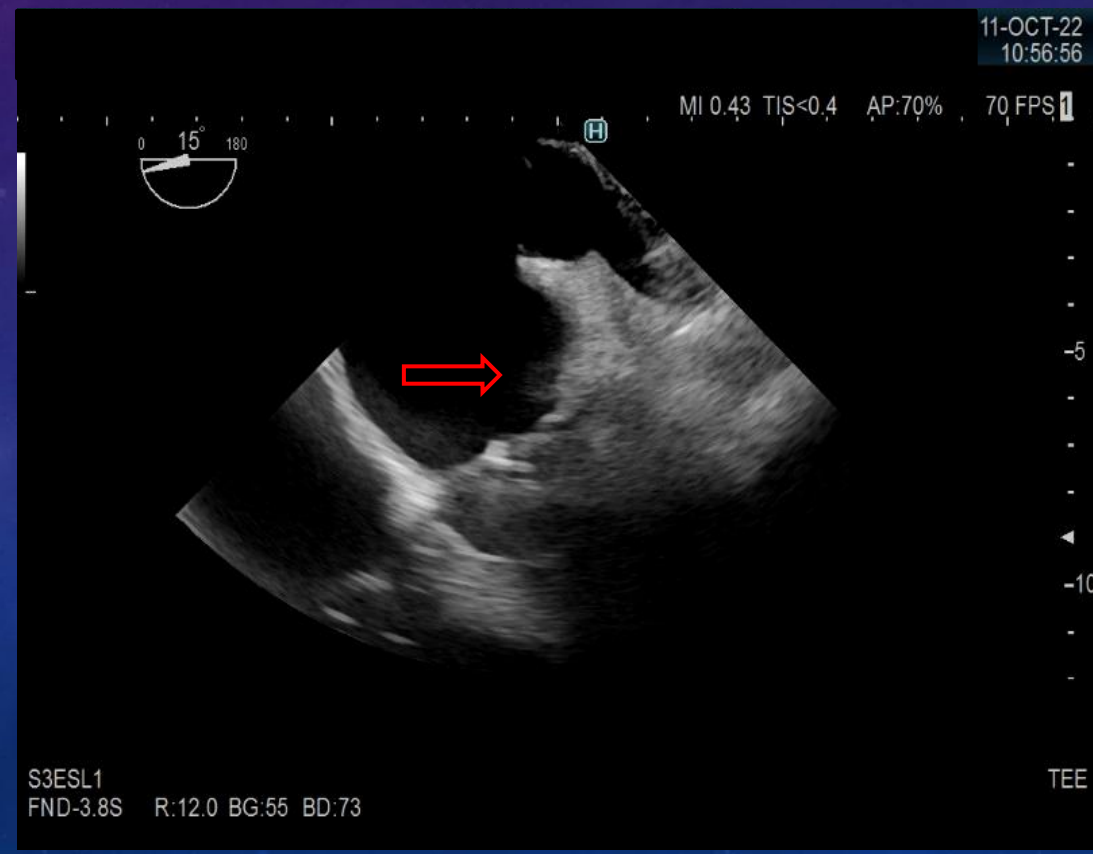
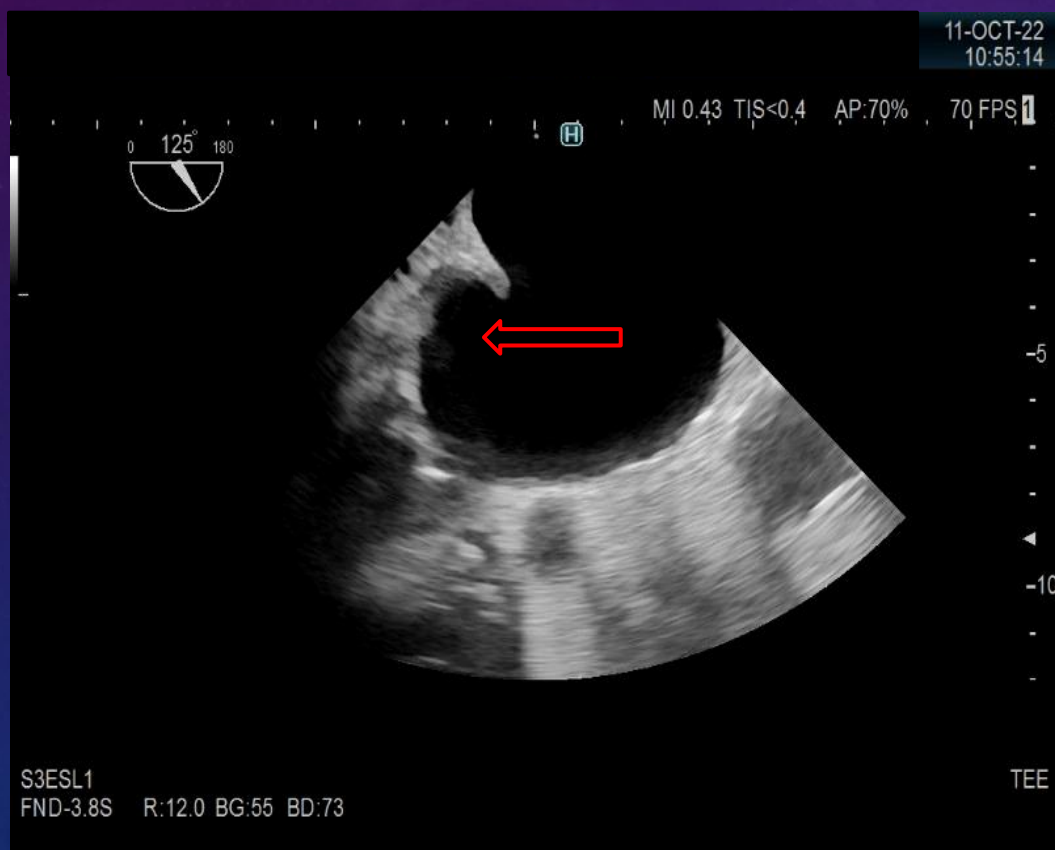
bez prítomnosti vegetácie na prednom cípe mitrálnej chlopne







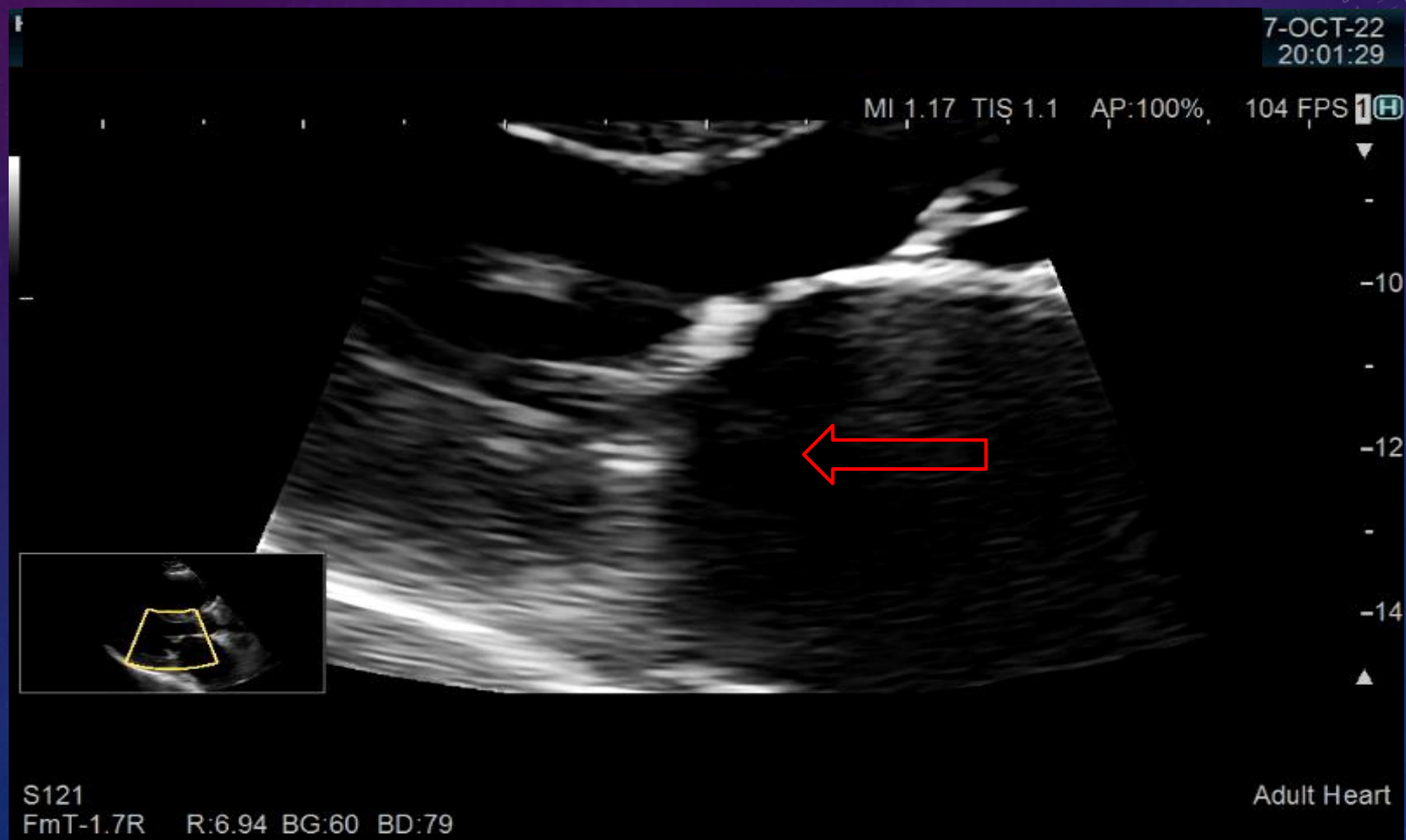
TEE 11. 10.2022



# Laboratorne výsledky

parameter	výsledok
leukocyty	11,2...10,5...6,3...4,9...6,3
erytrocyty	4,40...4,27...4,41...4,00
hemoglobín	115,0...111,0...113,0...106,0
trombocyty	90...126...116...88...93...102
urea	11,3...20,7...29,2...21,9...18,6
kreatinín	610,8...894,7...751,9...857,7...945,7
NT BNP	33 136...>70 000...42580
CRP	89,86...82,96...31,0...7,56
prokalcitonín	2,63...68,1...>100,0...0,442
AST	0,41...0,17...0,21...0,15...0,18
ALT	0,61...0,42...0,35...0,24...0,21
GMT	3,00...4,51...3,60...3,68...1,84
ALP	2,92...3,18...3,06...3,20...3,23
Na	139,0...142,0...139,0
K	4,83...5,05...4,90...5,02
Chl	105,0...104,0...107,0...101,0

# Transtorakálne ECHO PLAX projekcia zameranie na zadný cíp mitrálnej chlopne

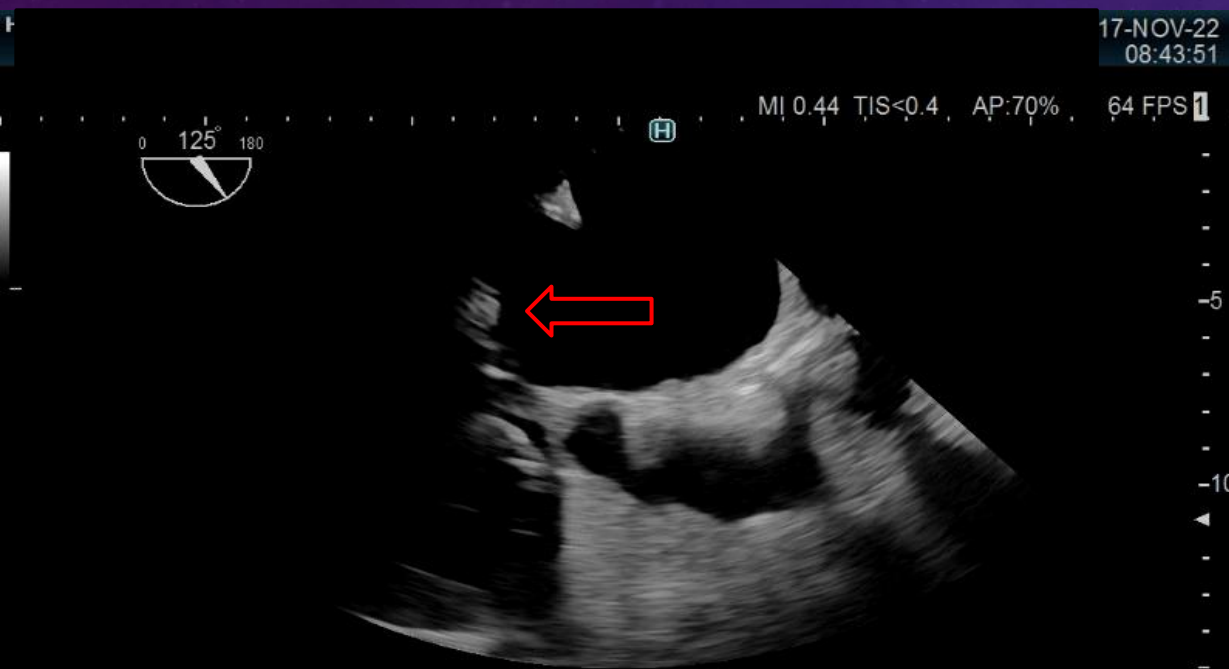






# KONTROLNÉ TEE 17.11.2022- bez vegetácie na zadnom cípe mitrálnej chlopne

## TEE dlhá os na aortu



## TEE 4 dutinová projekcia

