**Curriculum Vitae**



**Dr. med. Ioannis Tzanavaros**

**Cardiac Surgeon, certified congenital Cardiac surgeon,**

**Paediatric Cardiac surgeon**

**PERSONAL DATA:**

**• First and last name Ioannis Tzanavaros**

**• Date and place of birth October 31, 1974 / Cyprus**

**• Citizenship of Cyprus**

**• Marital status non-marital cohabitation, 4 children**

**• Telephone (mobile) 0049172-3264269**

**• E-Mail** [**dr.tzanavaros@gmail.com**](mailto:dr.tzanavaros@gmail.com)

**• Current Job Director Cardiac Innovation Center of Apollonion**

**SCHOOL EDUCATION:**

**1980-1986 Elementary School Polis / Cyprus**

**1986-1989 Gymnasium School Polis / Cyprus**

**1989-1992 Lyceum Polis / Cyprus. Graduated with excellent 19 7/11**

**MILITARY SERVICE**

**1992-1994 Compulsory Military Service, Cyprus**

**MEDICAL SCHOOL**

**1994-2000 Medical faculty of the National and Kapodistrian University of Athens / Greece. Scholarship from the Greek government. Graduation with very good.**

**PROFESSIONAL EXPERIENCE**

**07/2001-08/2001 Internship, Sana Heart Center Cottbus/Germany**

**09/2001 License to practice medicine in Germany**

**09/2001 Resident in cardiac surgery, Sana Heart Center Cottbus**

**03/2004-10/2004 Intensive medical training**

**11/2007 Board certification in cardiac surgery**

**11/2007-08/2009 Attending surgeon, Sana Heart Center Cottbus**

**09/2009 Attending surgeon, Sana Heart Surgery Stuttgart (academic teaching hospital of the University of Tübingen)**

**07/2010 Senior consultant in Sana Heart Surgery Stuttgart**

**02/2012 Board certification in surgery for congenital heart defects**

**01/2013-03/2016 Deputy Head of the Department of surgery of congenital heart defects, Sana Heart Surgery Stuttgart**

**04/2016-09/2016 Senior consultant and deputy head of the department for surgery of congenital heart defects, MHH-University of Hanover**

**10/2016-06/2021 Head of the department for surgery of congenital heart defects / pediatric cardiac surgery, Sana Heart Surgery Stuttgart.**

**From 07/2021 Director Cardiac Innovation Center of Apollonion**

**DOCTORATE**

**07/11/2007 Charité / University Medicine Berlin**

**Topic "Unipolar temperature-controlled radio-frequency ablation as an accompanying procedure in cardiac surgery for the treatment of atrial fibrillation"**

**https://refubium.fu-berlin.de/handle/fub188/1145**

**Magna cum laude after a public disputation**

**MEMBERSHIPS**

**• German Society for Thoracic, Cardiac and Vascular Surgery**

**• European Association for Cardio-Thoracic Surgery (EACTS)**

**• CTS Surgery Network**

**LANGUAGES**

**• Greek**

**• Fluently spoken and written German and English**

**LIST OF PUBLICATIONS**

1. **5 years experience with unipolar radiofrequency ablation for the surgical treatment of atrial fibrillation.** Thorac cardiovasc Surg 2006; 54 DOI: 10.1055/s-2006-925887**. I.** Tzanavaros, S Saenger, V Herwig, R Meyer, JM Knörig**.**
2. **Temperature-controlled unipolar and irrigated bipolar radiofrequency ablation for the treatment of chronic atrial fibrillation: Results of six years experience.** The Heart Surgery Forum, Volume 9, Supl. 2, 2006;39**.** I Tzanavaros, H Manus, Y Finkbeiner, S Saenger, V Herwig, J Knörig**.**
3. **Epicardial irrigated radiofrequency ablation for the treatment of chronic atrial fibrillation in CABG and aortic valve patients.** Thorac cardiovasc Surg 2007; 55DOI: 10.1055/s-2007-967374**.** I Tzanavaros, V Herwig, H Manus, Y Finkbeiner, J Knörig**.**
4. **Paroxysmal atrial fibrillation. The surgical solution through ablation procedures for a serious clinical problem of heart surgery patients.** Interact CardioVasc Thorac Surg 2007;6:S1-S172; Suppl. 1 to Vol. 6**.** I.Tzanavaros, A. Bauer, H. Manus,V. Herwig, Y Finkbeiner, J Knoerig**.**
5. **Sternal wire removal to treat persistent chest wall pain after median sternotomy. Results of 10 years experience.** Interact CardioVasc Thorac Surg 2007;6:S1-S172; Suppl. 1 to Vol. 6 **.** I Tzanavaros, A Rajca, H Manus,V Herwig, Y Finkbeiner, J Knoerig**.**
6. **Reduction plastic of the posterior left atrial wall and endocardial radiofrequency ablation in patients with giant left atrium, mitral valve disease and chronic atrial fibrillation (AF). Long term results of a single center.** Thorac cardiovasc Surg 2008; 56DOI: 10.1055/s-2008-1037862. I Tzanavaros, A Bauer, A Heyde, K Pytlik, Y Finkbeiner, S Sänger, H Manus, V Herwig, J Knörig.
7. **Persistent chest wall pain after median sternotomy due to sternal wires. Who is suffering and how effective is wire removal?** Thorac cardiovasc Surg 2008; 56DOI: 10.1055/s-2008-1038072. I Tzanavaros, Y Finkbeiner, J Puttke, H Manus, S Sänger, V Herwig, J Knörig.
8. **Is concomitant ablation of paroxysmal atrial fibrillation justified?** The Heart Surgery Forum;Volume 11, Supplement 1 / April 2008. I Tzanavaros, V Herwig, S Sänger, H Manus, Y Finkbeiner, J Knoerig.
9. **Incidence of preoperative atrial fibrillation in cardiac surgery patients and impact of concomitant rhythm surgery on outcome**. The Heart Surgery Forum;Volume 11, Supplement 1 / April 2008. I Tzanavaros, V Herwig, S Sänger, H Manus, Y Finkbeiner, J Knoerig.
10. **Long-term results of radiofrequency ablation used for the surgical treatment of atrial fibrillation associated with rheumatic mitral valve disease.** Thorac cardiovasc Surg 2008; 56DOI: 10.1055/s-2008-1037862**.** I Tzanavaros, A Rajca, V Herwig, A Heyde, H Manus, Y Finkbeiner, J Knoerig**.**
11. **The effect of preoperative atrial fibrillation on survival following mitral valve repair for degenerative mitral regurgitation.** Alexiou, Doukas, Oc, et al.Eur J Cardiothorac Surg 2007;31:586-591. doi:10.1016/j.ejcts.2006.12.039
12. **Impact of preoperative medication on postoperative bleeding, blood transfusion and on reoperation as a result of bleeding in CABG patients. Influence of intraoperative and postoperative management.** Thorac cardiovasc Surg 2007; Volume 57, Supplement 1 / February 2009**.** I Tzanavaros, J Knoerig, A Smechowski**.**
13. **Prevention of atrial fibrillation after coronary artery bypass grafting via atrial electromechanical interval and use of amiodarone prophylaxis.** Roshanali, Mandegar, Yousefnia, et alInteract CardioVasc Thorac Surg 2009;8:421-425/icvts.2008.191403
14. [**Mitral valve surgery plus concomitant atrial fibrillation ablation is superior to mitral valve surgery alone with an intensive rhythm control strategy**.](http://www.ncbi.nlm.nih.gov/pubmed/19233678?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum) von Oppell UO, Masani N, O'Callaghan P, et al.Eur J Cardiothorac Surg. 2009 Apr;35(4):641-50. Epub 2009 Feb 23.
15. **Surgical ablation in patients with impaired systolic function.** Tzanavaros I, Horke A, Doll N, Herwig V, Knoerig J, Grauhan O. Thoracic and Cardiovascular Surgeon Jahr:2010; Ausgabe:58(Suppl 1): Seiten:S147.
16. **Mid-term outcome of patients with atrial fibrillation prior to cardiac surgery with and without concomitant ablation**. Tzanavaros I, Herwig V, Grauhan O, Knoerig J, Finkbeiner Y, Horke A, Doll N. Thoracic and Cardiovascular Surgeon Jahr:2010; Ausgabe:58(Suppl 1): Seiten:S106.
17. **Postoperative extra-corporeal mechanical support in neonates and infants. Impact of residual lesions on outcome**. A. Horke, L. Meschenmoser, I. Tzanavaros, J. Rein. February 2010, The Thoracic and Cardiovascular Surgeon 58(S 01), DOI: [10.1055/s-0029-1246772](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1055%2Fs-0029-1246772?_sg%5B0%5D=1bIB7lm5dHVO8O7Nq5fbJtw8ua_P07ObYiklFqfBkA-wPpmOMajIfPPruq9jJUvIWblp27nEkiyVJF5FdA31T_sGDw.qpRDGyotzRg0IvOeKWmrwSnS0YqYyqRZ-g2Xv1W5ygqAzBG5f7WRKZQmatot9TKTVHxf_faRYQFLjSrHI1gZng)
18. **Novel pulmonary valve reconstruction technique using autologus pulmonary artery wall**. I. Tzanavaros, A. Narr, N. Doll, A. Horke. February 2011, The Thoracic and Cardiovascular Surgeon 59(S 01), DOI: [10.1055/s-0030-1269153](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1055%2Fs-0030-1269153?_sg%5B0%5D=b8tvQvzlDeZNjAPxvv3lHGMhbbt4gcpvckvjV5k-tLimcLddMgHVFBaJ81T0MrjmZ1oLmi5cOVM4sN50FtAWgTAnuQ.B7zcq4wb3K-C5SV4_n0VOd5LpPEXOY0rj8OaFH5L7dEqgqgRGTiJCPqRpLI0J9ZnTsSpDDby_xPKm0Ydw7fKrQ)
19. **Single patch repair of complete atrioventricular septal defect in neonates within the first three months of age suffering from therapy refractory heart failure. Is it feasible?.** A. Horke, I. Tzanavaros, …, N. Doll. February 2011, The Thoracic and Cardiovascular Surgeon 59(S 01), DOI: [10.1055/s-0030-1269155](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1055%2Fs-0030-1269155?_sg%5B0%5D=x9slwfZOTaBpMU3XzzqM3Mv6lzeglUCZXTOv9w6JeMm-sm9It-x_V1RRotylRcsXQHJjtgHO-QMLiRdFb7Sqkkn8LA.A3d5fgqusjXVnfNKr6hlo4_m1rIQVGL-NTCOx0mTt7Gg4mQ8WBNRZScWXnjc8CAsYma5DcTr2T5NgkIqGKeEKQ)
20. **CoSeal reduces the severity of pericardial adhesions and the operation time in pediatric cardiac surgery patients**. A. Narr, I. Tzanavaros, N. Doll, …, A. Horke. February 2011, The Thoracic and Cardiovascular Surgeon 59(S 01), DOI: [10.1055/s-0030-1269148](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1055%2Fs-0030-1269148?_sg%5B0%5D=aZXCjxA1hpow6F1WvKOZJAuaBaRH7SayHgRQ_uoEcUcl36SjnMctsirETkUUScbz4Ybh6saQpt3U6e0IwzoL3jZGZA.byhEldR2q1VAzmg9hcx0aQxk8M_YtBgYWjLiQHIfY4xZWTRhnq417MsxXasTa0Vx0CuVeDOW5ZbsDpvR_TfWuw)
21. [**Quo vadis pulmonary autograft--the ross procedure in its second decade: a single-center experience in 645 patients.**](https://pubmed.ncbi.nlm.nih.gov/24083796/) Weimar T, Charitos EI, Liebrich M, Roser D, Tzanavaros I, Doll N, Hemmer WB.Weimar T, et al. Ann Thorac Surg. 2014 Jan;97(1):167-74. doi: 10.1016/j.athoracsur.2013.07.078. Epub 2013 Sep 29.Ann Thorac Surg. 2014. PMID: 24083796
22. **RVOT Replacement with the Novel Vascutek RVOT ELAN Biplex (TM) Conduit: Initial Results in the First 12 Patients.** Ioannis Tzanavaros. January 2014, Cardiology 128(2):154-154
23. **Mid-term results after repair of Anomalous Origin of Left Coronary Artery from the Pulmonary Artery (ALCAPA): Takeuchi repair vs coronary transfer.** A.Neumann, D. Böthig, D. Bobylev, …, I. Tzanavaros, …, A. Horke. February 2014, The Thoracic and Cardiovascular Surgeon 62(S 01), DOI: [10.1055/s-0034-1367188](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1055%2Fs-0034-1367188?_sg%5B0%5D=Se4ibVFlCKismI6-bRZm1isAMlKxjfrTxP1cm2y1m-2DWcuijI30FoUsT2jCphppe-1cPrc-CNrm_zL5yeXAuukLyA._w40K_lUy8Mrk-G3KtpLRFOT3zmptE9JVPv_1BQWjObgMgjG2OFML5ZtVCBP7_4rWdoi7AU1uJqlzQbkFcXBng)
24. **Hybrid endovascular prosthesis in complex thoracic aortic disease: A tool that really matters or just a toy?** M. Liebrich, D. Röser, C. Maletskidis, …, I. Tzanavaros, …, W. Hemmer. February 2014, The Thoracic and Cardiovascular Surgeon 62(S 01), DOI: [10.1055/s-0034-1367280](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1055%2Fs-0034-1367280?_sg%5B0%5D=8ZpUcwyyKZlMIAsp0aLiEHw_FYKlI4oOrvJ2iiEjJa0u7E29vITK1R6zxitNfleypgxVkplzPwEUYwlQBnefDCJFVA.oQv8BuzL__E79bKyIV-qfZXTRw4NBSl9SM8xvqttUMDeWncZiQzoDRPuayIdiNRLYgzRJPlJjNEzWqe1o_1GHw)
25. [**[Prevention and treatment of cardiac arrhythmia in patients with congenital heart defects: surgical aspects].**](https://pubmed.ncbi.nlm.nih.gov/25164600/) Horke A, Tzanavaros I.Horke A, et al. Herzschrittmacherther Elektrophysiol. 2014 Sep;25(3):188-97. doi: 10.1007/s00399-014-0334-6. Epub 2014 Aug 28.Herzschrittmacherther Elektrophysiol. 2014. PMID: 25164600 German.
26. [**The David procedure for salvage of a failing autograft after the Ross operation.**](https://pubmed.ncbi.nlm.nih.gov/25282166/)  Liebrich M, Weimar T, Tzanavaros I, Roser D, Doll KN, Hemmer WB.Liebrich M, et al. Ann Thorac Surg. 2014 Dec;98(6):2046-52. doi: 10.1016/j.athoracsur.2014.06.065. Epub 2014 Oct 3.Ann Thorac Surg. 2014. PMID: 25282166
27. **Valve-Sparing Reimplantation Technique for Treatment of Neoaortic Root Dilatation Late after the Arterial Switch Operation: Raising the Bar.** Markus Liebrich1,2 Michael Scheid1,2 Frank Uhlemann3 Wolfgang B. Hemmer1,2. Address for correspondence Ioannis Tzanavaros, MD. Thorac Cardiovasc Surg Rep 2014;3:16–18.
28. **Aortic valve/root procedures in patients with an anomalous left circumflex coronary artery and a bicuspid aortic valve: anatomical and technical implications.** Liebrich M, Tzanavaros I, Scheid M, Voth W, Doll KN, Hemmer WB.Interact Cardiovasc Thorac Surg. 2015 Mar 27. pii: ivv063. [Epub ahead of print]
29. [**A Novel Designed Valved Conduit for RVOT Reconstruction in Grown-up Congenital Heart Patients: a Glimpse Down the Road.**](https://pubmed.ncbi.nlm.nih.gov/26474008/) Liebrich M, Hemmer W, Uhlemann F, Merz C, Voth W, Scheid M, Tzanavaros I.Liebrich M, et al. Thorac Cardiovasc Surg. 2016 Jan;64(1):36-43. doi: 10.1055/s-0035-1564930. Epub 2015 Oct 16.Thorac Cardiovasc Surg. 2016. PMID: 26474008
30. **Secundum atrial septum defect closure in neonates and infants - scrutinizing three different surgical approaches closely**  
    **Markus Liebrich**1, Anita Narr1, Brigitte Stäbler1, Alexander Horke2, Frank Uhlemann3, Michael Scheid1, Ioannis Tzanavaros1. ISMICS Annual Meeting 2016. Book of Abstracts
31. **Impact of a Polymeric Matrix Referring the Occurrence of Pericardial Adhesions/Operation Time in Neonates/Infants Scheduled for Staged Corrective Surgery.** I.Tzanavaros, A. Narr, B. Stäbler, …, M. Scheid. January 2016, The Thoracic and Cardiovascular Surgeon 64(S 01), DOI: [10.1055/s-0036-1571523](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1055%2Fs-0036-1571523?_sg%5B0%5D=sxn--jdfhBYYOwZFrkKKWnJ84_DR156MnNRIJq8AdyKrJjQ6QcSUPwXVwWFDwdJqBiwV4KJ6GqEDp8dpL_-SK4jC8w.2am5z9Er9jw1IaA3fFYlajcU9_8W2Wabm0lRXkeHVujyLuSEesyYiWSq6nHaAsAzH5w3q6aC83GGq-XZL7UGKg)
32. [**Long-term results after repair of anomalous origin of left coronary artery from the pulmonary artery: Takeuchi repair versus coronary transfer.**](https://pubmed.ncbi.nlm.nih.gov/28186291/) Neumann A, Sarikouch S, Bobylev D, Meschenmoser L, Breymann T, Westhoff-Bleck M, Scheid M, Tzanavaros I, Bertram H, Beerbaum P, Haverich A, Boethig D, Horke A.Neumann A, et al. Eur J Cardiothorac Surg. 2017 Feb 1;51(2):308-315. doi: 10.1093/ejcts/ezw268.Eur J Cardiothorac Surg. 2017. PMID: 28186291 No abstract available.
33. **25 Years of Experience in Pediatric Pacing: Is There an Achilles Heel?** C. Merz, D. Böthig, M. Liebrich, …, I. Tzanavaros, February 2017, The Thoracic and Cardiovascular Surgeon 65(S 02):S111-S142, DOI: [10.1055/s-0037-1598999](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1055%2Fs-0037-1598999?_sg%5B0%5D=idnt4gWK3v-RGny0tZIi-V78x6bkMXj7f8M9iVNI977kSCplVg6Cus0Yc035e9nk3TMztaDDtQILzdpuVIcTGOwC2Q.qq0ZFAWkApBSTYbkrvrtwlZVfma9J0U47enShWKueufiYdDXtX4fANgQVQEd7nf4HCXMDIXE13JqpR_u1z2sPA)
34. **Endokarditis nach Aorta-ascendens-Ersatz: Inzidenz, klinische Präsentation und perioperatives Outcome.** M. Liebrich, V. Voth, I. Tzanavaros, W. Hemmer. Zeitschrift für Herz- Thorax- und Gefäßchirurgie 31(4)DOI: [10.1007/s00398-017-0149-y](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1007%2Fs00398-017-0149-y?_sg%5B0%5D=FCyZbx9ysZv1SZhbmSa5XN_Lhn3_jKuLyL6sL3fDl3QblMzMJAfZjPQC2r0C2RklxxBZ53eH-35zaYJ5Eo5IPIYSGA.E9Uo_RE1xSuCt9il_hvvliCUEamFtbjRXuUdXvMb_019Uzfpwnu-VZIQvPVsp8UOA2KRGMZ_AASa92AENEfcAg)
35. **Influence of the Preoperative AV Valve Insufficiency and Surgical Anatomy on the Results of Single-patch Repair in Complete Atrioventricular Septal Defect.** V. Sheytanov, A. Narr, H. Schaefer,…, I. Tzanavaros. The Thoracic and Cardiovascular Surgeon 66(S 01):S1-S110
36. **Minimal-invasiver Verschluss von Ventrikelseptumdefekten in der Kinderherzchirurgie.** Liebrich, M., Uhlemann, F., Röhl, T., Doll, N., Tzanavaros, I. (2018): in: Zeitschrift für Herz-,Thorax- und Gefäßchirurgie 32, 1, S. 14–20.
37. **Modified Norwood stage I operation. Possible operative technique for hypoplastic left heart syndrome.** [M. Liebrich](javascript:;)[1](https://link.springer.com/article/10.1007/s00398-018-0269-z#Aff1), [M. Schweder](javascript:;)[1](https://link.springer.com/article/10.1007/s00398-018-0269-z#Aff1), [A. Diegeler](javascript:;)[1](https://link.springer.com/article/10.1007/s00398-018-0269-z#Aff1), [A. Narr](javascript:;)[1](https://link.springer.com/article/10.1007/s00398-018-0269-z#Aff1), [A. Gomes de Sena](javascript:;)[1](https://link.springer.com/article/10.1007/s00398-018-0269-z#Aff1),[2](https://link.springer.com/article/10.1007/s00398-018-0269-z#Aff2), [T. Eberle](javascript:;)[3](https://link.springer.com/article/10.1007/s00398-018-0269-z#Aff3), [S. Dähmlow](javascript:;)[3](https://link.springer.com/article/10.1007/s00398-018-0269-z#Aff3), [U. Schweigmann](javascript:;)[3](https://link.springer.com/article/10.1007/s00398-018-0269-z#Aff3), [V. Ocker](javascript:;)[3](https://link.springer.com/article/10.1007/s00398-018-0269-z#Aff3), [F. Uhlemann](javascript:;)[3](https://link.springer.com/article/10.1007/s00398-018-0269-z#Aff3), [C. Schepp](javascript:;)[4](https://link.springer.com/article/10.1007/s00398-018-0269-z#Aff4), [T. Röhl](javascript:;)[4](https://link.springer.com/article/10.1007/s00398-018-0269-z#Aff4), [N. Doll](javascript:;)[1](https://link.springer.com/article/10.1007/s00398-018-0269-z#Aff1), [I. Tzanavaros](javascript:;)[1](https://link.springer.com/article/10.1007/s00398-018-0269-z#Aff1) , [Zeitschrift für Herz-,Thorax- und Gefäßchirurgie](https://link.springer.com/journal/398) volume 32, pages459–470(2018)
38. **Performanceof the Labcor Stentless Valved Pulmonary Conduit in Patients with congenital heart Disease.** **Ioannis Tzanavaros**, Markus Liebrich.   
    Sana Herzchirurgie Stuttgart, Stuttgart, Germany. Heart Valve Society Annual Meeting 2018. Book of Abstracts
39. [**Pulmonary valve insufficiency 12 years after high-velocity blunt chest trauma.**](https://www.ncbi.nlm.nih.gov/pubmed/30351411) Sheytanov V, Wehbe MS, Doll N, **Tzanavaros** I. Eur J Cardiothorac Surg. 2019 Jun 1;55(6):1234-1235. doi: 10.1093/ejcts/ezy353.
40. [**Mode of Failure of a Composite Stentless Conduit for RV-PA Connection in Infant Heart Surgery: Histomorphological and Surgical Considerations**](https://www.researchgate.net/publication/331581343_Mode_of_Failure_of_a_Composite_Stentless_Conduit_for_RV-PA_Connection_in_Infant_Heart_Surgery_Histomorphological_and_Surgical_Considerations?_sg=SuAYOVx9-zMXlPR_zwERhTtZ7ExBE11QG8upZ3OaT6Fidw1i0apl1FQ1kPbAY7X2j4450v0xU_5Df1GziNYhfn-NWLFMBl_XS57FxxOG.mwzlz_2_CouHsSj3LgBKvtuj1X_Fft_pdYQQHThV2aHZb2LjHUoA_oxpze7ART_u9dOgxa0q3JVsfd-5gLo5yQ)**.** M. Liebrich, A. Degler1 Stuttgart, Germany, A. Narr, M. Schweder1 Stuttgart, Germany, C. Schepp, T. Röhl, F. Uhlemann, N. Doll, I. Tzanavaros1 Stuttgart, Germany
41. 1 Sana Cardiac Surgery, Stuttgart, Germany
    1. Thorac Cardiovasc Surg 2019; 67(S 01): S1-S100. DOI: 10.1055/s-0039-1678836
42. **Aortic Valve Replacement With a Custom Made 15 mm Mechanical Prosthesis in Pediatric Patients.** [Ioannis Tzanavaros Sana Herzchirurgie Stuttgart, Stuttgart, Germany](https://www.tandfonline.com/author/Tzanavaros%2C+Ioannis) & [Markus Liebrich Sana Herzchirurgie Stuttgart, Stuttgart, Germany](https://www.tandfonline.com/author/Liebrich%2C+Markus). [Structural Heart](https://www.tandfonline.com/toc/ushj20/current) . The Journal of the Heart Team. Volume 3, 2019 - [Issue sup1: 2019 Heart Valve Society Annual Scientific Meeting](https://www.tandfonline.com/toc/ushj20/3/sup1). <https://doi.org/10.1080/24748706.2019.1590064>
43. [**The David procedure for surgical management of neo-aortic root dilatation following the arterial switch operation: Technical aspects.**](https://www.ncbi.nlm.nih.gov/pubmed/30990578)Liebrich M, **Tzanavaros** I, Doll N, Hemmer W.Multimed Man Cardiothorac Surg. 2019 Apr 16;2019. doi: 10.1510/mmcts.2019.013.
44. **Repeated rapid regression of two cardiac rhabdomyoma in a newborn with Everolimus.** Mitt S., Eberle T., Tzanavaros I., Uhlemann F. AEPC Annual Meeting. Book of Abstracts
45. [**Twelve Years of Complete Atrioventricular Septal Defect Repair.**](https://pubmed.ncbi.nlm.nih.gov/31734969/) Sena A, Sheytanov V, Liebrich M, Narr A, Schweigmann U, Uhlemann F, Doll N, Tzanavaros I.Sena A, et al. Rev Port Cir Cardiotorac Vasc. 2019 Jul-Sep;26(3):187-193.Rev Port Cir Cardiotorac Vasc. 2019. PMID: 31734969
46. [**Surgical Treatment of a Neuromucoepidermoid Carcinoma of the Left Main Bronchus via Posterolateral Thoracotomy in a 4-Year-Old Boy.**](https://pubmed.ncbi.nlm.nih.gov/31956469/) Liebrich M, Friedel G, Amrhein P, Tzanavaros I.Liebrich M, et al. Thorac Cardiovasc Surg Rep. 2020 Jan;9(1):e1-e3. doi: 10.1055/s-0039-3400533. Epub 2020 Jan 16.Thorac Cardiovasc Surg Rep. 2020. PMID: 31956469
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