

Publikationsliste Dr. Johannes Petersen, MHBA – Stand 01.07.2022

Original articles:

- [1] Klotz SGR, Ketels G, Behrendt CA, König HH, Kohlmann S, Löwe B, **Petersen J**, Stock S, Vettorazzi E, Zapf A, Zastrow I, Zöllner C, Reichenspurner H, Girdauskas E. Interdisciplinary and cross-sectoral peri-operative care model in cardiac surgery: implementation in the setting of minimally invasive heart valve surgery (INCREASE)-study protocol for a randomized controlled trial. *Trials*. 2022 Jun 23;23(1):528. **IF: 2.728**
- [2] Holst T, **Petersen J**, Adam G, Reichenspurner H, Girdauskas E, Tahir E. A novel technique to quantify aortic valve annulus deformation: A pilot study. *J Card Surg*. 2022 Jun 11. **IF: 1.778**
- [3] **Petersen J**, Castro L, Pedersen Benggaard AK, Pecha S, Ismaili D, Schulz C, Sahni J, Steenpass A, Meier C, Reichenspurner H, Jespersen T, Eschenhagen T, Christ T. Muscarinic receptor activation reduces force and arrhythmias in human atria independent of IK,ACh. *J Cardiovasc Pharmacol*. 2022 Feb 14. **IF: 3.105**
- [4] Naito S, Sequeira-Gross T, **Petersen J**, Detlef I, Sachse M, Zeller T, Reichenspurner H, Girdauskas E. Circulating microRNAs in the prediction of BAV aortopathy: do the expression patterns correlate between blood and aortic tissue? *Rev Cardiovasc Med*. 2022 Feb 8;23(2):47. **IF: 4.430**
- [5] **Petersen J**, Kloth B, Iqbal S, Reichenspurner H, Geelhoed B, Schnabel R, Eschenhagen T, Christ T, Girdauskas E. Blunted beta-adrenoceptor-mediated inotropy in valvular cardiomyopathy: another piece of the puzzle in human aortic valve disease. *Eur J Cardiothorac Surg*. 2021 Jul 14; **IF: 4.191**
- [6] Wenzel JP, Petersen E, Nikorowitsch J, Senftinger J, Sinning C, Theissen M, **Petersen J**, Reichenspurner H, Girdauskas E. Transthoracic echocardiographic reference values of the aortic root: results from the Hamburg City Health Study. *Int J Cardiovasc Imaging*. 2021 Jul. **IF: 1.969**
- [7] Holst T*, **Petersen J***, Sinning C, Reichenspurner H, Girdauskas E. Aortic Valve Repair in Annular Dilatation: External Versus Internal Suture Annuloplasty. *Ann Thorac Surg*. 2021 Jul; **IF: 4.330**
- [8] Berisha F, Götz KR, Wegener JW, Brandenburg S, Subramanian H, Molina CE, Ruffer A, **Petersen J**, Bernhardt A, Girdauskas E, Jungen C, Pape U, Kraft AE, Warnke S, Lindner D, Westermann D, Blankenberg S, Meyer C, Hasenfuß G, Lehnart SE, Nikolaev VO. cAMP Imaging at Ryanodine Receptors Reveals β 2-Adrenoceptor Driven Arrhythmias. *Circ Res*. 2021 Jun 25; **IF: 17.367**
- [9] Chung DU, Müller L, Ubben T, Yildirim Y, **Petersen J**, Sinning C, Castro L, Demal TJ, Kaiser L, Gosau N, Reichenspurner H, Willems S, Pecha S, Hakmi S. Benefits of routine prophylactic femoral access during transvenous lead extraction. *Heart Rhythm*. 2021 Jun; **IF: 6.343**
- [10] Z. Iqbal, D. Ismaili, B. Dolce, **J. Petersen**, H. Reichenspurner, A. Hansen, P. Kirchhof, T. Eschenhagen, V.O. Nikolaev, C.E. Molina, T. Christ, Regulation of basal and norepinephrine-induced cAMP and I(Ca) in hiPSC-cardiomyocytes: Effects of culture conditions and comparison to adult human atrial cardiomyocytes, *Cell Signal*, 82 (2021) 109970. **IF: 3.968**

- [11] Kari FA, Misfeld M, Borger M, Rylski B, Zimmer E, Siepe M, Hagl C, Detter C, **Petersen J**, Tsveldub S, Richardt D, Werner P, Andreas M, Pichlmaier M, Mueller CS. German Aortic Root Repair Registry - Insights from the First 400 Consecutive Patients. *Ann Thorac Surg*. 2021 Mar 31; **IF: 4.330**
- [12] **J. Petersen**, B. Kloth, J. Konertz, J. Kubitz, L. Schulte-Uentrop, G. Ketels, H. Reichenspurner, E. Girdauskas, Economic impact of enhanced recovery after surgery protocol in minimally invasive cardiac surgery, *BMC Health Serv Res*, 21 (2021). **IF: 1.932**
- [13] **Petersen J**, Neumann N, Naito S, Sequeira Gross T, Massel R, Reichenspurner H et al. Persistence of Reduced Left Ventricular Function after Aortic Valve Surgery for Aortic Valve Regurgitation: Bicuspid versus Tricuspid. *The Thoracic and cardiovascular surgeon* 2021;69:389-95.**IF: 1.827**
- [14] D.U. Chung, L. Müller, T. Ubben, Y. Yildirim, **J. Petersen**, C. Sinning, L. Castro, T.J. Demal, L. Kaiser, N. Gosau, H. Reichenspurner, S. Willems, S. Pecha, S. Hakmi, Benefits of routine prophylactic femoral access during transvenous lead extraction, *Heart Rhythm*, (2021).; **IF: 5.731**
- [15] H. Burger, S. Hakmi, **J. Petersen**, Y. Yildirim, Y.H. Choi, S. Willems, H. Reichenspurner, T. Ziegelhoeffer, S. Pecha, Safety and efficacy of transvenous lead extraction in octogenarians using powered extraction sheaths, *Pacing Clin Electrophysiol*, (2021). **IF: 1.156**
- [16] Sprenger, J., **Petersen, J.**, Neumann, N., Reichenspurner, H., Russ, D., Detter, C., & Schlaefer, A. (2021). Tracking heart surface features to determine myocardial contrast agent enrichment. *Current Directions in Biomedical Engineering*, 7(1), 53-57. **IF: 0.546**
- [17] **Petersen J.**, Lenz A., Adam G., Reichenspurner H., Bannas P., Girdauskas E., Changes in transvalvular flow patterns after aortic valve repair: comparison of symmetric versus asymmetric aortic valve geometry, *European journal of cardio-thoracic surgery: official journal of the European Association for Cardio-thoracic Surgery*, (2020). **IF: 4.191**
- [18] **Petersen J.**, Krogmann H., Reichenspurner H., Girdauskas E., Long-Term Outcome and Quality of Life After Biological Aortic Valve Replacement in Nonelderly Adults, *The Annals of thoracic surgery*, (2020). **IF: 4.330**
- [19] A. Lenz, **J. Petersen**, C. Riedel, J.M. Weinrich, H. Kooijman, B.P. Schoennagel, G. Adam, Y. von Kodolitsch, H. Reichenspurner, E. Girdauskas, P. Bannas, 4D flow cardiovascular magnetic resonance for monitoring of aortic valve repair in bicuspid aortic valve disease, *J Cardiovasc Magn Reson*, 22 (2020) 29.; **IF: 5.364**
- [20] Naito S., **Petersen J.**, Sequeira-Gross T., Neumann N., Duque Escobar J., Zeller Z., Reichenspurner H., Girdauskas G., Bicuspid aortopathy - molecular involvement of microRNAs and MMP-TIMP, Biomarkers: biochemical indicators of exposure, response, and susceptibility to chemicals, (2020) 1-8. **IF: 2.658**
- [21] Girdauskas E., Neumann N., **Petersen J.**, Sequeira-Gross T., Naito N., von Stumm M., von Kodolitsch Y., Reichenspurner H., Zeller T., Expression Patterns of Circulating MicroRNAs in the Risk Stratification of Bicuspid Aortopathy, *Journal of clinical medicine*, 9 (2020). **IF: 4.241**

- [22] N. Neumann, **J. Petersen**, C. Sinning, T. Sequeira-Gross, N. Schofer, H. Reichenspurner, E. Girdauskas, Focus on the annuloplasty in aortic valve repair: implications from a quantitative multislice computed tomography analysis, *Quantitative imaging in medicine and surgery*, 10 (2020) 853-861.; **IF: 3.837**
- [23] Y. Yildirim, **J. Petersen**, T. Tönnis, H. Reichenspurner, S. Pecha, Hybrid transvenous lead extraction during cardiac surgery for valvular endocarditis, *Journal of cardiovascular electrophysiology*, 31 (2020) 2101-2106. **IF: 2.873**
- [24] **J. Petersen**, E. Vettorazzi, S. Hakmi, Y. Alassar, C. Meyer, S. Willems, F.M. Wagner, E. Girdauskas, H. Reichenspurner, S. Pecha, Should concomitant surgical ablation for atrial fibrillation be performed in elderly patients?, *The Journal of thoracic and cardiovascular surgery*, (2019). **IF: 4.451**
- [25] **J. Petersen**, L. Voigtlander, N. Schofer, N. Neumann, Y. von Kodolitsch, H. Reichenspurner, E. Girdauskas, Geometric changes in the aortic valve annulus during the cardiac cycle: impact on aortic valve repair, *European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery*, 54 (2018) 441-445. **IF: 3.847**
- [26] Girdauskas E., **Petersen J.**, Neumann N., Ungelenk M., Kurth I., Reichenspurner H., Zeller T., MiR-15 expression and rare NOTCH1 variants in bicuspid aortic valve-associated aortopathy, *PloS one*, 13 (2018) e0200205. **IF: 2.776**
- [27] Girdauskas E., **Petersen J.**, Neumann N, Groß T., Naito S., Hillebrand M., Reichenspurner H., Blankenberg S., Zeller T., Evaluation of microribonucleic acids as potential biomarkers in the bicuspid aortic valve-associated aortopathy, *Interactive cardiovascular and thoracic surgery*, 27 (2018) 60-66. **IF: 1.931**
- [28] **Petersen J.**, Kazakov A., Bohm M., Schaefer H.J., Laufs U., Abdul-Khaliq H., Cardiopulmonary bypass reduces myocardial oxidative stress, inflammation and increases c-kit(+)CD45(-) cell population in newborns, *J Transl Med*, 16 (2018) 111. **IF: 4.098**
- [29] S. Naito, **J. Petersen**, H. Reichenspurner, E. Girdauskas, The impact of coronary anomalies on the outcome in aortic valve surgery: comparison of bicuspid aortic valve versus tricuspid aortic valve morphotype, *Interactive cardiovascular and thoracic surgery*, 26 (2018) 617-622. **IF: 1.905**
- [30] T. Sequeira Gross, S. Naito, N. Neumann, **J. Petersen**, T. Kuntze, H. Reichenspurner, Y. von Kodolitsch, E. Girdauskas, Does statin therapy impact the proximal aortopathy in aortic valve disease?, *QJM : monthly journal of the Association of Physicians*, 111 (2018) 623-628.
- [31] E. Girdauskas, **J. Petersen**, N. Neumann, M. Ungelenk, I. Kurth, H. Reichenspurner, T. Zeller, MiR-145 expression and rare NOTCH1 variants in bicuspid aortic valve-associated aortopathy, *PloS one*, 13 (2018) e0200205. **IF: 3.240**
- [32] M. Abu-Halima, M. Poryo, N. Ludwig, J. Mark, I. Marsollek, C. Giebels, **J. Petersen**, H.J. Schaefer, U. Grundmann, T. Pickardt, A. Keller, E. Meese, H. Abdul-Khaliq, Differential expression of microRNAs following cardiopulmonary bypass in children with congenital heart diseases, *J Transl Med*, 15 (2017) 117. **IF: 4.098**

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Review Articles:

[1] von Stumm M, Sequeira-Gross T, **Petersen J**, Naito S, Müller L, Sinning C, Girdauskas E. Narrative review of the contemporary surgical treatment of unicuspid aortic valve disease. *Cardiovasc Diagn Ther*. 2021 Apr;11(2):503-517. **IF: 2.845**

[2] A. Gebauer, **J. Petersen**, J. Konertz, J. Brickwedel, L. Schulte-Uentrop, H. Reichenspurner, Evaldas Girdauskas. Enhanced Recovery After Cardiac Surgery: Where Do We Stand?. *Curr Anesthesiol Rep* 11, 501–506 (2021). **IF: 0.73**

[3] **J. Petersen**, H. Reichenspurner, S. Pecha, Atrial fibrillation surgery with a focus on patients with reduced left ventricular function and heart failure, *Europace*, 22 (2020) 517-521. **IF: 5.231**

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[5] S. Naito, T. Sequeira-Gross, **J. Petersen**, T. Holst, H. Reichenspurner, E. Girdauskas, Focus on a rare clinical entity: unicuspid aortic valve disease, *Expert review of cardiovascular therapy*, 18 (2020) 625-633. **IF: 2.23**

[6] **J. Petersen**, T. Sequeira-Gross, S. Naito, H. Reichenspurner, E. Girdauskas, Aortic valve-related aortopathy: assessing optimal timing of surgical intervention, *Expert review of cardiovascular therapy*, 17 (2019) 753-761. **IF: 2.23**

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[11] **J. Petersen**, E. Girdauskas, Aortic valve repair-lessons to be learned, *Annals of translational medicine*, 5 (2017) 356. **IF: 3.689**

Editorials / Case Reports:

[1] **Petersen J**, Holst T, Pecha S, Reichenspurner H, Girdauskas E. Rare Presentation of Sinus of Valsalva Aneurysm Treated by Aortic Valve Reimplantation Technique. *Braz J Cardiovasc Surg.* 2021 Oct 21. **IF: 1.053**

[2] Yildirim Y, **Petersen J**, Tönnis T, Detter C, Reichenspurner H, Pecha S. Laser Lead Extraction During Venoaerterial ECMO support. *Braz J Cardiovasc Surg.* 2021 Oct 21. **IF: 1.053**

[3] **Petersen J**, Pecha S. What we need to do so that the glass is more than half full in stand-alone thoracoscopic ablation. *Eur J Cardiothorac Surg.* 2021 Jul 29; **IF: 4.191**

[4] P. Bannas, A. Lenz, **J. Petersen**, M. Sinn, G. Adam, H. Reichenspurner, E. Girdauskas, Normalization of Transvalvular Flow Patterns after Bicuspid Aortic Valve Repair: Insights from 4D Flow Cardiovascular Magnetic Resonance Imaging, *The Annals of thoracic surgery*, (2018). **IF: 4.330**

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