

Publikationen

Originalarbeiten

Aus dem Herzzentrum wurden 2023 über 150 Originalarbeiten publiziert. Nachfolgend eine Auswahl der 30 wichtigsten Publikationen aus allen Forschungsgebieten:

- **Minimally Invasive Nonresectional Mitral Valve Repair Long-term Results**
Berdajs D, Miazza J, Koechlin L, Gahl B, Reuthebuch O, Eckstein F. Can J Cardiol. 2023. Impact Factor 6.2
- **Long-Term Follow-Up after Mycobacterium Chimaera Infection Following Cardiac Surgery: Single-Center Experience**
Schaeffer T, Kuster S, Koechlin L, Khanna N, Eckstein FS, Reuthebuch O. J Clin Med. 2023. Impact Factor 5.0
- **Sex differences in readmission rate after cardiac surgery.**
Koechlin L, Miazza J, Gahl B, Santer D, Vöhringer L, Berdajs D, Eckstein FS, Reuthebuch O.
Front Cardiovasc Med. 2023. Impact Factor 6.1
- **Planning of graft size and 3D reconstruction using virtual reality technique in aortic valve reimplantation**
Reid G, Gehweiler J, Thieringer F, Eckstein F, Ferrari E, Gahl B, Berdajs DA. Front Cardiovasc Med. 2023. Impact Factor 6.1
- **Combining Minimally Invasive Nonresectional Mitral Valve Repair Long-term Results**
Miazza J, Vasiloj I, Koechlin L, Gahl B, Santer D, Berdajs D, Nestelberger T, Kaiser C, Eckstein F, Reuthebuch O.
J Clin Med. Impact Factor 5.0
- **Similar 5-Year Survival in Transfemoral and Transapical TAVI Patients: A Single-Center Experience**
Mork C, Twerenbold R, Gahl B, Eckstein F, Jeger R, Kaiser C, Reuthebuch O. Bioengineering (Basel). 2023. Impact Factor 5.0
- **Five-Year Survival of Patients Treated with Minimally Invasive Direct Coronary Artery Bypass (MIDCAB) Compared with the General Swiss Population**
Reuthebuch O, Stein A, Koechlin L, Gahl B, Berdajs D, Santer D, Eckstein F. Thorac Cardiovasc Surg. 2023. Impact Factor 5.9

Publikationen

- **Effect of phosphodiesterase-5 inhibition on SystEmic Right VEntricular size and function. A multicentre, double-blind, randomized, placebo-controlled trial: SERVE**
Greutmann M, Tobler D, Engel R, Heg D, Mueller C, Frenk A, Gabriel H, Rutz T, Buechel RR, Wilhelm M, Trachsel L, Freese M, Ruperti-Repilado FJ, Valsangiacomo Buechel E, Beitzke D, Haaf P, Wustmann K, Schwitz F, Possner M, Schwitter J, Bouchardy J, Schwerzmann M; SERVE Investigators. Eur J Heart Fail. 2023. Impact Factor 5.0
- **Sex-specific inequalities in the use of drug-coated balloons for small coronary artery disease: a report from the BASKET-SMALL 2 trial**
Rubini Gimenez M, Scheller B, Farah A, Ohlow MA, Mangner N, Weilenmann D, Wöhrle J, Cuculi F, Leibundgut G, Möbius-Winkler S, Cattaneo M, Gilgen N, Kaiser C, Jeger RV. Clin Res Cardiol. 2023
- **Incidence and Outcomes of Valve-in-Valve Transcatheter Aortic Valve Implantation in Failed Bioprosthetic Valves**
Stolte T, Boeddinghaus J, Allegra G, Leibundgut G, Reuthebuch O, Kaiser C, Müller C, Nestelberger T. J Clin Med. 2023
- **Artificial intelligence to improve ischemia prediction in Rubidium Positron Emission Tomography-a validation study**
Frey SM, Bakula A, Tsrkin A, Vasilchenko V, Ruff P, Oehri C, Amrein MF, Huré G, Rumora K, Schäfer I, Caobelli F, Haaf P, Mueller CE, Remppis BA, Rocca HB, Zellweger MJ. EPMA J. 2023
- **Hypertensive Heart Disease-The Imaging Perspective**
Ismail TF, Frey S, Kaufmann BA, Winkel DJ, Boll DT, Zellweger MJ, Haaf P. J Clin Med. 2023
- **Biomarker, Imaging, and Clinical Factors Associated With Overt and Covert Stroke in Patients With Atrial Fibrillation**
De Marchis GM, Krisai P, Werlen L, Sinnecker T, Aeschbacher S, Dittrich TD, Polymeris AA, Coslovksy M, Blum MR, Rodondi N, Reichlin T, Moschovitis G, Wuerfel J, Lyrer PA, Fischer U, Conen D, Kastner P, Ziegler A, Osswald S, Kühne M, Bonati LH; Swiss-AF Investigators. Stroke. 2023
- **Efficacy and safety of pulmonary vein isolation with pulsed field ablation vs. novel cryoballoon ablation system for atrial fibrillation**
Badertscher P, Weidlich S, Knecht S, Stauffer N, Krisai P, Voellmin G, Osswald S, Sticherling C, Kühne M. Europace 2023

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- **Pulsed-field ablation versus single-catheter high-power short-duration radiofrequency ablation for atrial fibrillation: Procedural characteristics, myocardial injury, and mid-term outcomes**
Badertscher P, Weidlich S, Serban T, Krisai P, Voellmin G, Osswald S, Knecht S, Sticherling C, Kühne M.. Heart Rhythm 2023
- **Follow-up of CRT-D patients downgraded to CRT-P at the time of generator exchange**
Frey SM, Brenner R, Theuns DA, Al-Shoaibi N, Crawley RJ, Ammann P, Sticherling C, Kühne M, Osswald S, Schaer B.. Front Cardiovasc Med. 2023
- **Cryoballoon Pulmonary Vein Isolation as First-Line Treatment for Typical Atrial Flutter**
Gupta D, Ding WY, Calvert P, Williams E, Das M, Tovmassian L, Tayebjee MH, Haywood G, Martin CA, Rajappan K, Bates MGD, Temple IP, Reichlin T, Chen Z, Balasubramaniam RN, Ronayne C, Clarkson N, Morgan M, Barton J, Kemp I, Mahida S, Sticherling C. Heart 2023
- **Association of bone morphogenetic protein 10 and recurrent atrial fibrillation after catheter ablation**
Hennings E, Aeschbacher S, Coslovsky M, Paladini RE, Meyre PB, Voellmin G, Blum L, Kastner P, Ziegler A, Conen D, Zuern CS, Krisai P, Badertscher P, Sticherling C, Osswald S, Knecht S, Kühne M.. Europace 2023
- **Technical Characterization of Single-Lead ECG Signals From 4 Different Smartwatches and its Potential Clinical Implications**
Knecht S, Waldmann F, Kuhn R, Mannhart D, Kühne M, Sticherling C, Badertscher P, Wildhaber RA. JACC Clin Electrophysiol 2023
- **Clinical Validation of 5 Direct-to-Consumer Wearable Smart Devices to Detect Atrial Fibrillation: BASEL Wearable Study**
Mannhart D, Lischer M, Knecht S, Fay de Lavallaz J du, Strebel I, Serban T, Vögeli D, Schaer B, Osswald S, Mueller C, Kühne M, Sticherling C, Badertscher P. JACC Clin Electrophysiol 2023
- **Durability of pulmonary vein isolation for atrial fibrillation: a meta-analysis and systematic review**
Serban T, Mannhart D, Abid Q-U-A, Höchli A, Lazar S, Krisai P, Bettelini AS, Knecht S, Kühne M, Sticherling C, Fay de Lavallaz J du, Badertscher P. Europace 2023

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- **Chest Pain in Cancer Patients: Prevalence of Myocardial Infarction and Performance of High-Sensitivity Cardiac Troponins**
Bima P, Lopez-Ayala P, Koechlin L, Boeddinghaus J, Nestelberger T, Okamura B, Muench-Gerber TS, Sanzone A, Skolozubova D, Djurdjevic D, Rubini Gimenez M, Wildi K, Miro O, Martínez-Nadal G, Martin-Sanchez FJ, Christ M, Keller D, Lindahl B, Giannitsis E, Mueller C; APACE and TRAPID-AMI Investigators. JACC CardioOncol. 2023
- **Comprehensive vasodilatation in women with acute heart failure: Novel insights from the GALACTIC randomized controlled trial**
Wussler D, Belkin M, Maeder MT, Walter J, Shrestha S, Kupska K, Stierli M, Flores D, Kozhuharov N, Gualandro DM, de Oliveira Junior MT, Sabti Z, Noveanu M, Socrates T, Bayés-Genis A, Sionis A, Simon P, Michou E, Gujer S, Gori T, Wenzel P, Pfister O, Arenja N, Kobza R, Rickli H, Breidthardt T, Münzel T, Mueller C; GALACTIC Investigators. Eur J Heart Fail. 2023
- **Machine learning for diagnosis of myocardial infarction using cardiac troponin concentrations**
Doudesis D, Lee KK, Boeddinghaus J, Bularga A, Ferry AV, Tuck C, Lowry MTH, Lopez-Ayala P, Nestelberger T, Koechlin L, Bernabeu MO, Neubeck L, Anand A, Schulz K, Apple FS, Parsonage W, Greenslade JH, Cullen L, Pickering JW, Than MP, Gray A, Mueller C, Mills NL; CoDE-ACS Investigators. Nat Med. 2023
- **Hyperacute T Wave in the Early Diagnosis of Acute Myocardial Infarction**
Koechlin L, Strebel I, Zimmermann T, Nestelberger T, Walter J, Lopez-Ayala P, Boeddinghaus J, Shrestha S, Arslani K, Stefanelli S, Reuthebuch B, Wussler D, Ratmann PD, Christ M, Badertscher P, Wildi K, Giménez MR, Gualandro DM, Miró Ó, Fuenzalida C, Martin-Sanchez FJ, Kaweckí D, Bürgler F, Keller DI, Abächerli R, Reuthebuch O, Eckstein FS, Twerenbold R, Reichlin T, Mueller C; APACE investigators. Ann Emerg Med. 2023
- **Sex-specific differences in myocardial injury incidence after COVID-19 mRNA-1273 booster vaccination**
Buergin N, Lopez-Ayala P, Hirsiger JR, Mueller P, Median D, Glarner N, Rumora K, Herrmann T, Koechlin L, Haaf P, Rentsch K, Battegay M, Banderet F, Berger CT, Mueller C. Eur J Heart Fail. 2023
- **Long-term outcomes of perioperative myocardial infarction/injury after non-cardiac surgery**
Puelacher C, Gualandro DM, Glarner N, Lurati Buse G, Lampart A, Bolliger D, Steiner LA, Grossenbacher M, Burri-Winkler K, Gerhard H, Kappos EA, Clerc O, Biner L, Zivzivadze Z, Kindler C, Hammerer-Lercher A, Filipovic M, Clauss M, Gürke L, Wolff T, Mujagic E, Bilici M, Cardozo FA, Osswald S, Caramelli B, Mueller C; BASEL-PMI Investigators. Eur Heart J. 2023

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- **Acute heart failure after non-cardiac surgery: incidence, phenotypes, determinants and outcomes**
Gualandro DM, Puelacher C, Chew MS, Andersson H, Lurati Buse G, Glarner N, Mueller D, Cardozo FAM, Burri-Winkler K, Mork C, Wussler D, Shrestha S, Heidelberger I, Fält M, Hidvegi R, Bolliger D, Lampart A, Steiner LA, Schären S, Kindler C, Gürke L, Rikli D, Lardinois D, Osswald S, Buser A, Caramelli B, Mueller C; BASEL-PMI Investigators. Eur J Heart Fail. 2023
- **Quantifying inflammation using interleukin-6 for improved phenotyping and risk stratification in acute heart failure**
Michou E, Wussler D, Belkin M, Simmen C, Strebel I, Nowak A, Kozuharov N, Shrestha S, Lopez-Ayala P, Sabti Z, Mork C, Diebold M, Péquignot T, Rentsch K, von Eckardstein A, Gualandro DM, Breidhardt T, Mueller C. Eur J Heart Fail. 2023
- **The Flt3-inhibitor quizartinib augments apoptosis and promotes maladaptive remodeling after myocardial infarction in mice**
Monogiou Belik D, Bernasconi R, Xu L, Della Verde G, Lorenz V, Grüterich V, Balzarolo M, Mochizuki M, Pfister O, Kuster GM. Apoptosis. 2023

