

Institut für herz- und gefäßchirurgische Forschung

Institutsleitung: Prim. Univ. Prof. Dr. Martin Grabenwöger

Wissenschaftliche Publikationen 2021 im Rahmen des Karl Landsteiner Instituts:

M. Grabenwöger. Rezidiveingriffe nach Aortendissektion Typ A. Cardiovascular Surgical Symposium, Riegersburg, Austria, October 8-10, 2021

M. Harrer. Erweitertes Anwendungsgebiet der transapikalen transkatheter Klappenimplantation. Cardiovascular Surgical Symposium, Riegersburg, Austria, October 8-10, 2021

N. Howanietz. Bypassverschluss, Redo mit EC Bypass Cardiovascular Surgical Symposium, Riegersburg, Austria, October 8-10, 2021

Wissenschaftliche Publikationen aus 2021:

Aschacher T, Schmidt K, Aschacher O, Eichmair E, Baranyi U, Winkler B, Grabenwoeger M, Spittler A, Enzmann F, Messner B, Riebandt J, Laufer G, Bergmann M, Ehrlich M. Telocytes in the human ascending aorta: Characterization and exosome-related KLF-4/VEGF-A expression. *J Cell Mol Med.* 2021, Oct;25(20):9697-9709

Aschacher T, Baranyi U, Aschacher O, Eichmair E, Messner B, Zimpfer D, Moayedifar R, Laufer G, Emmert MY, Sandner SE. A Novel Endothelial Damage Inhibitor Reduces Oxidative Stress and Improves Cellular Integrity in Radial. Artery Grafts for Coronary Artery Bypass. *Front Cardiovasc Med.* 2021 Oct 6;8:736503.

Grabenwöger M, Mach M, Mächler H, Arnold Z, Pisarik H, Folkmann S, Harrer ML, Geisler D, Moidl R, Winkler B, Bonatti J, Czerny M, Weiss G. Taking the frozen elephant trunk technique to the next level by a stented side branch for a left subclavian artery connection: a feasibility study. *Eur J Cardiothorac Surg.* 2021 Jun 14;59(6):1247-1254

Geisler D, Rudziński PN, Hasan W, Andreas M, Hasimbegovic E, Adlbrecht C, Winkler B, Weiss G, Strouhal A, Delle-Karth G, Grabenwöger M, Mach M. Identifying Patients without a Survival Benefit following Transfemoral and Transapical Transcatheter Aortic Valve Replacement. *J Clin Med.* 2021 Oct 24;10(21):4911

Mach M, Poschner T, Hasan W, Szalkiewicz P, Andreas M, Winkler B, Geisler S, Geisler D, Rudziński PN, Watzal V, Strouhal A, Adlbrecht C, Delle-Karth G, Grabenwöger M. The Iliofemoral tortuosity score predicts access and bleeding complications during transfemoral transcatheter aortic valve replacement: Data from the Vienna Cardio Thoracic aOrtic valve registrY (VICTORY). *Eur J Clin Invest.* 2021 Jun;51(6):e13491.

Grabenwöger M, Weiss G. Reply to Maze and Tokui. *Eur J Cardiothorac Surg.* 2021 Dec 29:ezab486.

Weiss G, Grabenwöger M. Thoracic aortic endovascular repair or open surgery after frozen elephant trunk?-the last word has not been spoken yet! *Eur J Cardiothorac Surg.* 2021 Dec 27;61(1):130-131.

Hasimbegovic E, Papp L, Grahovac M, Krajnc D, Poschner T, Hasan W, Andreas M, Gross C, Strouhal A, Delle-Karth G, Grabenwöger M, Adlbrecht C, Mach M. A Sneak-Peek into the Physician's Brain: A Retrospective Machine Learning-Driven Investigation of Decision-Making in TAVR versus SAVR for Young High-Risk Patients with Severe Symptomatic Aortic Stenosis. *J Pers Med.* 2021 Oct 22;11(11):1062.

Mach M, Watzal V, Cuhaj C, Hasan W, Poschner T, Szalkiewicz P, Strouhal A, Adlbrecht C, Delle-Karth G, Grabenwöger M, Winkler B. The impact of antiplatelet and antithrombotic regimen after TAVI: Data from the Vienna CardioThoracic Aortic Valve Registry (VICTORY). *Eur J Clin Invest*. 2021 Sep;51(9):e13589.

Bonatti J, Crailsheim I, Grabenwöger M, Winkler B. Minimally Invasive and Robotic Mitral Valve Surgery: Methods and Outcomes in a 20-Year Review. *Innovations (Phila)*. 2021 Jul-Aug;16(4):317-326.

Mach M, Poschner T, Hasan W, Kerbel T, Szalkiewicz P, Hasimbegovic E, Andreas M, Gross C, Strouhal A, Delle-Karth G, Grabenwöger M, Adlbrecht C, Schober A. Transcatheter versus Isolated Surgical Aortic Valve Replacement in Young High-Risk Patients: A Propensity Score-Matched Analysis. *J Clin Med*. 2021 Aug 3;10(15):3447.

Mach M, Szalkiewicz P, Poschner T, Hasan W, Andreas M, Winkler B, Hasimbegovic E, Steinkellner T, Strouhal A, Adlbrecht C, Delle-Karth G, Grabenwöger M. The use of semi-compliant versus non-compliant balloon systems for predilatation during the implantation of self-expandable transcatheter aortic valves: Data from the Vienna CardioThoracic Aortic Valve Registry (VICTORY). *Eur J Clin Invest*. 2021 Sep;51(9):e13570

Bonatti J, Wallner S, Crailsheim I, Grabenwöger M, Winkler B. Minimally invasive and robotic coronary artery bypass grafting-a 25-year review. *J Thorac Dis*. 2021 Mar;13(3):1922-1944.