

Wissenschaftliche Publikationen 2021:

- 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. doi: 10.3390/jcm10153447. PMID: 34362230; PMCID: PMC8346998.
- Steeds RP, Messika-Zeitoun D, Thambyrajah J, Serra A, Schulz E, Maly J, Aiello M, Rudolph TK, Lloyd G, Bortone AS, Clerici A, Delle-Karth G, Rieber J, Indolfi C, Mancone M, Belle L, Lauten A, Arnold M, Bouma BJ, Lutz M, Deutsch C, Kurucova J, Thoenes M, Bramlage P, Frey N; IMPULSE registry group. IMPULSE: the impact of gender on the presentation and management of aortic stenosis across Europe. *Open Heart*. 2021 Jan;8(1):e001443. doi: 10.1136/openhrt-2020-001443. PMID: 33419934; PMCID: PMC7798778.
- Jordakieva G, Budge-Wolfram RM, Budinsky AC, Nikfardjam M, Delle-Karth G, Girard A, Godnic-Cvar J, Crevenna R, Heinz G. Plasma MMP-9 and TIMP-1 levels on ICU admission are associated with 30-day survival. *Wien Klin Wochenschr*. 2021 Feb;133(3-4):86-95. doi: 10.1007/s00508-019-01592-x. Epub 2020 Jan 13. PMID: 31932967; PMCID: PMC7875947.
- Lauten A, Rudolph TK, Messika-Zeitoun D, Thambyrajah J, Serra A, Schulz E, Frey N, Maly J, Aiello M, Lloyd G, Bortone AS, Clerici A, Delle-Karth G, Rieber J, Indolfi C, Mancone M, Belle L, Arnold M, Bouma BJ, Lutz M, Deutsch C, Kurucova J, Thoenes M, Bramlage P, Steeds RP. Management of patients with severe aortic stenosis in the TAVI-era: how recent recommendations are translated into clinical practice. *Open Heart*. 2021 Jan;8(1):e001485. doi: 10.1136/openhrt-2020-001485. PMID: 33431618; PMCID: PMC7802661.
- 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. doi: 10.1111/eci.13491. Epub 2021 Feb 2. PMID: 33432599; PMCID: PMC8243921.
- 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. doi: 10.3390/jcm10214911. PMID: 34768430; PMCID: PMC8584860.
- Lamm G, Hammerer M, Hoppe UC, Andreas M, Berger R, Binder RK, Bonaros N, Delle-Karth G, Frick M, Grund M, Metzler B, Neunteufl T, Pichler P, Schmidt A, Wisser W, Zierer A, Seitelberger R, Grimm M, Geppert A; ÖKG and ÖGHTG. 2020 update of the Austrian Society of Cardiology (ÖKG) and the Austrian Society of Cardiac Surgery (ÖGHTG) on the position statement of the ÖKG and ÖGHTG for transcatheter aortic valve implantation 2011. *Wien Klin Wochenschr*. 2021 Aug;133(15-16):750-761. doi: 10.1007/s00508-021-01820-3. Epub 2021 Mar 23. PMID: 33755758.
- 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. doi: 10.3390/jpm11111062. PMID: 34834414; PMCID: PMC8622882.
- 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. doi: 10.1111/eci.13589. Epub 2021 Jun 13. PMID: 34120335.

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. doi: 10.1111/eci.13570. Epub 2021 May 6. PMID: 33954997; PMCID: PMC8459263.