

Curriculum vitae



name: Dr. med. Markus Udo Wagenhäuser
date of birth: October 7, 1983
place of birth: Würzburg

education:

1990-1994 primary school

1994-1999 secondary school

2000 GCSE (General Certificate of Secondary Education), Aarden-Lawn-School in Henley in Arden, UK

2003 Abitur, Ignaz-Taschner Gymnasium, Dachau, Germany

medical school:

2004-2006 Friedrich-Alexander-University Erlangen

2006-2011 Ludwig-Maximilians-University Munich

practical experience:

Feb 2010-Jun 2010 Schulthess Klinik, Zürich, Switzerland (Orthopedics)

Jun 2010-Okt 2010 Victoria Hospital, Cape Town, South Africa (Medicine)

Okt 2010-Jan 2011 Ingolstadt, Germany (Surgery)

Sep 2011 – Jun 2013 Department of Visceral, Thoracic and Vascular Surgery, Technical University of Dresden, Campus Carl-Gustav Carus, Germany (common trunk, Surgery)

Jun 2013-Nov 2015 Department of Vascular- and Endovascular Surgery, Heinrich-Heine University Düsseldorf, Germany (Resident Vascular Surgery)

Nov 2015 – 2018 Postdoctoral Fellowship Tsao Lab, Department of Cardiovascular Medicine, Stanford University, CA, USA.

2018 - present Department of Vascular- and Endovascular Surgery, Heinrich-Heine University Düsseldorf, Germany (Resident Vascular Surgery)

Scientific experience/publications:

Thesis

Medical Faculty, Ludwig-Maximilians-University Munich, Jan 2012, Markus U. Wagenhäuser. **Title:** Untersuchung und Charakterisierung unterschiedlicher Tenocyten und vergleichende Prüfung der Biofunktionalität und Biomechanik eines Polyester- und eines Kollagenzellträgers

Publications:

Full-length manuscripts:

Wagenhäuser MU, Pietschmann MF, Sievers B, Docheva D, Schieker M, Jansson V, Müller PE. Collagen type I and decorin expression in tenocytes depend on the cell isolation method. *BMC Musculoskelet Disord* 2012;13(1):140.

Pietschmann MF, **Wagenhäuser MU**, Docheva D, Gülecüyz MF, Jansson V, Müller P.E. The long head of the biceps tendon is a suitable cell source for tendon tissue regeneration. *Arch Med Sci.* 2014 29;10(3):587-96.

Wagenhäuser MU, Pietschmann MF, Docheva D, Gülecüyz MF, Jansson V, Müller P.E. Müller. Assessment of essential characteristics of two different scaffolds for tendon in situ regeneration. *Knee Surg Sports Traumatol Arthrosc.* 2015 Apr;23(4):1239-46. Impact factor: 3.097

Wagenhäuser MU, Rückert F, Niedergethmann M, Grützmann R, Saeger HD. Distribution of characteristic mutations in native ductal adenocarcinoma of the pancreas and pancreatic cancer cell lines. *Cell Biol: Res Ther* 2013, 2:2

Sagban TA, Scharf RE, **Wagenhäuser MU**, Oberhuber A, Schelzig H, Grabitz K, Duran M. Elevated risk of thrombophilia in agenesis of the vena cava as a factor for deep vein thrombosis. *Orphanet J Rare Dis.* 2015 Jan 21;10:3.

Wagenhäuser MU, Herma KB, Sagban TA, Dueppers P, Schelzig H, Duran M: Long-term results of open repair of popliteal artery aneurysm. *Ann Med Surg* 2015 Mar;4:58–63.

Wagenhäuser MU., Duran M., Dueppers P., Witte M., Schelzig H., Oberhuber A.: Preliminary results of transcutaneous oxygen pressure measurement as effective monitoring for conservative therapy in peripheral occlusive disease. *Ital J Vasc Endovasc* 2015, 22(4):163-70.

Ficklscherer A, Gülecüyz MF, Niethammer T, **Wagenhäuser MU**, Mueller PE, Pietschmann MF, Jansson V: Testing the feasibility and safety of a Nintendo Wii gaming console in orthopedic rehabilitation: A pilot randomized controlled study. *Arch Med Sci.* 2016 Aug 12(4).

Dueppers P, Grabitz K, Li Y, Schelzig H, **Wagenhäuser MU**, Duran M: Surgical management of iliofemoral vein thrombosis during pregnancy and the puerperium. *J Vasc Surg Venous Lymphat Disord.* 2016 Oct;4(4):392-9.

Wagenhäuser MU, Mulorz J, Ibing W, Simon F, Spin JM, Schelzig H, Oberhuber A: Oxidized (non)-regenerated cellulose affects fundamental cellular processes of wound healing. *Sci Rep.* 2016 Aug 25;6:32238

Ficklscherer A, Stapf J, Meissner KM, Niethammer T, Lahner M, **Wagenhäuser MU**, Müller PE, Pietschmann MF: Testing the feasibility and safety of the Nintendo Wii gaming console in orthopedic rehabilitation: a pilot randomized controlled study. *Arch Med Sci.* 2016 Dec 1;12(6):1273-1278

Wagenhäuser MU, Meyer-Janiszewski YK, Dueppers P, Spin JM, Floros N, Schelzig H, Duran M. Chronic Mesenteric Ischemia: Patient Outcomes Using Open Surgical Revascularization. *Dig Surg.* 2017;34(4):340-349.

Floros N, Papadakis M, **Wagenhäuser MU**, Duran M, Schelzig H, Oberhuber A. Outcomes after open-surgery for inflammatory abdominal aortic aneurysm: a 10-year single-centre experience. *Ann Vasc Surg*. 2017 Aug;43:144-15.

Mulorz J, **Wagenhäuser MU**, Janiszewski YK, Dueppers P, Simon F, Schelzig H, Duran M. Retrograde aortomesenteric Bypass with left-retrorenal route - "French Bypass" in 16 cases of chronic mesenteric ischemia. *Ann Vasc Surg*. 2017 Oct;44:381-386.

Wagenhäuser MU, Sadat H, Dueppers P, Meyer-Janiszewski YK, Spin JM, Schelzig H, Duran M. Open surgery for iliofemoral deep vein thrombosis with temporary arteriovenous fistula remains valuable. *Phlebology*. 2018 Oct;33(9):600-609.

Güleçyüz MF, Kraus-Petersen M, Schröder C, Ficklscherer A, **Wagenhäuser MU**, Braun C, Müller PE, Pietschmann MF: The Primary Stability of a Bioabsorbable Poly-L-Lactic Acid Suture Anchor for Rotator Cuff Repair Is Not Improved with Polymethylmethacrylate or Bioabsorbable Bone Cement Augmentation. *HSS J*. 2018 Feb;14(1):15-22.

Toyama K, Spin JM, Deng AC, Ke W, Yoshino T, **Wagenhäuser MU**, Nguyen H, Huang TT, Uwe Raaz U, Adam M, Jagger A, Tsao PS: microRNA-Mediated Therapy Modulating Blood-Brain Barrier Disruption Improves Vascular Cognitive Impairment. *Arterioscler Thromb Vasc Biol*. 2018 Jun;38(6):1392-1406.

Adam M, Kooreman N, Jagger A, **Wagenhäuser MU**, Mehrkens D, Wang Y, Yosuke Kayama Y, Toyama K, Raaz U, Schellinger IN, Maegdefessel L, Spin JM, Hamming JF, Quax PHA, Baldus S, Wu JC, Tsao PS: Systemic upregulation of IL-10 using a non-immunogenic vector reduces abdominal aortic aneurysm growth and dissection rate. *Arterioscler Thromb Vasc Biol*. 2018 Aug;38(8):1796-1805.

Wagenhäuser MU, Schellinger IN, Yoshino T, Toyama K, Kayama Y, Deng A, Guenther SP, Petzold A, Mulorz J, Mulorz P, Hasenfuß G, Ibing W, Elvers M, Schuster A, Ramasubramanian AK, Adam M, Schelzig H, Spin JM, Raaz U, Tsao PS. Chronic Nicotine Exposure Induces Murine Aortic Remodeling and Stiffness Segmentation-Implications for Abdominal Aortic Aneurysm Susceptibility. *Front Physiol*. 2018 Oct 31;9:1459.

Nguyen DM, **Wagenhäuser MU**, Mehrkens D, Adam M, Tsao PS, Ramasubramanian AK. An Automated Algorithm to Quantify Collagen Distribution in Aortic Wall. *J Histochem Cytochem*. 2019 Apr;67(4):267-274.

Dueppers P, Duran M, Floros N, Schelzig H, **Wagenhäuser MU**, Oberhuber A. The JOTEC iliac branch device for exclusion of hypogastric artery aneurysms-ABRAHAM study. *J Vasc Surg*. 2019 Sep;70(3):748-755.

Wagenhäuser MU, Dimopoulos C, Antakyali K, Meyer-Janiszewski YK, Mulorz J, Ibing W, Ertas N, Spin JM, Schelzig H, Duran M. Clinical outcomes after direct and indirect surgical venous thrombectomy for inferior vena cava thrombosis. *J Vasc Surg Venous Lymphat Disord*. 2019 May;7(3):333-343.e2

Wagenhäuser MU, Garabet W, van Bonn M, Ibing W, Mulorz J, Rhee YH, Spin JM, Dimopoulos C, Oberhuber A, Schelzig H, Simon F. Time-dependent effects of cellulose and gelatin-based hemostats on cellular processes of wound healing. *Arch Med Sci* (accepted for publication)

Short communication:

Toyama K, Spin JM, Suzuki Y, Deng AC, **Wagenhäuser MU**, Yoshino Y, Mulorz J, Shuang L, Tsao PS, Masaki M. Controlled isoflurane anesthesia exposure is required for reliable behavioral testing in murine surgical models. *J Pharmacol Sci* 2019.

Case studies:

Wagenhäuser MU, Ertas N, Sagban TA, Witte M, Hoffmann T, Schelzig H, Oberhuber A. A 61 year old man with disseminated intravascular coagulation: a case report. *Ann Vasc Surg*. 2014 Aug;28(6):1566.e17-22.

Dueppers P, Jankowiak S, Schelzig H, **Wagenhäuser MU**, Oberhuber A: Spontaneous rupture of an isolated iliac artery dissection in a young man because of cystic medial degeneration Erdheim-Gsell. Ann Vasc Surg 2015 Apr;29:596.e11–3.

Dueppers P, Schelzig H, **Wagenhäuser MU**, Oberhuber A: Crossover Thrombectomy of Hypogastric Arteries. Ann Vasc Surg 2015 Nov; 29:1689–92.

Rhee YH, Busch L, Sansone R, Kelm M, Ertas N, Floros N, Schelzig H, Mulorz, J, **Wagenhäuser MU**. Endovascular Occlusion of a Proximal Renal Arteriovenous Fistula with concomitant Aneurysm Formation for Rupture Prevention: A Case Report. J Vasc Case Rep (accepted for publication)

Reviews:

Wagenhäuser MU, Sagban TA, Witte M, Duran M, Schelzig H, Oberhuber A. Isolated dissection of the superior mesenteric artery treated using open emergency surgery. World J Emerg Surg. 2014 Aug 14;9:47.

Simon F, Oberhuber A, Floros N, Busch A, **Wagenhäuser MU**, Schelzig H, Duran M. Acute Limb Ischemia-Much More Than Just a Lack of Oxygen. Int J Mol Sci. 2018 Jan 26;19(2).

Knapsis A, Schelzig H, **Wagenhäuser MU**. Traumatische Gefäßverletzungen. Allgemein- und Viszeralchirurgie up2date 2019; 13(03): 207-222

Konservative Therapie der peripheren arteriellen Verschlusskrankheit. Düppers P, Floros N, Oberhuber A, Schelzig H, **Wagenhäuser MU**, Simon F. Gefässchirurgie 24 (5), 431-440.

Awards:

2014: Dr. Joscha Mulorz: MaGic – predoctoral research fellow award of the German Society of Vascular Surgery (mentor)

2015: Poster Presentation Award, European Society of Vascular Surgery, Frankfurt, Germany

2015: Research Award, German Society for Vascular Surgery, Münster, Germany

2015: DFG Research Fellowship 2015-2017

2017: Exchange Idea Award, Cardiovascular Institute, Stanford University School of Medicine, Minneapolis, MN, CA

2018: Young Investigator Award, Austrian Society for Vascular Surgery, Vienna, Austria

2019: Rhee YH, Promotionsstipendium der Deutschen Gesellschaft für Gefäßchirurgie und Gefäßmedizin. (mentor)