

DR. MED. UNIV. ALEXANDRU-CRISTIAN TUCA

BOARD-CERTIFIED PLASTIC, RECONSTRUCTIVE AND AESTHETIC SURGEON

PROFESSIONAL SUMMARY

Highly accomplished and board-certified Plastic, Reconstructive, and Aesthetic Surgeon with a strong academic background, extensive surgical experience across Austrian clinical institutions, and a prolific record of peer-reviewed scientific research.

PROFESSIONAL EXPERIENCE

Since 01 Jan 2025

Board-Certified Plastic, Reconstructive and Aesthetic Surgeon

Self-employed specialist with private practices in Graz and Fürstenfeld, Austria

Since 03 Oct 2022

Research Associate & Consultant Plastic Surgeon

Division of Plastic, Aesthetic and Reconstructive Surgery, Department of Surgery, Medical University of Graz, Austria

01 Mar 2023 - 31 Dec 2024

Head of the Plastic Surgery Outpatient Clinic & Lead Attending Plastic Surgeon

Güssing Hospital, Austria

03 Oct 2022 - 31 Dec 2024

Consultant Surgeon

Department of Surgery, Güssing Hospital, Austria

03 Jul 2017 - 30 Sep 2022

Resident in Plastic, Aesthetic and Reconstructive Surgery

Department of Surgery, Medical University of Graz, Austria

01 Jan 2017 - 30 Jun 2017

Intern (Basic Medical Training)

Department of Surgery, Medical University of Graz, Austria

03 Oct 2016 - 31 Dec 2016

Intern (Basic Medical Training)

Department of Internal Medicine, Oberwart Hospital, Austria

11 Nov 2009 - 31 May 2016

Research Associate

Division of Endocrinology and Metabolism, Department of Internal Medicine, Medical University of Graz, Austria

EDUCATION

06/2022 09/2016

Board Certification - Plastic, Reconstructive and Aesthetic Surgery

Medical Degree (Dr. med. univ.)

Medical University of Graz, Austria

AWARDS

- 2021 Research Award of the Austrian Society for Plastic, Aesthetic and Reconstructive Surgery (ÖGPÄRC) and the Sigmund Freud Private University Vienna (SFU)
- 2021 Poster Award of the Austrian Society for Plastic, Aesthetic and Reconstructive Surgery (ÖGPÄRC)
- 2017 'Suprathel Young Investigator Challenge 2016' - awarded by PMI

· 2016 Poster Award for 'Safety and efficacy of a clinical decision support system for blood glucose management in patients with diabetes mellitus type 2 at a plastic-surgical ward' - 4th Graz Risk Day, 'Patient Safety in Clinical Practice'

SCIENTIFIC PUBLICATIONS

1. Berger, MF; Winter, R; Tuca, AC; Michelitsch, B; Schenkenfelder, B; Hartmann, R; Giretzlehner, M; Reishofer, G; Kamolz, LP; Lumenta, DB. Workflow assessment of an augmented reality application for planning of perforator flaps in plastic reconstructive surgery: Game or game changer? Digit Health. 2023; 9: 20552076231173554 Doi: 10.1177/20552076231173554
2. Hasiba-Pappas, S; Kamolz, LP; Luze, H; Nischwitz, SP; Holzer-Geissler, JC; Tuca, AC; Rienmüller, T; Polz, M; Ziesel, D; Winter, R. Does Electrical Stimulation through Nerve Conduits Improve Peripheral Nerve Regeneration?-A Systematic Review. J Pers Med. 2023; 13(3): Doi: 10.3390/jpm13030414
3. Sawetz, I; Hasiba-Pappas, S; Kamolz, LP; Holzer-Geissler, JC; Tuca, AC; Lumenta, DB; Wegscheider, T; Luze, H; Nischwitz, SP; Winter, R. Introducing the 'SIMline'-A Simulation Course in the Management of Severe Burns as a Tool in Undergraduate Medical Education. J Pers Med. 2023; 13(2): 338 Doi: 10.3390/jpm13020338
4. Winter, R; Hasiba-Pappas, S; Kamolz, LP; Tschauner, S; Bamer, O; Tuca, AC; Luze, H; Nischwitz, SP; Michelitsch, B; Friedl, H; Lumenta, DB; Girsch, W. Radiological Influencing Factors in the Diagnosis of Painful Habitual Instability of the Thumb Basal Joint as a Precursor of Carpometacarpal Arthritis of the Thumb-A Retrospective Study. J Pers Med. 2023; 13(5): Doi: 10.3390/jpm13050704
5. Winter, R; Tuca, AC; Justich, I; Tschauner, S; Friedl, H; Girsch, W; Lebo, P; Zrim, R; Lumenta, DB; Kamolz, LP. Minimal invasive treatment of trapeziometacarpal osteoarthritis: Results of a blinded, randomized controlled trial. Plast Reconstr Surg. 2023; Doi: 10.1097/PRS.000000000010516
6. Winter, R; Hasiba-Pappas, SK; Tuca, AC; Zrim, R; Nischwitz, S; Popp, D; Lumenta, DB; Girsch, W; Kamolz, LP. Autologous Fat and Platelet-Rich Plasma Injections in Trapeziometacarpal Osteoarthritis: A Systematic Review and Meta-Analysis. Plast Reconstr Surg. 2023; 151(1):119-131 Doi: 10.1097/PRS.0000000000009789
7. Luze, H; Bernardelli, de, Mattos, I; Nischwitz, SP; Funk, M; Tuca, AC; Kamolz, LP. The Impact of Antiseptic-Loaded Bacterial Nanocellulose on Different Biofilms-An Effective Treatment for Chronic Wounds? J Clin Med. 2022; 11(22): 6634 Doi: 10.3390/jcm11226634
8. Regittnig, W; Tschaikner, M; Tuca, AC; Simic, A; Feiel, J; Schaller-Ammann, R; Licht, AH; Jungklaus, M; Pieber, TR. Insulin induces a progressive increase in the resistance of subcutaneous tissue to fluid flow: Implications for insulin pump therapy. Diabetes Obes Metab. 2022; 24(3):455-464 Doi: 10.1111/dom.14594
9. Tuca, AC; Bernardelli, de, Mattos, I; Funk, M; Winter, R; Palackic, A; Groeber-Becker, F; Kruse, D; Kukla, F; Lemarchand, T; Kamolz, LP. Orchestrating the Dermal/Epidermal Tissue Ratio during Wound Healing by Controlling the Moisture Content. Biomedicines. 2022; 10(6): Doi: 10.3390/biomedicines10061286
10. Grohmann, M; Weiland, T; Tuca, AC; Wimbauer, JM. Earlobe Correction of the Pierced Ear: A Systematic Review of the Literature and Principles for Surgical Reconstruction. Facial Plast Surg Aesthet Med. 2022; Doi: 10.1089/fpsam.2021.0269
11. Hasiba-Pappas, SK; Tuca, AC; Luze, H; Nischwitz, SP; Zrim, R; Geißler, JC; Lumenta, DB; Kamolz, LP; Winter, R. Platelet-Rich Plasma in Plastic Surgery: A Systematic Review. Transfus Med Hemother. 2022; 49(3):129-142 Doi: 10.1159/000524353
12. Wolfsberger, CH; Maitz, E; Schmachtl, P; Winkler, S; Luschnig, D; Sigl, E; Heinzle, A; Gamerith, C; Tuca, AC; Schintler, MV. Feasibility of collecting wound fluid during ongoing negative pressure wound therapy by the use of an additional container - A prospective observational study. Int Wound J. 2022; Doi: 10.1111/iwj.13709
13. Regittnig, W; Tschaikner, M; Tuca, AC; Simic, A; Feiel, J; Schaller-Ammann, R; Licht, AH; Jungklaus, M; Pieber, TR. Insulin induces a progressive increase in the resistance of subcutaneous tissue to fluid flow: Implications for insulin pump therapy. [Duplicate Entry in CV]
14. Nischwitz, SP; Luze, H; Schellnegger, M; Gatterer, SJ; Tuca, AC; Winter, R; Kamolz, LP. Thermal, Hyperspectral, and Laser Doppler Imaging: Non-Invasive Tools for Detection of The Deep Inferior Epigastric Artery Perforators-A Prospective Comparison Study.

15. Nischwitz SP, Popp D, Sawetz I, Smolle C, Tuca A-C, Luze H, et al. Burns in pandemic times - The Graz way towards COVID-19 and back. *Burns*. 2021;47(1):234-9.
16. Lichtenegger KM, Aberer F, Tuca AC, Donsa K, Höll B, Schaupp L, et al. Safe and Sufficient Glycemic Control by Using a Digital Clinical Decision Support System for Patients With Type 2 Diabetes in a Routine Setting on General Hospital Wards. *J Diabetes Sci Technol*. 2021 Mar;15(2):231-5.
17. Tuca A-C, Münch J, Schwappach DLB, Borenich A, Banfi C, Mautner S, et al. Implementation status of morbidity and mortality conferences in Austrian hospitals-A cross-sectional national survey study. *PLoS One*. 2021;16(3):e0248692.
18. Vonbrunn E, Mueller M, Pichlsberger M, Sundl M, Helmer A, Wallner SA, et al. Electrospun PCL/PLA Scaffolds Are More Suitable Carriers of Placental Mesenchymal Stromal Cells Than Collagen/Elastin Scaffolds and Prevent Wound Contraction in a Mouse Model of Wound Healing. *Front Bioeng Biotechnol*. 2020;8:604123.
19. Bernardelli de Mattos I, Nischwitz SP, Tuca A-C, Groeber-Becker F, Funk M, Birngruber T, et al. Delivery of antiseptic solutions by a bacterial cellulose wound dressing: Uptake, release and antibacterial efficacy of octenidine and povidone-iodine. *Burns*. 2020;46(4):918-27.
20. Benedikt S, Tuca A-C, Palackic A, Wurzer P, Popp D, Tapking C, et al. Re-evaluation of websites from burn centers in Austria, Germany and Switzerland. *Burns*. 2019;45(1):220-7.
21. Rappl T, Wurzer P, May S, Tuca AC, Cambiaso-Daniel J, Parvizi D, et al. Three-Dimensional Evaluation of Static and Dynamic Effects of Botulinum Toxin A on Glabellar Frown Lines. *Aesthetic Plast Surg*. 2019;43(1):206-12.
22. Winter R, Reischies FMJ, Tuca A, Wurzer P, Schubert C, Wolfsberger CH, et al. BMI and specimen weight: impact on personalized risk profiling for optimized informed consent in breast reduction surgery? *Sci Rep* 2019;9(1): 12690.
23. de Mattos IB, Holzer JCJ, Tuca A-C, Groeber-Becker F, Funk M, Popp D, et al. Uptake of PHMB in a bacterial nanocellulose-based wound dressing: A feasible clinical procedure. *Burns*. 2019;45(4):898-904.
24. Ertl J, Pichlsberger M, Tuca A-C, Wurzer P, Fuchs J, Geyer SH, et al. Comparative study of regenerative effects of mesenchymal stem cells derived from placental amnion, chorion and umbilical cord on dermal wounds. *Placenta* 2018;65:37-46.
25. Winter R, Haug I, Lebo P, Grohmann M, Reischies FMJ, Cambiaso-Daniel J, et al. Standardizing the complication rate after breast reduction using the Clavien-Dindo classification. *Surgery*. 2017;161(5):1430-5.
26. Reischies FMJ, Krause R, Holzer J, Tiefenbacher F, Winter R, Eylert G, et al. What can we learn from sonication results of breast implants? *PLoS One* 2017;12(8):e0182267.
27. Smolle C, Tuca A, Wurzer P, Spindel SM, Forbes AA, Spindel S, et al. Complications in tissue expansion: A logistic regression analysis for risk factors. *Burns*. 2017 Sep;43(6):1195-202.
28. Parvizi D, Vasilyeva A, Wurzer P, Tuca A, Lebo P, Winter R, et al. Anatomy of the Vascularized Lateral Femoral Condyle Flap. *Plast Reconstr Surg*. 2016 Jun;137(6):1024e-1032e.
29. Tuca A-C, Ertl J, Hingerl K, Pichlsberger M, Fuchs J, Wurzer P, et al. Comparison of Matrigel and Matriderm as a carrier for human amnion-derived mesenchymal stem cells in wound healing. *Placenta* 2016;48:99-103.
30. Parvizi D, Giretzlehner M, Wurzer P, Klein LD, Shoham Y, Bohanon FJ, et al. BurnCase 3D software validation study: Burn size measurement accuracy and inter-rater reliability. *Burns* 2016 Mar;42(2):329-35.
31. Wurzer P, Parvizi D, Lumenta DB, Giretzlehner M, Branski LK, Finnerty CC, et al. Smartphone applications in burns. *Burns*. 2015 Aug;41(5):977-89.
32. Parvizi D, Friedl H, Wurzer P, Kamolz L, Lebo P, Tuca A, et al. A Multiple Regression Analysis of Postoperative Complications After Body-Contouring Surgery: a Retrospective Analysis of 205 Patients: Regression Analysis of Complications. *Obes Surg*. 2015 Aug;25(8):1482-90.
33. Parvizi D, Haas F, Peintinger F, Hubmer M, Rappl T, Koch H, et al. First experience using contrast-enhanced ultrasound to evaluate vascularisation of acellular dermal matrices after implant-based breast reconstruction. *Breast J*. 2014;20(5):461-7
34. Wurzer P, Spindel S, Kamolz LP, Parvizi D, Tuca A, Rappl T. Is there a psychological and physiological difference between DIEP- and free TRAM-flap? A retrospective patient survey. *Handchir Mikrochir Plast Chir* 2014 Aug;46(4): 256-62.

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