

Wissenschaftliche Tätigkeiten

Dr. med. Helena Milavec

Publikationen

Original Artikel

- 2011 Marbacher S, **Milavec H**, Neuschmelting V, Anderegg L, Erhardt S, Fandino J. Journal of Neuroscience Methods. Outer Skull landmark-based Coordinates for Measurement of Cerebral Blood Flow and Intracranial Pressure in Rabbits. J Neurosci Methods. 2011 Oct 15;201(2):322-6. doi: 10.1016/j.jneumeth.2011.08.009. Epub 2011 Aug 12.
- 2012 Sherif C, Gruber A, Schuster E, Lahnsteiner E, Gibson D, **Milavec H**, Feichter B, Wiesender M, Dorfer C, Krawagna M, Di Ieva A, Bavinszki G, Knosp E. Computerized occlusion rating: a superior predictor of aneurysm rebleeding for ruptured embolized aneurysms. AJNR Am J Neuroradiol. 2012 Sep;33(8):1481-7. doi: 10.3174/ajnr.A3085. Epub 2012 Apr 12.
- 2013 **Milavec H**, Gruber A, Schuster E, Lahnsteiner E, Dorfer C, Krawagna M, Knosp E, Sherif C. Computerized occlusion rating of embolized ruptured intracranial aneurysms: relation to intra- and postinterventional aneurysm rehemorrhage. Acta Neurochir Suppl. 2013;115:119-23.
- 2018 Hoppe S, Albers CE, Elfiky T, Deml MC, **Milavec H**, Bigdon SF, Benneker LM. First Results of a New Vacuum Plasma Sprayed (VPS) Titanium-Coated Carbon/PEEK Composite Cage for Lumbar Interbody Fusion. J Funct Biomater. 2018 Mar 14.
- 2019 **Milavec H**, Kellner C, Ravikumar N, Albers CE, Lerch T, Hoppe S, Deml MC, Bigdon SF, Kumar N, Benneker LM. First Clinical Experience with a Carbon Fibre Reinforced PEEK Composite Plating System for Anterior Cervical Discectomy and Fusion. J Funct Biomater. 2019 Jul 2.
- 2020 Deml MC, Mazuret Sepulveda CA, Albers CE, Hoppe S, Bigdon SF, Häckel S, **Milavec H**, Benneker LM: Anterior column reconstruction of the thoracolumbar spine with a new modular PEEK vertebral body replacement device: retrospective clinical and radiologic cohort analysis of 48 cases with 1.7-years follow-up. Eur Spine J. 2020 Dec;29(12):3194-3202. doi: 10.1007/s00586-020-06464-x. Epub 2020 May 28. PMID: 32468192.
- 2020 **Milavec H**, Ravikumar N, Syn NL, Yentia Soekjojo C, Chng WJ, Kumar N. Surgical Management of Multiple Myeloma With Symptomatic Involvement of the Spine. Int J Spine Surg. 2020 Oct;14(5):785-794. doi: 10.14444/7112. Epub 2020 Oct 23. PMID: 33097585.
- 2020 Kumar N, Patel R, Tan BWL, Tan JH, Pandita N, Sonawane D, Lopez KG, Wai KL, Hey HWD, Kumar A, Liu G. Asymptomatic Construct Failure after Metastatic Spine Tumor Surgery: A New Entity or a Continuum with Symptomatic Failure? Asian Spine J. 2021 Oct;15(5):636-649. doi: 10.31616/asj.2020.0167. Epub 2020 Oct 29. PMID: 33108848; PMCID: PMC8561154. Contribution: **Milavec H**.

- 2021 Kumar N, Patel R, Tan JH, Song J, Pandita N, Hey DHW, Lau LL, Liu G, Thambiah J, Wong HK. Symptomatic Construct Failure after Metastatic Spine Tumor Surgery. *Asian Spine J.* 2021 Aug;15(4):481-490. doi: 10.31616/asj.2020.0166. Epub 2020 Oct 29. PMID: 33108849; PMCID: PMC8377214. Contribution: **Milavec H**.
- 2023 Kumar N, Tan JYH, Chen Z, Ravikumar N, **Milavec H**, Tan JH. Intraoperative cell-salvaged autologous blood transfusion is safe in metastatic spine tumour surgery: early outcomes of prospective clinical study. *Eur Spine J.* 2023 May 16. doi: 10.1007/s00586-023-07768-4. PMID: 37191676.
- 2024 **Milavec H**, Gasser VT, Ruder TD, Deml MC, Hautz W, Exadaktylos A, Benneker LM, Albers CE. Supplementary value and diagnostic performance of computed tomography scout view in the detection of thoracolumbar spine injuries. *Emerg Radiol.* 2024 Jan 9. doi: 10.1007/s10140-023-02196-9. Epub ahead of print. PMID: 38194212.

Übersichtsarbeiten

- 2018 Kumar N, Patel R, Wadhwa AC, Kumar A, **Milavec H**, Sonawane D, Singh G, Benneker LM. Basic concepts in metal work failure after metastatic spine tumour surgery. *Eur Spine J.* 2018 Apr;27(4):806-814. Epub 2017 Dec 4. Review.

Buchbeiträge

- 2011 **Milavec H**, Gruber A, Schuster E, Lahnsteiner E, Dorfer C, Krawagna M, Knosp E, Sherif C. Computerized Occlusion Rating of Embolized Ruptured Intracranial Aneurysms: Relation to Intra- and Postinterventional Aneurysm Rehemorrhage. *Acta Neurochir Suppl.* 2013; 115:119-23.
- 2019 Bigdon SF, Benneker LM, Häckel S, Deml MC, **Milavec H**, Hopp, S, Albers CE: Imaging in patients with cervical spine pain after trauma-Sensitivity and specificity of X-Ray, CT and MRI. In *Swiss Medical Weekly* (Vol. 149, pp. 21S-21S). EMH Swiss medical Publishers LTD. (2019, June).

Case Reports

- 2020 Deml MC, Sedlmayer R, Tinikashvili I, Bigdon S, **Milavec H**, Eichenberger S, Fairhurst P. Acute Lumbar Paraspinal Compartment Syndrome after a Tug of War: A Case Report and Review of the Literature. *International Journal of Surgical Case Reports.* 1-4. 10.31487/j.IJSCR.2020.04.03.

Protokolle

- 2020 Kumar N, Tan JH, Ravikumar N, Yong J, Tan H, **Milavec H**, Rajesh RA, Aravind K, Kumar A Eysenbach G. Evaluation of the Feasibility of Transfusing Leucocyte Depletion Filter (LDF) Processed Intra-Operative Cell Salvage (IOCS) Blood in Metastatic Spine Tumour Surgery (MSTS): Protocol for a Non Randomised study. Accepted January 2020 to the JMIR Research Protocols (JRP)

Vorträge

- 2014 **Milavec H.** Anatomie der Zugangswege. 74th Annual Conference of Swiss Society of Orthopaedic Surgery and Traumatology, Baden (CHE)
- 2019 **Milavec H.** First Clinical Experience with a Carbon-Fibre-Reinforced PEEK Composite Plating System for Anterior Cervical Discectomy and Fusion. Singapore Spine Society 2nd Annual Meeting, Singapore (SGP)
- 2019 **Milavec H.** Surgical Management of Multiple Myeloma with Symptomatic Involvement of the Spine. Singapore Spine Society 2nd Annual Meeting, Singapore (SGP)
- 2019 **Milavec H.** Surgery-induced Spreading of Tumor Cells into the Circulatory System during Cement Augmentation in Metastatic Spinal Disease – A Pilot Study. 79th Annual Conference of Swiss Society of Orthopaedic Surgery and Traumatology, Baden (CHE)
- 2019 **Milavec H.** Surgical Management of Multiple Myeloma with Symptomatic Involvement of the Spine. 19th SGS Annual Meeting, St.Gallen (CHE)
- 2019 **Milavec H.** Surgery-induced Spreading of Tumor Cells into the Circulatory System during Cement Augmentation in Metastatic Spinal Disease – A Pilot Study. 19th SGS Annual Meeting, St.Gallen (CHE)
- 2020 **Milavec H.** Circulating tumour cells – curing locally but spreading systematically? International Spine Symposium Bern – Focus Tumour and Metastases, Bern (CHE)

Kongressbeiträge

- 2011 **Poster. Milavec H,** Gruber A, Schuster E, Lahnsteiner E, Dorfer C, Krawagna M, Knosp E, Sherif C. Computerized Occlusion Rating in Embolized Ruptured Intracranial Aneurysms and the Relation to Intra- and Postinterventional Aneurysm Rehemorrhage. Vasospasm 2011, Cincinnati (USA)
- 2011 **Poster. Milavec H,** Neuschmelting V, Marbacher S, Fandino J. Outer Skull Landmark Based Coordinates for Measurement of Cerebral Blood Flow and Intracranial Pressure in Rabbits. Vasospasm 2011, Cincinnati (USA)
- 2013 **Abstract.** Haenggi M, Serge Marbacher S, **Milavec H,** Takala J, Fandino J, Jakob S. Effect of Increasing Cardiac Output on Vasospasm in a Rabbit Model of Acute Subarachnoid Hemorrhage. Vasospasm 2013, Luzern (CHE)
- 2017 **Poster.** Deml MC, Benneker LM, Hoppe S, Ecker TM, Albers C, Keel MJB, **Milavec H,** Neukamp M. Preliminary Clinical and Radiological Results of an Expandable PEEK-Cage as Anterior Vertebral Body Replacement. 77th Annual Conference of Swiss Society of Orthopaedic Surgery and Traumatology 2017, St. Gallen (CHE)
- 2017 **Poster.** Deml MC, Benneker LM, Hoppe S, Ecker TM, Albers CE, Keel MJB, **Milavec H,** Neukamp MS: Preliminary clinical and radiologic results of an expandable PEEK-Cage as anterior vertebral body replacement. 77th Annual Conference of Swiss Society of Orthopaedic Surgery and Traumatology 2017, St. Gallen (CHE)

- 2017 **Abstract.** Deml MC, Hoppe S, Albers CE, **Milavec H**, Benneker LM, Neukamp MS: Sicherheit und Anwendbarkeit eines neuen, expandierbaren, modularen, ventralen PEEK-Wirbelkörperersatzsystems: initiale klinische und radiologische Ergebnisse in 39 Fällen.12. Jahrestagung der Deutschen Wirbelsäulengesellschaft 2017, Stuttgart (DEU)
- 2018 **Abstract.** Kumar N, Zaw AS, Patel R, Singla AP, Song J, **Milavec H**, Lim LL, Thambiah J, Liu G, Benneker LM: Symptomatic Implant/Construct Failure in Metastatic Spine Tumour Surgery (MSTS): Incidence, Categories & Management. 5th NCIS Annual Research Meeting (NCAM) 2018, Singapore (SGP)
- 2018 **Abstract.** **Milavec H**, Kellner C, Deml MC, Kumar N, Benneker LM. First Clinical Experience with a Carbon/PEEK Composite Plating System for Anterior Cervical Discectomy and Fusion (ACDF). Global Spine Congress 2018, Singapore (SGP)
- 2018 **Abstract.** Deml MC, Hoppe S, Albers CE, **Milavec H**, Bigdon SF, Benneker LM. Frühe klinische und radiologische Ergebnisse einer expandierbaren, ventralen, thorakolumbalen PEEK-Wirbelkörperersatz – retrospektive Kohortenanalyse von 39 Fällen. Deutscher Kongress für Orthopädie und Unfallchirurgie (DKOU) 2018, Berlin (DEU)
- 2018 **Poster.** Deml CM, Lagiadère CR, Schärer D, Benneker LM, Albers CE, Hoppe S, Bigdon SF, **Milavec H**. Führt die Kypho- und Vertebroplastie bei der Behandlung pathologischer Frakturen infolge von Wirbelsäulenmetastasen zu einem Austritt von zirkulierenden Tumorzellen in den peripheren Blutkreislauf? – Eine prospektive unizentrische Studie mit dem qualitativen ADNA-RT-PCR-Test. Kongress der Deutschen Gesellschaft für Wirbelsäulenchirurgie (DWG) 2018, Wiesbaden (DEU)
- 2019 **Abstract.** Bigdon SF, Amrein P, Hoppe S, Deml MC, Exadaktylos AE, **Milavec H**, Benneker LM, Albers CE: Sensitivität und Spezifität von Röntgen, CT und MRT bei Patienten nach Trauma der Halswirbelsäule. Deutscher Kongress für Orthopädie und Unfallchirurgie, Berlin (DEU)
- 2019 **Poster.** **Milavec H**, Ravikumar N, Syn Li-Xun N, Soekojo CY, Chng WJ, Kumar N. Surgical Management of Multiple Myeloma with Symptomatic Involvement of the Spine. 79th Annual Conference of Swiss Society of Orthopaedic Surgery and Traumatology, Baden (CHE)
- 2019 **Poster.** Bigdon SF, Benneker LM, Häckel S, Deml MC, **Milavec H**, Hoppe S, Albers CE: Imaging in patients with cervical spine pain after trauma – Sensitivity and specificity of X-Ray, CT and MRI. 79th Annual Conference of Swiss Society of Orthopaedic Surgery and Traumatology, Baden (CHE)
- 2019 **Poster.** Kumar N, Patel RS, Tan BWL, Singla AP, Khin LW, Ravikumar N, **Milavec H**, Kumar A, Hey HWD, Lau LL, Thambiah J, Liu G. Asymptomatic Construct Failure after Metastatic Spine Tumour Surgery: A new entity or a continuum with symptomatic failure. International Society for the Advancement of Spine Surgery (ISASS) 2019 – 19th Annual Conference, Anaheim, California (USA), Eurospine 2019, Helsinki (FIN) and Global Spine Congress 2019, in Toronto (CAN)
- 2019 **Poster.** Kumar N, Patel RS, Sonawane D, Song J, Singla AP, **Milavec H**, Ravikumar N, Ruiz JN, Hey HWD, Wong HK. Symptomatic Implant/Construct Failure After Metastatic Spine Tumour Surgery. Global Spine Congress 2019, in Toronto (CAN)
- 2019 **Poster.** Deml MC, Lagiadère CR, Schärer D, Benneker LM, Albers CE, Hoppe S, Bigdon SF, **Milavec H**: Cement Augmentation Procedures in Metastatic Spinal Disease: Is there Increased Dissemination of Tumor Cells into the Circulatory System? Global Spine Congress 2019, in Toronto (CAN)

- 2020 **Poster.** Bains R, Kumar N, Ravikumar N, Hao Tan JY, Chen Z, **Milavec H**, Hao Tan JJ. Intraoperative Salvaged Autologous Blood Transfusion is Safe in Metastatic Spine Tumour Surgery (MSTS): Early Outcomes of Prospective Clinical Study. International Society for the Advancement of Spine Surgery (ISASS), San Juan (PRI)
- 2020/21 **Poster.** **Milavec H**, Ravikumar N, Syn LXN, Soekojo CY, Chng WJ, Kumar N. Surgical Management of Spinal Lesions in Multiple Myeloma: Influences of Length of Hospital Stay and Readmissions. Accepted for Global Spine Congress 2020, Rio de Janeiro (BRA) and Global Spine Congress 2021, Paris (FRA)
- 2020/21 **Poster.** **Milavec H**, Ravikumar N, Syn LXN, Soekojo CY, Chng WJ, Kumar N. Surgical Management of Multiple Myeloma with Symptomatic Involvement of the Spine. Accepted for Global Spine Congress 2020, Rio de Janeiro (BRA) and Global Spine Congress 2021, Paris (FRA)
- 2022 **Poster.** **Milavec H**, Gasser V, Ruder T, Hutz W, Exadaktylos A, Benneker L, Albers CE. Complementary Value of CT Scout View in the Recognition of Thoracolumbar Spine Injuries. Accepted for 82th Annual Conference of Swiss Society of Orthopaedic Surgery and Traumatology 2022, Basel (CHE) and Eurospine 2022, Milan (ITA)