

## Publikationen von Prof. Dr. Carlos J. Marques in peer reviewed Journals (Stand Oktober 2025)

- 2025 **Marques CJ.** CORR Insights®: Evaluation of Clinical Tests to Diagnose Iliopsoas Tendinopathy. Clin Orthop Relat Res. 2025 May 30;483(11):2133–6. doi: 10.1097/CORR.0000000000003568. Epub ahead of print.
- Nikkhah J, Schöner L, **Marques CJ**, Pros CM, Busse R. Treatment decisions and surgery variables are predictors of better physical function after total hip and knee arthroplasty: a retrospective cohort study. Arthroplasty. 2025 Jun 4;7(1):29. doi: 10.1186/s42836-025-00313-2.
- Schöner L, Steinbeck V, Busse R, **Marques CJ.** Satisfied with the worst health outcomes or unsatisfied with the best: explaining the divergence between good patient-reported outcomes and low satisfaction and vice versa among knee arthroplasty patients - a retrospective cohort study. J Orthop Surg Res. 2025 Jan 23;20(1):88. doi: 10.1186/s13018-025-05507-7.
- 2024 Albers, N.; Huebner, M.; Giagio, S.; Turolla, A.; Pillastrini, P.; Stein-Brueggemann, D.; Rudolph, F.; Juhasz-Boess, I.; Hollander, K.; **Marques, C.J.** (2024) Cross-cultural adaptation of the Pelvic Floor Dysfunction SENTINEL screening tool for German-speaking female athletes, 08 March 2024, **PREPRINT** (Version 1) available at Research Square [<https://doi.org/10.21203/rs.3.rs-3982539/v1>]
- 2023 Bischof, A. Y., Steinbeck, V., Kuklinski, D., **Marques, C. J.**, Bohlen, K., Westphal, K. C., Lampe, F., & Geissler, A. (2023). What is the association between gender and self-perceived health status when controlling for disease-specific conditions? A retrospective data analysis of pre- and post-operative EQ-5D-5L differences in total hip and knee arthroplasty. BMC musculoskeletal disorders, 24(1), 914. <https://doi.org/10.1186/s12891-023-07026-0>
- David Kuklinski, **Carlos J. Marques**, Karina Bohlen et al. Patient-specific meaningful improvement thresholds for EQ-5D index scores after total hip or knee replacement: a retrospective observational cohort study, 01 August 2023, **PREPRINT** (Version 1) available at Research Square [<https://doi.org/10.21203/rs.3.rs-3199593/v1>]
- 2022 Kuklinski, D., **Marques, C. J.**, Bohlen, K., Westphal, K. C., Lampe, F., & Geissler, A. (2022). Thresholds for meaningful improvement in WOMAC scores need to be adjusted to patient characteristics after hip and knee replacement. J Orthop, 29, 50-59.
- 2021 Papavero, L., Pietrek, M., **Marques, C. J.**, & Schmeiser, G. (2021). Erratum to: Cervical Single-Level Pincer Stenosis Causing Myelopathy: A Technical Note and Medium-term Results of a One-Session Microsurgical 360-Degree Treatment. J Neurol Surg A Cent Eur Neurosurg.
- Marques, C. J.**, Bohlen, K., & Lampe, F. (2021). Participation in a Preoperative Patient Education Session Is a Significant Predictor of Better WOMAC Total Index Score and Higher EQ-5D-5L Health Status Index 1 Year After Total Knee and Hip Arthroplasties: A Retrospective Observational Study. Am J Phys Med Rehabil, 100(10), 972-977.
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- 2020 **Marques CJ**, Pinnschmidt HO, Bohlen K, Lorenz J, Lampe F: TKA patients experience less improvement than THA patients at 3 and 12 months after surgery. A retrospective observational cohort study. *Journal of Orthopaedics* 21 (2020) 517–522.
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- 2020 Papavero L, Ebert S, **Marques CJ**: The prevalence of redundant nerve roots in patients with lumbar spinal stenosis is body position dependent: a retrospective observational study with repeated measures design in an upright MRI scanner. *Neuroradiology* 2020.
- 2019 Papavero L, **Marques CJ**, Lohmann J, Fitting T, Schawjinski K, Ali N, Hillebrand H, Maas R: Redundant nerve roots in lumbar spinal stenosis: inter- and intra-rater reliability of an MRI-based classification. *Neuroradiology* 2019.
- 2018 Papavero L, **Marques CJ**, Lohmann J, Fitting T (2018) Patient demographics and MRI-based measurements predict redundant nerve roots in lumbar spinal stenosis: a retrospective database cohort comparison. *BMC Musculoskeletal Disorders*. Dec 22 2018; 19(1):452.
- Marques CJ**, Hillebrand H, Papavero L (2018) The clinical significance of redundant nerve roots of the cauda equina in lumbar spinal stenosis patients: a systematic literature review and meta-analysis. *Clinical Neurology and Neurosurgery* 174: 40-47.
- Marques CJ**, Martin T, Kochman A, Goral A, Lampe F, Breul V, Kozak J (2018) Pelvic tilt angle differences between symptom-free young subjects and elderly patients scheduled for THA: The rationale for tilt-adjusted acetabular cup implantation. *Open Orthopaedics Journal* 12: 364-372.
- Marques C**, Martin T, Fiedler F, Weber M, Lampe F, Breul V, Kozak, J (2018) The effects of body position on pelvic tilt angles measured with a smart-phone based navigated ultrasound system in symptom free young adults. *J Funct Morphol Kinesiol* 2018, 3, 18.
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- Marques C**, Cabri J, Barreiros J (2018) What is the Evidence on Which Physicians Can Rely to Advise Patients When They May Resume Driving After TKA? A Systematic Literature Review. *J Funct Morphol Kinesiol* 2018, 3, 8.
- Marques, CJ** (2017) CORR Insights®: Preoperative Physical Therapy Education Reduces Time to meet Functional Milestones After Total Joint Arthroplasty. *Clin Orthop Relat Res*. 476: 49-51.
- 2017 Lampe F, **Marques CJ**, Lützner, J (2017) Software and instrument improvements reduced significantly navigation acquisition time in computer assisted TKA: A cadaveric study. *Cogent Engineering*. 4: 1401440.

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- Wang L, Silva L, Di Rosa M, **Marques CJ**, Barreiros J and Cabri J (2017) The “Journal of Functional Morphology and Kinesiology” Journal Club Series: Highlights on Recent Papers in Movement Analysis (Editorial). *J. Funct. Morphol. Kinesiol.* 2, 7.
- 2016 Lampe F, **Marques CJ**, Fiedler F, Sufi-Siavach A, Matziolis G (2016) Do Well-Balanced Primary TKA Patients Achieve Better Outcomes Within the First Year After Surgery? *Orthopedics* 39 (3 Suppl): S6-S12.
- Lampe F, **Marques CJ**, Fiedler F, Sufi-Siavach A, Carita AI, Matziolis G (2016) Patient-specific and intra-operatively modifiable factors assessed by computer navigation predict maximal knee flexion one year after TKA. *Knee Surg Sports Traumatol Arthrosc.* 24 (11):3457-3465.
- Lampe, F., Fiedler, F., **Marques, CJ**, Sufi-Siavach, A., Matziolis, G. (2016) Surgically modifiable factors measured by computer-navigation together with patient-specific factors predict knee society score after total knee arthroplasty. *BMC Musculoskelet Disord* 17 (1): 78
- 2015 **Marques, C.J.**, Daniel, S., Sufi-Siavach, A., Lampe, F. (2014) No differences in clinical outcomes between fixed- and mobile-bearing computer-assisted total knee arthroplasties and no correlations between navigation data and clinical scores. *Knee Surg Sports Traumatol Arthrosc.* 23(6): 1660-8.
- 2008 **Marques, C. J.**, Cabri, J., Barreiros, J., Carita, A. I., Friesecke, C., & Loehr, J. F. (2008). Primer Sağ Total Diz Artroplastisi Öncesi ve Sonrasında Görev Karmaşıklığının Fren Tepki Zamanına Etkisi. *Arch Phys Med Rehabil*, Turkish Edition, 3(3), 191-196.
- Marques, C. J.**, Cabri, J., Barreiros, J., Carita, A. I., Friesecke, C., & Loehr, J. F. (2008). The effects of task complexity on brake response time before and after primary right total knee arthroplasty. *Arch Phys Med Rehabil*, 89(5), 851-855.
- Marques, C. J.**, Barreiros, J., Cabri, J., Carita, A. I., Friesecke, C., & Loehr, J. F. (2008). Does the brake response time of the right leg change after left total knee arthroplasty? A prospective study. *Knee*, 15(4), 295-298.

## Publikationen in Conference Proceedings

- 2025 Maack LM, Janisch L, Fohrmann D, **Marques CJ** (2025) Intra- und Interrater Reliabilität einer App zur quantitativen Erfassung funktioneller Beinachsabweichungen in der Frontalebene und die Übereinstimmung mit zwei KI-basierten Methoden: Eine Laboruntersuchung. 9. Forschungssymposium Physiotherapie. Bremen, 21.-22. Nov. 2025.
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- Albers N, Hübner M, Giagio S, Turolla A, Pillastrini P, Stein-Brüggemann D, Rudolph F, Hollander K, **Marques C** (2025) Übersetzung, kulturelle Adaptation und Sprachvalidierung des „Pelvic Floor Dysfunction SENTINEL Screening“ Fragebogens für Athletinnen im deutschsprachigen Raum. Sports, Medicine and Health Summit. 26.-28. Juni 2025 in Hamburg.
- 2024 Schoener, L., Steinbeck, V., **Marques, C.** (2024) Satisfied with the worst health outcomes or unsatisfied with the best? Explaining the divergence between good patient-reported outcomes and low satisfaction and vice versa among knee arthroplasty patients. Quality of Life Research Conference. Oktober 2024.
- 2021 **Marques CJ**, Bohlen K, Lampe F: Participation in a preoperative patient education session is a significant predictor of better WOMAC total index score and higher EQ-5D-5L health status index one year after TKA or THA. Endoprothetikkongress Berlin 2021. E-Poster
- Marques CJ**, Pinnschmidt HO, Bohlen K, Lorenz J, Lampe F: TKA patients experience less improvement than THA patients at 3 and 12 months after surgery. A retrospective database cohort study. Endoprothetikkongress Berlin 2021. E-Poster
- 2020 Papavero L, **Marques CJ**, Lohmann J, Fitting T, Schawjinski K, Ali N, Maas R: Redundant nerve roots in lumbar spinal stenosis: Inter- and intra-rater reliability of an MRI-based classification. EUROSPINE Meeting 2020: Abstracts Virtual Annual Meeting, October 6–9. Eur Spine J 30, 373–378 (2021). <https://doi.org/10.1007/s00586-020-06686-z>
- Papavero L, Ebert S, **Marques CJ**: The prevalence of redundant nerve roots in patients with lumbar spinal stenosis is body-position dependent: a retrospective observational study with repeated measures design in an upright MRI scanner. 15th German Spine Congress; Annual Meeting of the German Spine Society 9th to 11th December 2020. Virtual. European Spine Journal, 29(11), 2853-2939, doi:10.1007/s00586-020-06630-1.
- 2019 **Marques CJ**, Bauer C, Grimaldo D, Ehlert A, Weber T, Tabling S, Mendes A, Lorenz J, Lampe F (2020) Which factors influence the accuracy of knee ROM data of the BPMpathway e-rehabilitation system? A concurrent validity study with healthy subjects. 8. Jahreskongress der Deutschen Kniegesellschaft. 22<sup>nd</sup> to 23<sup>rd</sup> November 2019, Hamburg, Germany. The Orthopaedic Journal of Sports Medicine, 8(5) (suppl 4). DOI: 10.1177/2325967120S00290
- Marques C**, Hillebrand H, Papavero L (2019) Die klinische Bedeutung von Redundant Nerve Roots der cauda equina in Patienten mit Spinalkanalstenose: Eine systematische Literaturreview und Metaanalyse. NOUV-Jahrestagung 2019. 23-25. Mai, Dortmund (Vortrag)
- Lampe F, **Marques CJ**, Fiedler F, Martin T, Kochman A, Goral A, Kozak J (2019) Welche Sicherheitszone? Pelvic-tilt basierendes Pfannenalignement in der Hüftendoprothetik. NOUV-Jahrestagung 2019. 23-25. Mai, Dortmund (Vortrag)
- Lampe F, **Marques CJ**, Fiedler F, Martin T, Kochman A, Goral A, Kozak J (2019) Welche Sicherheitszone? Pelvic-tilt basierendes Pfannenalignement in der Hüftendoprothetik. 67. Jahrestagung der Vereinigung Süddeutscher Orthopäden und Unfallchirurgen e.V. 2-4 Mai, Baden-Baden (Vortrag)

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- 2017 Papavero, L; **Marques, C.J**; Lohmann, J; Fitting, T; Kothe, R. (2017) Redundant nerve roots in lumbar spinal stenosis – a retrospective database study on patient-related predictors. 12. Deutscher Wirbelsäulenkongress Jahrestagung der Deutschen Wirbelsäulengesellschaft. 30 November – 2. Dezember 2017, Stuttgart, Germany (E-Poster). Eur Spine J (2017) 26: 2978. DOI: 10.1007/s00586-017-5336-8
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- 2016 Lampe F., **Marques C.J.**, Fiedler F., Sufi-Siavach A. (2016) Do well-balanced primary TKA patients achieve better outcomes within the first years after surgery? Book of abstracts of the 37<sup>th</sup> SICOT Orthopedic World Congress. 8-10.09.2016, Rome, Italy. (Oral presentation)
- 2016 Lampe F., **Marques C.J.**, Fiedler F., Sufi-Siavach A. (2016) Do well-balanced primary TKA patients achieve better outcomes within the first years after surgery? SICOT International Orthopaedics Specialised Knee Surgery. 30.06-2.07.2016, Würzburg, Germany (Poster)
- Weber M., Scheunemann D., **Marques C.J.**, Fiedler F., Lampe F. (2016) Welchen Nutzen hat "PSI" bei der Implantation einer high-flex Knieendoprothese? Abstractbuch NOUV Kongress 2016. 16-18.06.2016, Hamburg (Poster)
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- 2015 Sufi-Siavach A., **Marques C.J.**, Daniel S., Lampe F. (2015) Vergleich zwischen rotierendem vs. fixiertem Tibia-inlay in der computer-navigierten Knieendoprothetik: 4-Jahresergebnisse. (Poster) Abstract-Buch der Jahrestagung NOUV 2015. 18-20.06.2015. Hamburg.



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- 2012 **Marques, C. J.**, Santos, R., Gamboa, H., Lampe, F., Barreiros, J., Cabri, J. (2012) Brake response time before and after total knee arthroplasty. Tracking possible effects of the surgery technique on motor performance: Report of two cases. *Proceedings of the International Conference on Bio-inspired Systems and Signal Processing*. Vilamoura, Portugal.
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- Santos, R., Sousa, J., **Marques, C.J.**, Gamboa, H. Silva, H. – Towards Emotion Related Feature Extraction based on Generalized Source-Independent Event Detection. *Proceedings of the 2nd International Workshop on Computing Paradigms for Mental Health*. MindCare 2012 Vilamoura, Portugal.
- 2011 **Marques C.J.**, Gamboa H., Lampe F., Barreiros J., Cabri J., Muscle activation thresholds before and after total knee athroplasty: protocol of a randomized comparison of minimally invasive vs. standard approach, *Proceedings of the 4th International Conference on Bio-inspired Systems and Signal Processing*.

- Marques C.J.**, Barreiros J., Cabri J., Immediate effects of a knee brace on reaction and movement time of the right leg: an experimental study with a perceptual motor task in a car simulator. Supplement to the *American Journal of Physical Medicine and Rehabilitation*: Abstracts of scientific lectures and communications presented at the 1<sup>st</sup> International Congress of Scientific Testing of Orthotic Devices (STOD), March 22-26, Aix les Bains, France.
- 2007 Carita, A. I., **Marques, C. J.**, Barreiros, J., Cabri, J. Following brake reaction time in total knee arthroplasty: analysis of variance for repeated measures. In: International Workshop on Statistical Modelling. Barcelona, July 2-6, 2007

### Monographien

- 2019 Marques, C. J., & Papavero, L. (2019). *Redundant nerve roots in lumbar spinal canal stenosis: Clinical significance, predictors and classification*. Staats- und Universitätsbibliothek Hamburg. Doctoral Dissertation (English); URL: <https://ediss.sub.uni-hamburg.de/handle/ediss/6118>
- 2006 Marques, C.J. (2006) Brake Response Time after Primary Total Knee Arthroplasty. Master of Science Thesis (English). Faculdade de Motricidade Humana, Universidade Técnica de Lisboa, Portugal. [https://www.researchgate.net/publication/344901153\\_Brake\\_Response\\_Time\\_after\\_Primary\\_Total\\_Knee\\_Arthroplasty](https://www.researchgate.net/publication/344901153_Brake_Response_Time_after_Primary_Total_Knee_Arthroplasty)