

## List of publications: Annual Report 2025

### Original research papers (In peer-reviewed journals)

1. **Adams J, Al-Humadi S, Werner BC, Moroder P, Raiss P, Bedi A, Lederman E, Griffin J, Shoulder Arthroplasty Research Committee (ShARC) Group and Denard PJ.** Smaller glenosphere size and increased baseplate retroversion improve postoperative internal rotation after reverse total shoulder arthroplasty performed with a 135° humeral implant and lateralized glenoid. *JSES Int* 9: 2037-2043, 2025.
2. **Aeppli M, Carli A, Mündermann A, Rudiger HA and Leunig M.** Frame-based draping technique for standard table direct anterior approach THA: efficient and safe? *Clin Orthop Relat Res* (Epub ahead of print) DOI: 10.1097/corr.0000000000003789, 2025.
3. **Akgün D, Moroder P, Lacheta L, Siegert P, Bilsel K, Sencan K, Paksoy A, Rosa B, Werner LOE, Dey Hazra RO and Weiss I.** Differentiating and treating lateral clavicle fractures: a new simple classification system. *J Shoulder Elbow Surg* 35: 296-302, 2026.
4. **Akgün D, Paksoy A, Siegert P, Weiss I and Moroder P.** Primary osteoarthritis of the shoulder: are there differences in scapular morphology, orientation, and rotator cuff action lines between patients and healthy controls? *JSES Int* 9: 1319-1326, 2025.
5. **Al Attar WSA, Majrashi A and Bizzini M.** Effectiveness of FIFA 11+ injury prevention programs in reducing head and neck injuries, including concussion, among soccer players: a systematic review and meta-analysis. *Pediatr Exerc Sci* 37: 403-412, 2025.
6. **Ameziane Y, Audigé L, Schoch C, Flury M, Schwyzer HK, Scaini A, Maggini E and Moroder P.** Mid-term outcomes of a rectangular stem design with metadiaphyseal fixation and a 135° neck-shaft angle in reverse total shoulder arthroplasty. *J Clin Med* 14: 546, 2025.
7. **Anderson DB, Cheung C, Lane C, Melloh M, Dvořák J, Van Gelder JM and Wong A.** Consensus on clinical outcome measures for lumbar spinal stenosis: recommendations from the ISSLS lumbar spinal stenosis taskforce. *Eur Spine J* 34: 5725-5732, 2025.
8. **Baettig SJ, Filipovic MG, Giroud M, Bomberg H, Hofer CK, Eichenberger U and Ganter MT.** SAFE anaesthesia for patients at risk of pulmonary aspiration: a nationwide survey. *Eur J Anaesthesiol Intensive Care* 4: e0070, 2025.
9. **Balaban B, Demirci N, Yilgor C, Yucekul A, Zulemyan T, Haddad S, Haleem S, Kilic F, Obeid I, Pizones J, Kleinstück F, Pérez FJS, Pellisé F, Alanay A, Bagci C, Sezerman OU and European Spine Study Group (ESSG).** Predicting mechanical complications in adult spinal deformity patients with postoperative proportioned and moderately disproportioned alignment. *Acta Orthop Traumatol Turc* 59: 210-221, 2025.
10. **Bandzaitė L, Marks M, Schindele S and Herren DB.** Proximal interphalangeal surface replacement in patients with severe longitudinal joint axis deviation. *J Hand Surg Eur Vol* 50: 949-955, 2025.
11. **Baroncini A, Boissière L, Larrieu D, Haddad S, Pellisé F, Alanay A, Kleinstück F, Pizones J, Bourghli A, Obeid I and European Spine Study Group (ESSG).** Comparison of patients with and without predicted surgical indication between clusters of adult spine deformity (ASD) patients. *Spine (Phila Pa 1976)* 50: 975-980, 2025.
12. **Baroncini A, Bou Jaoude M, Boissière L, Bourghli A, Alanay A, Pellisé F, Kleinstück F, Pizones J, Ajoku U, Cecile R, Larrieu D, Obeid I and European Spine Study Group (ESSG).** Cosmetic appearance in adolescent idiopathic scoliosis: predictive factors and evaluation of the TAPS and SRS-22 self-image subdomains before and after posterior spinal fusion. *Orthop Traumatol Surg Res* (Epub ahead of print) DOI: 10.1016/j.otsr.2025.104244, 2025.
13. **Baroncini A, Larrieu D, Bourghli A, Pizones J, Pellisé F, Kleinstück F, Alanay A, Charles YP, Roscop C, Boissière L and Obeid I.** Machine learning clustering reveals risk factors of mechanical complications requiring revision in adult spinal deformity surgery: a 2-year follow-up study. *Eur Spine J* (Epub ahead of print) DOI: 10.1007/s00586-025-09460-1, 2025.
14. **Baroncini A, Larrieu D, Bourghli A, Pizones J, Pellisé F, Kleinstück FS, Alanay A, Boissière L and Obeid I.** Machine learning can predict surgical indication: new clustering model from a large adult spine deformity database. *Eur Spine J* 34: 3659-3669, 2025.
15. **Baroncini A, Larrieu D, Bourghli A, Pizones J, Pellisé F, Kleinstück FS, Alanay A, Charles YP, Roscop C, Boissière L, Obeid I and European Spine Study Group (ESSG).** Cluster analysis of a database of surgically managed adult spine deformity (ASD) patients: determining the minimal

- clinically important difference for each cluster, comparing two clustering approaches. *Spine (Phila Pa 1976)* (Epub ahead of print) DOI: 10.1097/brs.00000000000005453, 2025.
16. **Bassani T, Cina A, Galbusera F, Cazzato A, Pellegrino ME, Albano D and Sconfienza LM.** Feasibility of generating sagittal radiographs from coronal views using GAN-based deep learning framework in adolescent idiopathic scoliosis. *Eur Radiol Exp* 9: 11, 2025.
  17. **Bauer S, Blakeney WG, Mellal A, Lannes X, Moroder P and Walch G.** Forgotten Shoulder ASAP-22: a scapula-inclusive shoulder ecosystem PROM-pilot study in reverse total shoulder arthroplasty and related pathologies. *JSES Int* 9: 2112-2121, 2025.
  18. **Bauer S, Mahloully J, Tolosano L, Moroder P, Blakeney WG and Shao W.** From Grammont to a new 135° short-stem design: two-hand lever test and early superior-lateral dislocations reveal critical role of liner stability ratio and stem alignment. *J Clin Med* 14: 1898, 2025.
  19. **Bell L, Rudiger HA, Stephan A, Schwitter L, Pfirrmann CWA, Stadelmann VA and Leunig M.** Preservation of the lateral femoral circumflex artery in total hip arthroplasty using the bikini-type direct anterior approach: effect on muscle status and clinical outcomes. *Bone Jt Open* 6: 30-40, 2025.
  20. **Bevc K, Zhang S, Pazos-Perez A, Alonso-Perez A, Fercher D, Kauppinen S, Frondelius T, Bruhin V, Salzmann G, Rauer T, Pape HC, Finnila MAJ, Ospelt C, Gomez R, Eklund KK, Wong MZ and Barreto G.** Evaluating the role of lipopolysaccharides in the joint: fibronectin as a novel protective mechanism. *RMD Open* 11: e005622, 2025.
  21. **Bianco Prevot L, Accetta R, Fozzato S, Moroder P and Basile G.** Surgical vs conservative: what is the best treatment of acute Rockwood III acromioclavicular joint dislocation? A systematic review and meta-analysis. *EFORT Open Rev* 10: 141-150, 2025.
  22. **Bühl L, Müller S, Nüesch C, Halbeisen FS, Mündermann A and Egloff C.** Landing biomechanics in patients 2 years after augmented ACL repair and 2 years after hamstring autograft ACL reconstruction compared with controls. *Orthop J Sports Med* 13: 23259671251358386, 2025.
  23. **Bullock GS, Räisänen AM, Martin C, Martin M, Galarneau JM, Whittaker JL, Losciale JM, Bizzini M, Bourne MN, Dijkstra HP, Dubé MO, Hayden A, Girdwood M, Hägglund M, McLeod S, Mkumbuzi NS, Mosler AB, Murphy MC, Myklebust G, Møller M, Ocarino JM, Owoeye OBA, Palmer D, Pasanen K, Rio EK, Thorborg K, van Middelkoop M, Verhagen E, Warden SJ, Whalan M, Crossley KM and Emery C.** Prevention strategies for lower extremity injury: a systematic review and meta-analyses for the Female, Woman and Girl Athlete Injury Prevention (FAIR) Consensus. *Br J Sports Med* 59: 1575-1586, 2025.
  24. **Büttiker N, Koch D, Mündermann A, Schären S, Ferguson SJ, Netzer C and Nüesch C.** Assessing radiographic spinopelvic alignment parameters using motion capture. *J Biomech* 191: 112894, 2025.
  25. **Cavalcante J, Ribeiro V, Marqueti R, Babault N, Maffioletti N, Costa R, Vaz M and Durigan J.** Part I: Effects of asynchronous vs conventional synchronous neuromuscular electrical stimulation on maximal evoked torque, fatigability, discomfort, and strength gains - a systematic review with meta-analysis and meta-regression. *Arch Phys Med Rehabil* (Epub ahead of print) DOI: 10.1016/j.apmr.2025.10.026, 2025.
  26. **Cina A, Tuci M, Pellisé F, Yilgor C, Alanay A, Pizones J, Kleinstück F, Obeid I, Charles YP, Richner-Wunderlin S, Galbusera F, Jutzeler CR and European Spine Study Group (ESSG).** Simulating federated learning to enable multi-hospital collaboration for lumbopelvic alignment estimation. *JOR Spine* 8: e70120, 2025.
  27. **Ciobanu-Caraus O, Grob A, Rohr J, Stumpo V, Ricciardi L, Maldaner N, Eversdijk HAJ, Vieli M, Raco A, Miscusi M, Perna A, Proietti L, Lofrese G, Dughiero M, Cultrera F, D'Andrea M, An SB, Ha Y, Amelot A, Cadelo JB, Viñuela-Prieto JM, Gandía-González ML, Girod PP, Lener S, Kögl N, Abramovic A, Laux CJ, Farshad M, O'Riordan D, Loibl M, Galbusera F, Mannion AF, Scerrati A, De Bonis P, Molliqaj G, Tessitore E, Schröder ML, Stienen MN, Brandi G, Regli L, Serra C and Staartjes VE.** Sex differences in patient-rated outcomes after lumbar spinal fusion for degenerative disease: a multicenter cohort study. *Spine (Phila Pa 1976)* 50: 924-931, 2025.
  28. **Croci E, Künzel C, Gehring D, Müller AM and Mündermann A.** Comparison of shoulder kinematics between Theia 3D markerless motion capture and marker-based motion capture during full arm ranges of motion. *J Biomech* 191: 112905, 2025.
  29. **Dimitriu MI, Brugger R, Rommers N, Jaeger M, Schimmelpenning V and Milavec H.** High uptake detection for spinal degenerative changes: a comparison between bone scintigraphy and single photon emission computed tomography combined with high-resolution computed tomography. *Int J Spine Surg* 19: 139-144, 2025.

30. **Do A, Scheibel M, Moroder P, Hayta A, Akgun Demir I, Paksoy A and Akgün D.** Long-term outcomes of a contemporary arthroscopic Bankart repair technique in patients with traumatic anterior shoulder instability: a minimum 10-year follow-up. *Am J Sports Med* 53: 2298-2305, 2025.
31. **Dreiner M, Godonou ET, Mündermann A, Tascilar K, Schett G, Zaucke F, Liphardt AM and Niehoff A.** Immobilization by 21-days of bed rest causes changes in biomarkers of cartilage homeostasis in healthy individuals. *Osteoarthr Cartil Open* 7: 100597, 2025.
32. **Duftner C, Redlinger N, Bruyn GA, Chadachan V, Chrysidis S, Correyero M, D'Agostino MA, Dalsgaard Nielsen B, Dasgupta B, De Miguel E, Diamantopoulos AP, Fulvio G, Gkikopoulos N, Hartung W, Hocevar A, Keen H, Kurteva V, Mandl P, Manger E, Mercatelli P, Midtgard I, Monti S, Muller R, Mykkänen K, Pineda C, Ponte C, Reffat D, Sarbu AC, Seitz L, Terslev L, Schmidt W and Dejaco C.** Reliability of the OMERACT Giant cell arteritis Ultrasonography Score (OGUS): results of a patient-based exercise involving experts and non-experts in vascular ultrasonography. *RMD Open* 11: e004667, 2025.
33. **Eckl L, Vetter P, Bellmann F, Pawelke J, Akgün D, Moroder P, Lazaridou A and Scheibel M.** Low-profile suture button technique with additional AC cerclage for high-grade acromioclavicular joint dislocations: a retrospective outcome analysis. *J Clin Med* 14: 6888, 2025.
34. **El-Hajj VG, Gustafsson MRV, Fariña Nuñez MT, Staartjes VE, Edström E and Elmi-Terander A.** Return to work after surgery for degenerative cervical myelopathy: prospective data from a Swedish nationwide cohort of 789 patients. *Neurosurgery* (Epub ahead of print) DOI: 10.1227/neu.0000000000003822, 2025.
35. **Endell D, Schneller T, Kraus M and Scheibel M.** Comparison of suture anchor constructs in arthroscopic rotator cuff reconstruction: assessing clinical outcome and treatment cost variations. *J Clin Med* 14: 8412, 2025.
36. **Escamilla RF, Thompson IS, Asuncion R, Bravo J, Chang T, Fournier T, Garcia H, Hockenbery E, Nagasawa K, Ozor J, Snoeberger H, Wilk KE and Bizzini M.** Effects of step length and stride variation during forward lunges on lower-extremity muscle activity. *J Funct Morphol Kinesiol* 10: 42, 2025.
37. **Espeit L, Rozand V, Gondin J, Millet GY, Maffiuletti NA and Lapole T.** Effects of narrow- versus wide-pulse neuromuscular electrical stimulation training on isometric strength and underlying neuromuscular adaptations. *Med Sci Sports Exerc* 57: 2724-2735, 2025.
38. **Fariña Nuñez MT, Percuoco V, Höbner LM, Voglis S, Parvin R, Barbagallo M, Terander AE, Edström E, Serra C, Regli L, Staartjes VE and Vasella F.** Long-tunneled external ventricular drainage (LTEVD) for the prevention and treatment of infections in pediatric and adult hydrocephalus. *Acta Neurochir (Wien)* 167: 271, 2025.
39. **Feroli D, Freitas TT, Mannucci C, Chung L, Mombelli A, Alcaraz PE and Maffiuletti NA.** Etiology and recovery of knee extensor muscle fatigue following simulated basketball match-play. *Biol Sport* 42: 327-334, 2025.
40. **Frege S, Lacheta L, Karpinski K, Paksoy A, Akgun D, Thiele K, Braun S, Tauber M and Moroder P.** Influence of tilt and rotation on coracoclavicular distance measurements and Rockwood classification in panorama view radiographs in the diagnosis of acromioclavicular dislocations. *Orthop J Sports Med* 13: 23259671251329344, 2025.
41. **Friederichsen P, Wilhelmi M and Rippstein P.** Z-type shortening osteotomy of the proximal phalanx: a novel and safe joint sparing intervention to shorten lesser toes with good short-term outcome. *Foot Ankle Surg* (Epub ahead of print) DOI: 10.1016/j.fas.2025.06.004, 2025.
42. **Friederichsen P, Zwicky S, Stephan A, Stadelmann VA and Rippstein P.** Transosseous flexor hallucis longus tendon transfer for large Achilles tendon defects: surgery technique and outcome. *Foot Ankle Int* 46: 159-167, 2025.
43. **Ganter MT, Girard T, Stadelmann VA, Rehberg-Klug B, Staender S and Hofer CK.** Regional anaesthesia-related complications in Switzerland: lessons learned from the national closed claims analysis over the past 30 years. *Eur J Anaesthesiol* 42: 924-933, 2025.
44. **Ganz R, Blumel S, Schleicher A, Ottl F, Stadelmann VA and Leunig M.** Radiological results of the Bernese periacetabular osteotomy performed before closure of the triradiate cartilage. *Bone Jt Open* 6: 24-32, 2025.
45. **Gereduz Agapito L, Brownstein CG and Maffiuletti NA.** Effects of soccer match-play on muscle strength, physical performance, and perceptual responses in elite female players. *J Strength Cond Res* 39: 79-85, 2025.
46. **Gómez-Rice A, Núñez-Pereira S, Haddad S, Raganato R, Charles YP, Pérez-Gruoso F, Kleinstück F, Obeid I, Alanay A, Pellisé F, Pizones J and European Spine Study Group (ESSG).** S2AI vs. iliac

- screws in spinopelvic fixation for adult spinal deformity: a propensity score-matched analysis. *Eur J Orthop Surg Traumatol* 35: 104, 2025.
47. **Góralczyk A, Akgün D, Siegert P, Pawelke J, Hermanowicz K, Flury M, Simmen BR, Scheibel M and Moroder P.** Humeral rotation osteotomy is not associated with glenohumeral and scapulohumeral decentering at long-term follow-up. *J Shoulder Elbow Surg* 34: e158-e164, 2025.
  48. **Grezda K, Audigé L, Baum C, Müller SA, Stojanov T, Schwappach D, Durchholz H, ARCR\_Pred Study Group and Müller A.** Safety of arthroscopic rotator cuff repair: using a core event set for clinician and patient assessment of risks in a multicenter cohort study. *BMJ Surg Interv Health Technol* 7: e000400, 2025.
  49. **Gröbli L, Kalbas Y, Kessler F, Hax J, Michel T, Sprengel K, Pfeifer R, Mächler M, Pape HC, Halvachizadeh S and Klingebiel FK.** Are the same parameters measured at admission and in the ICU comparable in their predictive values for complication and mortality in severely injured patients? *Eur J Med Res* 30: 228, 2025.
  50. **Hachem AI, Gonzalez-Morgado D, Barraza G, Alvarado F, Agullo JL, Lorenz C, Rius X and Scheibel M.** Arthroscopic iliac crest autograft glenoid augmentation using tape cerclage fixation for bony deficiency and recurrent anterior shoulder instability improves functional outcomes and achieves high union rates with graft resorption in nonloaded areas. *Arthroscopy* 41: 4978-4990, 2025.
  51. **Haddad S, Jacobs E, Núñez-Pereira S, Ruiz de Villa A, Pupak A, Barcheni M, Ramírez Valencia M, Pizonés J, Kleinstück FS, Pérez-Grueso FJS, Alanay A, Obeid I, Pellisé F and European Spine Study Group (ESSG).** Long-term loss of alignment following ASD surgery in the absence of mechanical complications: aging spine? *Spine (Phila Pa 1976)* 50: 909-915, 2025.
  52. **Haddad S, Yilgor C, Jacobs E, Vila L, Nuñez-Pereira S, Ramirez Valencia M, Pupak A, Barcheni M, Pizonés J, Alanay A, Kleinstück F, Obeid I, Pellisé F and European Spine Study Group (ESSG).** Long-term mechanical failure in well aligned adult spinal deformity patients. *Spine J* 25: 337-346, 2025.
  53. **Häfliger L, Cina A, Leuthard L, Rüdiger HA and Stadelmann VA.** Automated radiographic assessment of lower limb alignment using deep learning in a data-constrained clinical setting. *BMC Musculoskelet Disord* 26: 603, 2025.
  54. **Hax J, Leuthard L, Nauer S, Stadelmann VA, Leunig M and Rüdiger HA.** Treatment options for persistent lateral femoral cutaneous nerve lesions after total hip arthroplasty via the direct anterior approach: retrospective analysis with clinical assessment. *Int Orthop* 49: 1107-1117, 2025.
  55. **Hax J, Leuthard L, Öttl F, Stadelmann VA, Preiss S, Salzmann GM and Runer A.** Hand-minced cartilage versus microfracture for the repair of articular cartilage defects: a propensity score matched-pair analysis with 2-year follow-up. *Knee Surg Sports Traumatol Arthrosc* (Epub ahead of print) DOI: 10.1002/ksa.12728, 2025.
  56. **Hayta A, Akgün D, Do A, Dey Hazra RO, Back DA, Demirkiran ND, Scheibel M and Paksoy A.** Mid-to long-term outcomes of two-stage revision arthroplasty for periprosthetic joint infection of the shoulder. *J Clin Med* 14: 547, 2025.
  57. **Herren DB, Mathis K, Schindele S and Marks M.** Learning curve for trapeziometacarpal joint implant arthroplasty: case volume needed to achieve proficiency. *J Hand Surg Eur Vol* 50: 1456-1462, 2025.
  58. **Hötzel L, Uhlenberg L, Gottschling H, Schroeder M, Scheibel M, Amini MH, Werthel JD, Amft O and Lambers FM.** Differences in the movement of the glenoid over the humeral head between subject-specific and generalized glenohumeral motion. *J Orthop Res* 43: 1895-1906, 2025.
  59. **Iaquinto S, Stanikić M, Vallejo-Yagüe E, Kuhle J, Manjaly ZM, Roth P, Calabrese P, Zecca C, Puhan MA and von Wyl V.** From diagnosis to treatment: patterns in disease-modifying therapy initiation in multiple sclerosis. *Ther Adv Neurol Disord* 18: 17562864251398472, 2025.
  60. **Imiolczyk JP, Audigé L, Freisleder F, Moroder P, Endell D, Trefzer R and Scheibel M.** Clinical and radiological results of reverse total shoulder arthroplasty with or without lateralization as revision procedure for failed arthroplasty. *JSES Int* 9: 477-485, 2025.
  61. **Imiolczyk JP, Audigé L, Freisleder F, Schneller T, Ameziane Y, Touet A and Scheibel M.** Clinical and radiological comparison of three different reverse shoulder arthroplasty designs for patients with primary osteoarthritis. *BMC Musculoskelet Disord* 26: 577, 2025.
  62. **Jacob A, Feist A, Zderic I, Gueorguiev B, Caspar J, Wirtz CR, Richards G, Loibl M, Haschtmann D and Fekete TF.** Augmenting screw technique to prevent TLIF cage subsidence: a biomechanical in vitro study. *Bioengineering (Basel)* 12: 337, 2025.

63. **Jacob A, Haschtmann D, Fekete TF, Zderic I, Caspar J, Varga P, Heumann M, Wirtz CR, Ion N, Richards RG, Gueorguiev B and Loibl M.** Adjacent segment motion of stand-alone ALIF versus TLIF in the degenerative spine: a biomechanical study. *Global Spine J* 16: 21925682251341823, 2025.
64. **Jacob A, Ion N, Bocea B, Zderic I, Gueorguiev B, Wirtz CR, Fekete TF, Richards RG, Heumann M, Haschtmann D and Loibl M.** Loosening of stand-alone ALIF versus TLIF in degenerated lumbar human spines: an in vitro biomechanical study. *Eur Spine J* 34: 2478-2486, 2025.
65. **Jacob A, Loibl M, Haschtmann D, Fekete TF, Varga P, Ion N, Bocea B, Wirtz CR, Richards G, Gueorguiev B, Zderic I and Heumann M.** Biomechanical effects of the cephalad extent of laminotomy. *Eur Spine J* 34: 1954-1962, 2025.
66. **Jacob A, Loibl M, Kruger S, Blankson BH, Zderic I, Wirtz CR, Dunn RN and Kruger NA.** Civilian ballistic spinal cord injuries versus blunt trauma: comparative analysis of clinical characteristics, management, and outcomes. *Spine J* 25: 568-580, 2025.
67. **Jacob A, Wirtz CR, Loibl M, Kruger S, Blankson BH, Dunn RN and Kruger NA.** Predictors of early mortality after traumatic spinal cord injury in South Africa. *Global Spine J* 15: 2359-2366, 2025.
68. **Jolas E, Galbusera F, Fekete TF, Haschtmann D, Jeszenszky D, Richner-Wunderlin S, Pellisé F, Obeid I, Pizones J, Alanay A, Kleinstück F, Yilgor C, Ferguson SJ, Loibl M and Ignasiak D.** Abdominal wall tension after spinal deformity correction compromises postoperative biomechanics and may contribute to proximal junctional kyphosis. *Eur Spine J* (Epub ahead of print) DOI: 10.1007/s00586-025-09063-w, 2025.
69. **Kalbas Y, Stutz Y, Klingebiel FK, Halvachizadeh S, Teuben MPJ, Ricklin J, Sivriev I, Hax J, Urgiles CO, Jensen KO, Oertel MF, Pape HC and Pfeifer R.** Criteria to clear polytrauma patients with traumatic brain injury for safe definitive surgery (<24 h). *Injury* 56: 112149, 2025.
70. **Keiser M, Preiss S, Ferguson SJ and Stadelmann VA.** High-resolution microCT analysis of sclerotic subchondral bone beneath bone-on-bone wear grooves in severe osteoarthritis. *Bone* 193: 117388, 2025.
71. **Kim S, Menzel K, Lacheta L, Moroder P, Dekena J, Akgün D, Thiele K and Karpinski K.** Association of alcohol consumption and rotator cuff re-rupture: a case control matched cohort study. *Arch Orthop Trauma Surg* 145: 158, 2025.
72. **Kleim BD, Lappen S, Weyer M, Hinz M, Venjakob AJ, Wörtler K, Siebenlist S and Imhoff AB.** Long-term follow-up after arthroscopically assisted 2-bundle anatomic reduction of acute acromioclavicular joint separations. *Am J Sports Med* 53: 2306-2312, 2025.
73. **Klingebiel FK, Klee OES, Long A, Teuber H, Teuben M, Halvachizadeh S, Hax J, Berk T, von Spiczak J, Hübner C, Starr A, Mica L, Neuhaus V, Pape HC, Kalbas Y and Pfeifer R.** Matched pair analysis of the accuracy and outcome of navigated screw fixation of the posterior pelvic ring. *Eur J Orthop Surg Traumatol* 35: 285, 2025.
74. **Kraus M, Illner J, Warnhoff M, Brunner M, Schneller T, Lazaridou A and Scheibel M.** Complications and revisions in metal-backed anatomic total shoulder arthroplasty: a comparative study of revision rates between stemless and stemmed humeral components. *J Shoulder Elbow Surg* 34: e72-e80, 2025.
75. **Kraus M, Lazaridou A, Warnhoff M, Illner J, Brunner M, Schneller T and Scheibel M.** High failure rates of polyethylene glenoid components in stemless anatomic total shoulder arthroplasty for primary and secondary OA. *J Bone Joint Surg Am* 107: 1690-1698, 2025.
76. **Krause M, Salzmann G, Frosch KH and Frings J.** The aberrant anterior tibial artery should be respected and can be protected in high tibial osteotomy surgery. *Knee Surg Sports Traumatol Arthrosc* 33: 4096-4098, 2025.
77. **Lang S, Bachtler M, Straub J, Kruckel J, Baertl S, Ardelt M, Napodano G, Haimerl M, Loibl M, Alt V and Kerschbaum M.** Segmentation-based 3D volumetry and linear regression modeling for assessing the vertebral bone loss in pyogenic vertebral osteomyelitis. *Eur Spine J* 34: 4705-4716, 2025.
78. **Lang S, Vitale J, Galbusera F, Fekete T, Boissière L, Charles YP, Yucekul A, Yilgor C, Núñez-Pereira S, Haddad S, Gomez-Rice A, Mehta J, Pizones J, Pellisé F, Obeid I, Alanay A, Kleinstück F, Loibl M and European Spine Study Group (ESSG).** Is the information provided by large language models valid in educating patients about adolescent idiopathic scoliosis? An evaluation of content, clarity, and empathy: the perspective of the European Spine Study Group. *Spine Deform* 13: 361-372, 2025.
79. **Langlais T, Vergari C, Mainard N, du Cluzel X, Baudoux M, Gajny L, Abelin-Genevois K, Bernard JC, Hu Z, Cheng JCY, Chu WCW, Assi A, Karam M, Ghanem I, Bassani T, Galbusera F, Sconfienza LM, Brayda-Bruno M, Courtois I, Ebermeyer E, Vialle R, Dubousset J and Skalli W.** 3D

- external shape analysis and barycentremetry can provide early signs of progression in adolescent idiopathic scoliosis. *Spine Deform* 13: 551-560, 2025.
80. **Larrieu D, Baroncini A, Bourghli A, Pizones J, Kleinstück FS, Alanay A, Pellisé F, Charles YP, Boissière L, Roscop C, Obeid I and European Spine Study Group (ESSG).** Comparison of two clustering methods on surgical patients with adult spinal deformity: importance of the variable choice on the obtained results and their interpretation. *Brain Spine* 6: 105904, 2025.
  81. **Lazaridou A, Duda G and Scheibel M.** CORR Synthesis: what is the role of proinflammatory markers in diagnosing periprosthetic joint infection and guiding outcome prediction in shoulder implants? *Clin Orthop Relat Res* (Epub ahead of print) DOI: 10.1097/CORR.0000000000003614, 2025.
  82. **Lazaridou A, Rist PM, Brune D, Schneller T, Moroder P and Scheibel M.** The influence of sex: a deep dive into reverse total shoulder arthroplasty outcomes. *Semin Arthroplasty* 35: 263-269, 2025.
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  47. **Wackerle AM, Joreitz R, Sprague A, Senorski EH, Halilaj E, Rabuck SJ, Lesniak BP, Hughes JD, Musahl V, Irrgang JJ and 2024 Panther Expert Group.** Freddie Fu Panther Symposium Expert Group 2024: Rehabilitation and return to sport after anterior cruciate ligament reconstruction Part 2: concepts and emerging technology in return to sport. *Knee Surg Sports Traumatol Arthrosc* 34: 531-542, 2025.
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#### Peer-Reviewed conference abstracts

1. **Akgün D, Oudintsov EN, Paksoy A and Moroder P.** Independent-Double-Row-Bony-Bankart Technik bei Patienten mit Schulterluxation und anteriorer Glenoidfraktur. *30. Jahreskongress der D-A-CH Vereinigung für Schulter- und Ellenbogenchirurgie (DVSE) e.V.*, Zürich, Schweiz, 15.-16.05.2025.
2. **Ameziane Y, Drescher P, Holschen M, Kiriazis A, Witt KA and Steinbeck J.** Beeinflussen subacromiale Platzhalter das radiologische und klinische Outcome im mittelfristigen Follow-up? *30. Jahreskongress der D-A-CH Vereinigung für Schulter- und Ellenbogenchirurgie (DVSE) e.V.*, Zürich, Schweiz, 15.-16.05.2025.
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4. **Back D, Lutz N, Kässer N, Akgün D, Dey Hazra RO, Scheibel M and Schliemann B.** Patient-Reported Outcome Measures (PROMs) in shoulder and elbow surgery - future impressions of a

- survey study. 30. *Jahreskongress der D-A-CH Vereinigung für Schulter- und Ellenbogenchirurgie (DVSE) e.V.*, Zurich, Switzerland, 15.-16.05.2025.
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  6. **Bassani T, Cina A, Galbusera F, Cazzato A, Pellegrino ME, Albano D and Sconfienza LM.** Generating sagittal radiographs from coronal views by deep learning model in adolescent idiopathic scoliosis. *30th Congress of the European Society of Biomechanics (ESB)*, Zurich, Switzerland, 06.-09.07.2025.
  7. **Bauer S, Mahloully J, Tolosano L, Blakeney W, Moroder P and Shao W.** Der intraoperative Two-Hand-Lever-Test für die superolaterale Instabilität von inversen Prothesen mit 135° Neck-Shaft-Angle: Einfluss auf die Verwendung retentiver Inlays und Übersicht aktueller Inlay-Designs. 30. *Jahreskongress der D-A-CH Vereinigung für Schulter- und Ellenbogenchirurgie (DVSE) e.V.*, Zürich, Schweiz, 15.-16.05.2025.
  8. **Baum C, Stojanov T, Audigé L, ARCR\_Pred Study Group and Müller A.** Reliability and accuracy of MRI-based assessment of the critical shoulder angle. *42. Kongress der Gesellschaft für Arthroskopie und Gelenkchirurgie (AGA)*, Hamburg, Germany, 11.-13.09.2025.
  9. **Bell L, Fürst R, Nauer S and Rüdiger HA.** Assessment of muscle status after extended trochanteric osteotomy (ETO) in revision total hip arthroplasty: a pilot study. *swiss orthopaedics 85. Jahreskongress*, Zurich, Switzerland, 25.-27.06.2025.
  10. **Bellmann F, Rosskopf A, Eckl L, Vetter P, Lazaridou A, Pfirrmann C and Scheibel M.** MR-tomografische Rupturmuster bei Rockwood Typ 3 + 5 Verletzungen und ihre prognostische Relevanz für den Repositionsverlust nach AC-Gelenksstabilisierung. *Deutscher Kongress für Orthopädie und Unfallchirurgie (DKOU) 2025*, Berlin, Deutschland, 28.-31.10.2025.
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  13. **Böhm E, Lorenz C, Hachem A, Lazaridou A and Scheibel M.** Arthroskopische Beckenkammspanplastik: Graft-Typ und Positionierung - Schlüssel zur Resorption? *30. Jahreskongress der D-A-CH Vereinigung für Schulter- und Ellenbogenchirurgie (DVSE) e.V.*, Zürich, Schweiz, 15.-16.05.2025.
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  17. **Braun ME, Klimov A, Scheibel M, Lazaridou A, Schneller T, Moro F, Pfender A and Imiolczyk JP.** Postoperative periprosthetic humerus fractures after primary reverse shoulder arthroplasty - results of a local shoulder arthroplasty registry. *swiss orthopaedics 85. Jahreskongress*, Zurich, Switzerland, 25.-27.06.2025.
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31. **Diermayr S, Graf F, Brune D, Etter M, Scheibel M, Forster A, Lazaridou A and Audigé L.** Ultraschallgesteuerte Kalklavage der Rotatorenmanschette: die Rolle der Power-Doppler-Sonographie. *30. Jahreskongress der D-A-CH Vereinigung für Schulter- und Ellenbogenchirurgie (DVSE) e.V.*, Zürich, Schweiz, 15.-16.05.2025.
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33. **Do A, Akgün D, Paksoy A and Scheibel M.** Langfristige Ergebnisse des arthroskopischen HAGL-Repairs nach 10 Jahren Follow-Up. *42. Kongress der Gesellschaft für Arthroskopie und Gelenkchirurgie (AGA)*, Hamburg, Deutschland, 11.-13.09.2025.
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36. **Do A, Paksoy A, Moroder P, Hayta O and Akgün D.** Langfristige Ergebnisse der arthroskopischen Bankart-Operation mit zusätzlicher posteroinferiorer Kapselplikaturn bei Patienten mit anteriorer Schulterinstabilität und begleitender Hyperlaxität (Typ B3): Minimum 10 Jahre Follow-up. *Deutscher Kongress für Orthopädie und Unfallchirurgie (DKOU) 2025*, Berlin, Deutschland, 28.-31.10.2025.
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42. **Do A, Paksoy A, Scheibel M, Moroder P, Hayta A and Akgün D.** Long-term outcomes of a contemporary arthroscopic Bankart repair technique in patients with traumatic anterior shoulder instability: minimum 10-year follow-up. *swiss orthopaedics 85. Jahreskongress*, Zurich, Switzerland, 25.-27.06.2025.
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44. **Ebner I, Coppers B, Dreiner M, Godonou ET, Lepileur M, Weyers M, Temiz A, Schett G, Zaucke F, Mündermann A, Niehoff A and Liphardt A-M.** Urinary type II collagen excretion during 60 days of HDT bed rest: role of pre-study physical activity (brace study, preliminary). *Leopoldina Symposium 2025*, Salzburg, Austria, 09.-11.10.2025.
45. **Eckl L, Delliehausen N, Friess J, Vetter P, Bellmann F, Berli Y, Schneller T, Lazaridou A and Scheibel M.** Entwicklung eines innovativen, standardisierten Registers zur ganzheitlichen Erfassung der Instabilität des Akromioklavikulargelenks. *30. Jahreskongress der D-A-CH Vereinigung für Schulter- und Ellenbogenchirurgie (DVSE) e.V.*, Zürich, Schweiz, 15.-16.05.2025.
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47. **Eckl L, Jessen M, Lappen S, Warnhoff M, Scheibel M and Colmsee K.** „Spezielle Orthopädische Chirurgie“ und „Spezielle Unfallchirurgie“: Eine systematische Analyse der Weiterbildungsordnungen. *30. Jahreskongress der D-A-CH Vereinigung für Schulter- und Ellenbogenchirurgie (DVSE) e.V.*, Zürich, Schweiz, 15.-16.05.2025.
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49. **Etter M, Schätz J, de Jong M, Freislederer F, Scheibel M and Diernmayr S.** Ultrasound assessment of the myotendinous junction of the long head of the biceps tendon for evaluating

- tendon integrity. *Jahreskongress Schweizerische Gesellschaft für Rheumatologie (SGR)*, Interlaken, Switzerland, 04.-05.09.2025.
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  51. **Fischer G, Kilian E, Vitale J, Galbusera F, O’Riordan D, Reitmeir R, Ropelato M, Haschtmann D, Kleinstück F, Fekete T, Jeszenszky D, Porchet F and Loibl M.** Surgical treatment of recurrent lumbar disc herniation: to fuse or not to fuse? A single-center analysis of clinical and radiological characteristics and surgical outcomes of 450 patients. *Eurospine 2025*, Copenhagen, Denmark, 22.-24.10.2025.
  52. **Freisleder F, Imiolczyk JP, Schneller T, Scheibel M and Lazaridou A.** One size doesn’t fit all: Phänotypisierung von Patienten zur Optimierung der Implantatdesignwahl bei inverser Schultertotalendoprothese. *30. Jahreskongress der D-A-CH Vereinigung für Schulter- und Ellenbogenchirurgie (DVSE) e.V.*, Zürich, Schweiz, 15.-16.05.2025.
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  54. **Freisleder F, Imiolczyk JP, Schneller T, Scheibel M and Lazaridou A.** One size doesn’t fit all: Phänotypisierung von Patienten zur Optimierung der Implantatdesignwahl bei inverser Schultertotalendoprothese. *42. Kongress der Gesellschaft für Arthroskopie und Gelenkchirurgie (AGA)*, Hamburg, Deutschland, 11.-13.09.2025.
  55. **Galbusera F.** Automated numerical estimation of the spinal motion from vertebral anatomy. *51st Annual Meeting of the International Society for the Study of the Lumbar Spine (ISSLS)*, Atlanta, USA, 12.-16.05.2025.
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205. **Vetter P, Imiolczyk JP, Warnhoff M, Freisleder F, Lazaridou A and Scheibel M.** Implantationsspezifische Besonderheiten eines neuen metaphysär verankerten und konvertierbaren Kurzschaftsystems. *30. Jahreskongress der D-A-CH Vereinigung für Schulter- und Ellenbogenchirurgie (DVSE) e.V.*, Zürich, Schweiz, 15.-16.05.2025.
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226. **Winkelmann M, Stephan A, Stadelmann VA, Rippstein P and Friederichsen P.** Mid-term patient-reported outcomes after tarsal tunnel release in refractory tarsal tunnel syndrome. *swiss orthopaedics* 85. Jahreskongress, Zurich, Switzerland, 25.-27.06.2025.

### Master's theses

1. **Brune D.** *The role of psychosocial factors in postsurgical pain following shoulder replacement surgery* (Master of Science in Psychology). Zurich, Switzerland: University of Zurich (UZH), 2025. Supervisors: Lazaridou A and Bierbauer W.
2. **Bühler S.** *Exploring the interplay of pain, sleep, and functional recovery following shoulder arthroplasty* (Master of Science). Zurich, Switzerland: Swiss Federal Institute of Technology (ETH), 2025. Supervisor: Lazaridou A.
3. **Bünter F.** *Motion capture data improves outcome prediction of hip impingement surgery* (Master of Science). Zurich, Switzerland: Swiss Federal Institute of Technology (ETH), 2025. Supervisors: Dätwyler K and List R.
4. **Hofstetter S.** *Sex differences in the associations between lower limb extension power, functional performance and PROMs in patients with knee osteoarthritis scheduled for knee arthroplasty* (Master of Science). Zurich, Switzerland: Swiss Federal Institute of Technology (ETH), 2025. Supervisor: Maffioletti NA.
5. **Kaister N.** *Modeling of muscle and hip joint forces in femoroacetabular impingement patients before and after surgery* (Master of Science). Zurich, Switzerland: Swiss Federal Institute of Technology (ETH), 2025. Supervisor: List R.
6. **McCarthy C.** *Integrating foot-worn force and inertial sensors to enhance exergaming for older adults* (Master of Science). Zurich, Switzerland: Swiss Federal Institute of Technology (ETH), 2025. Supervisor: List R.
7. **Ott N.** *Comparison of hip abduction and adduction strength using handheld versus fixed dynamometry with simultaneous surface EMG measurements in healthy adults. A validity and reliability study* (Master of Science in Physiotherapy). Winterthur, Switzerland: Zurich University of Applied Sciences (ZHAW), 2025. Supervisor: Bizzini M.
8. **Palermo M.** *Understanding patient's satisfaction disparities in total hip replacement in Switzerland: a case study of Schulthess Klinik* (Master of Human Medicine). Zurich, Switzerland: University of Zurich (UZH), 2025. Supervisor: Rüdiger HA and Stadelmann V.
9. **Richter H.** *Surface replacing proximal interphalangeal joint arthroplasty in patients with post-traumatic versus primary osteoarthritis* (Master of Human Medicine). Krems-Stein, Austria: Donau University, 2025. Supervisor: Marks M.
10. **Rosenberger M.** *Effect of exercise therapy on femoroacetabular impingement syndrome: a biomechanical analysis* (Master of Science). Zurich, Switzerland: Swiss Federal Institute of Technology (ETH), 2025. Supervisor: List R.
11. **Sizaret A.** *Evaluation of the impact of exercise therapy on hip joint loading in femoroacetabular impingement syndrome using musculoskeletal modelling* (Master of Science). Lausanne, Switzerland: Swiss Federal Institute of Technology (EPFL), 2025. Supervisor: List R.