

1. Hayashi S, Murakami Y, Inoue H, Nobutou H, Nishida K, Mochizuki Y. Changes in ligamentous laxity after posterior stabilized total knee replacement and factors correlated with postoperative laxity. European Orthopaedics and Traumatology. 2014
2. Hayashi S, Murakami Y, Inoue H, Nobutou H, Nishida K, Mochizuki Y. Gap measurement in posterior-stabilized total knee arthroplasty with or without a trial femoral component. Arch Orthop Trauma Surg. 2014
3. Hayashi S, Okada T, Horita K. Bilateral TKA for Charcot arthropathy associated with multiple levels of spinal canal stenoses: A case report and review of literature. J Orthop. 2016
4. Hayashi S, Adachi N, Ikuta Y, Shimizu R, Nakasa T, Ishikawa M, Nakamae A, Deie M, Ochi M. Lipoma arborescens in bilateral knee joints accompany gouty tophi: A case-based review of the literature. J Orthop Sci. 2016
5. Hayashi S, Kamei N, Ikuta Y, Shimizu R, Ishikawa M, Adachi N, Ochi M. Chondrocyte Cell-sheet Transplantation for Treating Monoiodoacetate-induced Arthritis Model in Rat. Tissue Eng Part C Methods. 2017
6. Hayashi S, Nakasa T, Ishikawa M, Nakamae A, Miyaki S, Adachi N. Histological Evaluation of Early-Phase Changes in the Osteochondral Unit After Microfracture in a Full-Thickness Cartilage Defect Rat Model. Am J Sports Med. 2018
7. Hayashi S, Nakasa T, Matsuoka Y, Akiyama Y, Ishikawa M, Nakamae A, Awai K, Adachi N. Evaluation of the degenerative pattern of PCL in osteoarthritis patients using UTE-T2 mapping. APSMART. 2021
8. Hayashi S, Tsukisaka K, Aoki T, Okuhara A. Inversed V-shaped High Tibial Osteotomy for Severe Varus Deformity due to Blount Disease: A Case Report. Journal of Orthopaedic Case Reports 2021.
9. Hayashi S, Tsukisaka K, Okuhara A, Tsuyuguchi Y, Goto K, Hashiguchi N. Inverted V-Shaped High Tibial Osteotomy Decreases the Posterior Tibial Slope More but Shortens the Tibia Less Than Closed-Wedge High Tibial Osteotomy. Arthroscopy. 2022.
10. Hayashi S, Miyazaki S. Gross Appearances of the Posterior Cruciate

Ligament Correlate With Its Histological Features but not With In Vivo Function in Cruciate-Retaining Total Knee Arthroplasty. Cureus. 2023.

11. Hayashi S, Miyazaki S. Preserved posterior cruciate ligament contributed to knee sagittal stability, but not to rollback and deep knee flexion in cruciate-retaining total knee arthroplasty with a cruciate-substituting insert. Journal of Joint Surgery and Research. 2024.
12. Hayashi S, Kei Kato, Miyazaki S, Yunokawa K. Post-operative change in lower limb length in inverted V-shaped high tibial osteotomy with a large correction angle is larger than that with a small correction angle. Journal of Joint Surgery and Research. 2025.
13. Hayashi S, Kei Kato. Preservation of posterior cruciate ligament in cruciate-retaining total knee arthroplasty with a cruciate-substituting insert does not affect postoperative clinical outcomes, including Forgotten Joint Score 12. The Knee, 2025