

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