



## Kuan-Lin Chen MD

- Affiliate, Orthopaedic Surgery
- Visiting Scholar, Orthopaedic Surgery

### Bio

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#### BIO

Dr. Kuan Lin Chen is a fellowship-trained orthopedic surgeon specializing in hip and knee arthroplasty, as well as joint reconstruction following musculoskeletal tumor resection. Dr. Chen's research focuses on optimizing the long-term survival of reconstructions, with a particular interest in the mechanical behavior and integration of bone grafts. With a background in biomedical engineering, he helped develop multiple patient-centric devices. He frequently lectures on strategic design thinking in medical technology. Committed to evidence-based innovation, Dr. Chen integrates surgical expertise with a rigorous evaluation process to ensure meaningful, patient-centered impact.

#### Clinical Focus

Adult Reconstructive Orthopedic Surgery, Musculoskeletal Oncology

#### Professional Education

Fellowship: Joint Reconstruction and MSK Oncology, Taipei Veterans General Hospital (2024)

Residency: Taipei Veterans General Hospital (2023)

Medical Education: MD, National Yang Ming Chiao Tung University (2016); Master of Translational Medicine, UC Berkeley/ UCSF (2018)

#### Publications

- Tian YH, Chen KL, Kao KC, Wang PH, Chen CF, Chen WM. Prognostic impact of preoperative MRI on core decompression in ARCO stage III osteonecrosis of the femoral head: a retrospective cohort study. *J Orthop Surg Res.* March 22, 2026. doi:10.1186/s13018-026-06720-8
- Zalikha L, Chen KL, Pius AK, Sanchez M, Zaniletti I, Huddleston JI 3rd. Substantial Clinical Benefit After Total Knee Arthroplasty Has Been Set Too High: An Analysis of the American Joint Replacement Registry. *J Bone Joint Surg Am.* Published online January 29, 2026. doi:10.2106/JBJS.25.00952
- Chen KL, Goodman SB. CORR Synthesis: What Is the Evidence for Joint-saving Procedures in ARCO Stage III Osteonecrosis of the Femoral Head?. *Clin Orthop Relat Res.* October 30, 2025 doi:10.1097/CORR.0000000000003736
- Tian Y-H, Chen K-L, Wang P-H, Wu P-K, Chen C-F, Chen W-M. Patellofemoral arthroplasty in isolated Iwano grade IV patellofemoral osteoarthritis: 86% 10-year survival. *J Exp Orthop.* 2025;12:e70515. doi:10.1002/jeo2.70515
- Tian YH, Kao KC, Chen KL, Wang PH, Chen CF, Chen WM. Distribution of early- versus late-stage ONFH in core decompression cases at a tertiary center: does presenting symptomatology affect conversion to total hip replacement?. *J Orthop Surg Res.* 2025;20(1):983.
- Chen KL, Chen CF, Wu PK, et al. Balancing Tumor Control and Cartilage Preservation for Patients with Giant Cell Tumor of Bone Around the Knee: A Clinical Report from a Single Institute. *J Bone Joint Surg Am.* 2025;107(10):e50. doi:10.2106/JBJS.23.01478

- Chen KL, Yin CY, Huang HK, Huang YC, Wang JP. Enabling the design of surgical instruments for under-resourced patients through metal additive manufacturing: ulnar shortening osteotomy as an example. *3D Print Med*. 2024 May 31;10(1):18. doi: 10.1186/s41205-024-00220-3. PMID: 38819766; PMCID: PMC11141050.
- Chen, KL, Chen, CM., Wu, PK., Chen, WM. (2022). Biological Reconstruction of the Humeral Diaphysis: Irradiated Autograft. In: Özger, H., Sim, F.H., Puri, A., Eralp, L. (eds) *Orthopedic Surgical Oncology For Bone Tumors* . Springer, Cham. [https://doi.org/10.1007/978-3-030-73327-8\\_43](https://doi.org/10.1007/978-3-030-73327-8_43)
- Chen, KL, Chen, C. M., Chen, C. F., Cheng, Y. C., Lin, Y. K., Tsai, S. W., Chen, T. H., Wu, P. K., & Chen, W. M. (2021). Comparable outcomes of recycled autografts and allografts for reconstructions in patients with high-grade osteosarcoma. *International orthopaedics*, 45(11), 2973–2981.
- Chen, KL, Wang, S. J., Chuang, C., Huang, L. Y., Chiu, F. Y., Wang, F. D., Lin, Y. T., & Chen, W. M. (2020). Novel Design for Door Handle-A Potential Technology to Reduce Hand Contamination in the COVID-19 Pandemic. *The American journal of medicine*, 133(11), 1245–1246.