

## Research field:

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## Other Faculty Members

Associate Professor: Yukiyo SHIMIZU (shimiyukig@md.tsukuba.ac.jp )

## Major Scientific Interests of the Group

We aim to learn various fields related to Rehabilitation medicine (disability medicine, clinical neurophysiology, prosthetics and orthotics), and conduct clinical research related to rehabilitation medicine through medical engineering cooperation, robot rehabilitation, para sports medicine.

### Projects for Regular Students in Doctoral or Master's Programs

- 1) Validation of Rehabilitation Treatments through Motion Analysis and Neurophysiological Considerations
- 2) Development and Verification of Rehabilitation Treatment Devices
- 3) Evaluation of the Effectiveness of Robot-Assisted Rehabilitation
- 4) Evidence based Cancer rehabilitation
- 5) Analysis of physical and psychological effects of para sports

### Study Programs for Short Stay Students (one week – one semester)

- 1) Understanding of Rehabilitation Evaluation tool
- 2) Introduction to Robot-Assisted Rehabilitation
- 3) Basics of Para Sports Medicine

### Selected Publications

- 1) Factors Associated with Discharge Destination in Patients with Bone Metastases.  
Himematsu H, [Shimizu.Y](#), Yuhara T, Hiasa K, Yamazaki M, [Hada.Y](#).  
*Medicina (Kaunas)*. 2024 May 27;60(6):881. doi: 10.3390/medicina60060881.
- 2) A Multidisciplinary Rehabilitation Approach for a Patient With Diffuse Large B-cell Lymphoma and Bone Metastasis: A Case Report.  
Watanabe G, [Shimizu.Y](#), Mataka Y, Tokeji K, [Hada.Y](#).  
*Cureus*. 2024 May 20;16(5):e60713. doi: 10.7759/cureus.60713. eCollection 2024 May.
- 3) Association between Sarcopenia and Balance in Patients Undergoing Inpatient Rehabilitation after Hip Fractures: A Retrospective Cohort Study.  
Ishimoto R, Mutsuzaki H, [Shimizu.Y](#), Takeuchi R, Matsumoto S, [Hada.Y](#).  
*Medicina (Kaunas)*. 2024 Apr 29;60(5):742. doi: 10.3390/medicina60050742.
- 4) Developing a Novel Prosthetic Hand with Wireless Wearable Sensor Technology Based on User Perspectives: A Pilot Study.  
[Shimizu.Y](#), Mori T, Yoshikawa K, Katane D, Torishima H, Hara Y, Yozu A, Yamazaki M, [Hada.Y](#), Mutsuzaki H.  
*Sensors (Basel)*. 2024 Apr 26;24(9):2765. doi: 10.3390/s24092765.
- 5) Association between Obesity and Short-Term Patient-Reported Outcomes following Total Knee Arthroplasty: A Retrospective Cohort Study in Japan.  
Ishimoto R, Mutsuzaki H, [Shimizu.Y](#), Yoshikawa K, Koseki K, Takeuchi R, Matsumoto S, [Hada.Y](#).  
*J Clin Med*. 2024 Feb 24;13(5):1291. doi: 10.3390/jcm13051291.