MIRAI Medtech

Next-Generation Supermicrosurgery Consortium

24th Virtual Conference

The Future of Surgery

MON, Mar 17, 2025, 18:00-20:00 (JST)

1. Opening speech

The latest insights on super microsurgery 24

- Reconstruction of Bone and Soft Tissue Using Super microsurgery [Surgical Video Demonstration] -

Isao Koshima, M.D., Ph.D.

Professor and Center Chief,
Department of Plastic and Reconstructive Surgery,
International Center for Lymphedema,
Hiroshima University Hospital

2. Invited Lecture

Development of an AI-Powered X-ray Imaging Interpretation System for Bone Tumors and Recent Advances

Toshifumi Ozaki, M.D., Ph.D.

Professor
Department of Orthopaedic Surgery, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences

3. Q&A, Panel Discussion

Panelist: Prof. Koshima, Prof. Ozaki, Dr. Chavre Sachin (India), Dr. Giulio Tarantino (Italy), Dr. Vimal Gokani (UK)

Please look forward to it!

■ **Registration and Fees : https://cpk.jp/reg/2**

Participation fees for organizations such as companies and public institutions are as follows: 15,000 yen per person, 28,000 yen for two people, and 40,000 yen for three people.
*Special frequency ticket are also available. Please contact the secretariat.
*Free for healthcare professionals, academia, and students (excluding adult students).

Seminar venue URL: https://cpk.jp/s/2164

Registration

Mirai Medtech | https://ikou-funding.com | info@ikou-funding.com

Next-Generation Supermicrosurgery Consortium

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Outline

Primary malignant bone tumors are rare cancers that predominantly occur during the growth phase. Due to their rarity, many physicians lack clinical experience in diagnosing them, making it particularly challenging for general orthopedic surgeons to provide an accurate diagnosis at the initial consultation. To address this issue, our team has been developing an AI-powered X-ray image interpretation system designed to detect radiographic features specific to primary malignant bone tumors. Our ultimate goal is to obtain regulatory approval and implement this system as a certified medical device for clinical use.
In addition, we are advancing digital transformation (DX) in the field of bone and soft tissue tumors by developing a specialized chatbot powered by large language models (LLMs). This AI chatbot engages in iterative Q&A sessions, processes information step by step, and generates appropriate responses to support clinical decision-making. Furthermore, we are working on establishing a metaverse-based platform where bone and soft tissue tumor patients can connect, exchange information, and build a supportive community nationwide.
This seminar will provide insights into our latest research on AI-assisted diagnosis for bone tumors and discuss future prospects in this field.

President Isao Koshima (Professor in the Department of Plastic and Reconstructive Surgery at Hiroshima University Hospital) of this research society will present the latest findings and global trends in connection with the invited lecture.The session will feature a surgical video demonstration showcasing key techniques.
This time, I will be giving a lecture on " Reconstruction of Bone and Soft Tissue Using Super microsurgery [Surgical Video Demonstration]."

After the lecture, there will be a lively online panel discussion with the speakers.

We hope you will join us for this informative event!

Suppremetary Information [Career & Achievements]

Toshifumi Ozaki, M.D., Ph.D.
Professor
Department of Orthopaedic Surgery, Okayama University Graduate School of Medicine,

<Profile>

March 1987	Graduated from Okayama University Medical School
April 1991	Medical Staff, Okayama University Hospital
July 1993	Studied at the Department of Orthopedic Surgery, University of Münster, Germany, as a German Government Scholarship Student
June 1999	Conducted research at the Department of Orthopedic Surgery, University of Münster, as a Humboldt Foundation Research Fellow
June 2002	Lecturer, Department of Orthopedic Surgery, Okayama University Hospital
October 2002	Obtained Habilitation (professorial qualification) in Orthopedic Surgery in the German-speaking academic system
June 2005	Professor, Department of Orthopedic Surgery, Division of Functional Reconstruction and Regeneration, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University
April 2011 – March 2013	Director, Department of Medical Training, Postgraduate Clinical Training Center, Okayama University Hospital
April 2013	Vice Director (Education), Okayama University Hospital
April 2021	Professor, Department of Orthopaedic Surgery, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences
April 2023	Director, Department of Comprehensive Rehabilitation, Okayama University

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