




**HKU Med** School of Clinical Medicine  
Department of Orthopaedics  
& Traumatology  
香港大學矯形及創傷外科學系

# 5<sup>th</sup> HKU International Musculoskeletal Tumour Course

 1/F, Boardroom,  
Daniel & Mayce Yu Administration Wing,  
Faculty of Medicine Building,  
21 Sassoon Road, Pokfulam, Hong Kong

**8** – **9** **DEC 2023**  
Fri Sat



## PROGRAM BOOK



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA

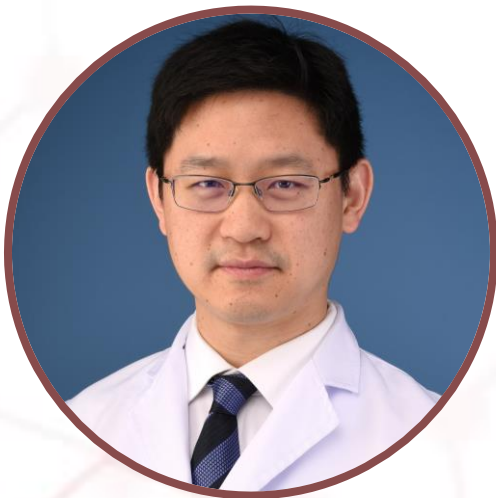


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# WELCOME MESSAGE

## DEPARTMENT CHAIRPERSON



### **Prof. Jason CHEUNG**

Department Chairperson

Department of Orthopaedics and Traumatology

School of Clinical Medicine

The University of Hong Kong

It gives me immense pleasure to welcome you to the 5th HKU International Musculoskeletal Tumour Course. After two years of coronavirus-induced suspension in 2019 and 2020, we were finally able to host the course at the Combined 60th Anniversary Scientific Meeting and the 17th Hong Kong International Orthopaedic Forum in 2021 with great success.

This year, we are hosting the first face-to-face Musculoskeletal Tumour Course since the pandemic. We continue our mission to promote musculoskeletal oncology knowledge across the region. This two-day course will provide you with a comprehensive review of various conditions within Orthopaedic Oncology and an introduction to the principles of management in Musculoskeletal Tumours. I would like to extend a special thanks to our local and international faculties for sharing their wealth of expertise, and to our sponsors for their generous support in making this course a reality.

Enjoy the course and I look forward to seeing you in person!

# WELCOME MESSAGE

## COURSE DIRECTOR



### **Dr. Kenneth HO**

Honorary Clinical Assistant Professor  
Department of Orthopaedics and Traumatology  
School of Clinical Medicine  
The University of Hong Kong

On behalf of the organizing committee, I am delighted to welcome you to the "The 5th HKU International Musculoskeletal Tumour Course".

Musculoskeletal Tumours are uncommon malignancies, hence it is often overlooked. However, due to the hard work of our pioneers, there have been quite a lot of developments and advances in this field in recent years. Some of them have revolutionized our current management strategies. This unique course aims to provide a platform for medical professionals, who have an interest in this area, to learn the basics of musculoskeletal tumour surgery, as well as the latest advances in this sub-specialty. We have invited both local and overseas professors and experts to share their views and experiences on musculoskeletal tumours.

In the past few years, the world has been overshadowed by the Covid pandemic with lockdowns, travel disruptions and restrictions. Academic meetings were forced to be held online. This year is the first face-to-face meeting after the pandemic, and we are eagerly looking forward to having more personal interactions as we have before. Finally, welcome you onto the course and we very much look forward to your enthusiastic participation.

# WELCOME MESSAGE

## COURSE DIRECTOR



### **Prof. Pietro RUGGIERI**

Professor

Department of Orthopedics and Orthopedic Oncology  
University of Padova, Italy

Six years after the foundation of the International Musculoskeletal Tumour Course of University of Hong Kong in 2017, I am very excited to welcome you to the 5th edition of this valuable event, organised in cooperation with the University of Padova.

The University of Hong Kong is an excellent Institution and I am honoured to be part of the prestigious Faculty of this Course, addressed to those (orthopaedic surgeons, radiologists, pathologists, clinical oncologists and medical oncologists) who wish to review and update their knowledge in the field of musculoskeletal oncology.

I would like to express my deep appreciation to the Organizing Committee and especially the Co-Chairman Dr. Kenneth Wai Yip HO, presenters and participants for their laudable effort and commitment.

With the end of pandemic, we all can be totally face-to-face and this allows a better exchange of information and favours friendship, which adds important value to our meetings and courses.

Let me conclude saying that I am sure that the 5th HKU Meeting International Musculoskeletal Tumour Course will be fruitful and successful for all participants, and I wish all of you a good time in Hong Kong.



# ORGANIZING COMMITTEE

## Course Directors

### **Dr. Kenneth HO**

Department of Orthopaedics and Traumatology, School of Clinical Medicine,  
The University of Hong Kong

### **Prof. Pietro RUGGIERI**

Department of Orthopedics and Orthopedic Oncology,  
University of Padova, Italy

## Members

### **Dr. Albert LAM**

Department of Orthopaedics and Traumatology, School of Clinical Medicine,  
The University of Hong Kong

### **Dr. Anderson LEUNG**

Department of Orthopaedics and Traumatology, School of Clinical Medicine,  
The University of Hong Kong

### **Dr. Raymond YAU**

Department of Orthopaedics and Traumatology, School of Clinical Medicine,  
The University of Hong Kong

## Secretarial Support

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Department of Orthopaedics and Traumatology, School of Clinical Medicine,  
The University of Hong Kong

### **Ms. Cherry CHUNG**

Department of Orthopaedics and Traumatology, School of Clinical Medicine,  
The University of Hong Kong

### **Ms. Carmen LIU**

Department of Orthopaedics and Traumatology, School of Clinical Medicine,  
The University of Hong Kong

# OVERSEAS AND REGIONAL SPEAKERS

**Prof. Andreas LEITHNER**

Head and Professor  
Department of Orthopaedic Surgery  
Medical University of Graz

**Prof. Doug LETSON**

Physician in Chief / Ortho Oncologist  
Sarcoma and Hospital Administration  
H. Lee Moffitt Cancer Center and Research Institute

**Prof. Xiao Hui NIU**

Chair and Professor  
Department of Orthopaedic Oncology  
Beijing Ji Shui Tan Hospital  
Peking University

**Prof. Pietro RUGGIERI**

Professor  
Department of Orthopedics and Orthopedic Oncology  
University of Padova

**Dr. John SHIN**

Associate Professor  
Department of Neurosurgery  
Massachusetts General Hospital  
Harvard Medical School

**Prof. Jin WANG**

Professor and Chair  
Musculoskeletal Oncology Department  
Sun Yat-sen University Cancer Center

**Prof. PQ WU**

Chief, Professor  
Orthopaedics  
National Yang Ming Chiao Tung University

# LOCAL SPEAKERS

**Dr. Florence CHEUNG**

Pathology Specialist  
Clinical Laboratory  
Gleneagles Hospital Hong Kong

**Dr. Gerry KWOK**

Honorary Clinical Tutor  
Department of Medicine  
The University of Hong Kong

**Dr. Vince LAU**

Consultant Radiologist  
Department of Radiology  
Gleneagles Hospital Hong Kong

**Dr. Dennis LEUNG**

Consultant  
Department of Clinical Oncology  
Queen Mary Hospital

**Dr. Ka Lok MAK**

Consultant  
Department of Orthopaedics and Traumatology  
Queen Elizabeth Hospital / Hong Kong Children's Hospital

**Dr. Raymond YAU**

Honorary Clinical Assistant Professor  
Department of Orthopaedics and Traumatology  
School of Clinical Medicine  
The University of Hong Kong

**Dr. Maximus YEUNG**

Clinical Assistant Professor  
Department of Pathology  
School of Clinical Medicine  
The University of Hong Kong



# MODERATORS

**Dr. Edelyn S AZURIN**

Clinical Associate  
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**Dr. Maximus YEUNG**

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The University of Hong Kong

# PROGRAM

## 8 DECEMBER 2023 (DAY 1)

Time	Topic	Speaker
09:00-09:05	Opening remarks	Prof. Pietro RUGGIERI
	<b>Session 1: Basic assessments (1)</b> <i>Moderators: Dr. Kenneth HO, Dr. Douglas WONG</i>	
09:05-09:35	Principles of bone imaging: when should we be alert?	Prof. Andreas LEITHNER
09:35-10:05	Principles of soft tissue imaging	Prof. Doug LETSON
10:05-10:35	No-touch lesions	Prof. Pietro RUGGIERI
10:35-10:50	Q&A	
10:50-11:05	Break	
	<b>Session 2: Basic assessments (2)</b> <i>Moderators: Dr. Albert LAM, Dr. Tony SHEK</i>	
11:05-11:35	Biopsy principles	Prof. PQ WU
11:35-12:05	Principles of bone pathology	Dr. Florence CHEUNG
12:05-12:25	Principles of soft tissue pathology	Dr. Maximus YEUNG
12:25-12:40	Molecular and genetic study in MSK tumour	Dr. Maximus YEUNG
12:40-12:50	Q&A	
12:50-13:50	Lunch break	
	<b>Session 3: Malignant bone tumour</b> <i>Moderators: Dr. Edelyn S AZURIN, Dr. Raymond YAU</i>	
13:50-14:20	Osteosarcoma and principles of management	Prof. Xiao Hui NIU
14:20-14:50	Chondrosarcoma and principles of management	Prof. Pietro RUGGIERI
14:50-15:20	Sacral tumour	Dr. John SHIN
15:20-15:30	Q&A	
15:30-15:45	Break	
15:45-17:00	<b>Session 4: Case discussion (3-4 cases)</b> <i>Moderators: Dr. Anderson LEUNG, Dr. Gabriel LEUNG</i> <i>Panel: Prof. Andreas LEITHNER, Prof. Doug LETSON, Prof. Xiao Hui NIU, Prof. Pietro RUGGIERI, Dr. John SHIN, Prof. Jin WANG, Dr. Feng WEI</i>	
17:00-17:05	Closing remarks and announcement	

# PROGRAM

## 9 DECEMBER 2023 (DAY 2)

Time	Topic	Speaker
09:00-09:05	Opening remarks	Dr. Kenneth HO
	<b>Session 5: Management principles</b> <i>Moderators: Dr. Calvin CHIU, Dr. Anderson LEUNG</i>	
09:05-09:35	Resection of bone tumour and new advances	Prof. Xiao Hui NIU
09:35-10:05	Systemic treatment in MSK tumour: Oncologist's perspective	Dr. Gerry KWOK
10:05-10:35	Radiotherapy in MSK tumour	Dr. Dennis LEUNG
10:35-10:45	Q&A	
10:45-11:00	Break	
	<b>Session 6: Bone and soft tissue reconstruction</b> <i>Moderators: Dr. Gerry KWOK, Dr. Douglas WONG</i>	
11:00-11:30	Prosthetic bone reconstruction	Prof. Doug LETSON
11:30-12:00	Biological bone reconstruction	Prof. PQ WU
12:00-12:20	Soft tissue reconstruction	Dr. Raymond YAU
12:20-12:30	Q&A	
12:30-13:30	Lunch break	
	<b>Session 7: Other tumours</b> <i>Moderators: Dr. Kenneth HO, Dr. Gabriel Leung</i>	
13:30-14:00	Giant cell tumour	Prof. Jin WANG
14:00-14:30	Bone metastasis: should we treat patients with oligometastases differently?	Prof. Andreas LEITHNER
14:30-14:50	Soft tissue sarcoma and surgical planning	Prof. Doug LETSON
14:50-15:10	Interventional radiology	Dr. Vince LAU
15:10-15:20	Q&A	
15:20-15:35	Break	
15:35-16:55	<b>Session 8: Case discussion (3-4 cases)</b> <i>Moderators: Dr. Edelyn S AZURIN, Dr. Raymond YAU</i> <i>Panel: Prof. Andreas LEITHNER, Prof. Doug LETSON, Dr. Ka Lok MAK, Prof. Xiao Hui NIU, Prof. Pietro RUGGIERI, Prof. Jin WANG, Prof. PQ WU</i>	
16:55-17:00	Closing remarks and announcements	Dr. Raymond YAU

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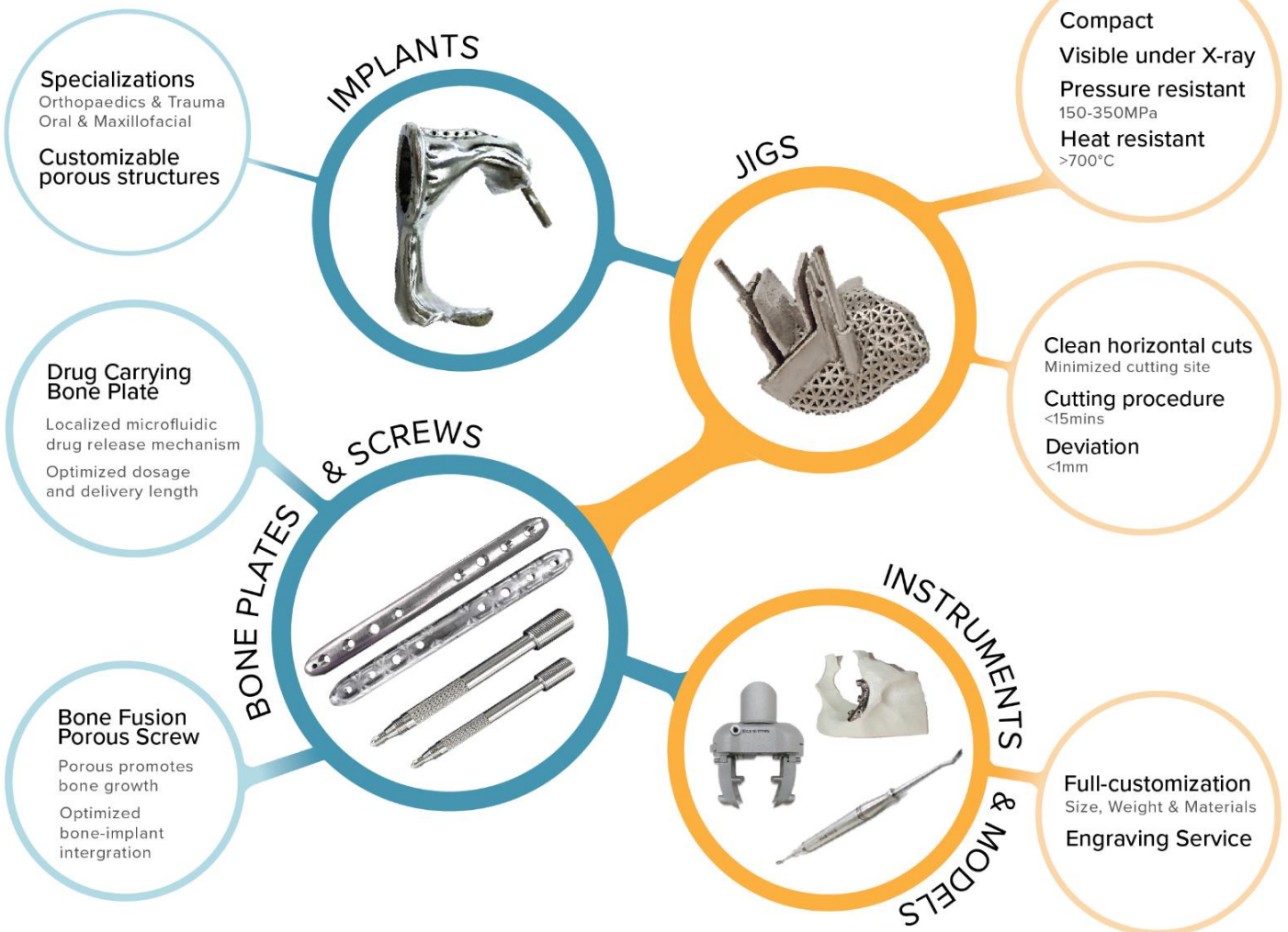
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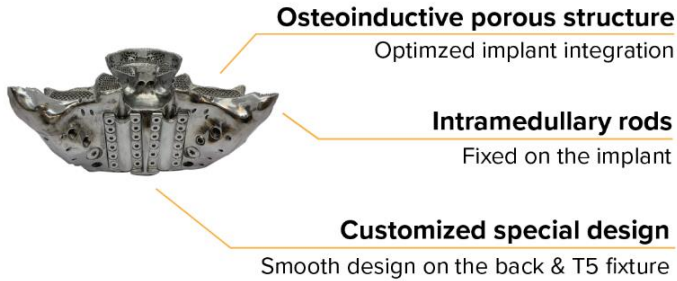
# IMPLANTS & PSIs

CASE OVERVIEW: TUMOR & TRAUMA AND REALIGNMENT



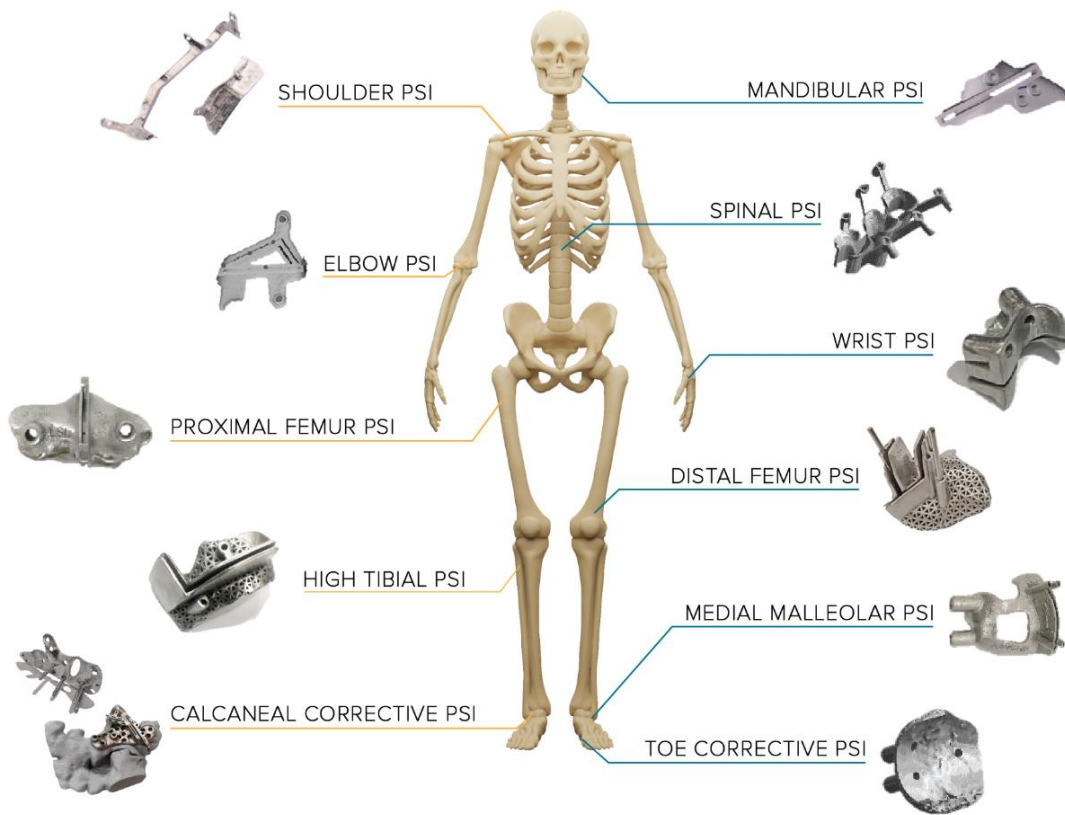
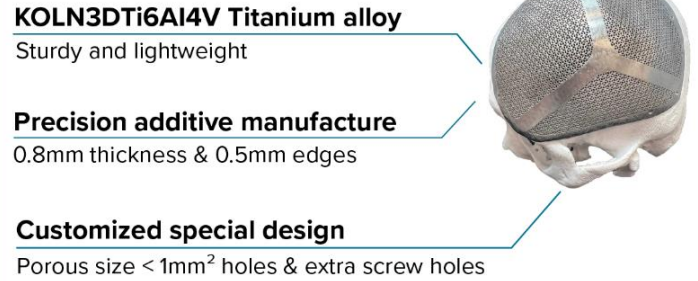
## SACRUM IMPLANT

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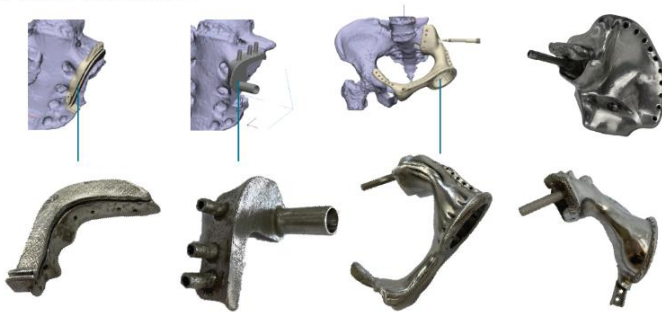
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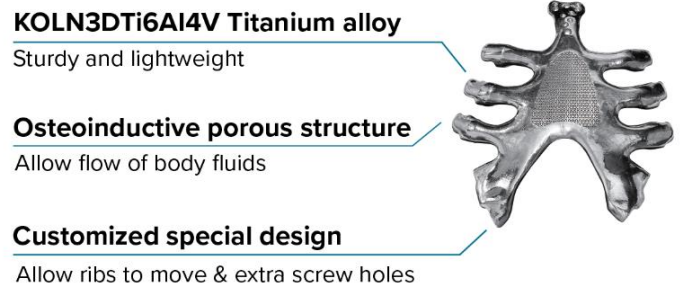
## PELVIC IMPLANT & PSI SET

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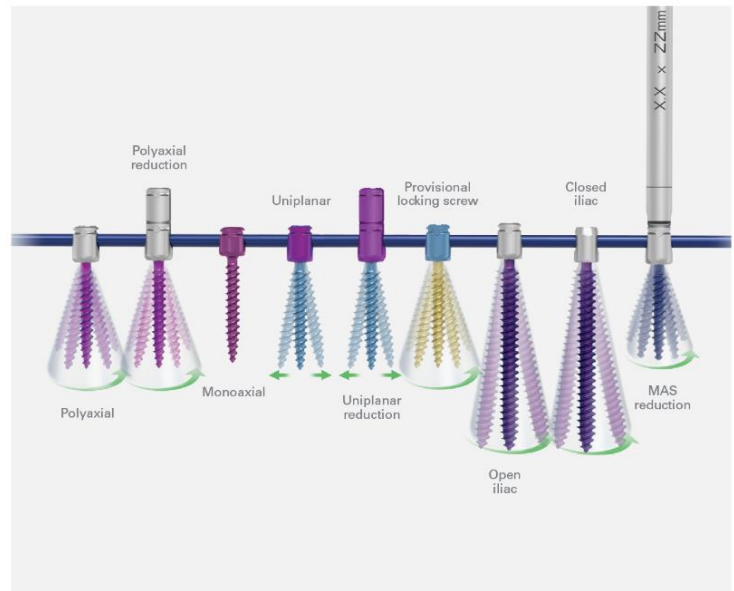


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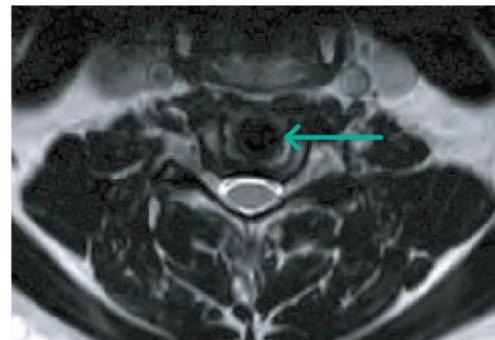
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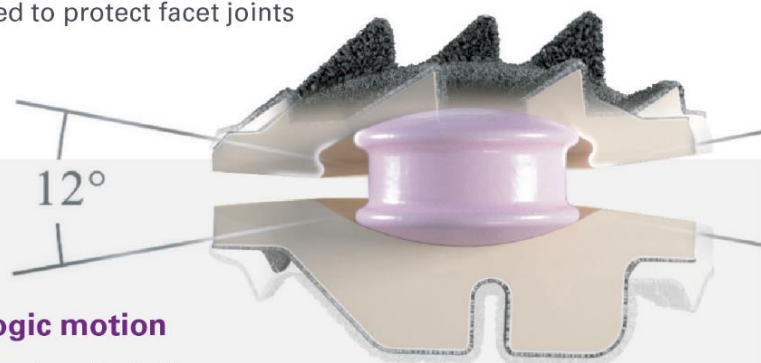
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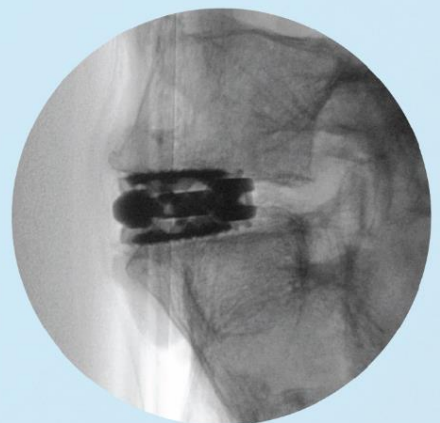
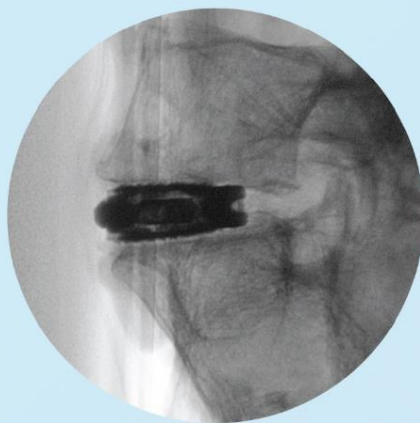
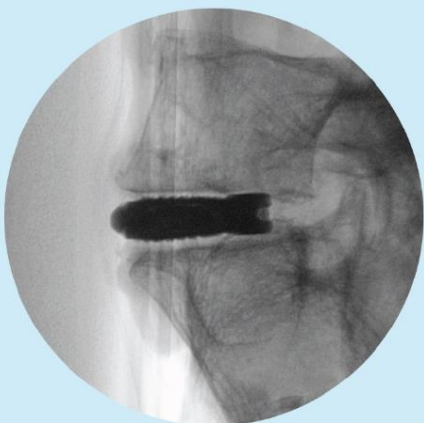
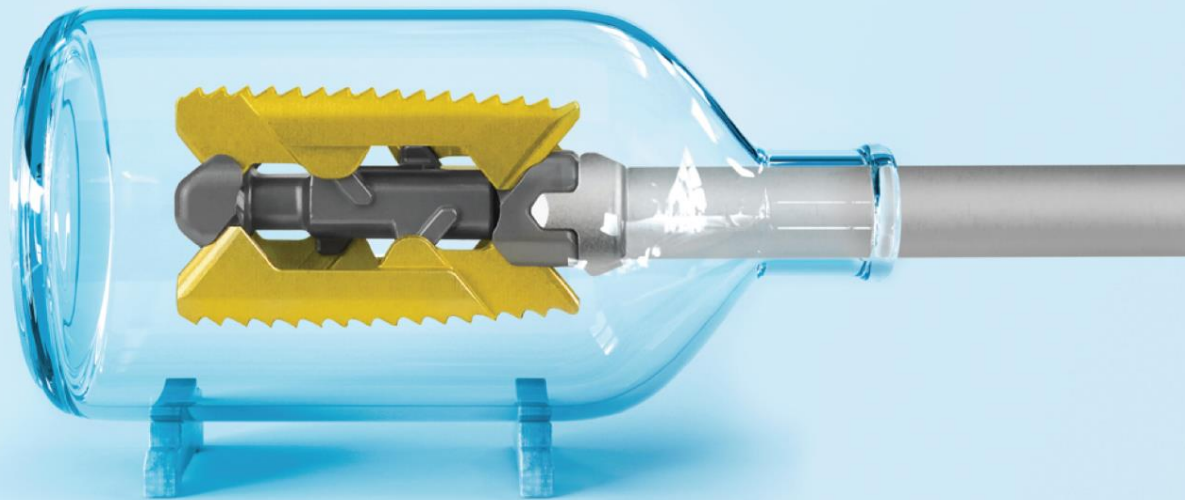
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Image-guided percutaneous ablation of bone metastases has been shown to provide palliative treatment for patients with metastatic bone cancer.<sup>2,3,7</sup>

#### References

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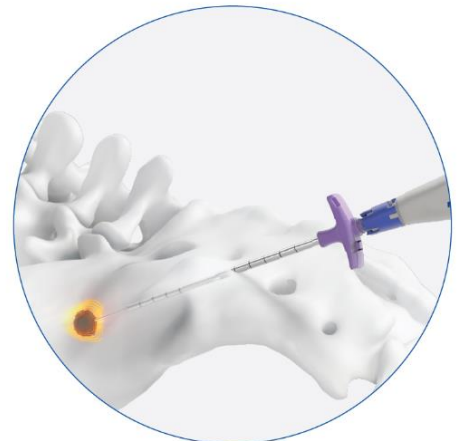
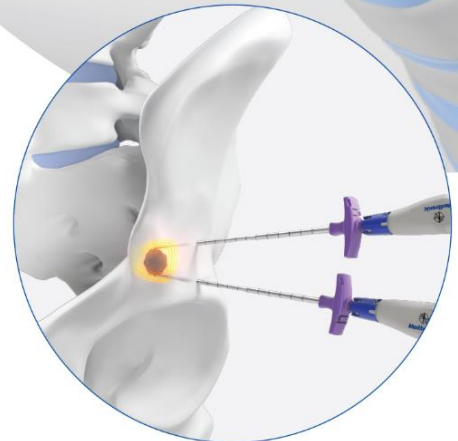
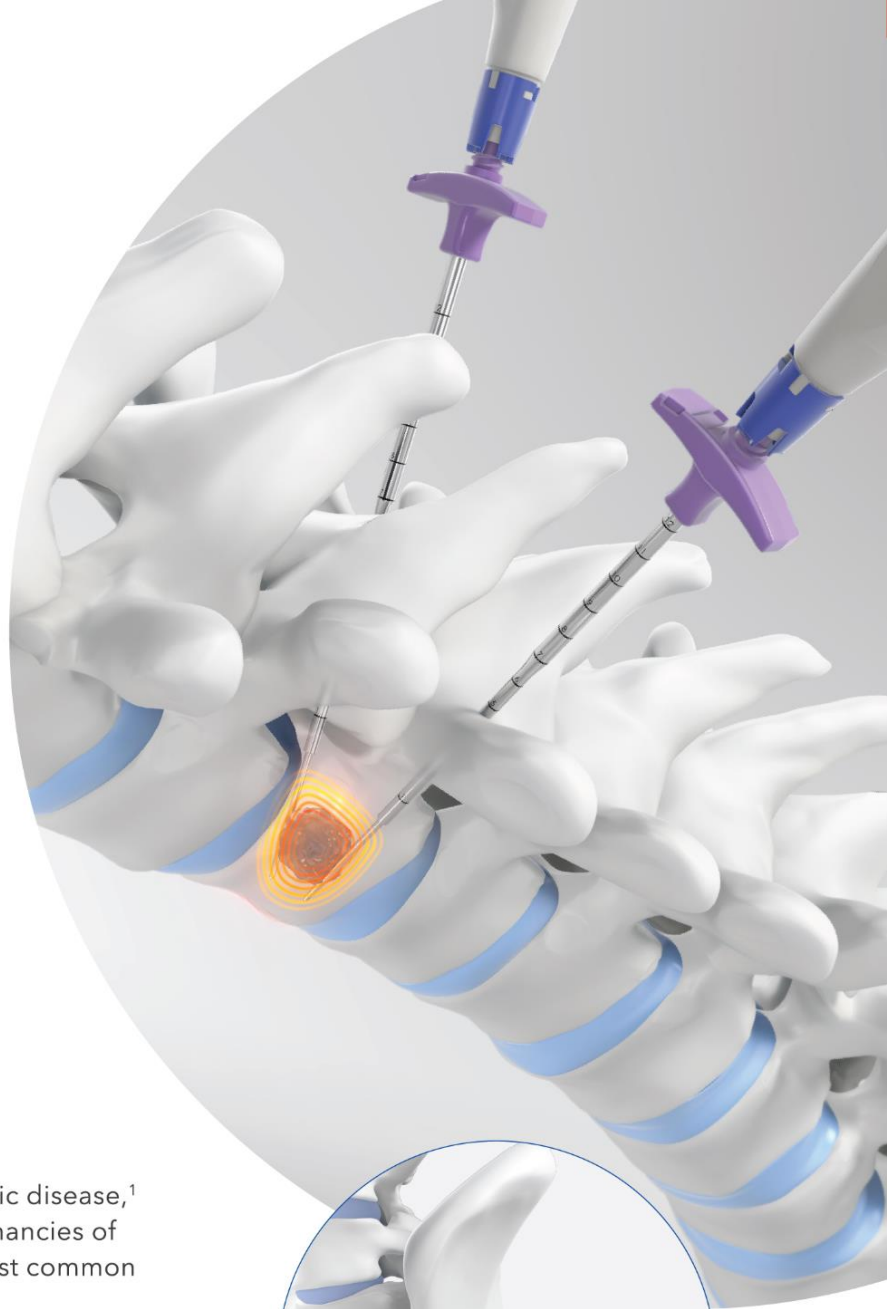
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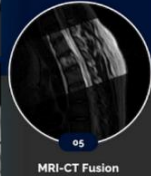
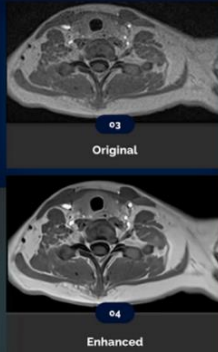
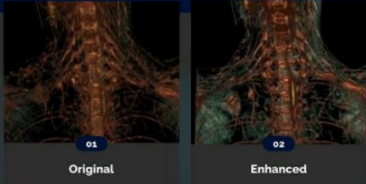
## MIXED REALITY PLATFORM



**Prototypes:** Advance visualization and immersive interaction

Revolutionize the Way We Work & Guide

**Prototypes:**  
Image processing capability



01 3D model visualization optimized for HoloLens 2

02 PDF viewer integration

03 DICOM viewer integration with 3D segmented model overlay

### Company Profile

Singular Technology focuses on developing AR-based surgical assistance software solutions. We have a strong technical team with extensive industry experience, including experts in AI medical image processing, 3D gaming visualisation and software engineering. With our gaming and engineering background, we can translate cutting-edge 3D visualisation, automated medical image modelling and gaming performance into medical AR software.

### Awards

International Exhibition of Inventions  
Geneva 2023

- Gold Award with the Congratulations of the Jury

HKTDC Start-up Express 2023

- Top 10 Start-ups

### Contact Information

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New Territories, Hong Kong



REVOLUTIONIZE THE WAY WE WORK & GUIDE

# ACCREDITATIONS

College / Association	Credit Points Awarded	
	Day 1 (8 Dec)	Day 2 (9 Dec)
The Hong Kong College of Orthopaedics Surgeons (HKCOS)	4 (Cat. A/ Training Points)	4 (Cat. A/ Training Points)
Hong Kong College of Radiologists (HKCR)	6.5 CME/CPD (Cat. A)	6.5 CME/CPD (Cat. A)
The Hong Kong College of Pathologists (HKCPATH)	6.5 Point (Cat. PP)	6.5 Point (Cat. PP)
The Hong Kong College of Family Physicians (HKCFP)	5 CME (Cat 5.2)	5 CME (Cat 5.2)
The College of Surgeons of Hong Kong (CSHK)	6 CME	6 CME
CNE/ PEM Accreditation Panel	6 CNE	6 CNE
Hong Kong Physiotherapy Association Ltd. (HKPA)	10 CPD (Whole Function)	
Occupational Therapists Board	Pending	Pending
Hong Kong Society of Certified Prosthetist-Orthotists (HKSCPO)	5 CPD (Cat A.1)	5 CPD (Cat A.1)
The Hong Kong College of Medicine	2 CME (Active) 1 CME (Passive)	



# ACKNOWLEDGEMENTS

## DIAMOND



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Co-organized by

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School of Clinical Medicine, The University of Hong Kong

and

Department of Orthopedics and Orthopedic Oncology,  
University of Padova, Italy

<https://www.ortho.hku.hk/mst2023>