



**HKU
Med**

LKS Faculty of Medicine
Department of Orthopaedics
& Traumatology
香港大學矯形及創傷外科學系



Combined 60th Anniversary Scientific Meeting and 17th Hong Kong International Orthopaedic Forum

Orthopaedic Surgery & Musculoskeletal Oncology: Technologies, Innovations & Beyond

Venue: Cheung Kung Hai Conference Centre
G/F, William MW Mong Block, 21 Sassoon Road,
Pokfulam, Hong Kong

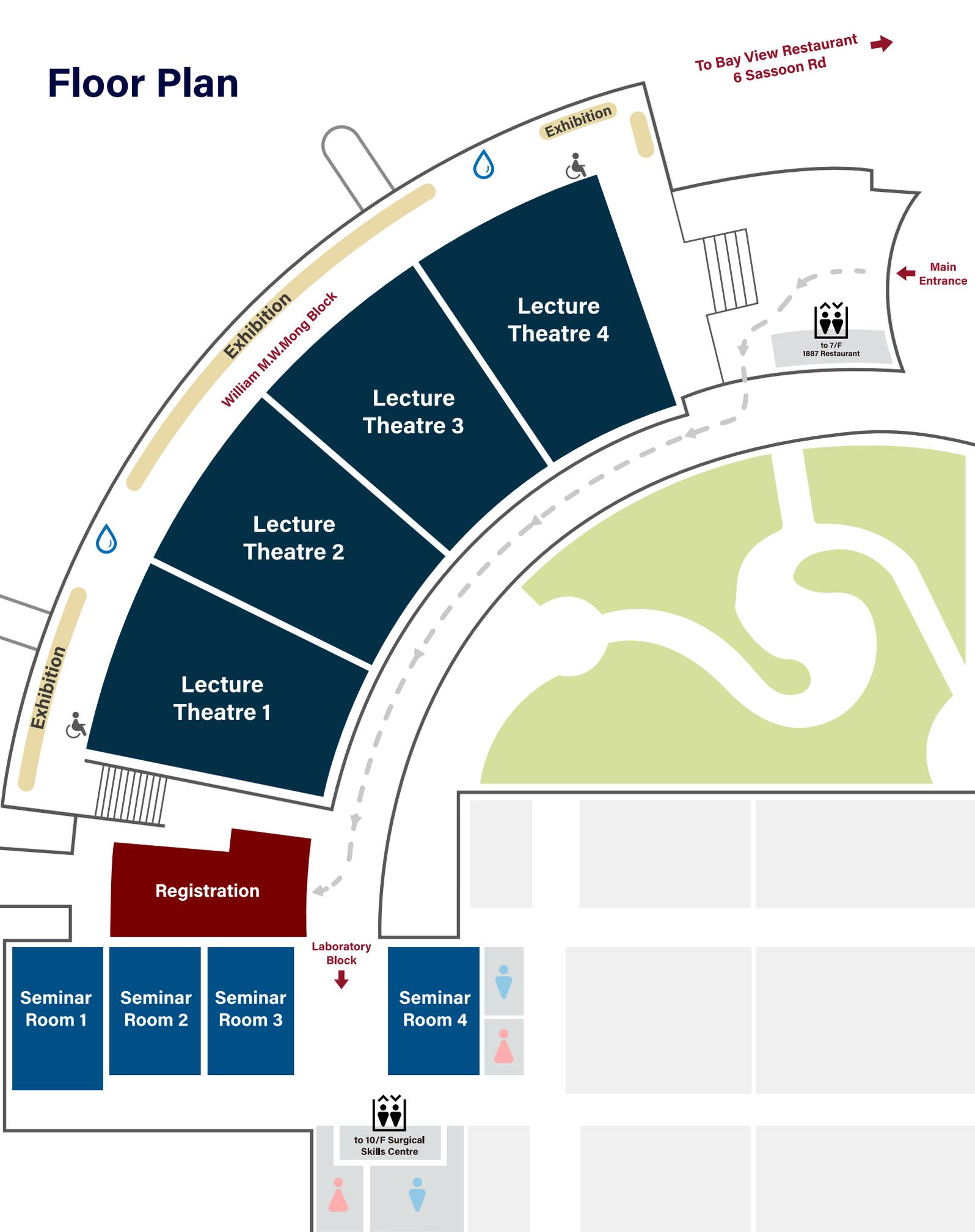
26-28 November 2021

Programme Book

<https://ortho60.hku.hk/forum2021>



Floor Plan



Drink Station



Washroom



Disabled Washroom



Elevator

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Welcome Message

This year is a special year in many respects. The 60th anniversary of the founding of our department is certainly a special one. We had many events planned over the year and this international orthopaedic forum is the grand finale for our year of celebrations. When our planning started, we did not anticipate COVID-19 pandemic would last this long and impact our lives in so many different ways. Nevertheless, our spirit is not dampened and our resolve to make this meeting a success is unwavering.

Dr. Lewis Chan and the organising committee has done an amazing job over the past year. The uncertainty of the impact of COVID pandemic plagued us and affected our programming, we had to change an in-person face to face meeting for all to a hybrid meeting, with online participation for our overseas participants. But as they say, every cloud has a silver lining, with this mode, we are pleased to have gained a global audience to our meeting, with over 1,000 participants registering from all parts of the world! Together with our local participants, this will prove to be our biggest meeting ever!

Dr. Chan and my colleagues in the department has prepared an amazing programme. A truly multidisciplinary effort and multi-team effort, with plenary sessions, case discussion sessions, workshops and exhibits, I am sure there will be take away points for all.

This meeting would not be possible without the hard work of our department members, my heartfelt appreciation to all of them for their passion and commitment to our "big family". A special thank you also goes to all our sponsors, without their generous support, this meeting would also not be possible.

Finally I wish all of you good health and a fruitful learning experience.



Professor Kenneth MC CHEUNG

Jessie Ho Professor in Spine Surgery
Chair Professor and Head
Department of Orthopaedics and Traumatology
The University of Hong Kong



Welcome Message

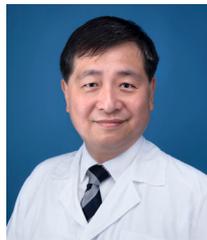
We are delighted to welcome you to the Combined 60th Anniversary Scientific Meeting and 17th Hong Kong International Orthopaedic Forum. The theme this year is 'Orthopaedic Surgery & Musculoskeletal Oncology: Technologies, Innovation & Beyond'.

Orthopaedic surgeons have always been at the forefront of introducing new surgical procedures and technologies to improve patient care. Over the past decades, many technological innovations have been introduced in orthopaedic surgery. Advancements in robotics, new manufacturing techniques like 3D printing, new machine learning (artificial Intelligence) image processing techniques, and pathways in enhanced recovery after surgery (ERAS) have created many exciting opportunities to not only achieve higher quality but also personalised orthopaedic care. In this meeting, our expert panel of local and international speakers will bring us the latest developments and innovations in various orthopaedic subspecialties, empowering our clinical practices to tackle the challenging orthopaedic problems and the many healthcare challenges arising from the ageing tsunami.

Last but not least, we would like to express our sincere gratitude to all the members of the organising committee for their hard work, and all invited speakers for their outstanding contributions. We would also like to thank our sponsors for their generous support. Finally, we particularly wish to thank all of you – honourable guests, friends, and colleagues – for your active participation and support that make this meeting a success.



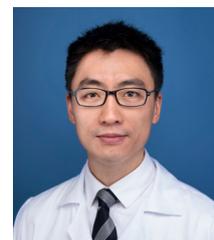
Dr Lewis Ping Keung CHAN
Chairman



Dr. Albert Ying Lee LAM
Chairman



Dr. Terence Cheuk Ting PUN
Co-chairman



Dr. Raymond Ching Hin YAU
Co-chairman

Organising Committee

Combined 60th Anniversary Scientific Meeting & The 17th Hong Kong International Orthopaedic Forum

Organising Committee

Chairman

Dr. Lewis Ping Keung CHAN

Dr. Albert Ying Lee LAM

Co-chairman

Dr. Terence Cheuk Ting PUN

Dr. Raymond Ching Hin YAU

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Dr. Tak Man WONG

Dr. Paul Aarne KOLJONEN

Dr. Noah Lok Wah SO

Dr. Chris Yuk Kwan TANG

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Dr. Vincent Wai Kwan CHAN

Dr. Graham Ka Hon SHEA

Dr. Peter Kam To SIU

Dr. Colin Shing Yat YUNG

Dr. Janus Siu Him WONG

Dr. Gabriel Ching Ngai LEUNG

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Ms. Winnie Nga Fong KOON

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Ms. Tiffany YUEN

Ms. Elaine LUU

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Programme at a Glance

26 November 2021 (Friday)

Lecture

Time	Lecture Theatre 1
08:00-08:30	Registration/ Check-in
08:30-11:00	Tumour Course
11:00-11:10	Coffee Break
11:10-11:50	Tumour Course
11:50-13:00	Lunch
13:00-14:45	Tumour Course
14:45-15:00	Coffee Break
15:00-17:30	Tumour Course

27 November 2021 (Saturday)

Lecture

Time	Lecture Theatre 1	Lecture Theatre 2	Lecture Theatre 3	Lecture Theatre 4
08:00-08:30	Registration/ Check-in			
08:30-10:00			Combined Session	
10:00-10:30	Coffee Break			
10:30-11:15			Opening Ceremony	
11:15-12:15			Joint Replacement Plenary Lecture	
12:15-13:30	Lunch			
13:30-14:30	Tumour Course			Spine Plenary Lecture
14:30-15:45	Tumour Course	Trauma	Rehabilitation	Spine
15:45-16:15	Coffee Break			
16:15-17:30	Tumour Course	Trauma	Rehabilitation	Spine

28 November 2021 (Sunday)

Lecture

Time	Lecture Theatre 1	Lecture Theatre 2	Lecture Theatre 3	Lecture Theatre 4
08:00-08:30	Registration/ Check-in			
08:30-09:10				Tumour Plenary Lecture
09:10-09:50	Tumour Course			Trauma Plenary Lecture
09:50-10:30	Tumour Course			Rehabilitation Plenary Lecture
10:30-11:00	Coffee Break			
11:00-13:00	Tumour Course	Trauma	Paediatric Orthopaedics	Joint Replacement
13:00-14:00	Lunch			
14:00-15:30		APOA Session	Rehabilitation Case Discussion Symposium	Joint Replacement
15:30-16:00	Coffee Break			
16:00-17:30		APOA Session	Rehabilitation Case Discussion Symposium	Joint Replacement

Workshops & Symposiums

20 November 2021 (Saturday)

Single Position Surgery (SPS) Treatment of Degenerative conditions for L1-S1 in the Lateral Position



Sponsored by NuVasive South East Asia PTE Ltd. (Local Support Company: Kinwood HealthCare Ltd.)

Time: 09:00-16:00

Venue: 10/F Surgical Skills Centre, Laboratory Block

Enquiry: Wilson Lam (wilsonlam@kinhealth.com.hk, 2155 1468);
Shirley Liu (sales@kinhealth.com.hk, 2155 1468)

26 November 2021 (Friday)

Simple Solution to Complex Cases

Sponsored by Addify Medical (implantcast)



Time: 11:50-13:00

Venue: Seminar Room 1

Enquiry: info@addify.com.hk

27 November 2021 (Saturday)

Mako: Introductory Hands-On Workshop

Sponsored by Stryker



Time: 14:30-17:30

Venue: Seminar Room 1

Enquiry: Steven Fan (9023 2201)

Comprehensive Shoulder Solutions

Sponsored by Stryker



Time: 14:30-17:30

Venue: Seminar Room 2

Enquiry: Jennifer Lai (9270 6286)

DPS Advanced Hip Solutions & Sawbone Hands-on Workshop

Sponsored by Depuy Synthes



Time: 14:30-17:30

Venue: Seminar Room 3

Enquiry: Sarah Tse (stse1@its.jnj.com)

Before and After Arthroplasty

Sponsored by Smith + Nephew Limited



Time: 14:30-17:30

Venue: Seminar Room 4

Enquiry: Jessie.Huang@smith-nephew.com

28 November 2021 (Sunday)

Spine lunch symposium

Sponsored by Depuy Synthes



Time: 13:00-14:00

Venue: Seminar Room 2-3

Enquiry: Regina Ng (rng12@its.jnj.com)

Advanced surgical techniques for precise tumor resection & reconstruction

Sponsored by Brainlab & Addify (implantcast)



Time: 14:00-17:30

Venue: Seminar Room 1

Enquiry: info@addify.com.hk

VR Surgery Experience Room

Sponsored by Depuy Synthes



Time: 14:00-17:30

Venue: Seminar Room 2-3

Enquiry: Joyce Au (hau3@its.jnj.com)

3D Printed Patient Specific High Tibial Osteotomy Workshop

Sponsored by Koln 3D Technology (Medical) Limited and Depuy Synthes



Time: 14:00-17:30

Venue: Seminar Room 4

Enquiry: enquiry@koln3d-tech.com

Robotics Workshop in Spinal Surgery

Sponsored by Medtronic Hong Kong Medical Limited



Time: 14:00-17:30

Venue: 10/F Surgical Skills Centre, Laboratory Block

Enquiry: Elise Law (elise.law@medtronic.com, 9855 9744)

Combined Session**27 November 2021 (Saturday)****Lecture Theatre 3-4**

Time	Topic	Speaker
	Advances in preop planning & intraop execution	
	<i>Moderators: Dr. Lewis Ping Keung CHAN, Dr. Raymond Ching Hin YAU</i>	
08:30-08:50	Virtual pre-operative planning & 3D printing in fracture surgery	Dr. Christian Xinshuo FANG
08:50-09:10	Advances in Orthopaedic Oncology Surgery	Dr. Albert Ying Lee LAM
09:10-09:30	Robotic-Arm Assisted Total Knee Arthroplasty - Why I Do It?	Prof. Peter Kwong Yuen CHIU
09:30-09:50	Non-fusion surgery for scoliosis	Prof. Kenneth Man Chee CHEUNG
09:50-10:00	Q&A	
10:00-10:30	Coffee Break	
10:30-11:15	Opening Ceremony	

Tumour Course

26 November 2021 (Friday)

Lecture Theatre 1

Time	Topic	Speaker
08:30-08:45	Opening Speech	Dr. Albert Ying Lee LAM
<i>Moderators: Dr. Kenneth Wai Yip HO, Dr. Raymond Ching Hin YAU</i>		
08:45-09:15	Principles of bone tumour pathology	Dr. Tony SHEK
09:15-09:45	Principles of bone tumour imaging	Prof. Andreas LEITHNER
09:45-10:15	Principles of soft tissue tumours pathology	Dr. Maximus YEUNG
10:15-10:45	Imaging of soft tissue tumours	Dr. Benjamin FANG
10:45-11:00	Q&A	
11:00-11:10	Coffee Break	
<i>Moderators: Dr. Anderson Siu Ming LEUNG, Dr. Maximus YEUNG</i>		
11:10-11:40	"No Touch lesion" & Biopsy principles and techniques	Dr. Kenneth Wai Yip HO
11:40-11:50	Q&A	
11:50-13:00	Lunch symposium (Seminar Room 1)	
<i>Moderators: Dr. Anderson Siu Ming LEUNG, Dr. Raymond Ching Hin YAU</i>		
13:00-13:30	Management of osteosarcoma	Prof. Xiao Hui NIU
13:30-14:00	Management of chondroid lesion and chondrosarcoma	Prof. Jin WANG
14:00-14:30	Management of giant cell tumour of bone	Prof. Jin WANG
14:30-14:45	Q&A	
14:45-15:00	Coffee Break	
<i>Moderators: Dr. Kenneth Wai Yip HO, Dr. Anderson Siu Ming LEUNG</i>		
15:00-15:20	Pelvic tumour: surgical management	Prof. Xiao Hui NIU
15:20-15:40	Spine tumour: surgical management	Dr. Kenny Yat Hong KWAN
15:40-16:00	Interventional radiology in orthopaedic tumour surgery	Dr. Vince LAU
16:00-16:15	Q&A	
<i>Moderators: Dr. Anderson Siu Ming LEUNG, Dr. Raymond Ching Hin YAU</i>		
16:15-17:30	Case presentation and discussion (1): ask the participants/ experts	Dr. Kenneth Wai Yip HO, Dr. Kenny Yat Hong KWAN, Dr. Vince LAU, Prof. Andreas LEITHNER, Prof. Xiao Hui NIU, Prof. Jin WANG

27 November 2021 (Saturday)

Lecture Theatre 1

Time	Topic	Speaker
<i>Moderators: Dr. Wang Kei CHIU, Dr. Kenneth Wai Yip HO</i>		
13:30-13:50	Surgical margins in surgery planning	Prof. Andreas LEITHNER
13:50-14:10	Computer navigation and 3D printing	Prof. Xiao Hui NIU
14:10-14:30	Prosthetic bone reconstruction: cases and long term outcome	Prof. Andreas LEITHNER
14:30-14:50	Biological bone reconstruction: techniques and long term outcome	Prof. Wei Ming CHEN
14:50-15:10	Chemotherapy, targeted and immunotherapy in bone tumour	Dr. Gerry Gin Wai KWOK
15:10-15:30	Radiotherapy in bone tumour	Dr. Dennis Kwok Chuen LEUNG
15:30-15:45	Q&A	
<i>Moderators: Dr. Wang Kei CHIU, Dr. Raymond Ching Hin YAU</i>		
16:15-17:15	Case presentation and discussion (2): ask the participants/ experts	Prof. Wei Ming CHEN, Prof. Andreas LEITHNER, Dr. Dennis Kwok Chuen LEUNG, Prof. Xiao Hui NIU, Dr. Gerry Gin Wai KWOK

28 November 2021 (Sunday)

Lecture Theatre 4

Time	Topic	Speaker
<i>Moderators: Dr. Kenneth Wai Yip HO, Dr. Raymond Ching Hin YAU</i>		
08:30-09:10	Plenary Lecture 5: Tumour New technologies in orthopaedics and trauma: from deep learning to resorbable implants	Prof. Andreas LEITHNER

Tumour Course

Lecture Theatre 1

<i>Moderators: Dr. Anderson Siu Ming LEUNG, Dr. Daniel MAK</i>		
09:10-09:30	Management of soft tissue tumours: the principles	Dr. Benjamin FONG
09:30-09:50	Techniques of plastic surgery in musculoskeletal tumour surgery	Dr. Raymond Ching Hin YAU
09:50-10:10	Radiotherapy in soft tissue sarcoma	Prof. Roger NGAN
10:10-10:30	Personalized medical treatment in soft tissue sarcoma	Dr. Gerry Gin Wai KWOK
10:30-11:00	Coffee Break	
<i>Moderators: Dr. Siu Ming Anderson LEUNG, Dr. Daniel MAK</i>		
11:00-11:45	Case presentation and discussion (3): ask the participants/ experts	Dr. Benjamin FONG, Dr. Gerry Gin Wai KWOK, Prof. Andreas LEITHNER, Prof. Roger NGAN, Dr. Raymond Ching Hin YAU
<i>Moderators: Dr. Kenneth Wai Yip HO, Dr. Daniel MAK</i>		
11:45-12:05	Management of bone metastasis: the principles	Dr. Albert Ying Lee LAM
12:05-12:15	Q&A	
<i>Moderators: Dr. Daniel MAK, Dr. Raymond Ching Hin YAU</i>		
12:15-12:50	Case presentation and discussion (4): ask the participants/ experts	Dr. Gerry Gin Wai KWOK, Dr. Albert Ying Lee LAM, Prof. Andreas LEITHNER, Prof. Roger NGAN
12:50-13:00	Closing remarks	Dr. Raymond Ching Hin YAU

Paediatrics**28 November 2021 (Sunday)****Lecture Theatre 3**

Time	Topic	Speaker
Paediatric Foot Problems		
<i>Moderators: Dr. Lin-wing LOK, Dr. Noah Lok Wah SO</i>		
11:00-11:20	Idiopathic Clubfoot & Vertical Talus: Advances in Treatment in Infants	Prof. Matthew DOBBS
11:20-11:35	Walking-Age Clubfoot	Dr. Rajiv Suresh NEGANDHI
11:35-11:45	Cerebral Palsy - Foot Management	Dr. Evelyn Eugenie KUONG
11:45-12:00	Q&A	
Paediatric Hip Problems		
<i>Moderators: Dr. Lin-wing LOK, Dr. Noah Lok Wah SO</i>		
12:00-12:20	The Management of Perthes Disease	Prof. In-Ho CHOI
12:20-12:35	Management of Developmental Dysplasia of the Hip before walking age - How I changed my practice	Dr. Sikandar HAYAT
12:35-12:45	Management of Unstable Slipped Capital Femoral Epiphysis	Dr. Wang CHOW
12:45-13:00	Q&A	

Rehabilitation

27 November 2021 (Saturday)

Lecture Theatre 3

Time	Topic	Speaker
<i>Moderators: Dr. Ka Ho NG, Dr. Sze Hung WONG</i>		
14:30-14:50	Enhanced recovery and perioperative rehabilitation for major spine surgery	Prof. Tom WAINWRIGHT
14:50-15:10	Enhanced recovery in Orthopaedic Surgery- collaboration between Anaesthetist and Surgeon	Prof. Michael G. IRWIN
15:10-15:30	Exercise and rehabilitation protocol for patients with hip osteoarthritis	Prof. Tom WAINWRIGHT
15:30-15:45	Q&A	
15:45-16:15	Coffee Break	
16:15-16:35	Comprehensive rehabilitation in geriatric fractures the local experience	Dr. Albert HSU
16:35-16:55	Considerations and adaptations of enhanced recovery principles in geriatric fractures	Prof. Tom WAINWRIGHT
16:55-17:05	Delirium prevention in Geriatric patients	Dr. Chor Yin LAM
17:05-17:20	Q&A	

28 November 2021 (Sunday)

Lecture Theatre 4

Time	Topic	Speaker
<i>Moderators: Dr. Chor Yin LAM</i>		
09:50-10:30	Plenary Lecture 4: Enhanced patient recovery after joint replacement surgery	Prof. Tom WAINWRIGHT

28 November 2021 (Sunday)

Lecture Theatre 3

Time	Topic	Speaker
<i>Moderators: Dr. Chor Yin LAM, Dr. Wing Yuk MOK</i>		
14:00-15:30	Rehab Case Discussion Symposium: Advanced Technology in Spinal Cord Injury Rehab	Dr. Paul Aarne KOLJONEN, Mr. Simon CHAN, Mr. Admond WONG, Ms. Josephine ANG, Mr. Vincent NG
15:30-16:00	Coffee Break	
16:00-17:30	Rehab Case Discussion Symposium: 1. Rehabilitation for an amputee with osseointegration prosthesis 2. Caring for people suffering from back and knee pain	Dr. Ka Ho NG, Mr. Wing Cheung Terrence KWONG, Ms. Amy NG, Mr. Louis TSOI, Ms. Grace CHAN, Ms. Terri Yan Lai NG, Mr. Brian SUNG

Trauma

27 November 2021 (Saturday)

Lecture Theatre 2

Time	Topic	Speaker
<i>Moderators: Dr. Christian Xinshuo FANG Dr. Janus Siu Him WONG</i>		
14:30-14:55	Haemorrhage control in complex pelvic ring injuries	Prof. Zsolt BALOGH
14:55-15:20	Virtual pre-operative planning & 3D printing in complex periarticular fracture surgery	Dr. Christian Xinshuo FANG
15:20-15:35	Camera not only for photography - the "true" ruler in wound measurement	Mr. Kai Lap CHAN
15:35-15:45	Q&A	
15:45-16:15	Coffee Break	
16:15-16:35	Advances in traumatic shock resuscitation	Prof. Zsolt BALOGH
16:35-16:55	Navigation in trauma surgery	Dr. Kin Bong LEE
16:55-17:15	Advances in osteoporotic fracture management	Prof. Frankie Ka Li LEUNG
17:15-17:30	Q&A	

28 November 2021 (Sunday)

Lecture Theatre 4

Time	Topic	Speaker
<i>Moderators: Dr. Terence Cheuk Ting PUN, Dr. Colin Shing Yat YUNG</i>		
09:10-09:50	Plenary Lecture 3: Harry Fang Visiting Professor Lecture: Novel approach to biochemical characterization of inflammatory status of polytrauma patients	Prof. Zsolt BALOGH
10:30-11:00	Coffee Break	

Lecture Theatre 2

11:00-11:20	Update on Masquelet technique for management of posttraumatic bone defect	Dr. Tak Man WONG
11:20-11:40	Update on management of infection after fracture osteosynthesis	Dr. Tak Wing LAU
11:40-12:00	Reverse shoulder arthroplasty for proximal humerus fracture	Dr. Yuk Chuen SIU
12:00-12:20	Navigated-assisted minimally invasive pelvic surgery	Dr. Chun Man MA
12:20-12:40	Osseointegration for amputees - Hong Kong experience	Dr. King Hang YEE
12:40-12:50	Q&A	
13:00-14:00	Lunch	

Joint

27 November 2021 (Saturday)

Lecture Theatre 3-4

Time	Topic	Speaker
11:15-12:15	Plenary Lecture 1: (Joint Replacement) Complex THA	Prof. Youn-Soo PARK

28 November 2021 (Sunday)

Lecture Theatre 4

Time	Topic	Speaker
Advances in Hip Replacement		
<i>Moderators: Dr. Steve Man Hong CHEUNG, Dr. Tsz Lung CHOI</i>		
11:00-11:15	Dual mobility THA - should be used in all high risk patient?	Dr. Lewis Ping Keung CHAN
11:15-11:30	Resurfacing for AVN of femoral head	Prof. Youn-Soo PARK
11:30-11:45	Bearing choices in total hip arthroplasty	Dr. Amy Yim Ling CHEUNG
11:45-12:00	Spinopelvic relationship after THA	Dr. Lewis Ping Keung CHAN
12:00-12:15	Q&A	
12:15-13:00	Case Discussion	<i>Panelists: Prof. Youn-Soo PARK, Dr. Lewis Ping Keung CHAN, Dr. Henry Chun Him FU, Dr. Amy Yim Ling CHEUNG</i>
<i>Case Presentation by: Dr. Tsz Lung CHOI, Dr. Bruce Yan Ho TANG, Dr. Kenneth Kin Yan CHAN, Dr. Michelle LUK</i>		
13:00-14:00	Lunch	

Time	Topic	Speaker
	Advances in Knee Replacement	
		<i>Moderators: Dr. Amy Yim Ling CHEUNG, Dr. Vincent Wai Kwan CHAN</i>
14:00-14:10	Alignment in TKA : What is the gold standard?	Dr. Chun Hoi YAN
14:10-14:25	Cementless total knee arthroplasty	Prof. Peter Kwong Yuen CHIU
14:25-14:40	Medial pivot knee: Is it better ?	Dr. Qunn Jid LEE
14:40-14:55	Cruciate retaining and bicruciate retaining total knee arthroplasty : Worthwhile to switch our routine practice?	Dr. Henry Chun Him FU
14:55-15:00	Q&A	
15:00-15:30	Case Discussion	
		<i>Panelists: Prof Peter Kwong Yuen CHIU, Dr. Chun Hoi YAN, Dr. Henry Chun Him FU, Dr. Bruce Yan Ho TANG</i>
		<i>Case Presentation by: Dr. Dennis King Hang YEE, Dr. Jimmy Kit Yan LAU, Dr. Michelle LUK</i>
15:30-16:00	Coffee Break	

Time	Topic	Speaker
	Advances in Perioperative Care and Joint Perservation	
		<i>Moderators: Dr. Henry Chun Him FU, Dr. Michelle LUK</i>
16:00-16:15	Complexity of UKA : Extended indication, mode of failure and conversion	Dr. Steve Man Hong CHEUNG
16:15-16:30	What's next in prevention and treatment in Periprosthetic joint infection?	Dr. Vincent Wai Kwan CHAN
16:30-16:45	Out-patient joint arthroplasty in Hong Kong: My experience and challenges	Dr. Chi Kit CHIU
16:45-16:50	Q&A	
16:50-17:30	Case Discussion	
		<i>Panelists: Dr. Qunn Jid LEE, Dr. Chi Kit CHIU, Dr. Steve Man Hong CHEUNG, Dr. Vincent Wai Kwan CHAN</i>
		<i>Case Presentation by: Dr. Chi Kit CHIU, Dr. Bruce Yan Ho TANG, Dr. Jun Horng TAN</i>

Spine

27 November 2021 (Saturday)

Lecture Theatre 4

Time	Topic	Speaker
13:30-14:15	Plenary Lecture 2: Harvesting the power of data and AI to make adult deformity surgery safer and more sustainable	Prof. Christopher AMES
Cervical Session		
<i>Moderators: Dr. Raymond WONG, Dr. Jason Pui Yin CHEUNG</i>		
14:15-14:30	Cervical surgery - how to avoid complications	Prof. Yat Wa WONG
14:30-14:40	Cervical trauma - what every surgeon needs to know	Dr. Paul Aarne KOLJONEN
14:40-14:55	Classification of Cervical Deformity: history and future directions	Prof. Christopher AMES
14:55-15:05	Spinal cord regeneration - will it ever be possible?	Dr. Graham Ka Hon SHEA
15:05-15:30	Case discussion/ debate	Case presentation by Dr. Chris Yuk Kwan TANG
15:30-15:45	NIL	
15:45-16:15 Coffee Break		
Thoracolumbar Session		
<i>Moderators: Dr. Kam Kwong WONG, Dr. Paul Aarne KOLJONEN</i>		
16:15-16:27	Importance of sagittal alignment in adult deformity correction	Dr. Kenny Yat Hong KWAN
16:27-16:39	The antepsoas approach to the lumbosacral spine	Dr. Jason Pui Yin CHEUNG
16:39-16:54	Lessons learned in 400 PSO	Prof. Christopher AMES
16:54-17:06	Surgical treatment of osteoporotic fractures revisited	Dr. Wai Yuen CHEUNG
17:06-17:30	Case discussion/ debate	Case presentation by Dr. Janus Siu Him WONG

APOA Session**28 November 2021 (Sunday)****Lecture Theatre 2**

Time	Topic	Speaker
	Hand and Wrist	
		<i>Panel: Dr. Esther Ching San CHOW, Dr. Margaret Woon Man FOK, Dr. Wing Lim TSE, Dr. Jennifer GREEN, Dr. Jacqueline Siau Woon TAN</i>
		<i>Moderators: Dr. Edmund Leung Kai YAU, Dr. Margaret Woon Man FOK</i>
14:00-14:20	The Current Management of Dupuytren's Disease	Dr. Jennifer GREEN
14:20-14:40	Adolescent Wrist Injury	Dr. Esther Ching San CHOW
14:40-15:00	Current management on 1st Carpal Metacarpal Joint Osteoarthritis	Dr. Jacqueline Siau Woon TAN
15:00-15:20	Delayed Tendon Complications following Complex Carpal Injury	Dr. Wing Lim TSE
15:20-15:30	Final Summary, Thoughts and Key Messages	
15:30-16:00	Coffee Break	
	Elbow and Shoulder	
		<i>Panel: Prof. Edward (Ted) MAH, Prof. In-Ho JEON, Dr. Hang Cheong CHENG, Dr. Nobuyuki YAMAMOTO</i>
		<i>Moderators: Dr. Peter Wai Pan YAU, Dr. Tak Man WONG</i>
16:00-16:20	Elbow Osteoarthritis	Prof. In-Ho JEON
16:20-16:40	Traumatic Elbow Instability	Dr. Hang Cheong CHENG
16:40-17:00	3D printing in Massive Glenoid Bone Loss in Reverse Shoulder Arthroplasty	Prof. Edward (Ted) MAH
17:00-17:20	My Superior Capsule Reconstruction Technique	Dr. Nobuyuki YAMAMOTO
17:20-17:30	Summary, Discussion and Key Messages	

Adaptix™ Interbody System

with Titan nanoLOCK™ Surface Technology

FEATURES
AND BENEFITS
INFORMATION
SHEET

PRODUCT OVERVIEW

Modeled from the Capstone™ Spinal System with improved features for increased strength⁵, subsidence resistance,^{3,5,6} easy insertion, and bony on-growth.^{1,2}

Shape

Convex shape for anatomical fit with patient anatomy

Sizes

Width = 10mm

Length	Height
24mm	6-16mm
28mm	6-16mm
34mm	7-16mm

Heights are in 1mm increments

Lordosis

Up to 12° can be achieved with posterior compression and final locking of screw-rod instrumentation.⁷

Instrumentation & Equipment

Adaptix Interbody System is compatible with:

- Capstone Spinal Instruments.
- StealthStation™ Navigation System and O-Arm™ Imaging Acquisition System.

PRODUCT FEATURES

Navigation-compatible

- Able to facilitate sagittal correction by ability to increase height and lordosis with the cage and posterior fixation

Open volume design for graft material placement to allow for a continuous column of graft directly in contact with the endplate

Smooth dolphin nose tip aids in disc space distraction during insertion

Honeycomb structure

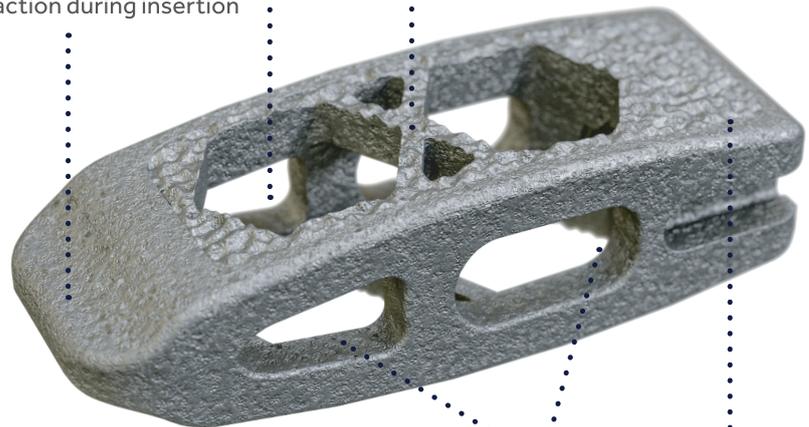
- Allows for more bony surface contact area compared to an open cage design³
- Designed to minimize the stress load onto the end plates compared to an open cage design^{3,5,6}
- Designed to decrease subsidence compared to an open cage design^{3,5,6}
- Acts as an osteoconductive scaffold for bony growth into the implant^{1,2}

Lateral windows to allow for visualization

Titan nanoLOCK™ Surface Technology⁴

- Proprietary blend of surfaces at macro, micro, AND nano levels
- Inspired by nature: Designed to mimic osteoclastic pits
- Driven by science: Numerous peer-reviewed *in vitro* studies

See next page for important safety information.



1. Wennerberg, A., & Albrektsson, T. (2009). Effects of titanium surface topography on bone integration: a systematic review. *Clin Oral Implants Res*, 20 Suppl 4, 172-184.
2. Gittens, R.A., Olivares-Navarrete, R., Schwartz, Z., Boyan, B.D. (2014). Implant osseointegration and the role of microroughness and nanostructures: lessons for spine implants. *Acta Biomater.*, 10(8), 3363-71.
3. Based on surface area measurement.
4. Based on manufacturing process.
5. Comparison of Adaptix and Capstone testing per ASTM F2077 and ASTM F2267.
6. Based on engineering principles.
7. Based on biomechanical study.



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Surgical Jigs

Koln 3D's patient-matched surgical jigs conform to patient anatomical morphology acquired from DICOM Data, enabling the realization of preoperative surgical plans by guiding critical procedures.

Metal constructed jigs are sturdy and compact, delivering safer and faster surgeries, where the surgical outcomes have vastly improved in accuracy.

Our metal powder :

- Cobalt Chromium alloy (KOLN3DCobaltChrome)
- Stainless Steel (KOLN3DSS316LM)
- Titanium alloy (KOLN3DTi-6Al-4V Grade 23)

All material passed ISO10993 biocompatibility tests

Medical Grade Metal

- Heat-resistant
- Pressure-resistant
- Visible under X-ray
- Protects tissues and nerves

3D-Printing

- Replicate complex anatomical shapes
- Pinpoints cutting site
- Slot with thickness of 1.2 mm allows clean horizontal cuts



Improving Surgical Outcomes

- Reducing surgery time by **70%**
- Lowered risks
- Minimized wound size
- Speeds up recovery process



Efficiency

- One-stop manufacturing from CT scan, design to production
- Delivery time (surgical jigs): within 7 days after confirmation



Quality

- ASTM medical grade materials
- Biocompatible, ISO10993- 4,5,6: 2018 compliant
- ISO13485: 2016 certified



Sustainability

- Local production eliminates need for import
- Additive manufacturing reduces carbon footprint



Implants

- 3D-printed patient-specific implant with optimized lattice structure that promotes osteointegration.



Customized Surgical Tools

Omni Clamp

- Guiding channels to facilitate k-wire application for patellar fracture

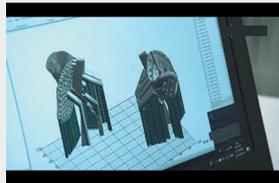
Other customized tools

Case Study

Facilitated over **40** surgeries since 2018

Sep 2019

Design



Operation

Diagnosis : Knee medial compartmental osteoarthritis
 Treatment : High tibial osteotomy
 Location : Queen Elizabeth Hospital, Hong Kong

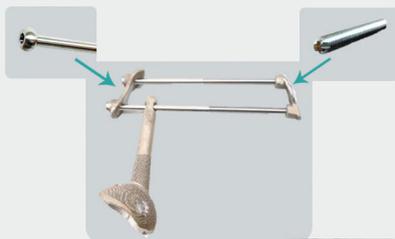
Nov 2020



Combined application of
 - surgical jigs x2
 - customized implant

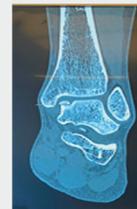
Diagnosis : Bone sarcoma
 Treatment : Replacement of humerus and scapula
 Location : Queen Mary Hospital, Hong Kong

Feb 2021



Diagnosis : Bone sarcoma
 Treatment : Removal of acetabulum and partial replacement of right pelvis
 Location : Queen Mary Hospital, Hong Kong

Oct 2021



Diagnosis : Talar dome medial osteochondral defect
 Treatment : Medial malleolar osteotomy
 Location : Union Hospital, Hong Kong

Koln 3D Technology (Medical) Limited



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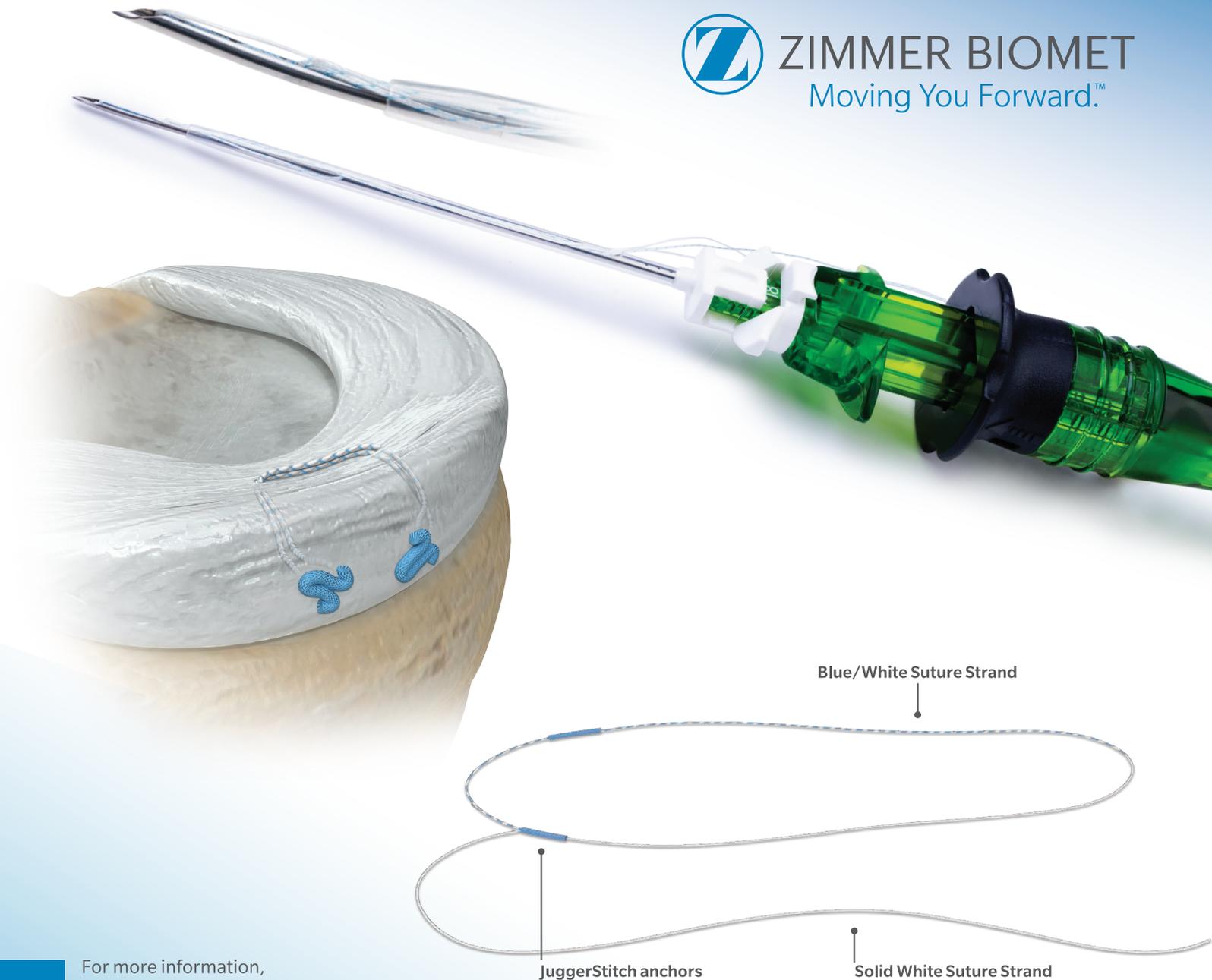


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Mako SmartRobotics™ program



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denosumab

*Resectable giant cell tumour of bone is defined as surgically salvageable disease where surgical resection is likely to result in severe morbidity.

References: 1. Chawla, et al. Lancet Oncol 2013;14:901-8. 2. Xgeva Hong Kong Prescribing Information. Dec 2018.

XGEVA® (denosumab) Abbreviated Prescribing Information Version: HKXGEPI04

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INDICATIONS Indicated for prevention of skeletal related events (pathological fracture, radiation to bone, spinal cord compression or surgery to bone) in adults with advanced malignancies involving bone, and treatment of adults and skeletally mature adolescents and 400 IU vitamin D daily is required in all patients, unless hypercalcaemia is present. **Prevention of skeletal related events in adults with advanced malignancies involving bone:** The recommended dose is 120 mg administered as a single subcutaneous injection or into the thigh, abdomen or upper arm with additional 120 mg doses on days 8 and 15 of treatment of the first month of therapy. **Renal impairment:** No dose adjustment is required in patients with renal impairment; **Hepatic impairment:** The safety and efficacy of denosumab in paediatric patients (age < 18) other than skeletally mature adolescents (aged 12-17 years) with giant cell tumour of bone. **CONTRAINDICATIONS** Contraindicated in patients with hypersensitivity to the active substance or to any of the excipients, and in patients with severe renal impairment. **Supplementation:** Supplementation with calcium and vitamin D is required in all patients unless hypercalcaemia is present. **Hypocalcaemia:** Pre-existing hypocalcaemia must be corrected prior to initiating therapy with XGEVA. Hypocalcaemia can occur at any time during treatment. **Osteonecrosis of the jaw (ONJ):** ONJ has been reported commonly in patients receiving XGEVA. The start of treatment/ new treatment course should be delayed in patients with unhealed open soft tissue lesions in the mouth. A dental examination with preventive measures, may occur following discontinuation of treatment with Xgeva, particularly in patients with risk factors such as osteoporosis or prior fractures. Advise patients not to interrupt Xgeva therapy without their physician's advice. **Osteonecrosis of the external table of the orbit or trauma.** **Atypical fractures of the femur:** Atypical femoral fractures have been reported in patients receiving XGEVA. Atypical femoral fractures may occur with little or no trauma in the subtrochanteric and diaphyseal regions of the femur. **Hypercalcaemia following intravenous bisphosphonate treatment:** Patients receiving XGEVA should not be treated with intravenous bisphosphonates for hypercalcaemia. **XGEVA is not recommended for the treatment of hypercalcaemia.** **Others:** Patients being treated with XGEVA should not be treated concomitantly with other denosumab containing medicinal products, or with bisphosphonates. **INTERACTIONS** No interaction studies have been performed. **PREGNANCY, LACTATION AND FERTILITY:** XGEVA should not be used during pregnancy. **Breast-feeding:** It is unknown whether denosumab is excreted in human milk. A risk to the newborns/infants cannot be excluded. **Fertility:** No data are available on the effect of denosumab on human fertility. **UNDESIRABLE EFFECTS** Hypocalcaemia, dyspnoea, diarrhoea, osteonecrosis of the jaw have been commonly observed in patients taking XGEVA. The adverse reactions identified in clinical trials and from post-marketing experience: Very common (≥ 1/10) adverse reactions include: hypocalcaemia, dyspnoea, diarrhoea, osteonecrosis of the jaw. **OVERDOSE** There is no experience with overdose in clinical studies.

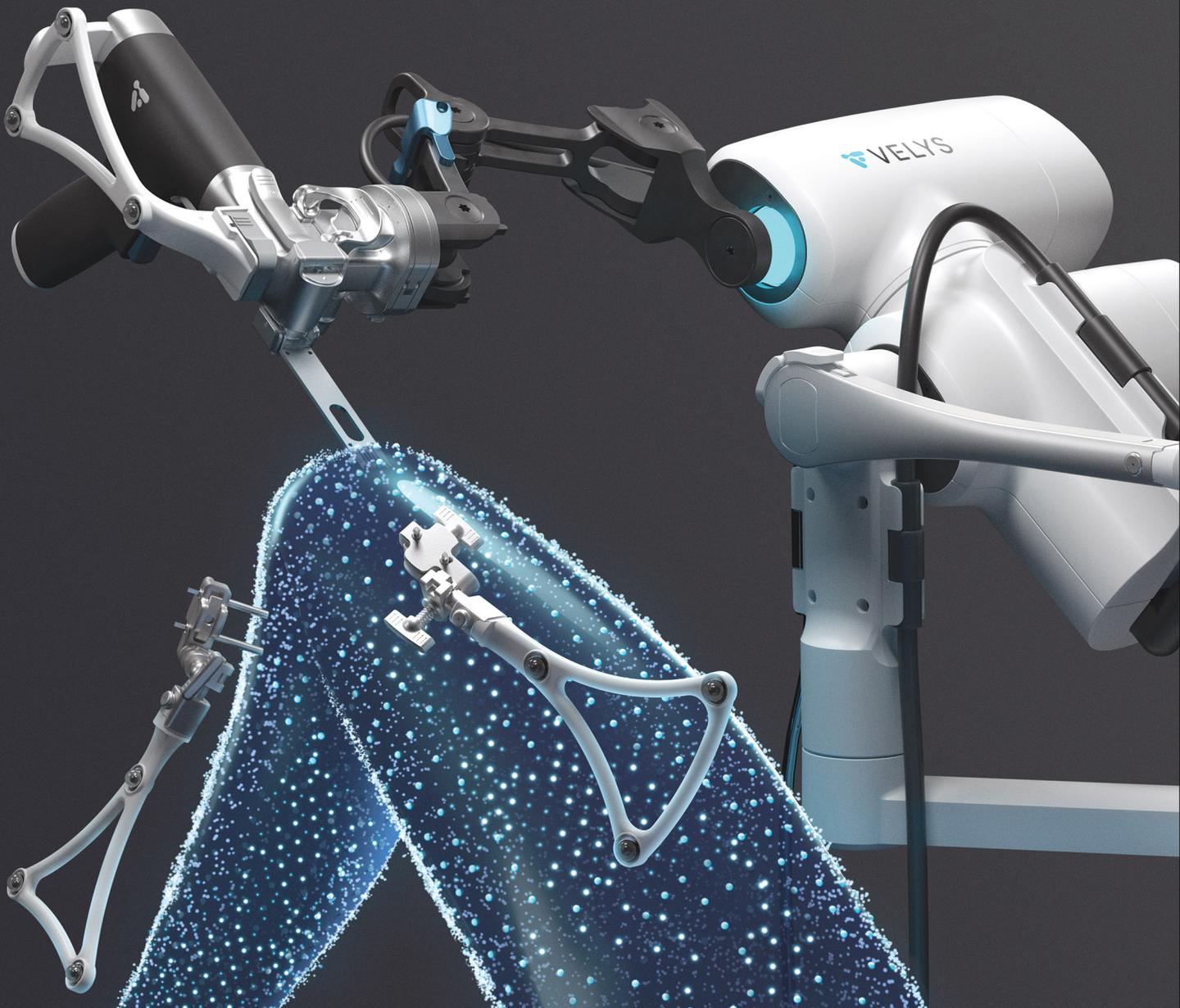
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Reference

1. Preclinical data on file. Data may not be representative of clinical results. TR 9604787

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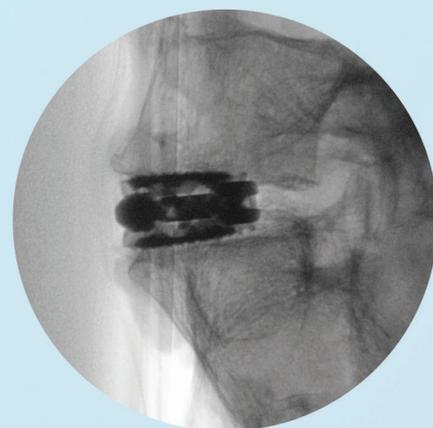
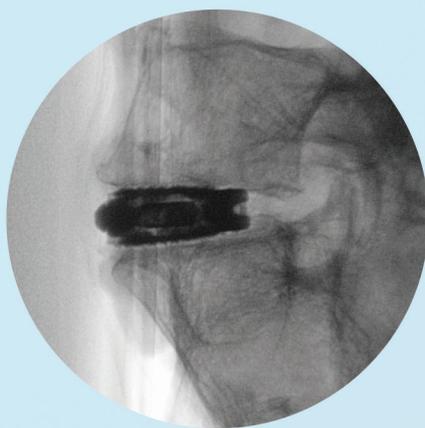
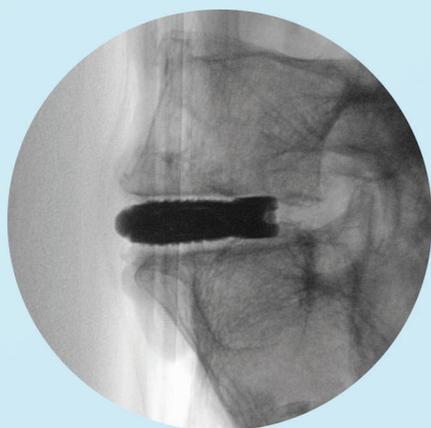
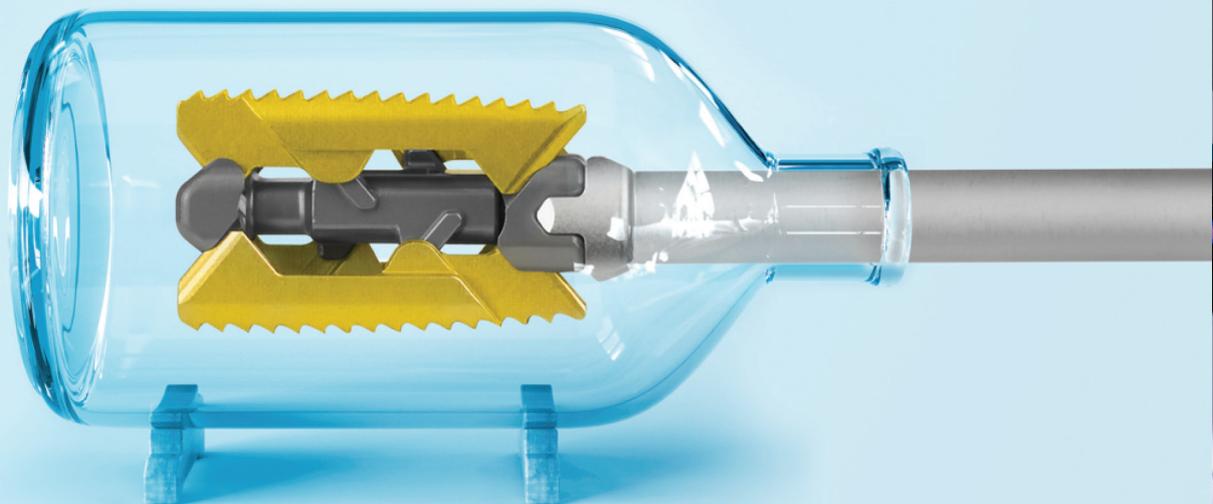
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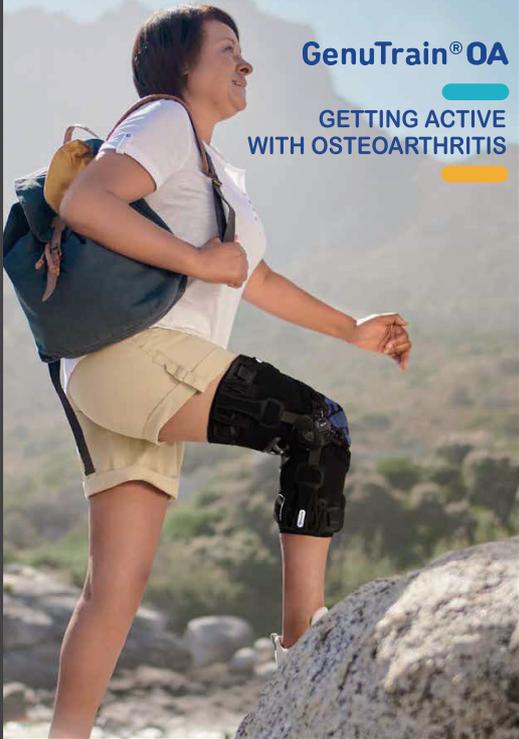
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References: 1. Sekiya, et al. Ketoprofen absorption by muscle and tendon after topical or oral administration in patients undergoing anterior cruciate ligament reconstruction. AAPS PharmSciTech 2010, 11:154-158. 2. Hong Kong IMS data 2009-2021. 3. <https://www.drugoffice.gov.hk/eps/drug/productSearchOneFieldAction>. Accessed March 17, 2021. 4. MOHRUS® Patch (Ketoprofen) Prescribing information. Hisamitsu Pharmaceutical (Hong Kong) Co. Limited: version October 2018. 5. Sako, Takashi. Effects of KPT-220 on Osteoarthritis, Periarthritis Scapulohumerals, and Lumbago. Data on file. 6. Aoki, Torakichi, et al. Clinical Study of KPT-220 on Periarthritis Humerocapularis, Tendinitis, Peritendinitis, and Epicondylitis Humeri. Data on file.

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The Hong Kong College of Family Physicians	5 CME (Cat 5.2) (Max. 10 for the whole function)
The Hong Kong College of Orthopaedic Surgeons	26 Nov (Fri) - 5 Cat A 27 Nov (Sat) - 5 Cat A 28 Nov (Sun) - 5 Cat A (Max. 13 Cat A Points for the whole function) (Max. 8 Cat A Points for 27&28 Nov of the function) 5 Training Points per day (Max. 8 Training Points for the whole function)
Hong Kong College of Physicians	1 CME (Passive)/ 2 CME (Active) per day
Hong Kong Physiotherapy Association Ltd.	Pending
Hong Kong Society of Certified Prosthetist-Orthotists	5 CPD (Cat A.1) (Max. 10 for the whole function)
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