



# 臺中榮總

# 2022年國際膝關節疾病 與治療高峰會議

地點：臺中榮民總醫院研究大樓第一至第三會場

時間：2022年12月10日(星期六) 08:00-17:00

主辦單位：臺中榮民總醫院骨科部

協辦單位：中華民國關節重建醫學會/臺灣復健醫學會/  
臺灣增生療法醫學會/財團法人榮興醫學發展基金會

The Knee

# 2022

International Symposium

# 臺中榮總 2022 年國際膝關節疾病與治療高峰會議

2022 The Knee International Symposium

新冠肺炎 (COVID-19) 持續在世界流行，但隨著疫苗施打的普及，目前人們的生活已逐步回復到正常的生活，在這段期間，醫療相關人員在全力對抗疫情之餘，各別醫療領域的研究及發展也仍持續進行中。有鑑於膝關節疾患治療觀念及手術方式的進步，結合人工智慧及大數據分析技術的大量應用及成果展現，使得精準醫學、尖端醫療及預防醫療在膝關節疾病的預防、診斷、治療及復健上，皆扮演重要的角色，這些知識持續衝擊與改變我們的臨床判斷與治療行為，而臨床醫療人員對於最新膝關節疾病診治趨勢知識，也必須不斷充實更新。

作為中區唯一的公立醫學中心，臺中榮民總醫院骨科部、感染科、復健科擁有先進的醫療水準、研究人員和臨床資源。2022 年國際膝關節疾病高峰會議將邀請國內外頂尖的內外科專家，並與跨領域的復健與再生醫學權威合作，合作單位包括美國梅約醫學中心 (Mayo Clinic)、中華民國關節重建醫學會、台灣復健醫學會、台灣增生療法醫學會等學術單位，在此次研討會上探討包括複雜性膝關節置換、機械手臂輔助人工膝關節手術、軟骨再生與高位脛骨截骨手術、良性與惡性腫瘤的最近處理準則、骨感染症、復健醫學及再生醫學的最新進展及治療趨勢。透過視訊與實體課程，針對上述各相關議題深入淺出的演說及討論，除了可讓國內外學者互相交流，獲取國外專家學者的最新觀念及展現國內相關領域之治療進展外，膝關節復健醫學及膝關節再生醫學的結合亦可讓國內外專家學者對膝關節疾病之診斷與治療能有不同角度的思考。期許透過高峰會來提升相關醫療人員對於各種膝關節疾病的研究量能並改善對膝關節疾病患者的治療成效。

敬邀 先進 屆時蒞臨指導，並祝大會圓滿成功，大家身體健康平安。

會議日期時間：2022 年 12 月 10 日 8:00 - 17:00

會議地點：台中榮民總醫院研究大樓（台中市台灣大道四段 1650 號）

大會主席 台中榮民總醫院骨科部部主任 陳昆輝 敬邀



臺中榮民總醫院  
Taichung Veterans General Hospital

# 臺中榮總 2022 年國際膝關節疾病與治療高峰會議

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## 臺中榮總 2022 年國際膝關節疾病與治療高峰會議議程

	第一會場	第二會場	第三會場
08:20 – 08:30	Opening Remarks		
08:30 – 12:00	<b>關節重建</b> Partial Knee Replacement Robotics, Smart Tools, and Latest design	<b>人工關節感染</b> Diagnosis and medical treatment for PJI Prospects in PJI	<b>骨腫瘤</b> Tumor around the knee (Mayo Clinic) Tumor around the knee (Asian Aspects)
12:00 – 13:30	Lunch		
13:30 – 17:00	<b>關節重建</b> Complex TKA Complications after TKA Case-Based Discussion	<b>運動醫學</b> Cartilage preservation techniques Osteotomies	<b>復健醫學</b> Non-invasive treatment for knee pain Injections for knee diseases



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### 第一會場上午議程

	Topics	Speaker	Moderator
08:20 – 08:30	Welcome and Opening Remarks	陳適安 院長 李政鴻 副院長 詹益聖 理事長	
<b>Partial Knee Replacement</b>			
08:30 – 08:50	My experience of Mobile Bearing Medial UKA	Prof. Takafumi Hiranaka 高槻病院	古鳴洲 副總裁 黃炫迪 副院長
08:50 – 09:10	Bilateral UKA	陳昆輝 部主任 臺中榮總	
09:10 – 09:30	Fixed Bearing UKA with “TAX” Tool	王志堅 院長 信一骨科	
09:30 – 09:50	What We Should Know About PFA	胡志堅 主任 林口長庚	
09:50 – 10:00	Discussion		
10:00 – 10:30	Coffee break		
<b>Robotics, Smart Tools, and Latest design</b>			
10:30 – 10:50	Functional Alignment without Robotic Assistance: Is It Feasible?	王貞棣 主任 臺大醫院	許弘昌 副院長 邱方遙 主任
10:50 – 11:10	Clinical Outcome of Medial Stabilized TKA	洪誌鴻 主任 中國附醫	
11:10 – 11:30	Rotating platform TKR and Gap Balancing technique in TKR - What's the advantage?	張文康 主任 香港大學矯形及 創傷外科學系	
11:30 – 11:50	Optimizing TKA with ROSA	Prof. Takafumi Hiranaka 高槻病院	
11:50 – 12:00	Discussion		
12:00 – 13:30	Lunch		



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### 第一會場下午議程

#### Complex TKA

13:30 – 13:50	Extra-Articular Deformity in TKA: How to Determine Bone Cuts and Rotation?	郭峯志 主任 高雄長庚	王俊聞 教授 唐國民 主任
13:50 – 14:10	TKA for Severe Valgus Deformity: Is it a Challenge?	蔡尚聞 醫師 臺北榮總	
14:10 – 14:30	My Tips for TKA of Traumatic OA	張志偉 部主任 成大醫院	

#### Complications after TKA

14:30 – 14:50	Periprosthetic Distal Femoral Fracture: IM nail? Plating(single/double)? Revision??	楊善為 主任 高雄榮總	黃國欽 部主任 黃德揚 教授
14:50 – 15:10	Periprosthetic Tibial Fracture	黃贊文 主任 大里仁愛醫院	

Discussion

Coffee break

#### Case-Based Panel Discussion

15:40 – 16:40	Complex Primary TKA and Revision TKA: What Do You Do?	黃揆洲 副院長 陳正豐 理事長
	Closing Remark	曾崇育主任/陳昆輝部主任



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### 第二會場上午議程

Time	Topic	Speaker	Moderator
07:30 – 08:20	Registration		
08:20 – 08:30	Opening Remarks	陳昆輝部主任/劉伯瑜主任	
Session 1: Diagnosis and medical treatment for periprosthetic joint infections			
08:30 – 09:15	Controversies in the antibiotic management of periprosthetic joint infection.	Prof. David Paterson University of Queensland	劉伯瑜 主任
09:15 – 10:00	Advances in diagnostics of periprosthetic joint infection	Prof. Robin Patel Mayo Clinic	張毓翰 教授
10:00 – 10:30	Coffee break		
Session 2 : Prospects in periprosthetic joint infections			
10:30 – 11:15	Treatment of PJI: Taiwan's prospects.	盛望徽 教授 臺大醫院	陳昆輝 部主任
11:15 – 12:00	Actional diagnosis of osteoarticular infection by next-generation sequencing.	劉伯瑜 主任 臺中榮總	陳伯彥 主任
12:00 – 13:30	Lunch		



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### 第二會場下午議程

Time	Topic	Speaker	Moderator
Session 3: Cartilage preservation techniques			
13:30 – 13:53	Microfracture: Is It Officially a Thing of the Past?	陳暉錚 主任 臺北馬偕	詹益聖 理事長 陳昭宇 主任
13:53 – 14:15	Osteochondral Autograft Transplantation: Mosaicplasty	蔣恩榮 主任 臺北榮總	
14:15 – 14:38	Autologous Chondrocyte Implantation: chondrocyte cell-sheet	高逢辰 副院長 義大大昌醫院	蘇維仁 主任 張至宏 副院長
14:38 – 15:00	Particulated Autologous Cartilage Implantation: RevoCart	陳超平 理事長 臺中榮總	
15:00 – 15:30	Coffee break		
Session 4: Osteotomies			
15:30 – 15:53	Around knee Osteotomy: Uses, Types, Risks, What to Expect?	羅健生 醫師 中山附醫	馬筱笠 主任 盧永昌 主任
15:53 – 16:15	Patient-specific instrumentation (PSI) for HTO: What to Expect?	李坤燦 醫師 臺中榮總	
16:15 – 16:38	Meniscus Root Tear Repair: What to Expect? When to do HTO?	周文毅 主任 高雄長庚	潘如瑜 副院長 李建和 主任
16:38 – 17:00	Allogeneic Meniscus Transplantation: What to Expect? When to do HTO?	林冠宇 主任 高雄榮總	
Closing Remarks			



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### 第三會場上午議程

Time	Topic	Speaker	Moderator
07:30 – 08:20	Registration		
08:20 – 08:30	Opening Remarks		林育民 主任
Session 1: Tumor around the knee (Mayo Clinic)			
08:30 – 08:35	Basic introduction	Prof. Peter Rose Mayo Clinic	Prof. Franklin H. Sim 林育民 主任
08:36 – 08:40	Imaging of tumors about the knee	Prof. Doris Wenger, Mayo Clinic	
08:41 – 08:55	Benign and malignant soft tissue tumors	Prof. Mohammed Karim Mayo Clinic	
08:56 – 09:05	Benign bone tumors	Prof. Matthew Houdek Mayo Clinic	
09:06 – 09:20	Malignant bone tumors	Prof. Peter Rose Mayo Clinic	
09:21 – 09:35	Reconstruction and salvage / complications	Prof. Cory Couch Mayo Clinic	
09:36 – 09:45	Treatment of skeletally immature patients	Prof. Matthew Houdek Mayo Clinic	
09:45 – 10:00	Cases and Discussion		
10:00 – 10:30	Coffee break		
Session 2 : Tumor around the knee (Asian Aspects)			
10:30 – 11:15	Frozen autograft reconstruction for malignant bone tumors around the knee	Prof. Hiroyuki Tsuchiya 金沢大学	馮逸卿 副院長 林育民 主任
11:16 – 11:25	Application of computer simulation for tumor around the knee	陳昭銘 醫師 臺北榮總	
11:26 – 11:35	FNEC for tumor around the knee	翁閔楷 醫師 成大醫院	
11:36 – 11:45	Revision after biologic reconstruction around knee sarcoma	馮逸卿 副院長 中國附醫	陳昭銘 醫師 翁閔楷 醫師
11:46 – 11:55	Orthoplastic consideration around the knee	林育民 主任 臺中榮總	
11:56 – 12:00	Discussion	馮逸卿 副院長 林育民 主任 陳昭銘 醫師 翁閔楷 醫師	
12:00 – 13:30	Lunch		





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### 第三會場下午議程

Time	Topic	Speaker	Moderator
Session 3: Non-invasive treatment for knee pain			
13:30 – 14:15	Current Trends in Management of Patellofemoral pain Syndrome	陳翰裕 主任	華揚醫院 周正亮 院長
14:15 – 15:00	Current Trends in Management of Fat Pad Syndrome	蔡永裕 主任	
15:00 – 15:30	Coffee break		
Session 4: Injections for knee diseases			
15:30 – 16:00	Principles and techniques of dextrose prolotherapy	王偉全 增生醫學會 理事長	中山附醫 中興分院 林傳朝 院長
16:00 – 16:30	Intraosseous Injections for Knee Pain Management	吳宗儒 主任	
16:30 – 17:00	Review of the choices of injectants for knee diseases	陳至淳 院長	
Closing Remarks			



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## 交通資訊

### 自行開車

國道一號(中山高) → 中港交流道下(往沙鹿方向) → 12 省道(臺灣大道) → 台中榮總

國道三號(中二高) → 龍井交流道下(往台中方向) → 12 省道(臺灣大道) → 台中榮總

### 搭乘高鐵

高鐵台中站 → 轉乘公車 161 → 台中榮總(台灣大道)站

### 搭乘火車

台中火車站 → 轉乘公車 305、306、307 或 60 榮總/東海大學站

沙鹿火車站 → 轉乘公車 305、306 榮總/東海大學站

## 臺中榮總週邊道路簡圖



# 臺中榮總 2022 年國際膝關節疾病與治療高峰會議

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### 報到處

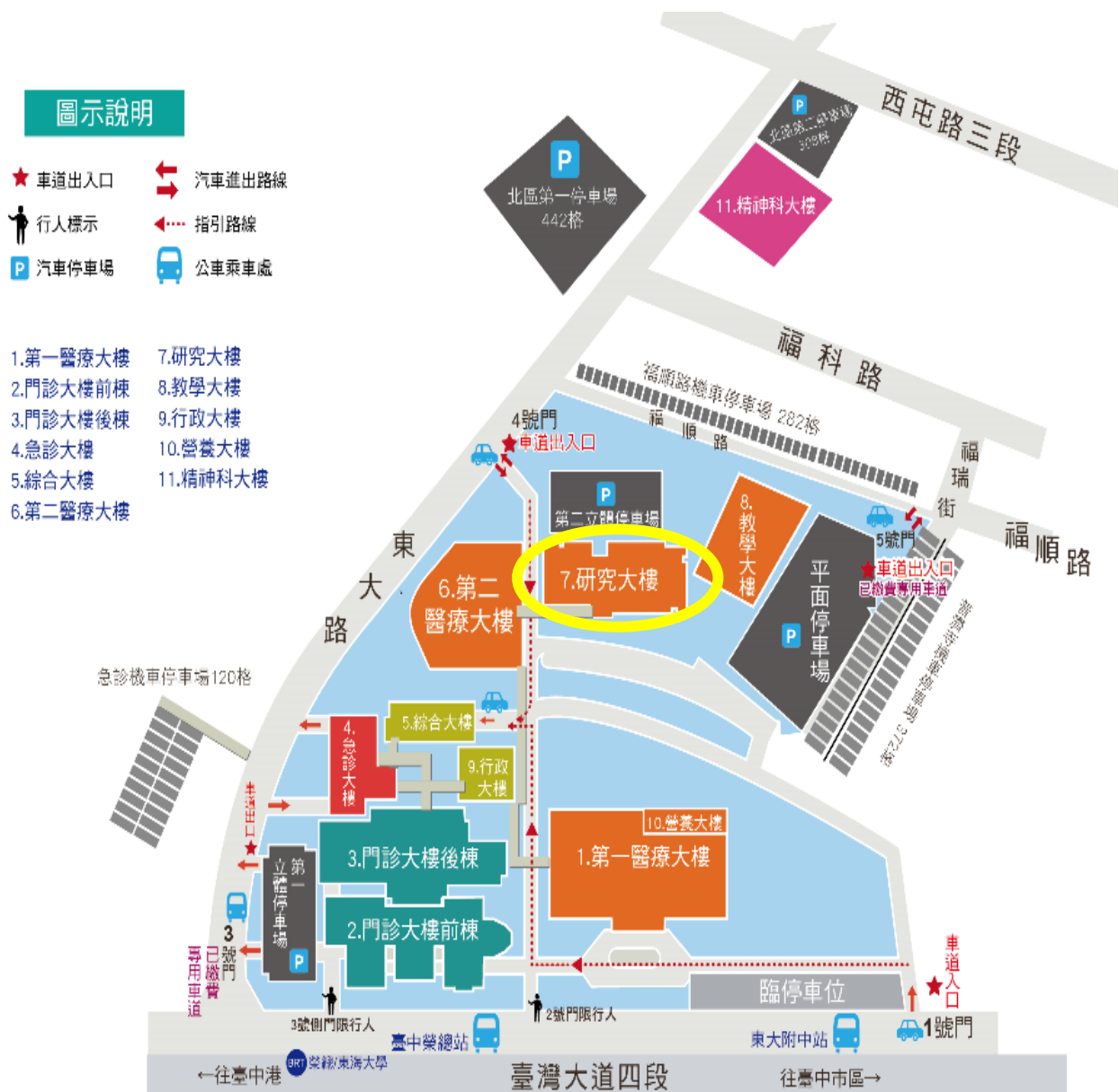
臺中榮民總醫院 研究大樓一樓

### 高鐵接駁車

2022/12/10 07:30 高鐵台中站 6 號出口

2022/12/10 13:00 高鐵台中站 6 號出口

2022/12/10 17:20 臺中榮民總醫院 研究大樓一樓



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### Hiranaka, Takafumi, MD.

#### Title

Vice President of Takatsuki General Hospital  
The Director of Department of Orthopaedic Surgery and the  
President of Joint Surgery Centre.  
Clinical Professor of Kobe University School of Medicine

#### Office:

Takatsuki General Hospital\*, Department of Orthopaedic and Joint  
Surgery Centre.

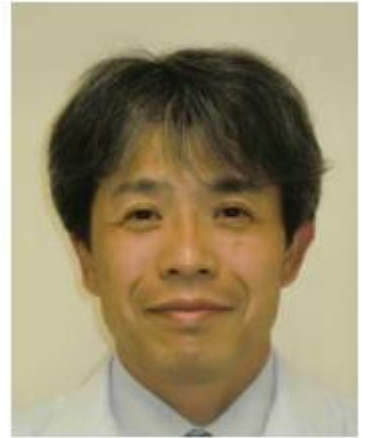
1-3-13 Kosobe-Cho, Takatsuki city, Osaka 5691115 Japan

Phone +81(72) 681-3801

Fax +81(72) 682-3834

#### Email

thiranaka@hotmail.com, takafumi.hiranaka@gmail.com



\*Aijinkai Healthcare Corporation is managing several healthcare institutions  
including Takatsuki General Hospital.

#### Personal

Date of Birth: 11 October 1963

Place of Birth: Osaka, Japan

Married, 3 children (2 boys and 1 girl)

#### Professional

Japanese Medical License - the Ministry of Health, Labor and Welfare of Japan  
(1988)

Orthopaedic Surgeon

Orthopaedic Specialist - Japanese Orthopaedic Association (JOA)

Specialist of Sports Medicine – Japanese Medical Association

Council of Japanese Society of Fracture Repair

Council of The Central Japan Association of Orthopaedic Surgery & Traumatology

#### Operation

Number of joint arthroplasty (2014) 312\* knee arthroplasties (TKA 124, UKA 188),  
61 hip arthroplasties.

#### Education

Kobe University School of medicine (1983-1988)

#### Degree

Doctor of Medicine (1996; Kobe University)



臺中榮民總醫院  
Taichung Veterans General Hospital

# 臺中榮總 2022 年國際膝關節疾病與治療高峰會議

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### **Position**

The Chief Doctor of Orthopaedic Surgery, Takatsuki General Hospital

The Director of Joint Surgery Center, Takatsuki General Hospital

The Clinical Professor, Department of Orthopaedic Surgery, Kobe University School of Medicine

The President of Good Will medical research institute.

(4-722 Orchid Court, 7-2 Nishiokamoto, Higashinada-Ku, Kobe City, Hyogo, )

### **Residency**

Department of Orthopaedic Surgery, Kobe University School of Medicine. June-Sept 1988.

Kobe Kaisei Hospital, Hyogo, Oct 1988 – May 1989

Kaibara Hyogo Prefectural Hospital, Hyogo, June 1989 – May 1990

Saijyo Chuo Hospital, Hiroshima, June 1990 – May 1991

Nishiwaki Citizen Hospital, Hyogo June 1991 – May 1992

Kanzaki General Municipal Hospital, Hyogo, June 1992 – May 1993

Nippon Steel Corp. Hirohata Works Hospital, June 1993 – March 1998

Takatsuki General Hospital, April 1998 – today

### **Studying abroad**

An Academic Visitor of Nuffield Dept of Orthopaedics, Rheumatology & Musculoskeletal Sciences, Botnar Research Centre, University of Oxford, Oxford, OX3 7LD, UK

TEL +44 1865 227233, FAX : +44 1865 227671

(From April to October 2011)

### **Specialized field**

Arthroplasty of Knee and Hip

Arthroscopic Surgery of the knee

Fracture Repair (Hip Fracture)

### **More detailed Information**

[Please click here](#)



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### Cheung Man Hong, Steve

#### Profile

NAME : Cheung Man Hong, Steve

PHONE : +852-67567603

EMAIL : steve\_cheung115@yahoo.com.hk

NATIONALITY : Hong Kong

#### Current appointment

Department Of Orthopaedics & Traumatology, Queen Mary Hospital,  
The University Of Hong Kong

Clinical Assistant Professor & Honorary 2017 - Current

Associate Consultant

The Chinese University Of Hong Kong

Honorary Clinical Assistant Professor 2015 - Current

The Hong Kong College Of Orthopaedic Surgeons

Trainer 2015 - Current

Tutor [Adult Joint Reconstruction] For Higher Trainee 2016 - Current

#### Professional qualification

Fellow of Royal College of Surgeons of Edinburgh 2013

Fellow of the Hong Kong College of Orthopaedic Surgeons 2013

Fellow of the Hong Kong Academy of Medicine ( Orthopaedic Surgery ) 2013

Member of Royal College of Surgeon of Edinburgh 2009

Bachelor of Medicine and Bachelor of Surgery, University of Hong Kong 2006

#### Professional committee appointment

1. Honorary Advisor. Hong Kong Elderly Welfare Foundation 2022-
2. Member. Young Fellow Committee. The Hong Kong College of Orthopaedic Surgeon 2021-
3. Member. SICOT LMS (Learning Management System) Taskforce 2021-
4. Member. SICOT Young Fellow Committee 2020-
5. Member. SICOT Research Education and Mentorship Committee 2020-
6. Organizing Committee. AO Asia Pacific Hong Kong 2014-16
7. Co-Editor and Editorial Board Member. Care, Health, Arthritic Management (CHARM), Hong Kong Arthritis & Rheumatism Foundation. 2020 -
8. Reviewer. The American Journal of Sports Medicine. 2015 -
9. Reviewer. Journal of Orthopaedics, Trauma and Rehabilitation. 2015 -
10. Reviewer. Journal of Orthopaedic Surgery. 2017 -
11. Reviewer. BMC Musculoskeletal Disorders. 2017
12. Committee Member. HKOA 50th Anniversary Album Editorial Committee 2015
13. Member. Adult Joint Reconstruction Chapter, Hong Kong Orthopaedic 2013 - Association.
14. Examiner. Licensing Examination of Hong Kong Medical Council 2017 -



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15. Blood Transfusion Committee. Gleneagles Hong Kong Hospital. 2017 –
16. Operation theater Committee. Gleneagles Hong Kong Hospital.
17. Board of Examiners for Master of Medical Science, HKU 2017
18. Member. Scientific Committee. Hong Kong Arthritis & Rheumatism Foundation Ltd. 2020-
19. Member. Committee on Continuing Medical Education (CME) Programme for Non-specialists 2019-

### **Award**

1. Dr. Vincent Chan Trophy of Adult Joint Reconstruction Chapter. HKOA Annual Congress 2019.

Failure mode of Total Hip Replacement: A 21-Year Retrospective Study of over 300 Revision Total Hip Replacements. KCH Fok, MH Cheung, H Fu, A Cheung, CH Yan, KY Chiu

2. Best Paper Award for Trainee. HKOA Annual Congress 2019.

Failure mode of Total Hip Replacement: A 21-Year Retrospective Study of over 300 Revision Total Hip Replacements. KCH Fok, MH Cheung, H Fu, A Cheung, CH Yan, KY Chiu

3. Hong Kong Orthopaedic Association Ambassador 2016.

Early clinical result of new straight proximal humerus nail [ Multiloc nail ] in proximal humerus fracture. CY Lo, MH Cheung, CM Ma. 65th Continuing Orthopaedic Education of Indonesian Orthopaedic Association. Nov 2017. ACEH, Indonesia.

4. Hong Kong Orthopaedic Association Ambassador 2016.

Distal femoral valgus cut angle in osteoarthritic Southern Chinese population and its relevance with alignment in total knee arthroplasty. Cheung MH, Chan PK, Yan CH, Fu CH, Chiu KY. The 39th Annual Meeting of Royal Orthopaedic Surgeons of Thailand. Oct 2017. Pattaya, Thailand.

5. The 88th Annual Meeting of the Japanese Orthopaedic Association Annual Congress Travel Award.

Early clinical result of new posterolateral anatomical fibula locking plate in ankle fracture. MH Cheung, YC Siu, CM Ma.

6. Best Paper Award for Trainee. HKOA Annual Congress 2014.

Accuracy of Measurement by Digital Radiography System for Intramedullary Nailing of Humerus, tibia and Femur. YC Siu, MH Cheung, CM Ma.

### **Research grant**

1. Hong Kong Orthopaedic Association Research Grant 2015.

Principle Investigator

Randomized controlled study on the efficacy of Thrombin and Gelatin matrix (FloSeal) in reducing blood loss in hip arthroplasty

### **More detailed Information**

[Please click here](#)



# 臺中榮總 2022 年國際膝關節疾病與治療高峰會議

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### Professor David Paterson

Professor, Faculty of Medicine, UQ Centre for Clinical Research  
Aff Professorial Research Fellow, Institute for Molecular Bioscience



#### Qualifications

Doctor of Philosophy, The University of Queensland  
Bachelor of Medicine and Bachelor of Surgery (Hon), The University of Queensland

#### Overview

Professor Paterson is Director at The University of Queensland Centre for Clinical Research. He is also a Consultant Infectious Diseases Physician at the Royal Brisbane and Women's Hospital (Australia's largest hospital and ranked in the top 100 hospitals of the world). He is Australia's most cited Infectious Diseases Physician and is the country's highest cited researcher in the field of Microbiology. He has been in the ISI Thomson Reuters Highly Cited List annually from 2015 to 2019.

He received his medical degree and PhD from The University of Queensland. His research focuses on the molecular and clinical epidemiology of infections with antibiotic resistant organisms, with the intent of translation of knowledge into optimal prevention and treatment of these infections. He now has added clinical trials to his research portfolio and has recently conducted the world's largest trial on antibiotics for extended-spectrum beta-lactamase producing bacterial infections (the "MERINO trial"). Professor Paterson has received research funding from the Centers for Disease Control and Prevention (CDC), Australia's National Health and Medical Research Council (NHMRC) and the Medical Research Future Fund. In 2007, Professor Paterson returned to Brisbane after ten years at The University of Pittsburgh School of Medicine. A 2008 Frank Fenner Award for Advanced Research in Infectious Diseases by the Australasian Society for Infectious Diseases (ASID) quickly followed and in 2009 he was awarded a Queensland Health Senior Clinical Research Fellowship and subsequently 2 NHMRC Practitioner Fellowships. He is now an NHMRC Investigator Grant holder.

#### Featured Publications

Wailan, Alexander M. and Paterson, David L. (2014). The spread and acquisition of NDM-1: a multifactorial problem. *Expert Review of Anti-Infective Therapy*, 12 (1), 91-115. doi: 10.1586/14787210.2014.856756

Zowawi, Hosam M., Balkhy, Hanan H., Walsh, Timothy R. and Paterson, David L. (2013). beta-lactamase production in key gram-negative pathogen isolates from the Arabian Peninsula. *Clinical Microbiology Reviews*, 26 (3), 361-380. doi: 10.1128/CMR.00096-12

Sidjabat, Hanna E., Kennedy, Karina, Silvey, Anna, Collignon, Peter and Paterson, David L. (2013). Emergence of bla(OXA-181)-carrying ColE plasmid in *Klebsiella pneumoniae* in Australia. *International Journal of Antimicrobial Agents*, 41 (3), 294-296. doi: 10.1016/j.ijantimicag.2012.11.003



# 臺中榮總 2022 年國際膝關節疾病與治療高峰會議

## 2022 The Knee International Symposium

### Robin Patel, M.D.

Consultant, Division of Clinical Microbiology, Department of Laboratory Medicine and Pathology

Vice Chair for Education, Department of Laboratory Medicine and Pathology  
Consultant, Division of Infectious Diseases, Department of Internal Medicine



#### Education

Fellow - Clinical Microbiology, Mayo Graduate School of Medicine, Mayo Clinic College of Medicine

Fellow - Infectious Diseases Mayo Graduate School of Medicine, Mayo Clinic College of Medicine

Resident - Internal Medicine Mayo Graduate School of Medicine, Mayo Clinic College of Medicine

MDCM, McGill University

BA – Chemistry, Princeton University

#### Summary

Robin Patel, M.D., is the director of the Infectious Diseases Research Laboratory. In the research laboratory, she and her colleagues focus on biofilms. Biofilms cause a large number of infections in modern clinical practice, such as prosthetic joint infection and endocarditis.

Dr. Patel and her team are unraveling the process of biofilm formation and resistance of biofilms to antibiotics. They are developing new and improved diagnostic tools and treatment strategies for biofilm-associated infections. Her group uses in vitro studies as well as animal models of infection for their studies.

Dr. Patel is also the chair of the Division of Clinical Microbiology and the director of its Bacteriology Laboratory. In this state-of-the-art clinical facility, she and her colleagues develop and deploy cutting-edge assays for clinical detection of bacteria, identification of bacteria, and characterization of antimicrobial resistance and susceptibility.

#### Significance to patient care

Most bacterial infections seen in modern clinical practice are associated with bacterial biofilms. Examples of biofilm-associated infections include prosthetic joint infection and endocarditis.

These infections can be challenging to treat because in biofilms, bacteria are relatively resistant to host immune responses and traditional antibiotics. In the research laboratory, Dr. Patel and her collaborators are developing new and improved diagnostic tools and treatment strategies for biofilm-associated infections.

In the Bacteriology Laboratory, Dr. Patel and her colleagues aim to offer state-of-the-art assays for clinical detection of bacteria, identification of bacteria, and characterization of antimicrobial resistance and susceptibility. In the laboratory itself, they develop many of the bacteriology assays offered for patient care at Mayo Clinic, providing the most technologically and clinically relevant diagnostics possible.



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### **Focus areas**

Biofilm-mediated infections

Novel approaches to diagnosing prosthetic joint infection

Novel antimicrobial agents for therapy of bacterial infections

Animal models of infection (for example, rabbit endocarditis, mouse pneumonia and rat osteomyelitis models)

Clinical bacteriology diagnostic assays

### **Professional highlights**

Microbiology Test Writing Committee, American Board of Pathology, 2015-present

Voting member, Subcommittee on Antimicrobial Susceptibility Testing, Clinical and Laboratory Standards Institute, 2015-present

Chair, Diagnostics and Devices Subcommittee, Antibacterial Resistance Leadership Group, 2013-present

Fellow, American Academy of Microbiology, 2012-present

Editorial board, Clinical Microbiology Reviews, American Society for Microbiology, 2002-present

Editor, Journal of Clinical Microbiology, American Society for Microbiology, 2009-2019

Distinguished Mayo Clinic Investigator Award, Mayo Clinic, 2022

Mayo Clinic Distinguished Educator Award, Mayo Clinic, 2021

Program Planning Committee, Interscience Conference on Antimicrobial Agents and Chemotherapy, American Society for Microbiology

Chair, 2016-2018

Vice chair, 2013-2015

Member, 2002-2007; 2012-2018

Elizabeth P. and Robert E. Allen Professor of Individualized Medicine, 2017

Microbiology/Immunology Test Material Development Committee, United States Medical Licensing Examination, National Board of Medical Examiners

Chair, 2014-2016

Member, 2009-2016



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### Wang-Huei, Sheng (盛望徽)



#### Current Position

- Professor, Internal Medicine, School of Medicine, National Taiwan University
- Director, School of Medicine, National Taiwan University
- Director, Department of Medical Education, National Taiwan University Hospital
- Attending Physician, Department of Internal Medicine, National Taiwan University Hospital

#### Personal Experiences

- Director, Division of Infectious Diseases, Department of Internal Medicine, National Taiwan University Hospital
- Director, Infection Control Center, National Taiwan University Hospital
- Vice Director, Department of Internal Medicine, National Taiwan University Hospital

#### Education

M.D., Taipei Medical University

PhD., Institute of Clinical Medicine, National Taiwan University

#### Medical Expertise

Internal Medicine, Infectious Diseases, AIDS, Microbiology



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### Peter S. Rose, M.D.

#### Summary

My area of expertise involves treating patients with tumors in the spine, chest wall, pelvis and extremities. The majority of patients require a multidisciplinary approach to health care. Our team works with other investigators to examine and refine best surgical oncology practices.

Specific areas of investigation include:

Sacrectomies, hemipelvectomies, and spinopelvic resections for advanced malignancies

Outcomes of treatment for primary bone and soft tissue sarcomas

Treatment of metastatic epidural spinal cord compression

Integration of adjuvant treatments (chemo- and radio therapy) into surgical oncology practice



#### Professional details

Division of Orthopedic Oncology, Department of Orthopedic Surgery

Professor of Orthopedics

2022-present: Board of Directors, International Society of Limb Salvage, American Academy of Orthopedic Surgeons

2018-present: Sacral Study Group

2015-2018: National Cancer Care Network

#### Education

Fellow - Musculoskeletal Oncology. Mayo Foundation Scholar

Memorial Sloan-Kettering Cancer Center, Cornell University

Fellow - Spine Surgery. Mayo Foundation Scholar

Washington University

Post Graduate Trainee - Orthopedic Surgery

Mayo School of Graduate Medical Education, Mayo Clinic College of Medicine

Resident

Orthopedic Surgery, Programs in Rochester, Mayo School of Graduate Medical Education, Mayo Clinic College of Medicine

Doctor of Medicine

The Johns Hopkins University School of Medicine

Clinical Research Fellowship - Investigations into connective tissue disorders including Marfan, Ehlers-Danlos, and Stickler syndromes and related conditions.

Clinical Research Training Program, National Human Genome Research Institute, National Institutes of Health

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## Doris E. Wenger, M.D.

### Speciality

Radiology department

Subspecialty - Orthopedic Oncology



### Education

1993 Fellow - Musculoskeletal and Cross Sectional Imaging

Mayo Clinic Graduate School of Biomedical Sciences, Mayo Clinic College of Medicine and Science

1992 Resident - Diagnostic Radiology

Mayo Clinic Graduate School of Biomedical Sciences, Mayo Clinic College of Medicine and Science

### Professional

2017 – present: Member - Academic Appointments and Promotions Committee, Department of Radiology

2015 – present: Member - International Skeletal Society

2015 – present: Associate Chair - Radiology Faculty Development Committee, Department of Radiology



臺中榮民總醫院  
Taichung Veterans General Hospital

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### Mohammed Karim, M.D.

Oncologist

Orthopedic Surgeon



#### Biographical summary

S. Mohammed Karim, M.D., is an orthopedic oncologist and spine surgeon who specializes in the surgical treatment of patients with tumors/cancer. His clinical practice includes:

Surgery with curative intent for primary bone and soft tissue tumors (sarcomas) in the spine, sacrum, pelvis, and extremities

Surgery for spinal cord compression and spinal instability from primary and metastatic tumors

Palliative surgery for metastatic tumors in the spine, sacrum, pelvis, and extremities

Surgical treatment of pathologic fractures and impending fractures from metastatic bone disease

Working closely with medical oncologists, radiation oncologists, pathologists, radiologists, plastic surgeons, and other surgical sub-specialists at Mayo Clinic to provide the best care possible to each patient

Surgical treatment of degenerative spine conditions (cervical myelopathy, disc herniations, spinal stenosis, spondylolisthesis), spinal trauma, spinal cord injuries, and spinal infections

In addition to caring for patients, Dr. Karim has a keen interest in education and enjoys teaching and mentoring medical students, residents, and fellows both in and out of the operating room. Dr. Karim also conducts clinical research to improve the outcomes of patients with musculoskeletal and spinal tumors. His research has been published in peer-reviewed journals and presented at international conferences.

#### Education

2021 Fellowship - Musculoskeletal Oncology Mayo Clinic

2020 Fellowship - Spine Surgery Vancouver General Hospital, University of British Columbia

2019 Residency - Orthopaedic Surgery Harvard Combined Orthopaedic Residency Program

#### Professional membership

2021 – present: Candidate Member - American Academy of Orthopaedic Surgeons

2021 – present: Associate Member - North American Spine Society

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### Matthew T. Houdek, M.D.

Orthopedic Surgeon  
Surgical Oncologist



#### Biographical summary

Matthew T. Houdek, M.D., is an Associate Professor of Orthopedic Surgery and the Fellowship Director for Musculoskeletal Oncology at the Mayo Clinic. He received his MD from the University of Arizona. He went on to be trained in Orthopedic Surgery at Mayo Clinic, and then did his fellowship training in Musculoskeletal Oncology at the University Musculoskeletal Oncology Unit at Mount Sinai Hospital and University of Toronto.

Dr. Houdek is an orthopedic oncologist treating both children and adults with bone and soft-tissue sarcomas of the pelvis and extremities. Dr. Houdeks' clinical and research interest include outcomes of complex reconstruction and limb salvage, with a focus on upper extremity sarcomas.

#### Education

2017 Fellowship - Orthopedic Oncology

Mount Sinai Hospital, University of Toronto

2016 Resident

Orthopedic Surgery, Programs in Rochester, Mayo School of Graduate Medical Education, Mayo Clinic College of Medicine

#### Professional membership

2021 – present: Chair - Masters' Thesis Committees, Mayo Clinic Graduate School of Biomedical Sciences, Mayo Clinic College of Medicine and Science

2020 – present: Member - Mid-America Orthopaedic Association

2019 – present: Career Advisor - Career Advisory Program, Mayo Clinic Alix School of Medicine, Mayo Clinic in Arizona

2019 – present: Contributor - American College of Surgeons

2019 – present: Chair - Masters' Thesis Committees, Mayo Clinic Graduate School of Biomedical Sciences, Mayo Clinic College of Medicine and Science



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### Cory G. Couch, M.D.

Orthopedic Surgeon

#### Biographical summary

Cory G. Couch, M.D., is an Orthopedic Surgeon at the Mayo Clinic in Rochester, MN. He has specialty interest in Hip and Knee Reconstruction as well as Orthopedic Oncology.



His clinical focus includes:

Revision total knee arthroplasties

Revision total hip arthroplasties

Surgical management of Bone and Soft tissue tumors

Complex oncologic reconstructions around the hip and knee

Primary total knee arthroplasties

Primary total hip arthroplasties

Periprosthetic joint infections

Periprosthetic fractures

In addition to his clinical activities, Dr. Couch is active in research and education, providing mentorship to residents and fellows. He authors expert content and publishes manuscripts in high-impact scientific journals.

#### Education

2020 Fellow - Musculoskeletal Oncology Fellowship, Orthopaedic Oncology Fellow

University of Florida

2019 Fellow

RST Adult Reconstruction - Lower Extremity, Programs in Rochester, Mayo School of Graduate Medical Education, Mayo Clinic College of Medicine

2018 Residency - Medical Sciences, Orthopaedic Surgery Resident

University Of Arkansas

#### Professional membership

2022 – 2023: Member - Nominating Committee, Mid-America Orthopaedic Association

2021 – present: Honorary Member - ACARO

2021 – 2022: Committee Member - AAHKS International Committee

2019 – present: Member - American Association of Hip and Knee Surgeons

2019 – present: Member - Mid-America Orthopaedic Association

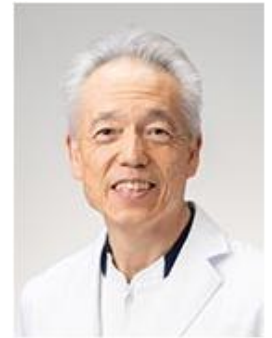


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Taichung Veterans General Hospital



## Hiroyuki Tsuchiya, MD, PhD

Dr. Hiroyuki Tsuchiya is now the professor and chairman of the Department of Orthopaedic Surgery, Graduate School of Medical Science, Kanazawa University, Japan.



He graduated from Kanazawa University medical school in 1983 and got Japanese medical license. He started to study and work in the musculoskeletal oncology field from 1986, and also was involved into limb reconstruction with external fixator from 1989.

He developed "caffeine-potentiated chemotherapy for bone and soft-tissue sarcomas", "tumor reconstruction using distraction osteogenesis procedure", "tumor reconstruction using tumor-bearing autogenous bone treated by liquid nitrogen", "antimicrobial iodine coating for orthopedic implants", "cryo-immunological treatment" and more. He also achieved numerous basic researches in both orthopaedic and oncology fields.

He is now a board member of Japanese Orthopedic Association and the ex-president of "International Society of Limb Salvage (ISOLS)" and the current president of "ASAMI-Japan" and a director of many Japanese medical societies.

Furthermore, he has now more than 780 English publications regarding tumor biology, tumor surgery, trauma, distraction osteogenesis, pediatric orthopedics, adult reconstruction, spine surgery, trauma, hand surgery, foot and ankle surgery, regenerative medicine, and so on.



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## 陳翰裕主任

### 現職

1. 弘光科技大學 物理治療系 主任 109/07-迄今
2. 弘光科技大學 物理治療系 教授 109/08-迄今

### 經歷

1. 弘光科技大學 物理治療系 副教授 104/02-109/07
2. 弘光科技大學 物理治療系 助理教授 98/08-104/01
3. 仁德醫專 復健科 講師、助理教授 91/08-98/07
4. 國泰綜合醫院 復健科 物理治療師 85/06~91/07



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## 2022 The Knee International Symposium

### 蔡永裕主任

#### 現職

1. 澄清醫院 院長室顧問暨主任治療師 108/08~
2. 臻理物理治療所 物理治療 主任 109/07~
3. 亞洲大學 物理治療學系 兼任教授 109/09~
4. 中山醫大 物理治療研究所 兼任教授 108/09~

#### 經歷

1. 澄清醫院(中港)復健治療部 主任 85/07~108/02
2. 澄清醫院(中港)醫學教育部 協同主任 108/02~108/08



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### 王偉全醫師

#### 學經歷

1. 台灣增生療法醫學會 (Taiwan Association of Prolotherapy and Regenerative Medicine, TAPRM) 副會長 (2014/2/22-2020/8/15)、理事長 (2020/8/16-)
2. 超全能診所院長 (2021/8/11-)
3. 注射肌動學 (Injectional Kinesiology, InK) 課程創辦人 (2020/11/28-)
4. 台灣復健醫學會 (TAPRM) 專科醫師 (復專醫字第 888 號)
5. 台灣疼痛醫學會 (TPS) 專科醫師 (疼專醫字第 646 號)
6. 香港肌骼醫學會 (HKIMM) fellowship (2016-)
7. 美國骨內科學會 (AAOM) 會員醫師 (2013-)
8. 美國超音波導引注射工作坊 (MSKUS) 多次進修
9. 台灣運動醫學醫學會 (TASM) 監事 (2020-)
10. 美國功能醫學會 (IFM) AFMCP 醫師 (2018/9/6-)
11. 台灣疼痛醫學會 (TPS) 會員醫師 (2018-)
12. 台灣生物等同性荷爾蒙學會 (BHAT) 發起人、監事 (2021/6-)
13. 北美神經療法學會 (NAANT) 會員醫師 (2022/2-)
14. 台北榮民總醫院 復健部 總醫師 (2007-2011)
15. 台中榮總嘉義分院 復健科 主治醫師 (2011-2013)
16. 新北市蘆洲沅昇復健科診所 前院長 (2013-2016)
17. 長安醫院復健科 主任 (2015-2021/8)



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## 吳宗儒醫師

### 現任

1. 彰化基督教醫院復健醫學部副主任
2. 員林基督教醫院復健醫學科主任

### 學經歷

1. 高雄醫學大學 醫學士
2. 中國醫藥大學基礎醫學研究所博士
3. 彰化基督教醫院復健醫學部副主任
4. 員林基督教醫院復健醫學科主任
5. 佑民醫療社團法人佑民醫院復健醫學科主任
6. 中華民國復健科專科醫師
7. 台灣增生療法醫學會常務監事/講師 (TAPRM)
8. 美國超音波醫學會講師 (MSKUS)
9. 台灣疼痛醫學會會員 (TPS)
10. 香港肌骨醫學會會員 (HKIMM)
11. 美國骨內科醫學會會員 (AAOM)
12. 國際骨骼肌肉超音波認證 (RMSK®)



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## 陳至淳醫師

### 學經歷

1. 紫陽醫療體系執行長
2. 紫陽復健科診所暨脊椎神經骨關節中心院長
3. 國際醫學教育學會理事長
4. 衛斯理國際醫學教育中心 (WIMEC) 執行長
5. 台灣疼痛醫學會全國基層疼痛照護網主任委員
6. 前台灣疼痛醫學會監事
7. 前台灣肌肉骨骼神經超音波醫學會理事
8. 前台灣增生療法醫學會理事
9. 台北榮民總醫院復健醫學部特約主治醫師



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