

Shoulder Biomechanics Research Summit 2018

ADVANCES IN SHOULDER BIOMECHANICS IN ORTHOPAEDICS AND SPORTS MEDICINE

ORGANIZERS



CO-ORGANIZERS



Asian
Shoulder
Elbow
Group



Shoulder Biomechanics Research Summit 2018

PRE-SUMMIT LAB TOUR

November 16, 2018 (Fri)

(by invitation only)

Time	Programme
10:00 am – 12:00 pm	Lab Tour at Prince of Wales Hospital Animal Operation Laboratory CUHK-ORT Sports Injury Research Laboratory
12:00 pm – 1:30 pm	Lunch
2:00 pm – 3:30 pm	Lab Tour at The Chinese University of Hong Kong Neurorehabilitation and Robotics Laboratory Department of Mechanical and Automation Engineering Department of Biomedical Engineering
4:00 pm – 5:00 pm	Social Event: Visit Hong Kong Sports Institute Fitness Training Centre Sports Science Centre – Biomechanics Sports Science Centre – Physiology End of Tour
5:00 pm – 9:00 pm	Drinks/ Dinner

Shoulder Biomechanics Research Summit 2018
Summit Secretariat

Rm 74029, 5/F Lui Che Woo Clinical Sciences Building, Prince of Wales Hospital, Shatin, Hong Kong
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Shoulder Biomechanics Research Summit 2018

MAIN RESEARCH SUMMIT

November 17, 2018 (Sat)

Time	Programme	Speaker
8:00 am – 8:30 am	Registration	
	Rotator cuff tear and repair (1)	
8:30 am – 8:45 am	Biomechanics and related topics of chronic rotator cuff tear model of rabbit	Dr. Sung-Min Rhee
8:45 am – 9:00 am	Development of functional assessment for a rat model of rotator cuff repair	Dr. Yang Liu
9:00 am – 9:15 am	Optimum tension of bridging suture in trans-osseous equivalent rotator cuff repair	Dr. Joo Hyun Park
9:15 am – 9:30 am	Photo-tunable biomaterials for rotator cuff repair	Prof. Dai Fei Elmer Ker
9:30 am – 9:45 am	The Role of Tissue-derived Extracellular Matrix in Musculoskeletal Tissue Engineering	Prof. Dan Wang
9:45 am – 10:15 am	Session Q & A	
10:15 am – 10:45 am	Morning Tea-Break	
	Shoulder Imaging	
10:45 am – 11:00 am	Ultrasound of shoulder: rotator cuff	Dr. Yee Fong Leung
11:00 am – 11:15 am	Shoulder physical examination and ultrasound evaluation in symptomatic overhead athletes	Prof. Hsing-Kuo Wang
11:15 am – 11:30 am	Factors influencing the subacromial space in rotator cuff tendinopathy: implication for prevention and rehabilitation	Dr. Karen McCreesh
11:30 am – 11:45 pm	Shearwave elastography imaging of the upper trapezius stiffness and its association with subacromial space in athletes with rotator cuff tendinopathy	Prof. Annie Leong
11:45 pm – 12:00 pm	Sonoelastography on Supraspinatus Muscle-Tendon and Long Head of Biceps Tendon in Professional & Youth Baseball Player	Prof. Joo Han Oh
12:00 pm – 12:15 pm	Session Q&A	
12:15 pm – 1:45 pm	Lunch (<i>by invitation only</i>)	
1:45 pm – 2:00 pm	Opening and Introduction	Prof. Patrick Yung
	Rotator cuff tear & repair (2)	
2:00 pm – 2:15 pm	Biomechanical analysis of articular-sided partial-thickness rotator cuff tear and repair	Prof. Teruhisa Mihata
2:15 pm – 2:30 pm	Role of biomechanical research to enhance clinical outcome of rotator cuff repair	Prof. Joo Han Oh
2:30 pm – 2:45 pm	Does biomechanical kinematic study correlate with clinical results?	Prof. Jae Chul Yoo
2:45 pm – 3:00 pm	Anterior capsulolabral lesions combined with supraspinatus tendon tears: Biomechanical effects of the pathologic condition and repair in human cadaveric shoulders	Dr. Yoongeol Jo
3:00 pm – 3:15 pm	Perianchor cyst formation of various material compositions after rotator cuff repair: All-suture, PEEK, and biocomposite anchors	Dr. Hyong-Suk Kim
3:15 pm – 3:45 pm	Session Q & A	
3:45 pm – 4:00 pm	Afternoon Tea-break	
	Other conditions:	
	AC Joint dislocation, Humerus fracture, Biceps tendon	
4:00 pm – 4:15 pm	What is the optimal surgical procedure for acromioclavicular dislocation based on biomechanical analysis	Dr. In Park
4:15 pm – 4:30 pm	Number of proximal screws for stable fixation of proximal humerus fracture: A biomechanical study	Prof. Kyoung Hwan Koh
4:30 pm – 4:45 pm	Biomechanical study of Long head biceps tendon and its Relationship to Concealed Intratendinous Subscapularis Tear	Dr. Tae-wan Jung
4:45 pm – 5:00 pm	Session Q & A	
6:00 pm – 9:00 pm	Welcome dinner (<i>by invitation only</i>)	

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MAIN RESEARCH SUMMIT

November 18, 2018 (Sun)

Time	Programme	Speakers
8:00 am – 8:30 am	Registration	
	Scapular biomechanics	
8:30 am – 8:45 am	Effect of scapular orientation on shoulder internal impingement in a cadaveric model of the cocking phase of throwing	Prof. Teruhisa Mihata
8:45 am – 9:00 am	Scapular neuromuscular control in athletes with shoulder dysfunction	Prof. Yi-Fen Shih
9:00 am – 9:15 am	Biomechanical study of peri-scapular muscle based on electromyography	Dr. Sang-Hoon Chae
9:15 am – 9:30 am	The effect of scapular muscle deficits on scapular kinematics and subacromial space in athletes with rotator cuff tendinopathy	Prof. Annie Leong
9:30 am – 9:45 am	Scapular dyskinesis: implication for evaluation and rehabilitation	Prof. Jiu-Jenq Lin
9:45 am – 10:15 am	Session Q & A	
10:15 am – 10:45 am	Morning Tea-Break	
	Rehabilitation	
10:45 am – 11:00 am	Shoulder exercises for athletes with shoulder injuries: an electromyographic analysis	Dr. Talia Alenabi
11:00 am – 11:15 am	Rehabilitation for optimal rotator cuff function in rotator cuff tendinopathy	Dr. Karen McCreesh
11:15 am – 11:30 am	The effects of exercise therapy and extracorporeal shockwave therapy on overhead athletes with subacromial pain syndrome	Dr. Sammi Sin-Mei Tsui
11:30 am – 11:45 am	Musculoskeletal robots in the application for shoulder rehabilitation	Prof. Darwin Lau
11:45 am – 12:00 pm	Session Q & A	
12:00 pm – 1:30 pm	Lunch (<i>by invitation only</i>)	
1:30 pm – 2:00 pm	Demonstration on “Arthroscopic Latarjet”	Mr. Marcus Spiess
	Shoulder instability	
2:00 pm – 2:15 pm	Effect of defect orientation and size on glenohumeral instability	Prof. Sang-Jin Shin
2:15 pm – 2:30 pm	Surgical management of SLAP & Bankart Repair	Prof. Chanakarn Phornphukul
2:30 pm – 2:45 pm	Biomechanical consideration for shoulder instability	Prof. Nobuyuki Yamamoto
2:45 pm – 3:00 pm	What is the critical value of glenoid bone loss at which soft tissue Bankart repair does not restore glenohumeral translation, restricts range of motion, and leads to abnormal humeral head position	Dr. Jun Seok Kang
3:00 pm – 3:30 pm	Session Q & A	
3:30 pm – 4:00 pm	Afternoon Tea-break	
4:00 pm – 5:00 pm	Collaboration Session	
	Closing	

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