

18th OLC Advanced Course 2010

Comprehensive Workshop-symposium on Computer-Assisted Orthopaedic Surgery

Special theme: From Pre-operative planning to intraoperative execution

Date: September 18-19, 2010. (Saturday and Sunday)

Venue: Orthopaedic Learning Centre
Department of Orthopaedics and Traumatology
The Chinese University of Hong Kong

Organisers: Orthopaedic Learning Centre, the Chinese University of Hong Kong

Participants: Orthopaedic surgeons
Orthopaedic surgical trainees
Operating room nurses
Engineers

Guest speakers:

Faculty: Prof. KS Leung, MD, FRCSEd, FHKCOS
Department of Orthopaedics and Traumatology,
The Chinese University of Hong Kong

Dr. KH Chiu KH Chiu, FRCSEd, FHKCOS
Consultant Orthopaedic Surgeon
Department of Orthopaedics and Traumatology
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Dr. TP Ng, FRCSEd(Ortho), FHKCOS
Consultant, Specialist in Adult Joint Reconstruction
Department of Orthopaedics and Traumatology
Queen Mary Hospital
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Dr. KY Wong, FRCSEd (Ortho), FHKCOS
Senior Medical Officer, Specialist in Adult Joint Reconstruction
Department of Orthopaedics and Traumatology
Princess Margaret Hospital
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Dr. KW Cheung, FRCSEd (Ortho), FHKCOS
Associate Consultant, Specialist in Adult Joint Reconstruction
Department of Orthopaedics and Traumatology
Prince of Wales Hospital

Dr. N Tang, FRCSEd(Orth), FHKCOS

Associate Consultant, Specialist in Orthopaedic Trauma
Department of Orthopaedics and Traumatology
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Dr. CY Tso MBBS, BSc. MSc(Computing & Information Sciences).
Department of Orthopaedics and Traumatology
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Dr. KC Wong FRCSEd(Orth), FHKCOS
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Dr. Patrick Yung FRCSEd(Orth), FHKCOS
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Mr. Eric Ng, MSc(BME)
Project Leader
ACAOS-ITAV
Department of Orthopaedics and Traumatology
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Dr. Y Wang, PhD
Visiting Engineer scholar
School of Biomedical Engineering
Beihang University, Beijing, China

Technical team: Eric Ng, MSc, Technical team leader
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Sponsors: Stryker Pacific
Stryker Japan
Stryker China

CME: 10 Cat A, 8 Training Points (HKCOS)

Scientific Programⁱ

Day 1. September 18, 2010. Saturday

08:30	Registration	
09:00	Welcome and Introduction	KS Leung
Session I Principles		
09:05	History and development of Computer Aided Orthopaedic Surgery	KS Leung
09:15	Principles and workflow of Fluoro-navigation	KS Leung
09:30	Principle of robot assisted surgery and its applications	Y Wang
09:45	Discussion	
09:50	Break	
Session II Clinical Applications I – Arthroplasties		
10:10	Principles of active tracker system in TKR and workflow of Articular Surface Mount (ASM) navigation system in TKR	TP Ng
10:25	Video demonstration of ASM navigation in TKR	KW Cheung
10:40	Clinical experience of ASM navigation in TKR	KY Wong
10:55	Pitfalls in Imageless navigation	KH Chiu
11:10	Discussion	
11:20	Practical workshop (i) Demonstration	KY Wong
12:00	Lunch	
13:00	Hands-on practice	KY Wong/TP Ng/ KH Chiu
Session III Application II - Sport injuries		
14:40	CAOS in ACL reconstruction – Current evidence in Clinical application & Research	P Yung
15:10	Discussion	
15:20	Break	
Session IV Application III – Spine surgery		
15:40	Principles of the Use of intraoperative 3-D images	N Tang
15:55	Spine surgery	
16:15	Pitfalls spine surgery	
16:30	Discussion	
16:35	Evaluation	

16:40 End of Day 1 program

18:00 Banquet

Day 2 September 19, 2010. Sunday

08:30 Registrations

Session V Special theme: From Pre-operative planning to intraoperative execution

09:00	Use of Mimics and OsiriX in preoperative planning	E Ng
09:20	Principles and workflow of computer assisted osteotomy	CY Tso
09:40	Application in Trauma surgery	N Tang
10:00	Principle and workflow for navigation in tumour surgery	KC Wong
10:15	Clinical experience of Tumour resection	KC Wong
10:35	Demonstration of planning and reconstruction	KC Wong
11:00	Introduction to CAOS Laboratory and registrations	
11:20	Discussion	

Break

Session VI Clinical application II – Trauma

11:40	Clinical experience	KS Leung
11:55	Pelvi-acetabular fractures	N Tang
12:10	Use of 3D images in Articular and juxtaarticular fractures	N Tang
12:30	Discussion	
12:35	Lunch	
13:15	Live surgery (2): Gamma nailing	KS Leung
15:15	Practical workshop – (ii) Demonstration followed by hands-on practice a. Proximal femoral fractures b. Distal locking c. Sacro-iliac screw d. Acetabular fractures	N Tang
16:35	Pitfalls in Fluoro-navigation	KS Leung
16:50	Evaluation and feedback	
17:00	End of program and farewell	