

17th CUHK- Stryker Advanced Trauma Course, 2010

The Second Workshop-Symposium on CAOS in Orthopaedic Trauma Surgery

Date: July 10-11, 2010. (Saturday and Sunday)

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

Participants: Orthopaedic surgeons
Orthopaedic surgical trainees
Operating room nurses
Engineers

Faculty: Prof. KS Leung, MD, FRCSEd, FHKCOS
Chairman Professor
Department of Orthopaedics and Traumatology,
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Mr. Eric Ng, MSc(BME)
Project Leader
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Dr. CY Tso MBBS, BSc. MSc(Computing & Information Sciences).
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Dr. Y Wang, PhD
Visiting Engineer scholar
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Technical team Eric Ng, Project Leader
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 The Chinese University of Hong Kong

Sponsors: Stryker Pacific
 Stryker Japan
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CME 8 Cat A HKCOS

Scientific Programⁱ

July 10, 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

09:25 Principles and Design of Fluoro-navigation KS Leung

09:40 Workflow of Fluoro-navigation N Tang

10:00 Principles of CT-fluoro matching N Tang

10:15 Discussion

10:20 Break

Session II Clinical Applications

10:40 Fluoro-Navigation in Hip screw fixation CY Tso

10:55 Fluoro-Navigation in Gamma nailing KS Leung

11:10 Fluoro-Navigation in long bone fractures N Tang

11:25 Fluoro-Navigation in pelvi-acetabular fractures KS Leung

11:45 Fluoro-Navigation with 3-D images N Tang

12:00 Complications and limitation of Fluoro-Navigation KS Leung

12:20 Discussion

12:30 Group Photo taking

12:40 Lunch

Session III Live Surgery Demonstration

13:40 Live surgery relay KS Leung/
N Tang/
Discussion

Session IV Hands-on workshop I
Demonstration followed by Hands-on practice

15:00	Hip screws	N Tang
15:40	Gamma nail	N Tang
16:20	Distal locking	N Tang
17:00	Evaluation of presentation	N Tang
17:15	End of First day meeting	
18:30	Banquet	

July 11, 2010. Sunday

Session V Hands-on workshop II
Demonstration followed by Hands-on practice

08:30	Sacro-iliac screws	N Tang
09:15	Acetabular fractures	KS Leung
	Posterior column screw	
	Anterior column	
	Antegrade screw	
	Retrograde screw	
10:00	Break	

Session VI New applications

10:20	Pre-operative Planning with Mimics	E Ng
10:40	Robot assisted surgery	KS Leung
11:00	A new design of a robot arm	Y Wang
11:20	A new imaging on CAOS of Pelvi-acetabular fractures	E Ng
11:40	Numeric modeling of Trauma surgery	KS Leung
12:00	Discussion	

Session VII Conclusion

12:10	Concluding remarks	KS Leung
12:15	Course Evaluation	N Tang
12:20	End of course and Farewell	

ⁱ May 11, 2010