

Course program

# AOTrauma Course - Principles in Operative Fracture Management

March 21-23, 2013 Daejeon, Korea



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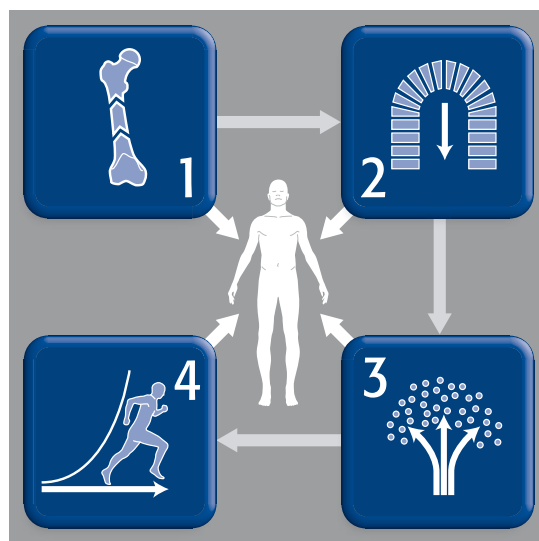
## Value statement

AOTrauma is committed to improve patient care outcomes through the highest quality education. We strive to combine the right knowledge and surgical skills that empower the orthopaedic and trauma surgeons to put theory into practice and to improve fracture management for the benefit of the patient.

## The AO principles of fracture management

Fracture reduction and fixation to restore anatomical relationships.

Early and safe mobilization and rehabilitation of the injured part and the patient as a whole.



Fracture fixation providing absolute or relative stability, as required by the “personality” of the fracture, the patient, and the injury.

Preservation of the blood supply to soft tissues and bone by gentle reduction techniques and careful handling.

The first AO Course was held in Davos in 1960—these early courses pioneered psychomotor techniques by teaching practical skills of AO Techniques. Since those early days over 250,000 surgeons and 135,000 ORP staff from over 110 countries have attended AO Courses—we now launch AOTrauma to move our education to the next level.

## Dear AOTrauma Course participant,

We have the honor to welcome you to AOTrauma course- Principles in Operative Fracture Management run by the new AOTrauma Specialty! We hope you will enjoy your course and the entire experience

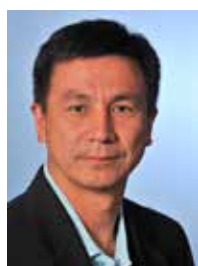
**What is AOTrauma?** We are the "clinical division"—a community for Trauma and Orthopaedics within the AO Foundation. As an AO Specialty we aim to integrate and align applied and clinical research, education, and community development functions into one direction—AOTrauma for the benefit of our members, stakeholders, and patients.

**How AOTrauma benefits you?** By working as a single team we will focus and better leverage our resources, expertise, and skills to create and deliver new and greater value to our members.

**What does this mean in education?** AOTrauma is committed to providing you the best possible educational experience by continuously embracing and introducing new educational techniques to help you learn and more effectively implement your knowledge for the benefit of your patients.

**Why join AOTrauma?** Joining AOTrauma means you are part of the "Trauma & Orthopaedic" community within the AO. AOTrauma will help you develop lifelong friendships and relationships; we will help you access our "knowledge network" and get involved in new opportunities that advance trauma care.

Yours sincerely,



Kodi Kojima  
Chairperson AOTrauma  
Education Commission



Nikolaus Renner  
Chairperson AOTrauma  
International Board

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**PS:** Your experiences with us, over the next few days, will result in the realization of new and meaningful knowledge, skills, and understanding that we hope will translate into improved patient care.

## Goal of the course

The AOTrauma Course—Principles in Operative Fracture Management emphasizes basic treatment principles in operative management of the most common human fractures based on the application of AO Principles. This course is the initial step along the pathway of lifelong learning in the area of operative management of fractures.

## Target participants

This course is targeted to any surgeon interested in developing knowledge and skills in operative fracture management.

## Course objectives

Course participants will learn the basic AOTrauma Principles of fracture management and be trained in the techniques for the management of common fractures. Each module consists of a number of evidence-based lectures which cover the principle concepts recommended. In practical exercises participants will gain experience in the application of these techniques. These same concepts are expanded and reinforced in small group discussions emphasizing indications, options, applications, and developing a valid decision-making processes.

## Course description

- Recall the symbiosis between biology and biomechanics in bone healing.
- Apply the Müller AO Fracture Classification of long bones to help understand and describe the bony injury.
- Outline the AOTrauma principles of fracture management including reduction techniques and distinguish the appropriate indications.
- Demonstrate a basic knowledge of fracture treatment and nonunion management utilizing AOTrauma principles.
- Comprehend intraoperative challenges and potential complications that may occur through surgical management of fractures.
- Integrate preoperative planning methods emphasizing a comprehensive teamwork approach.
- Start to acquire the practical skills to apply AO techniques for open reduction and internal fixation to stabilize common fractures.



## Course Chairperson

Oh	Chang-Wug	Korea	Kyungpook National University Hospital, Daegu
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## Honorary Chairperson

Kim	Key-Yong	Korea	Ulsan University Asan Medical Center, Seoul
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## Regional Faculty, Asia-Pacific

Pirpiris	Marinis	Australia	Epworth Hospital
Wu	Yong	PRC	Beijing University

## National Faculty

Ahn	Jae-Min	Korea	Busan National University Hospital, Busan
Byun	Young-Soo	Korea	Daegu Fatima Hospital, Daegu
Chang	Jae-Suk	Korea	Ulsan University Asan Medical Center, Seoul
Ha	Sang-Ho	Korea	Chosun University Hospital, Gwangju
Han	Soo-Hong	Korea	CHA University Bundang Medical Center, Bundang
Hwang	Deuk-Soo	Korea	Chungnam National University Hospital, Daejeon
Jung	Hong-Geun	Korea	Konkuk University Hospital, Seoul
Jung	Gu-Hee	Korea	Kosin University Gospel Hospital, Busan
Kang	Chan	Korea	Chungnam National University Hospital
Kim	Key-Yong	Korea	Ulsan University Asan Medical Center, Seoul
Kim	Kang-Il	Korea	Kyung Hee University Hospital at Gangdong, Seoul
Kim	Weon-Yoo	Korea	Daejeon St. Mary's Hospital, Daejeon
Kim	Ji-Wan	Korea	Inje University Haeundae Paik Hospital, Busan
Kim	Hak-Jun	Korea	Korea University Guro Hospital, Seoul
Oh	Jong-Keon	Korea	Korea University Guro Hospital, Seoul
Oh	Chang-Wug	Korea	Kyungpook National University Hospital, Daegu
Park	Hee-Gon	Korea	Dankook University Hospital, Cheonan
Park	Ki-Chul	Korea	Hanyang University Guri Hospital, Guri
Shon	Oog-Jin	Korea	Yeungnam University Hospital, Daegu
Sim	Jae-Ang	Korea	Gachon University Gil Hospital, Incheon
Sohn	Hoon-Sang	Korea	National Medical Center, Seoul

## Thursday, March 21, 2013

TIME	AGENDA ITEM	SPEAKER	MODERATOR	TABLE INSTRUCTOR
09:30-09:50	Registration			
09:50-10:00	Introduction/Welcome	CW Oh		
	1. Introductory Lectures		YS Byun	
10:00-10:15	AO principles and philosophy	KY Kim		
10:15-10:30	Bone - biological response to injury / fracture healing	Y Wu		
10:30-10:45	Concept of stability in fracture healing	YS Byun		
10:45-10:55	Q & A (10 min)			
10:55-11:05	Group photo			
11:05-11:20	Coffee break			
	2. Basic Principle (1)		CW Oh	
11:20-11:35	Basic instruments and implants	GH Jung		
11:35-11:50	Absolute stability - lag screw and plate technique	M Pirpiris		
11:50-12:05	Relative stability - intramedullary & extramedullary technique	Y Wu		
12:05-12:15	Q & A (10 min)			
	3. Basic Principle (2)		HG Jung	
12:15-12:30	Locking compression plate - concept / how to use it?	KI Kim		
12:30-12:45	AO fracture classification - a guide to clinical decision making	JM Ahn		
12:45-13:00	Surgical reduction technique - direct and indirect	CW Oh		
13:00-13:10	Q & A (10 min)			
13:10-14:00	Lunch Break			
14:00-15:00	Practical Exercise 1 (Group 1, 2) 1. Absolute stability : position screw + lag screw and compression plate technique 2. Relative stability : locking compression plate - bridging plating on generic bone	KI Kim		GH Jung, JW Kim, HS Sohn, JM Ahn, HJ Kim
	Group Discussion 1 (Group 3, 4) - Bone healing / General principles / Classification			
	Group 3	CW Oh, JA Sim, HG Park		
	Group 4	YS Byun, OJ Shon, C Kang		
15:00-15:15	Coffee break			
15:15-16:15	Practical Exercise 1 (Group 3, 4) 1. Absolute stability : position screw + lag screw and compression plate technique 2. Relative stability : locking compression plate - bridging plating on generic bone	OJ Shon		GH Jung, JA Sim, C Kang, HG Park, HJ Kim



## Thursday, March 21, 2013 (cont')

TIME	AGENDA ITEM	SPEAKER	MODERATOR	TABLE INSTRUCTOR
	Group Discussion 1 (Group 1, 2) - Bone healing / General principles / Classification			
	Group 1	CW Oh, JM Ahn, HS Sohn		
	Group 2	YS Byun, KI Kim, JW Kim		
	4. Decision Making		DS Hwang	
16:15-16:30	Management of open fractures	JW Kim		
16:30-16:45	Compartment syndrome and its management	CW Oh		
16:45-17:00	External fixation - how to use it?	OJ Shon		
17:00-17:20	Case-oriented lecture : pitfalls and complications in soft tissue injuries	YS Byun		
17:30-18:30	Practical Exercise 2 (Group 1, 2) 1. Tension band wiring 2. Type B malleolar fracture 44-B2	HG Jung		HJ Kim, JM Ahn, HS Sohn, C Kang, HG Park
	Group Discussion 2 (Group 3, 4) Diaphyseal Fracture I			
	Group 3	YS Byun, SH Han, GH Jung		
	Group 4	CW Oh, OJ Shon, JW Kim		
18:30-19:30	Practical Exercise 2 (Group 3, 4) 1. Tension band wiring 2. Type B malleolar fracture 44-B2	HJ Kim		HG Jung, OJ Shon, KI Kim, JW Kim, GH Jung
	Group Discussion 2 (Group 1, 2) Diaphyseal Fracture I			
	Group 1	YS Byun, JM Ahn, HG Park		
	Group 2	CW Oh, SH Han, C Kang		
19:30	End of the day			
19:40	Welcome Dinner			

## Friday, March 22, 2013

TIME	AGENDA ITEM	SPEAKER	MODERATOR	TABLE INSTRUCTOR
	<a href="#">5. Preoperative planning, the most important thing to do before you get into the OR</a>		Y Wu	
08:00-08:20	Preoperative planning - rationale and how to do it	Y Wu		
08:20-09:30	Preoperative planning - plan your forearm operation (Templating exercise)	SH Han		
09:30-10:30	Practical Exercise 3 (Group 1, 2) Operate your plan - fixation of a 22-C1 forearm fx using the LCP 3.5	SH Han		JW Kim, JA Sim, HJ Kim, HG Park, C Kang
	Group Discussion 3 (Group 3, 4) - Diaphyseal fracture II			
	Group 3	CW Oh, M Pirpiris, JM Ahn		
	Group 4	YS Byun, Y Wu, GH Jung		
<a href="#">10:30-10:45</a>	<a href="#">Coffee Break</a>			
10:45-11:45	Practical Exercise 3 (Group 3,4) Operate your plan - fixation of a 22-C1 forearm fx using the LCP 3.5	JW Kim		SH Han, GH Jung, JA Sim, OJ Shon, HS Sohn
	Group Discussion 3 (Group 1,2) - Diaphyseal fracture II			
	Group 1	CW Oh, Y Wu, HG Jung		
	Group 2	YS Byun, M Pirpiris, HJ Kim		
	<a href="#">6. Specific Fractures: Diaphyseal</a>		KI Kim	
11:45-12:00	IM nailing in lower extremity fractures	M Pirpiris		
12:00-12:15	Humerus	YS Byun		
12:15-12:30	Radius and ulna	SH Han		
12:30-12:50	Case-oriented lecture: pitfalls and complications in diaphyseal fractures	CW Oh		
12:50-13:00	Q & A (10 min)			
<a href="#">13:00-13:50</a>	<a href="#">Lunch Break</a>			



## Friday, March 22, 2013 (cont')

TIME	AGENDA ITEM	SPEAKER	MODERATOR	TABLE INSTRUCTOR
7. Specific Fractures: Articular (I)			SH Ha	
13:50-14:05	Principles of management of articular fractures	Y Wu		
14:05-14:20	Ankle	HG Jung		
14:20-14:35	Olecranon & patella - does TBW always work?	HJ Kim		
14:35-14:55	Case-oriented lecture: pitfalls and complications in articular fractures	JK OH		
14:55-15:05	Q & A (10 min)			
15:05-15:55	Practical Exercise 4 (Group 1, 2) Expert tibia nail + synream	JM Ahn		GH Jung, CW Oh, JA Sim, HG Park, HS Sohn
Group Discussion 4 (Group 3, 4) - Articular fracture I				
	Group 3	JK Oh, M Pirpiris, KI Kim		
	Group 4	YS Byun, Y Wu, OJ Shon		
15:55-16:10	Coffee Break			
16:10-17:00	Practical Exercise 4 (Group 3, 4) Expert tibia nail + synream	GH Jung		JM Ahn, KI Kim, HJ Kim, HG Park, C Kang
Group Discussion 4 (Group 1, 2) - Articular fracture I				
	Group 1	JK Oh, Y Wu, JW Kim		
	Group 2	CW Oh, M Pirpiris, OJ Shon		
8. Specific Fractures: Articular (II)			M Pirpiris	
17:00-17:15	Proximal humerus	M Pirpiris		
17:15-17:30	Distal humerus	YS Byun		
17:30-17:45	Distal radius	SH Han		
17:45-17:55	Q & A (10 min)			
17:55	End of the day			

## Saturday, March 23, 2013

TIME	AGENDA ITEM	SPEAKER	MODERATOR	TABLE INSTRUCTOR
	<b>9. Specific Fracture: Periarticular (III)</b>		<b>JS Chang</b>	
08:00-08:15	Femoral neck fractures	WY Kim		
08:15-08:30	Intertrochanteric fracture	JS Chang		
08:30-08:45	Distal femoral fractures	CW Oh		
08:45-09:00	Tibia plateau fractures	M Pirpiris		
09:00-09:10	Q & A (10 min)			
09:10-10:00	Practical Exercise 5 (Group 1, 2) PFNA	WY Kim		KI Kim, JA Sim, GH Jung, JW Kim, C Kang
	Group Discussion 5 (Group 3, 4) - Articular fracture II			
	Group 3	KC Park, OJ Shon, M Pirpiris		
	Group 4	YS Byun, JM Ahn, Y Wu		
<b>10:00-10:15</b>	<b>Coffee Break</b>			
10:15-11:05	Practical Exercise 5 (Group 3, 4) PFNA	JS Chang		JM Ahn, OJ Shon, HS Sohn, C Kang, HG Park
	Group Discussion 5 (Group 1, 2) - Articular fracture II			
	Group 1	CW Oh, GH Jung, KI Kim		
	Group 2	KC Park, JW Kim, JA Sim		
	<b>10. Complicated Injury</b>		<b>CW Oh</b>	
11:05-11:20	Causes and management of non-union	CW Oh		
11:20-11:35	Post-traumatic and post-operative infection	KC Park		
11:35-11:50	Violation of principles	YS Byun		
11:50-12:00	Q & A(10min)			
12:00-12:10	Evaluation of the course/Closing remark			
<b>12:10</b>	<b>End of the course</b>			

## Course organization

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## Course logistics

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Phone +82 2 560 5715  
Fax +82 2 560 5719  
Email [seo.jeongye@synthes.com](mailto:seo.jeongye@synthes.com)

## Course information

### Intellectual property

Course materials, presentations, and case studies are the intellectual property of the course faculty. All rights are reserved. Check hazards and legal restrictions on [www.aotrauma.org/legal](http://www.aotrauma.org/legal).

Recording, photographing, or copying of lectures, practical exercises, case discussions, or any course materials is absolutely forbidden.

### Security

Security check at the entrance of the building. Wearing of name tag compulsory during lectures, workshops, group discussions.

### No insurance

The course organization does not take out insurance to cover any individual against accidents, thefts or other risks.

### Mobile phone use

Mobile phone use is not allowed in the lecture halls and in other rooms during educational activities. Please be considerate of others by turning your mobile off.

### Dress code

Symposium: Smart Casual

## Course venue

Daejeon Convention Center  
Address: 107 Expo-ro, Yuseong-gu, Daejeon, Korea  
Tel.: 042-869-5400  
Homepage: [www.dcckorea.or.kr](http://www.dcckorea.or.kr)



## Accommodation venue

Hotel Riviera Yuseong  
Address: 444-5, Bongmyung-dong, Yuseong-gu, Daejeon  
Tel.: 042-823-2111  
Homepage: [www.shinan.co.kr/yusong/index\\_yuseong.asp](http://www.shinan.co.kr/yusong/index_yuseong.asp)



## Note

## Note



## 2<sup>nd</sup> AOTrauma Asia Pacific Scientific Congress & TK Experts' Symposium

**Trauma Management - The Global Perspectives**

**May 16-17, 2014**

**Coex, Seoul, S.Korea**

A two day congress covers both scientific and technical aspects of orthopaedic traumatology with an emphasis on academic exchange and experience sharing within and beyond the Asia Pacific region

We cordially invite you to participate, to showcase your outstanding work and to enjoy interactive case discussions with international experts on the state-of-the-art fracture management.

### Program highlights:

- Instructional Lectures
- Case Presentation
- Awards Presentation
- Free Paper Presentation
- Poster Presentation
- Social Program

### Call for Papers

#### Abstract Topics

- Basic Research in Orthopaedic Traumatology
- Paediatric Fractures
- Osteoporosis and Fragility Fractures
- Minimal Invasive Surgery and Innovative Techniques
- Bony anatomy and Implant Development
- Infection and Other Complications After Fracture Fixation
- Upper Limb Injuries
- Lower Limb Injuries
- Pelvic and Acetabulum Fractures and Polytrauma Injuries

#### Case Topics

- Upper Limb
- Lower Limb
- Pelvic and Acetabulum
- Osteoporotic Fractures

**Submission Deadline: January 15, 2014**

**Please visit**  
[www.aotapcongress.org](http://www.aotapcongress.org)  
**for information and registration**

Registration	Early Pre-registration	Pre-registration	Onsite Registration
	On or before Jan 15, 2014	Until Apr 30, 2014	May 16-17, 2014
Full Registration (2 days)	USD 380	USD 450	USD 500
Welcome banquet on May16, 2014	USD 100		

Congress Secretariat  
 AOTrauma Asia Pacific office in Hong Kong  
 Email: [aotapcongress@aotrauma.org](mailto:aotapcongress@aotrauma.org)



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