

# AO Trauma Course - Managing Pediatric Musculoskeletal Injuries

## Day 1: Thursday, July 7, 2022

Time	Duration	Topic	Who	
Opening				
9:00	9:10	10	Welcome and introduction	T Sato
Module 1			Fundamentals of managing pediatric fractures	Moderator: T Sato
9:10	9:25	15	Plenary session—Warm-up cases	T Slongo
9:25	9:45	20	Lecture—The influence of growth & modeling in pediatric fractures	N Kaiser
9:45	10:05	20	Lecture—What is our acceptable standard of treatment? Are we there yet? How can we improve?	T Slongo
10:05	10:25	20	Lecture—Patient safety essential to the management of pediatric patients	A Aroojis
Module 2			Assessment & planning	Moderator: T Matsumura
10:25	10:45	20	Lecture—Optimizing investigations for children	T Slongo
10:45	11:00	15	Lecture—The AO Pediatric Comprehensive Classification of Long-Bone Fractures (PCCF) and the AO Comprehensive Injury Automatic Classifier (AOCOIAC)	T Miyamoto
11:00	11:15	15	<i>Coffee break</i>	
Module 3			Decision making	Moderator: T Miyamoto
11:15	11:35	20	Lecture—Choice of technique/method according to age, bone segment, development, and available infrastructure	T Slongo
11:35	12:15	40	Open <b>small group discussions</b> —Clinical decision making	<p>Group A: H Minehara, K Futamura</p> <p>Group B: T Matsumura, Y Ueda</p> <p>Group C: T Miyamoto, T Sato</p>
12:15	12:25	10	Plenary session—Summaries from each table	H Minehara
12:25	13:15	50	<i>Lunch</i>	
Module 4a			Lower limb—Femur fractures	Moderator: H Minehara
13:15	13:30	15	Plenary session—ARS warm-up cases	T Matsumura
13:30	13:45	15	Lecture - Proximal femoral fracture	T Sato
13:45	14:15	30	Lecture—History / basic principles and technique of Elastic Stable Intramedullary Nailing in Children (ESIN)	T Slongo
14:15	15:35	80	<b>Practical exercise 1</b> ESIN in the femur: retrograde and anterograde techniques	T Slongo / T Matsumura
15:35	15:45	10	Q&A from participants	
15:45	16:00	15	<i>Coffee break</i>	
Module 4b			Lower limb—Femur fractures	Moderator: T Sato
16:00	16:45	45	Focused <b>small group discussions</b> —Treating femur fractures in children and adolescents	<p>Group A: N Kaiser, T Miyamoto, T Sato</p> <p>Group B: A Aroojis, H Minehara, K Futamura</p> <p>Group C: T Slongo, T Matsumura, Y Ueda</p>
16:45	16:55	10	Lecture—Summary	T Sato
16:55	<i>End of 1st day</i>			

## AOTrauma Course - Managing Pediatric Musculoskeletal Injuries

### Day 2: Friday, July 8, 2022

Time	Duration	Topic	Who
<b>Module 5</b>			
Lower limb—Knee injuries			Moderator: Y Ueda
8:00	8:15	15 Lecture - Guidelines for treating knee injuries	A Aroojis
8:15	8:25	10 Plenary session—ARS warm-up cases	N Kaiser, T Slongo
8:25	9:10	45 Focused <b>small group discussions</b> —Treating knee injuries in children of different ages	
			Group A: T Miyamoto, Y Ueda
			Group B: H Minehara, T Sato
			Group C: T Matsumura, K Futamura
9:10	9:20	10 Plenary session—ARS reevaluation of warm-up cases	N Kaiser, T Slongo
9:20	9:35	15 Lecture—Summary of knee injuries	T Matsumura
<b>Module 6</b>			
Lower limb—Tibia, fibula, and ankle injuries			Moderator: T Matsumura
9:35	9:45	10 Plenary session—ARS warm-up cases	H Minehara
9:45	10:00	15 Lecture—Tibial diaphysis	A Aroojis
10:00	10:15	15 Lecture—Distal tibial fractures	T Slongo
10:15	10:25	10 Plenary session—ARS reevaluation of warm-up cases	H Minehara
10:25	10:35	10 Q&A	
10:35	10:50	15 <i>Coffee break</i>	
10:50	11:30	40 <b>Practical exercise 2</b> Triplane fractures	T Miyamoto
<b>Module 7</b>			
Entire lower limb			Moderator: T Miyamoto
11:30	12:30	60 Open <b>small group discussions</b> —Pediatric lower limb injuries	
			Group A: T Matsumura, K Futamura
			Group B: T Miyamoto, Y Ueda
			Group C: H Minehara, T Sato
12:30	12:40	10 Plenary session—Summaries from each table	T Miyamoto
12:40	13:20	40 <i>Lunch</i>	
<b>Module 8</b>			
Upper limb—Shoulder and humerus			Moderator: K Futamura
13:20	13:30	10 Plenary session—ARS warm-up cases	A Aroojis
13:30	14:00	30 Focused <b>small group discussions</b> —Shoulder girdle and humerus	
			Group A: H Minehara, T Sato
			Group B: T Matsumura, K Futamura
			Group C: T Miyamoto, Y Ueda
14:00	14:10	10 Plenary session—ARS reevaluation of warm-up cases	A Aroojis
14:10	14:25	15 Lecture—Humeral shaft fractures	N Kaiser
<b>Module 9</b>			
Upper limb—Supracondylar fractures			Moderator: H Minehara
14:25	14:35	10 Plenary session—ARS warm-up cases	A Aroojis
14:35	15:35	60 Focused <b>small group discussions</b> —Supracondylar fractures	
			Group A: T Slongo, T Matsumura, Y Ueda
			Group B: N Kaiser, T Miyamoto, T Sato
			Group C: A Aroojis, H Minehara, K Futamura
15:35	15:55	20 Lecture—Supracondylar fractures	A Aroojis
15:55	16:05	10 Plenary session—ARS reevaluation of warm-up cases	A Aroojis
16:05	16:15	10 Lecture—Summary of module	H Minehara
16:15	16:25	10 Q&A	
16:25	16:40	15 <i>Coffee break</i>	
16:40	17:40	60 <b>Practical exercise 3</b> Supracondylar fractures	T Slongo / H Minehara
<b>Module 10</b>			
Upper limb—Other elbow injuries			Moderator: T Sato
17:40	17:50	10 Monteggia lesion	T Slongo
17:50	18:10	20 Plenary discussion-Non-union, malunion, growth arrest, missed Monteggia lesion	T Sato
18:10	18:20	10 Q&A	
18:20		End of day 2	

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## Day 3: Saturday, July 9, 2022

Time	Duration	Topic	Who	
Module 11			Moderator: T Matsumura	
8:00	8:10	10	Plenary session—ARS warm-up cases	H Minehara
8:10	8:25	15	Lecture—What is current (state-of-the-art) treatment?	T Slongo
8:25	9:10	45	Focused <b>small group discussions</b> —Treating forearm and wrist fractures	Group A: H Minehara, Y Ueda Group B: T Matsumura Group C: K Futamura, T Sato
9:10	9:20	10	Plenary session—ARS reevaluation of warm-up cases	H Minehara
9:20	9:40	20	Lecture—Summary of module	T Matsumura
9:40	10:20	40	<b>Practical exercise 4</b> Elastic nailing of forearm and radial neck fractures	T Matsumura
10:20	10:35	15	<i>Coffee break</i>	
Module 12			Moderator: H Minehara	
10:35	11:35	60	Open <b>small group discussions</b> —Pediatric upper limb injuries	Group A: K Futamura, T Sato Group B: H Minehara, Y Ueda Group C: T Matsumura
11:35	11:45	10	Plenary session—Summaries from each table	participants
11:45	12:25	40	<i>Lunch</i>	
Module 13			Moderator: T Sato	
12:25	12:35	10	Plenary session—ARS warm-up cases	A Aroojis
12:35	13:15	40	Focused <b>small group discussions</b> —Infection	Group A: A Aroojis, T Matsumura Group B: K Futamura, T Sato Group C: H Minehara, Y Ueda
13:15	13:35	20	Lecture—Algorithm for management of chronic osteomyelitis	A Aroojis
13:35	13:45	10	Plenary session—ARS reevaluation of warm-up cases	A Aroojis
Closing				
13:45	13:55	10	Final discussion	ALL
13:55	14:05	10	Closing remarks	T Sato
14:05	<i>End of the course</i>			