

AO Masters Course—Shoulder and Elbow

Sep. 23-24 2023

Linkou Chang Gung Memorial Hospital

Day 1, Saturday, Sep. 23, 2023

Start	End	Topic	Speaker(以下省略敬稱)	Speaker	Moderator	Moderator
09:30	09:40	Welcome and introduction	周應照/詹益聖/陳志輝	Ying-Chao Chou / Yi-Sheng Chan / Chih-Hui Chen		
		<b>Module 1 Complex fracture of shoulder girdle</b>				Ying-Chao Chou
09:40	09:55	Clavicle overview	Stefaan Nijs	Stefaan Nijs	周應照	
09:55	10:10	Scapula overview	許晉榮	Chin-Jung Hsu		
10:10	10:15	move to discussion room				
10:15	10:50	<b>Small group discussion for clavicle</b>	(A):Stefaan Nijs / 劉昌恆 (B):許晉榮/陳俊宇 (C):陳江山/張宗訓	(A):Stefaan Nijs (2 & 5) / Chang-Heng Liu (B):Chin-Jung Hsu /Chun-Yu Chen (C):Chiang-Sang Chen/Chung-Hsun Chang		
		1. Operative treatment of a diaphyseal fracture				
		2. Failed treatment of a diaphyseal clavicle fracture				
		3. Lateral clavicle fracture (and discuss associated injuries)				
		4. AC ligament injury				
		5.Malunion of clavicle				
10:50	11:25	<b>Small group discussion for Scapula</b>	(A):Stefaan Nijs / 劉昌恆 (B):許晉榮/陳俊宇 (C):陳江山/張宗訓	(A):Stefaan Nijs / Chang-Heng Liu (B):Chin-Jung Hsu /Chun-Yu Chen (C):Chiang-Sang Chen/Chung-Hsun Chang		
		1. Displaced scapular body fracture				
		2. Floating shoulder				
		3. Anterior instability (anterior glenoid fracture or labral avulsion)				
11:25	11:30	move to lecture room				
11:30	11:45	<b>Clavicle and Scapula - management summary</b>	周應照	Ying-Chao Chou		
		<b>Module 2: Proximal humerus</b>				
11:45	12:00	Proximal humerus overview/management summary	楊鎮源	Chen-Yuan Yang	陳志輝	Chih-Hui Chen
12:00	12:20	Coffee Break				
12:20	12:50	<b>Small group discussion</b>	(A):楊鎮源/莊閔堯 (B):陳江山/陳俊宇 (C):陳志輝/李大慶	(A):Chen-Yuan Yang/Min-Yao Chuang (B):Chiang-Sang Chen/Chun-Yu Chen (C):Chih-Hui Chen/Tien-Ching Lee		
		1. Multimorbid, frail patient with complex fracture (reverse)				
		2. Loss of reduction (Failed tuberosity fixation with a focus)				
		3. Implant cutout (varus displaced, 4-fragment, osteoporotic, multimorbid with a focus on prevention)				
		4. Intraarticular screw penetration				
		5. Avascular necrosis				
12:50	13:50	Lunch				
		<b>Module 3: Humeral shaft and Distal Humerus</b>				
13:50	14:05	Humeral shaft overview	吳柏廷	Po-Ting Wu	唐逸文	Yih-Wen Tarnq
14:05	14:20	Distal humerus overview	Chanakarn	Chanakarn P		
14:20	14:25	move to discussion room				
14:25	15:00	<b>Small group discussion</b>	(A):Chanakarn/吳柏廷 (B):莊閔堯/李大慶 (C):唐逸文/ 劉昌恆	(A):Chanakarn P (1 & 2)/Po-Ting Wu (B):Min-Yao Chuang/Tien-Ching Lee (C):Yih-Wen Tarnq/ Chang-Heng Liu		
		1. Simple transverse fracture of the humeral shaft				
		2. Multi-fragment fracture of the humeral shaft				
		3. Radial nerve involvement				
15:00	15:35	<b>Small group discussion (distal humerus)</b>	(A):Chanakarn/吳柏廷 (B):莊閔堯/李大慶 (C):唐逸文/ 劉昌恆	(A):Chanakarn P (2 & 3)/Po-Ting Wu (B):Min-Yao Chuang/Tien-Ching Lee (C):Yih-Wen Tarnq/ Chang-Heng Liu		
		1. Low supracondylar fracture in osteoporotic patient				
		2. Simple intraarticular fracture of distal humerus				
		3. Complex intraarticular fracture of distal humerus				
15:35	15:55	Coffee Break				
15:55	16:10	<b>Humeral shaft and distal humerus - management summary</b>	唐逸文	Yih-Wen Tarnq		
		<b>Module 4: Complex elbow fracture-dislocations</b>				
15:55	16:10	Overview: Terrible triad and Varus posteromedial rotational instability (VPMRI)	吳金獻	Chin-Hsien Wu	馬景侯	Ching-Hou Ma
16:10	16:25	Overview: Transolecranon Fracture and Monteggia fracture	Yoshida	Shiro Yoshida		
16:25	16:30	move to discussion room				
16:30	17:05	<b>Small group discussion</b>	(A):Yoshida /吳金獻 (B):馬景侯/吳佳駿 (C):江昭慶/張宗訓	(A):Shiro Yoshida (2 & 3) /Chin-Hsien Wu (B):Ching-Hou Ma/Chia-Chun Wu (C):Chao-Ching Chiang/Chung-Hsun Chang		
		1. Simple elbow dislocation				
		2. Terrible triad				
		3. Complex fracture-dislocation of the elbow (anteromedial facet)				
17:05	17:40	<b>Small group discussion (proximal ulna and radius)</b>	(A):Yoshida /吳金獻 (B):馬景侯/吳佳駿 (C):江昭慶/張宗訓	(A):Shiro Yoshida (2 & 3) /Chin-Hsien Wu (B):Ching-Hou Ma/Chia-Chun Wu (C):Chao-Ching Chiang /Chung-Hsun Chang		
		1. Multi-fragmentary proximal ulnar fracture, transolecranon				
17:40	17:45	move to lecture room				
17:45	18:05	<b>Complex forearm fractures - management summary</b>	馬景侯	Ching-Hou Ma		
18:05	18:15	Day summary and 2nd day notice	周應照	Ying-Chao Chou		

Day 2, Sunday, Sep. 24, 2023				Speaker	Speaker	Moderator	Moderator
Start	End	Topic					
		lab with anatomical specimens					
08:00	08:30	Exchange dressing					
08:30	08:40	Introduction to the lab and preparation					
		Anterior exposures					
08:40	10:00	<b>1.Clavicle</b>	Stefaan Nijs	Stefaan Nijs			Chia-Chun Wu
		Core					
		<ul style="list-style-type: none"> <li>Landmarks and exposure for lateral and medial clavicular fractures and AC joint, with particular attention to the supraclavicular nerves, the AC and CC ligaments and deltopectoral fascia</li> <li>Exploration of neurovascular structures around the clavicle</li> </ul>					
		Optional					
		<ul style="list-style-type: none"> <li>Plate stabilization for a lateral clavicular fracture</li> <li>Hook plate stabilization of AC dislocation and/or ligament repair</li> </ul>					
10:00	11:20	<b>2.Humerus</b>	Chanakam	Chanakam P			
		Core					
		<ul style="list-style-type: none"> <li>Landmarks and exposure using deltopectoral approach, exploring the infraclavicular plexus, then take down the skin and determine how you can visualize the proximal humerus using an anterolateral approach</li> </ul>				吳佳駿	
		<ul style="list-style-type: none"> <li>Anterolateral (interdeltoid) approach (deltoid split)</li> <li>Extend the deltopectoral incision to visualize the anterolateral humeral shaft (relation of musculocutaneous and median nerve and brachial artery)</li> <li>Identify radial nerve at the level of brachialis/brachioradialis and trace distally to the level of the supinator</li> <li>Advanced anatomy: Explore the pectoral muscle and 2-piece tendon and pectoral nerves</li> </ul>					
11:20	11:30	Coffee break					
11:30	12:50	<b>3.Elbow</b>	Yoshida	Shiro Yoshida			
		Core					
		<ul style="list-style-type: none"> <li>Lateral column exposure, explore the radial nerve (PIN)</li> <li>Safe zones for implant placement</li> <li>Medial column exposure (Hotchkiss/FCU), explore the ulnar nerve</li> <li>Anterior approach (distal biceps and coronoid exposure)</li> </ul>					
12:50	13:50	Lunch					
		posterior exposures					
13:50	14:40	<b>4.Scapula</b>	李天慶	Tien-Ching Lee			Ying-Chao Chou
		Core					
		<ul style="list-style-type: none"> <li>Landmarks and posterior approach for scapular fractures, with particular attention to suprascapular and axillary nerves and glenoid and lateral column/scapular body exposure (Boyd approach then modified Judet approach and compare visualization and invasiveness)</li> </ul>					
		Optional					
		<ul style="list-style-type: none"> <li>Plate/screw for posterior glenoid fracture and plate a scapular body fracture</li> </ul>					
14:40	15:00	<b>5.Humerus</b>	陳江山	Chiana-Sane Chen			
		Core					
		<ul style="list-style-type: none"> <li>Posterior approach to the humerus: exploration of radial nerve</li> </ul>				周應照	
		Optional					
		<ul style="list-style-type: none"> <li>Triceps-sparing vs triceps splitting approach</li> </ul>					
15:00	15:10	Coffee break					
15:10	16:30	<b>6.Distal humerus and proximal ulna</b>	張宗訓	Ying-Chao Chou			
		Core					
		<ul style="list-style-type: none"> <li>Landmarks and distal humerus visualization paratricipital approach, triceps split</li> <li>Explore the ulnar nerve</li> <li>Extend along the ulna to visualize the ulna to the wrist, visualizing the ulnar nerve and its dorsal branch</li> <li>Olecranon osteotomy and plate vs tension band (or perform the osteotomy after lateral and medial elbow exposures)</li> <li>Cut ligaments to demonstrate instability</li> </ul>					
		Optional					
		Plating (90 and 180 degrees)					
16:30	17:00	Take-home messages and course closure	周應照/陳志輝	Ying-Chao Chou / Chih-Hui Chen			