

Sunday, 13 May 2018 (Day 1) 17:00 Other 15:00 120 Registration of participants 17:00 18:00 Opening remarks 60 Opening ceremony 60 18:00 19:00 Other **AOTRAUMA RECEPTION**



Monday, 14 May 2018 (Day 2) Moderators/Faculty 0 Problems as defined by anatomy Martin Jaeger; Simon Lambert 07:45 07:50 Opening remarks 5 Welcome and introduction to the course and presentation of the faculty 07:50 09:50 Module 1: Antero superior clavicle FERNANDO MARCO 120 At the end of this module, participants will be able to: - Understand the relationship between potential for complications of clavicle fractures and the brachial plexus and proximal great vessels - Be able to predict scapular malposture based on clavicle fracture-morphology 07:50 07:55 Other 5 LOCATION CHANGE TO DISCUSSION GROUPS Gregory Bain; Peter Cole; Michael Fox; 07:55 08:45 Discussion (small group) 50 Damian McClelland: Joideep Phadnis: Discussion group 1 Sami Roukoz; Johan Scheer; Carlos Antero superior clavicle Zaidenberg 08:50 08:45 Other 5 LOCATION CHANGE TO LECTURE HALL Gregory Bain; Peter Cole; Michael Fox; 30 08:50 09:20 Case presentation Martin Jaeger; Simon Lambert; Presentation of case by group 1 FERNANDO MARCO: Damian McClelland: Joideep Phadnis: Sami Roukoz: Johan Scheer; Norbert Südkamp; Carlos Zaidenberg



Monday, 14 May 2018 (Day 2) Moderators/Faculty 09:20 09:50 FERNANDO MARCO 30 Discussion Plenary discussion of the case and the results from the presenting group 10:20 09:50 **COFFEE BREAK** 30 Norbert Südkamp 10:20 12:00 Module 2: Anterior proximal humerus 100 At the end of this module, participants will be able to: - Understand the complexity of fracture-dislocation of the glenohumeral joint - Understand what challenges of exposure are dictated by fracture morphology - Describe the potential limitations and opportunities inherent in different anterior approaches Gregory Bain; Peter Cole; Michael Fox; 10:20 11:10 Discussion (small group) 50 Damian McClelland; Joideep Phadnis; Discussion group 2 Sami Roukoz: Johan Scheer: Carlos Antero proximal humerus Zaidenberg 11:10 11:15 Other 5 LOCATION CHANGE TO LECTURE HALL Case presentation Gregory Bain; Peter Cole; Michael Fox; 11:15 11:35 20 Martin Jaeger; Simon Lambert; Presentation of case by group 2 FERNANDO MARCO: Damian McClelland: Joideep Phadnis; Sami Roukoz; Johan Scheer; Norbert Südkamp; Carlos Zaidenberg Norbert Südkamp 11:35 11:55 Discussion 20 Plenary discussion of the case and the results from the presenting group



Monday, 14 May 2018 (Day 2) Moderators/Faculty 11:55 12:00 Gregory Bain; Peter Cole; Michael Fox; 5 Discussion Martin Jaeger; Simon Lambert; Question and answer session FERNANDO MARCO: Damian McClelland: Joideep Phadnis: Sami Roukoz: Johan Scheer; Norbert Südkamp; Carlos Zaidenberg 12:00 13:30 LUNCH BREAK 90 13:30 Module 3: Posterior scapula Peter Cole 95 15:05 At the end of this module, participants will be able to: - Describe the indications for surgery for displaced scapular body and articular segment fractures - Describe the options for surgical exposure and fixation based on fracture morphology Discussion (small group) Gregory Bain: Michael Fox: Damian 13:30 14:20 50 McClelland; Joideep Phadnis; Sami Discussion group 3 Roukoz; Johan Scheer; Norbert Südkamp; Posterior scapula Carlos Zaidenberg 14:20 14:25 Other 5 LOCATION CHANGE TO LECTURE HALL Gregory Bain; Peter Cole; Michael Fox; 14:25 14:45 Case presentation 20 Martin Jaeger; Simon Lambert; Presentation of case by group 3 FERNANDO MARCO; Damian McClelland; Joideep Phadnis; Sami Roukoz; Johan Scheer: Norbert Südkamp; Carlos Zaidenberg Discussion Peter Cole 14:45 15:05 20 Plenary discussion of the case and the results from the presenting group



Monday, 14 May 2018 (Day 2)							
Start	End	Title	Moderators/Faculty	Location/Documents	Duration		
15:05	15:30	COFFEE BREAK			25		
15:30	17:15	Module 4: Posterior-extended/superior LSSS At the end of this module, participants will be able to: - Discuss the importance of the LSSS/scapular suspension for upper extremity function - Describe current concepts for the operative management of LSSS disruption, including differentiation between horizontal, vertical, and rotational instability of the LSSS	Gregory Bain		105		
15:30	16:20	Discussion (small group) Discussion group 4 Posterior-extended/superior LSSS	Peter Cole; Michael Fox; FERNANDO MARCO; Damian McClelland; Joideep Phadnis; Sami Roukoz; Johan Scheer; Carlos Zaidenberg		50		
16:20	16:25	Other LOCATION CHANGE TO LECTURE HALL			5		
16:25	16:45	Case presentation Presentation of case by group 4	Gregory Bain; Peter Cole; Michael Fox; Martin Jaeger; Simon Lambert; FERNANDO MARCO; Damian McClelland; Joideep Phadnis; Sami Roukoz; Johan Scheer; Norbert Südkamp; Carlos Zaidenberg		20		
16:45	17:05	Discussion Plenary discussion of the case and the results from the presenting group	Gregory Bain		20		
17:05	17:15	Closing remarks Summary, evaluation, and take-home messages	Martin Jaeger; Simon Lambert; Norbert Südkamp		10		



Tuesday, 15 May 2018 (Day 3) Moderators/Faculty 0 The applied anatomy 07:30 08:00 Other 30 TRANSFER TO THE ATOMICAL LAB MEETING POINT 07:30 MAIN ENTRANCE **CONGRESS CENTER** Module 5: Anatomical approaches—antero superior Martin Jaeger; Simon Lambert 08:00 09:40 100 clavicle At the end of this module, participants will be able to: - Describe the relation between the clavicle, the first rib, and the retroclavicular brachial plexus - Understand the concept of the "strut" which determines scapula position - "Pearl": omohyoideus - the guide to the supraclavicular plexu - "Pearl": subclavius - a potential cause for distal outlet stenosis - "Pearl": safe-drill zones or trajectories and consequences of over-long screws 08:00 08:10 Other 10 Preparation for the anatomical specimen laboratory



Tuesday, 15 May 2018 (Day 3)								
Start	End	Title	Moderators/Faculty	Location/Documents	Duration			
08:10	09:40	Workshop (cadaver) Anatomical specimen laboratory - Supraclavicular nerves - Omohyoideus + SC plexus - Major partial medial detachment (preserve the lateral 5cm of attachment to clavicle), subclavius, and subclavian vessels - Dissection of the lateral pectoral nerve - Break-out session (anatomical basis for shoulder pain) - Osteotomy of the clavicle, fixation in four malunions: angular sagittal/15mm overlap/ rotation/angulation with rotation (documentation of the effect of the malunion on a prepared paper matrix) - Break-out: "the sailing boat"	Gregory Bain; Peter Cole; Michael Fox; Martin Jaeger; Simon Lambert; FERNANDO MARCO; Damian McClelland; Joideep Phadnis; Sami Roukoz; Johan Scheer; Norbert Südkamp; Carlos Zaidenberg		90			
09:40	10:10	COFFEE BREAK			30			
10:10	12:05	Module 6: Anatomical approaches—anterior proximal humerus At the end of this module, participants will be able to: - Understand the concepts of fascial planes - Understand the anatomy of the infracoracoid brachial plexus - "Pearl": PCH vessels, AxN, deltoid and fracture morphology - "Pearl": anatomical guides to exposure - "Pearl": the value of the deltoid muscle structure	Martin Jaeger; Simon Lambert		115			
10:10	10:20	Other Preparation for the anatomical specimen laboratory			10			



Tuesday,	15	May	2018	(Day	3)
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Start	End	Title	Moderators/Faculty	Location/Documents	Duration
10:20	12:05	Workshop (cadaver) Anatomical specimen laboratory - Dissection to the clavipectoral fascia (CPF): deltoid and pectoral arterial leash - Elevation of the deltoid from the investing fascia of the shoulder - Neurovascular anatomy of the proximal humerus (anterior cruciate anastomosis) - Posterior circumflex and terminal AxN and deltoid fascia - Break-out: retractor positioning - AxN anteromedially - Break-out: deltoid morphology - Master dissection—"open the window"□ - OTW - Master dissection—"open the door" - OTD - Extension distally for MCN	Gregory Bain; Peter Cole; Michael Fox; Martin Jaeger; Simon Lambert; FERNANDO MARCO; Damian McClelland; Joideep Phadnis; Sami Roukoz; Johan Scheer; Norbert Südkamp; Carlos Zaidenberg		105
12:05	13:05	LUNCH BREAK			60



Preparation for the anatomical specimen laboratory

Tuesday, 15 May 2018 (Day 3) Moderators/Faculty Module 7: Anatomical approaches—posterior scapula 13:05 14:55 Martin Jaeger; Simon Lambert 110 At the end of this module, participants will be able to: - Be familiar with the anatomy of the periscapular muscles - Be familiar with the concept, dissection and limitations of the "windows" to the scapula - Be familiar with the anatomy of the suprascapular nerve - Be familiar with the anatomy of the AxN and the **PCNA** - "Pearl": circumflex scapular artery as a guide to the TMinor-TMajor interval - "Pearl": anatomical guides to exposure 13:05 13:15 10 Other



	End	Title	Moderators/Faculty	Location/Documents	Duration
3:15	14:55	Workshop (cadaver) Anatomical specimen laboratory - Break-out: topographical anatomy of the posterior aspect of the shoulder - 'H'- desquamation (epifascial dissection) of the posterior aspect of the shoulder girdle, and exposure of the periscapular muscles (LD attachment to the inferior pole as a scapular accessory stabiliser) - Elevation of the deltoid, explore and develop the middle "window" (preserve the ISP facsia, identify the tactic of the interneural dissection planes), and identify the ISP branch of the SSN - Break-out: "working length" of the SSN - Develop the lower "window" to the lateral border, dissect the CSA and identify the long held of the triceps - Define the triangular and quadrilateral spaces - Break-out: the lateral column. T Minor (as the distal part of the deltoid) - Detach the posterior deltoid, and develop the upper "window": identify the SSN at the spinoglenoid notch - Examine the anatomy of the AxN and its PCNA branch - Explore the radial nerve trajectory - Break-out: closing comments	Gregory Bain; Peter Cole; Michael Fox; Martin Jaeger; Simon Lambert; FERNANDO MARCO; Damian McClelland; Joideep Phadnis; Sami Roukoz; Johan Scheer; Norbert Südkamp; Carlos Zaidenberg		100



Tuesday, 15 May 2018 (Day 3)							
Start	End	Title	Moderators/Faculty	Location/Documents	Duration		
15:25	17:45	Module 8: Anatomical approaches—posterior-extended/superior LSSS At the end of this module, participants will be able to: - Review and describe the anatomy of structures contributing to stability of the ACJ - Investigate and document the consequences of surgical disruption of the stabilising structures of the ACJ - Understand the anatomy of pain resulting from severe ACJ disruptions	Martin Jaeger; Simon Lambert		140		
15:25	15:35	Other Preparation for the anatomical specimen laboratory			10		
15:35	16:55	Workshop (cadaver) Anatomical specimen laboratory - Desquamation of the trapezius skin ('H-incision') - Ligament-cutting exercise (simulation of injury/documentation of outcome on prepared paper-based matrix): a. superior capsular ligament b. anterior capsular ligament c. trapezoid ligament d. conoid ligament e. inferior capsular ligament f. posterior capsular ligament g. trapezius tear (3cm) - Detach the trapezius from the scapular spine, and exploration of the SSN crossing the supraspinous fossa - Break-out: "pain and the ACJ"	Gregory Bain; Peter Cole; Michael Fox; Martin Jaeger; Simon Lambert; FERNANDO MARCO; Damian McClelland; Joideep Phadnis; Sami Roukoz; Johan Scheer; Norbert Südkamp; Carlos Zaidenberg		80		



Tuesday, 15 May 2018 (Day 3)StartEndTitleModerators/FacultyLocation/DocumentsDuration16:5517:15Closing remarks
Summary, evaluation, and take-home messagesMartin Jaeger; Simon Lambert; Norbert
Südkamp2017:1517:45Other
TRANSFER TO THE CONGRESS CENTER
MEETING POINT 17:15 MAIN ENTRANCE
ANATOMICAL LAB30



Wednesday, 16 May 2018 (Day 4) Moderators/Faculty 0 The anatomy of clinical failure Sami Roukoz 08:00 09:20 Module 9: Antero superior clavicle 80 At the end of this module, participants will be able to: - Discuss the strut function of the clavicle and the consequences of disruption - Describe the relationship of the clavicle, the first rib, and the brachial nv bundle, and the potential risks of fixation - Review the results of malunited clavicle fractures with respect to the neurovascular anatomy of the retroclavicular space 08:35 Peter Cole: Michael Fox: FERNANDO 08:00 Discussion (small group) 35 Discussion group 5 MARCO; Damian McClelland; Joideep Phadnis; Johan Scheer; Norbert Südkamp; Antero superior clavicle Carlos Zaidenberg 08:35 08:40 Other 5 LOCATION CHANGE TO LECTURE HALL Gregory Bain; Peter Cole; Michael Fox; 08:40 09:00 Case presentation 20 Martin Jaeger; Simon Lambert; Presentation of case by group 1 FERNANDO MARCO; Damian McClelland; Joideep Phadnis: Sami Roukoz: Johan Scheer; Norbert Südkamp; Carlos Zaidenberg Sami Roukoz 09:00 09:20 Discussion 20 Plenary discussion of the case and the results from the presenting group 09:20 09:40 **COFFEE BREAK** 20



Wednesday, 16 May 2018 (Day 4)							
Start	End	Title	Moderators/Faculty	Location/Documents	Duration		
09:40	11:00	Module 10: Anterior proximal humerus At the end of this module, participants will be able to: - Understand the concepts of treatment of traumatic nerve lesions - Understand the concept of intra- and extra-capsular "overstuffing" in relation to neurovascular anatomy	Damian McClelland		80		
09:40	10:15	Discussion (small group) Discussion group 6 Antero proximal humerus	Gregory Bain; Peter Cole; Michael Fox; Joideep Phadnis; Sami Roukoz; Johan Scheer; Norbert Südkamp; Carlos Zaidenberg		35		
10:15	10:20	Other LOCATION CHANGE TO LECTURE HALL			5		
10:20	10:40	Case presentation Presentation of case by group 2	Gregory Bain; Michael Fox; Martin Jaeger; Simon Lambert; FERNANDO MARCO; Damian McClelland; Joideep Phadnis; Sami Roukoz; Johan Scheer; Norbert Südkamp; Carlos Zaidenberg		20		
10:40	11:00	Discussion Plenary discussion of the case and the results from the presenting group	Damian McClelland		20		
11:00	12:20	Module 11: Posterior scapula At the end of this module, participants will be able to: - Discuss the anatomical rationale for scapular body/process/articular segment fracture fixation - Describe the patho-anatomical consequences of failure to heal or malunion of the scapula	Gregory Bain		80		



Wednesday, 16 May 2018 (Day 4) Moderators/Faculty 11:00 11:35 Discussion (small group) Michael Fox; Simon Lambert; Damian 35 McClelland: Joideep Phadnis: Sami Discussion group 7 Roukoz; Johan Scheer; Carlos Zaidenberg Posterior scapula 11:35 11:40 5 Other LOCATION CHANGE TO LECTURE HALL Gregory Bain; Michael Fox; Martin Jaeger; 11:40 12:00 20 Case presentation Simon Lambert: FERNANDO MARCO: Presentation of case by group 3 Damian McClelland: Joideep Phadnis: Sami Roukoz; Johan Scheer; Norbert Südkamp; Carlos Zaidenberg **Gregory Bain** 20 12:00 12:20 Discussion Plenary discussion of the case and the results from the presenting group **LUNCH BREAK** 12:20 13:00 40 Simon Lambert 13:00 14:40 Module 12: Posterior-extended/superior LSSS 100 At the end of this module, participants will be able to: - Discuss the anatomical basis for reconstruction of the LSSS - Review the qualitative contribution of the stabilising structures/tissues (review the results of sequential sectioning experiment) - Discuss the limitations of current concepts for fixation or reconstruction of the stabilising structures of the ACJ Gregory Bain; Michael Fox; FERNANDO 13:00 13:35 Discussion (small group) 35 MARCO: Damian McClelland: Joideep Discussion group 8 Phadnis; Sami Roukoz; Johan Scheer; Posterior-extended/superior LSSS Carlos Zaidenberg



Wednesday, 16 May 2018 (Day 4) 13:35 13:40 Other 5 LOCATION CHANGE TO LECTURE HALL Gregory Bain; Michael Fox; Martin Jaeger; 20 13:40 14:00 Case presentation Simon Lambert; FERNANDO MARCO; Presentation of case by group 4 Damian McClelland; Joideep Phadnis; Sami Roukoz; Johan Scheer; Norbert Südkamp; Carlos Zaidenberg 14:20 Discussion Simon Lambert 20 14:00 Plenary discussion of the case and the results from the presenting group 14:20 Closing remarks Martin Jaeger; Simon Lambert; Norbert 20 14:40 Südkamp Summary, evaluation, and take-home messages