smith&nephew
Medical Education

Instructional Course
Anatomic and Biomechanical Basis of Knee Ligament Reconstruction

Programme

Chairs: Dr Charles Brown (UAE) and Mr James Robinson (UK)

Smith & Nephew Surgical Skills Centre, York, UK
14 - 15 May 2015

Course Description

This advanced two day course discusses the anatomic and biomechanical rationale behind state-of-the-art knee ligament reconstruction. Participants will be given the opportunity to perform anatomic Anterior Cruciate Ligament (ACL), Posterior Cruciate Ligament (PCL), Medial Collateral Ligament (MCL), Posterior Oblique Ligament (POL), Posterolateral Corner (PLC), Anterolateral Ligament (ALL) and Medial Patellofemoral Ligament (MPFL) reconstructions under the supervision of a large faculty of internationally recognised experts.

A short series of lectures will be followed by faculty demonstrations using anatomical specimens and extensive hands on surgical skills training. Participants will be invited to discuss, practise and perfect new ligament reconstruction techniques in a fully equipped wet lab. Additionally there will be the opportunity to use fluoroscopy to document placement of ACL and MPFL reconstruction tunnels.

Dr Charles Brown

Director and Consultant Orthopaedic Surgeon, International Knee & Sports Medicine Centre, Abu Dhabi, UAE

Mr James Robinson

Consultant Orthopaedic Surgeon
Avon Orthopaedic Centre, Bristol UK

Faculty

Dr Alan Getgood

Complex Knee Reconstruction and Sports Medicine Fowler Kennedy Sport Medicine Clinic
University of Western Ontario
London, Ontario, CA

Mr Andy Williams

Fortius Clinic London
Imperial College, London
Honorary Senior Research Fellow, Nuffield Department of Orthopaedics, Rheumatology, and Musculoskeletal Sciences, University of Oxford, UK

Dr David Dejour

Lyon Ortho Clinic
Clinique de la Sauvegarde
Lyon, France

Dr Koen Lagae

Head of Knee Department
Monica Hospitals
Antwerp, Belgium

Dr Martin Lind

Professor
Sportstrauma, Dept of Orthopaedics
Aarhus University Hospital, Denmark

Mr Peter Thompson

Consultant Orthopaedic Surgeon
University Hospitals of Coventry and Warwickshire NHS Trust, UK

Dr Rob Janssen

Orthopaedic Associates
Eindhoven Greater Area,
Máxima Medical Center
Eindhoven, The Netherlands

Dr Robert F. LaPrade

Complex Knee and Sports Medicine Surgeon
The Steadman Clinic
Vail, US

Dr Steinar Johansen

Lovisenberg Deaconess Hospital, Oslo, Norway

Dr Thomas Harlem

Clinical Director of Surgery and Orthopedics
Consultant Orthopedic Surgeon
Haraldsplass Deaconal Hospital
Bergen, Norway

Andrew Amis FREng, DSc(Eng), PhD

Professor of Orthopaedic Biomechanics
Imperial College London, UK

Dr Robert Śmigielski

Orthopaedic and Sports Medicine
Carolina Medical Center
Warsaw, Poland

Learning Objectives

- Expand theoretical knowledge of knee ligament anatomy, biomechanics and current reconstruction techniques through a series of short lectures
- Gain further knowledge, through a series of wet lab cadaver demonstrations, of the surgically relevant anatomy and biomechanics
- Gain hands on practice of anatomic ACL, PCL, PLC, MCL, POL and MPFL and ALL reconstructions over 2 days in the wet lab, supervised by a faculty of internationally recognised experts

Participant Profile

Orthopaedic surgeons experienced in knee ligament reconstruction:

- Interested in furthering their knowledge of clinically relevant knee anatomy and ligament biomechanics.
- Interested in learning current state-of-the-art anatomic based knee ligament reconstructions
- Involved in the training of orthopaedic surgical residents, registrars and fellows.

Participants should have a good understanding of basic knee anatomy and biomechanics and should have the surgical skills necessary to perform arthroscopic knee ligament reconstructions and open ligament surgery.

The course will be conducted in English therefore a good command of the language is required.

Thursday, May 14, 2015

07:00 *Breakfast at the Hilton Hotel*

07:45-08:25 *Coach transfer from hotel to Smith & Nephew Surgical Skills Centre - arrival and registration*

Day 1

08:25 – 08:35	Welcome and Introduction		C Brown (UAE) J Robinson (UK) M Mulvey (S&N)
08:35 – 08:55	ACL Anatomy: Bundle Concept ACL Reconstruction - A changing paradigm	(via Skype/recorded)	F Fu (US)
08:55 – 09:00	ACL Anatomy: Ribbon concept		R Smigielski (PL)
09:00 – 09:10	Commentary: Bundles or ribbon does it really matter when you do surgery?		J Robinson (UK) C Brown (UAE)
09:10 – 09:20	ACL Biomechanics: What you need to know		A Amis (UK)
09:20 – 09:30	Anatomy and biomechanics of the ALL		A Getgood (CA)
09:30 – 09:40	Is the ALL the whole story?		A Williams (UK)
09:40 – 09:50	How do you best control the pivot shift?		A Amis (UK)
09:50 – 10:00	PCL Anatomy		R LaPrade (US)
10:00 – 10:10	PCL Biomechanics		A Amis (UK)
10:10 – 10:15	PCL reconstruction: Why I use a single bundle technique		K Lagae (BE)
10:15 – 10:20	PCL reconstruction: Why I use a double bundle technique		R LaPrade (US)
10:20 - 10:40	Discussion Q&A		
10:40 - 11:00	*Break*		
11:00 – 11:10	Anatomy of the medial side		R LaPrade (US)
11:10 – 11:20	Biomechanics of the medial ligaments		J Robinson (UK)
11:20 – 11:30	Surgical treatment of medial injuries: Current concepts		M Lind (DK)
11:30 – 11:40	Anatomy of the lateral side		C Brown (UAE)
11:40 – 11:50	Biomechanics of the PLC		A Amis (UK)
11:50 – 11:55	Point, Counter Point. Anatomic PCL and MCL/POL isn't worth the extra time and complexity; a modified Larson procedure and modified MCL procedure will work just fine		A Williams (UK)
11:55 – 12:00	Point, Counter Point. Anatomic PCL and MCL/POL reconstruction is necessary		R LaPrade (US)
12:00 – 12:05	Rebuttal		A Williams (UK)
12:05 – 12:10	Rebuttal		R LaPrade (US)
12:10 – 12:25	Discussion Q&A		

12:25– 12:35	Anatomy of the PFJ	P Thompson (UK)
12:35 – 12:45	Biomechanics of the PFJ	A Amis (UK)
12:45 – 12:55	Surgical management of patellar Instability: Current concepts	D Dejour (FR)
12:55 – 13:05	Discussion Q&A	

13:05 - 13:45 Lunch

13:45 - 15:30	**Lab Session 1**	**All**

15:30 - 15:45 Break

15:45 - 17:30	**Lab Session 2**	**All**

17:30 End of Day 1 - Coach back to the hotel
19:30 Course Dinner

Friday, May 15, 2015

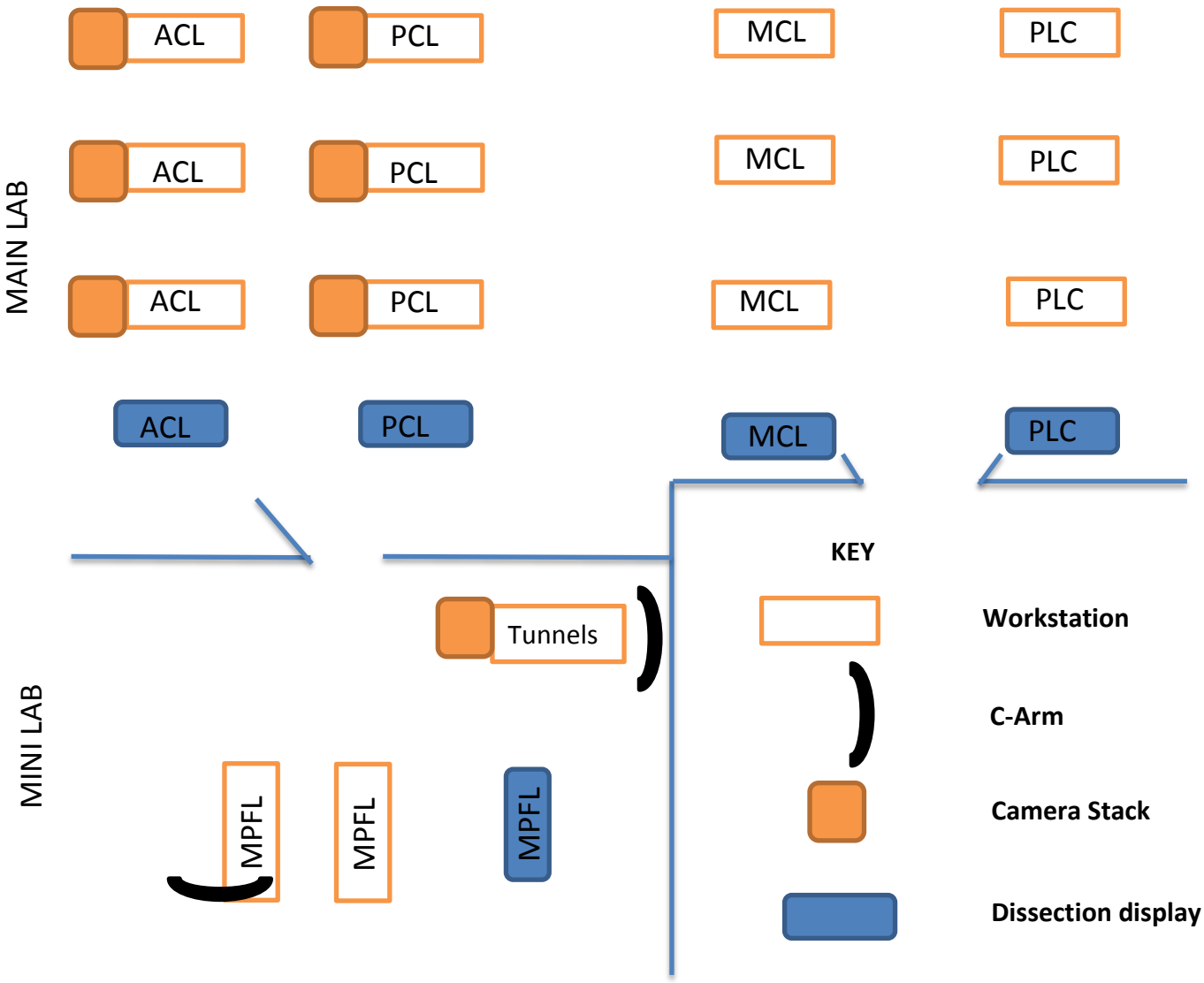
07:00 *Breakfast at the Hilton Hotel*

07:45-08:15 *Coach transfer from hotel to Smith & Nephew Surgical Skills Centre - arrival and coffee*

Day 2

08:15 - 10:00	**Lab Session 3**	**All**
10:00 - 10:15	*Break*	
10:15 - 12:00	**Lab Session 4**	**All**
12:00 - 12:45	*Lunch*	
12:45 - 14:15	**Lab Session 5**	**All**
14:15 - 15:00	Final discussion and debrief, course evaluation.	
15:00	*Course ends*	

Lab layout


MAIN LAB
ACL
PCL
MCL
PLC
ACL
PCL
MCL
PLC
ACL
PCL
MCL
PLC
ACL
PCL
MCL
PLC
MINI LAB
Tunnels
MPFL
MPFL
MPFL
KEY
Workstation
C-Arm
Camera Stack
Dissection display

Notes

Course Venue

Smith & Nephew Surgical Skills Centre
York Science Park
York, United Kingdom

Hotel Information

Hilton York Hotel
1 Tower Street
York, United Kingdom
Website www.hilton.com/york
Telephone +44 1904 648111

Accommodation for the nights of the 13 and 14 May are included in the registration fee. Additional nights can be booked for you however you will need to arrange payment of any additional nights with the hotel on departure.

Organisation and Course Registration

Katie Melia
Event Coordinator
Telephone +44 1904 824243
Email katie.melia@smith-nephew.com

Transfers

Nearest airports are Leeds Bradford (1 hour by car) and Manchester (2 hours by car)
Ground transportation to and from Leeds and Manchester Airport will be arranged. Please provide flight details on the booking form

Code of Ethics

All healthcare professionals must comply with their local guidelines and regulations regarding the costs associated with any meeting.

Smith & Nephew, Inc. is committed to following the relevant code of ethics and limits attendance at company sponsored events to healthcare professionals with a bona fide professional interest. Attendees are required to pay the appropriate spouse/guest fees in advance if they plan to bring a guest or a spouse to a meal function/reception.

Photography and Video

During this course/event, photographs may be taken and audio/visual video footage may be recorded.
We may use such photos/footage on the Smith & Nephew website and in communication and promotional material outlining our educational events and services.

By attending our course/event you are consenting to use of images of you as described above.

If you do not want us to use imagery or recordings in which you feature, please inform us in writing before or during the course/event.

If you have any questions about our use of images please contact us at education@smith-nephew.com.

For further information about how Smith & Nephew uses and protects your information, including images please read our privacy statement at www.smith-nephew.com/privacy

Smith & Nephew Surgical Skills Centre
York Science Park
York
United Kingdom

Smith & Nephew Education and Evidence
Learn more about our education and training opportunities
www.smith-nephew.com/education