



# Final Programme

## British Orthopaedic Association Annual Congress 2019

### New Horizons

10th - 13th September, ACC Liverpool

[boa.ac.uk/congress](http://boa.ac.uk/congress)



@BritOrthopaedic #BOAAC



British Orthopaedic Association



BritOrthopaedic



# GET INVOLVED IN THE BOA!

The BOA is currently recruiting to various voluntary roles, and we hope to inspire and encourage a wide range of applicants from among our membership across the Home Fellow and SAS Member grades. If you have an interest in trauma and orthopaedics that you'd like to pursue further as part of your national specialty body, this could be your chance to get involved and help shape our work!

Applications are particularly encouraged from currently under-represented groups in the BOA leadership structures including, but not limited to, women, BAME and LGBTQ+ members.



## COMMITTEE VACANCIES

This year the BOA has been working on a restructure of our committees, which deliver a large amount of the outputs that members will be familiar with, including BOASTs, other publications, and training events and initiatives. As a result of this restructure, applications are now open for vacant positions across all committees for three-year positions commencing January 2020.

- Posts are available in all of the following committees: Orthopaedic, Trauma, Research, Education and Careers, and Medico-legal.

## RSPA VACANCIES

The BOA and RCSEngland are seeking Regional Specialty Professional Advisors (RSPAs) for 10 regions across England and Wales, as a large number of the postholders have reached the end of their term.

- London (North East)
- South Central (North)
- South East Coast
- South Central (South)
- South West
- Wales (North)
- Yorkshire and The Humber (South)
- London (North West)
- East Midlands (South)
- East of England

## BOA REPRESENTATIVE ON JOINT COMMITTEE ON INTERCOLLEGIATE EXAMINERS (JCIE)

The BOA is seeking a new representative to sit on the JCIE for a period of five years from March 2020. The JCIE is responsible for the supervision of standards, policies, regulations and professional conduct of the Specialty Fellowship Examinations.

### Applicants must:

- Be a Home Fellow
- Have a licence to practise
- Hold a substantive (min 5 years) Consultant post in the NHS/Public Health Service (Ireland) or have held a substantive Consultant post within the past 5 years.
- (If appointed) have the approval of their Chief Executive or Medical Director to commit the time necessary to undertake their important educational role.

It would be desirable for you to be an existing member of the Panel of Examiners or have the examining experience, preferably MRCS or undergraduate.

To apply for any of these vacancies, please send in a CV and a covering letter (Word documents only) to [c.jones@boa.ac.uk](mailto:c.jones@boa.ac.uk) by the deadline of noon on 4th October 2019.

Find out more on our website at [www.boa.ac.uk/getinvolved](http://www.boa.ac.uk/getinvolved)

## President's message

Dear Friends and Colleagues,

### ***Welcome to the BOA Congress 2019 in Liverpool***

This is the 101st year of our organisation and following the celebration of our achievements over the last century, we now look forward again to our future and the future of our profession. The theme for Congress is 'New Horizons', an apt title for an event based in a seafaring city with a remarkable breadth of history, culture and ambition.



When we wrote to our patron, HRH Prince Charles, he challenged us on what we did for low income and Commonwealth countries. As a consequence, we have dedicated an early session to 'Global Orthopaedics' with speakers covering humanitarianism in disaster responses, developing health services in deprived and remote environments and how trainees can become involved in this work.

My guest lecturer is Professor Per Kjaersgaard-Andersen who will cover the topic of registries and how they have changed our practices. He is the immediate past president of EFORT, a specialist hip surgeon and past president of the Danish Orthopaedic Society.

I am delighted that the Robert Jones lecture will be delivered by Professor John Skinner. The Howard Steel lecturer is Brigadier Nicky Moffat who was the highest ranking female Army officer. She will give her perspective on strong leadership in driving change and achieving optimum performance.

We also have the Presidents of the Carousel group in attendance and they will be participating fully in the programme as well as delivering an interactive session on 'The Ageing Surgeon - What Everyone Needs to Know'.

The frontiers of our specialty have never been so broad or so exciting. We will be exploring the potential benefits of information technology, remote monitoring, artificial intelligence, machine learning, simulation, augmented reality and robotic surgery.

The specialist societies will present a mix of revalidation sessions, new information and cutting-edge research. The future of our specialty depends upon innovation in both the delivery of care and who delivers it. The workforce needs to be both diverse and inclusive. There is specific content for medical students, trainees and the other professions so necessary for developing a team that will provide a safe and efficient service. Once again, we will be providing the training to be an effective trainer and the Good Clinical Practice course.

Please take every opportunity to learn, network and make new friends and colleagues during your time in this friendliest of cities.

**Professor Phil Turner**  
**BOA President**

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## BOA Council 2019

### Officers

President	P G Turner	(Stockport)
Immediate Past President	A M Nanu	(Sunderland)
Vice-President	D J McBride	(Stoke-on-Trent)
Vice-President Elect	B Handley	(Oxford)
Honorary Treasurer	J A M Skinner	(London)
Honorary Secretary	D M Eastwood	(London)

### Elected Members

M Bowditch	(Ipswich)	2017 - 2019
L Breakwell	(Sheffield)	2017 - 2019
S L Hodgkinson	(Portsmouth)	2017 - 2019
R W Parkinson	(Liverpool)	2017 - 2019
P Giannoudis	(Leeds)	2018 - 2020
R Morgan-Jones	(Cardiff)	2018 - 2020
H Simpson	(Edinburgh)	2018 - 2020
D Tennent	(Surrey)	2018 - 2020
G Giddins	(Bath)	2019 - 2021
R Gregory	(Durham)	2019 - 2021
F Monsell	(Bristol)	2019 - 2021
A Stephen	(Derby)	2019 - 2021

### Ex-Officio Members

Chair, British Orthopaedic Directors Society	J Owen
Chair, Council of Management of the of Bone & Joint Journal	T J Wilton
Chair, Education and Revalidation Committee	H Tanaka
Chair, N Ireland Regional Orthopaedic and Trauma Committee	S Henderson
Patient Engagement	J Fitch
Chair, Research Committee	M Costa
Chair, Scottish Committee for Orthopaedics and Trauma	E R Dunstan
Chair, Speciality Advisory Committee in T&O	M Bowditch
Chair, Welsh National Specialist Advisory Group for T&O	S Hemmadi
President, British Orthopaedic Trainees Association	M Brown
Representative, Staff and Associate Specialist (SAS)	M Morgan
Representative, UKSSB	L Breakwell

### Honorary Post

Archivist	I B M Stephen
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## Awards and Prizes

The BOA is delighted to use the Annual Congress as an opportunity to publicise and celebrate the following awards granted by the Association in 2019:

### BOA Honorary Fellows

Professor Henrik Malchau  
Professor Martyn Porter  
Mr Ian Stephen  
Mr David Stanley  
Mr Alistair Stirling

### Presidential Merit Award

Mr David Limb  
Mr Rohit Kulkarni

### Robert Jones Essay Prize

Mr Piers Page

### Invited Guests

**APOA Federation Committee Chairman**  
**COA (China)**

**EFORT Immediate Past President**

**HKOA (Hong Kong) President**

**Hong Kong Young Ambassador**

**IOA (Irish) President**

**The Royal College of Surgeons of Edinburgh**

Dr Onder Aydingoz

Dr MD. Phd Fan Liu

Professor Per Kjaersgaard-Andersen

Dr K.M. Siu

Dr Amy Cheung Yim Ling

Dr Paraic Murray

Professor Michael Griffin OBE

### Carousel Presidents

**American Academy of Orthopaedic Surgeons (AAOS)**



President: Dr David Halsey

**American Orthopaedic Association (AOA)**



President: Dr Christopher D. Harner

**Australian Orthopaedic Association (AusOA)**



President: Dr David Martin

**Canadian Orthopaedic Association (COA)**



President: Dr Mark Glazebrook

**New Zealand Orthopaedic Association (NZOA)**



President: Mr Rod Maxwell

**South African Orthopaedic Association (SAOA)**



President: Dr Phillip Webster

## General Information

### Registration

The enquiry, online registration and on-site registration desks are located on the Galleria next to the entrance.

	Registration Opening Times	Exhibition Hall Opening Times
<b>Tuesday 10th September</b>	<b>07:30 - 17:30</b>	<b>07:30 - 17:00</b>
<b>Wednesday 11th September</b>	<b>07:30 - 17:15</b>	<b>07:30 - 17:00</b>
<b>Thursday 12th September</b>	<b>07:30 - 17:30</b>	<b>07:30 - 16:50 (Close of Exhibition)</b>
<b>Friday 13th September</b>	<b>07:30 - 13:30</b>	<b>Exhibition closed</b>

For security purposes and delegate management, delegates must wear their name badge at all times.

**To ensure an accurate record of your attendance, please ensure you scan your badge on arrival each day at one of the rescan registration desks.**

### Delegate Meeting Packs

**On arrival delegates will receive:**

- Name badge permitting access to all sessions
- Lanyard containing the Pocket Programme
- Delegate bag containing Final Programme, pen and notebook.

### Finding Your Way Around

**The venue - ACC Liverpool**

The Main Auditorium (Hall 1), Meeting Rooms 3A, 3B, 4, 11 and 12 are all located on the upper level.

**Prayer Room**

The prayer room is situated on the upper level, room 16.

**Mother and Baby Room**

The mother and baby room is situated on the upper level, room 15.

**Speakers Preview Room**

The media suite situated in Meeting Room 8 on the upper level is open daily at the following times:

- Tuesday 07:30 - 20:30
- Wednesday and Thursday 07:30 - 18:00
- Friday 07:30 - 16:00

(If you are presenting, please make sure you upload your presentation in good time before the start of the session. Where possible, please upload the day before.)

**Poster Display**

There are 17 categories of posters within the exhibition area in Hall 2, which will be displayed over three days. We request authors to remove their posters from the exhibition area on Thursday, no later than 16:50. Any posters remaining after this time can be collected from the registration area until 13:00 on Friday, after this time they will be destroyed. Posters by the Clinical Leaders Programme will be displayed in Hall 2 on Thursday 12th September only.

**Exhibition**

There are 80+ companies within the exhibition area in Hall 2. We would encourage all delegates to visit the exhibition stands, especially the BOA stand (88) located by the main entrance to Hall 2 at the bottom of the escalators.

**Cloakroom**

The cloakroom is located in the Galleria near to the entrance.

	Cloakroom Opening Times
<b>Tuesday 10th September</b>	<b>07:15 - 20:30</b>
<b>Wednesday 11th September</b>	<b>07:15 - 18:50</b>
<b>Thursday 12th September</b>	<b>07:15 - 19:00</b>
<b>Friday 13th September</b>	<b>07:15 - 16:30</b>

### Refreshments and Lunches

Tea and coffee will be served to all delegates during the scheduled networking breaks. Lunch is provided for delegates who pre-ordered and paid for their lunch online at the time of registration. When going for lunch at the lunch stations in Hall 2, you will need your badge which indicates what days you have paid for lunch. Without this you will not be able to collect your food.

**Catering at the ACC**

For those who have not pre-paid for lunch there are a number of paid for food stations in Hall 2 offering sandwiches, salads and hot food.



## General Information

### CPD Points and Certificate of Attendance

The CPD points are stated on the BOA website, delegates will be required to carry out their own self-accreditation.

A certificate of attendance is issued following the Annual Congress on completion of the evaluation form, which is sent via email to each delegate.

#### Travel Policy

Delegates are responsible for making their own travel and/or hotel arrangements. The BOA does not assume financial responsibility for penalties or expenses incurred by registrants who must cancel travel arrangements due to course cancellation.

#### Declarations of Interest

All those presenting at the BOA Congress will be asked to make their declarations of interest and display it on a slide at the start of their presentation, as discussed and agreed at the BOA AGM in 2015.

#### Other Information

The BOA does not accept liability or responsibility for third party exhibitors or their exhibits and does not endorse any of the products, items or processes exhibited.

#### In Case of an Emergency

Please note the various fire exits around you in case of an emergency. Listen to all public announcements and make your way carefully to the nearest fire exit if requested to do so.

If first aid is required, please ask a member of staff or venue host for help and assistance.

### BOA Annual Congress App

Enhance your delegate experience through the **official BOA Congress App** by:

- **Planning Ahead** - see programme, session and speaker info and bookmark your sessions in advance
- **Viewing Abstracts** - view the schedule for all podium presentations and access the list of posters
- **Networking** - view delegate list, interact with other attendees, keep in touch
- **Getting Involved** - post your comments, updates and share your experience
- **Meeting the Exhibitors** - industry details from exhibitors
- **Keeping up to Date** - live notifications for the duration the Congress

### Download the Congress App now



**Download the Congress App now** to your smartphones and tablets through the Apple Store and GooglePlay (search for BOA Annual Congress App).

To view the delegate list and connect with other delegates you will be asked to create a profile, please use the email address you registered with to login as you will be sent a verification code.

# BOA Annual General Meeting 2019

The Annual General Meeting of the Association will take place in Hall 4 of the ACC Liverpool, on Thursday 12th September 2019 from 13:00 - 13:45 under the Chairmanship of Professor Philip Turner, BOA President. The agenda is below.

**PROXY NOTICE: A member of the Association who is entitled to attend, speak and vote at the above mentioned meeting is entitled to appoint a proxy to attend and vote instead of him or her. For details, please see the note at the foot of this agenda.**

**PLEASE NOTE: All BOA members are permitted to attend the AGM; only Home Fellow members are entitled to vote.**

## AGENDA

**1. Membership Report** [see annex 1]

- a. Deaths
- b. Resignations
- c. New members
- d. Honorary Fellows

**2. Matters arising from 2018 AGM**

None

**3. Elections and Appointments**

- a. President: September 2021 - 2022

To report the result of the Trustees' ballot:

- **Professor John Skinner**

- b. Honorary Secretary: 2020 - 2022

To report the result of the Home Fellows' ballot:

- **Simon Hodgkinson**

- c. Council: 2020 - 2022

To report the result of the Home Fellows' ballot:

- **Colin Esler**
- **Anthony Hui**
- **Andrew Manktelow**
- **Ian McNab**

- d. Additional Trustees to Council: September 2019 - 2020 [see annex 2]

- To report the appointment of Deborah Eastwood, Honorary Secretary, as an additional Trustee for one year in accordance with Article 32 of the Memorandum
- To report the appointment of Bertie Leigh for one year as a Lay Trustee in accordance with Article 32 of the Memorandum

Both appointments have been made to support the ongoing development and enhancement of the BOA's governance processes, including bringing relevant (non-clinical) experience onto the Council. The role of the lay trustee will be reviewed in the year to assess impact for future governance.



## BOA Annual General Meeting 2019

### 4. Honorary Treasurer's Report and Financial Statements for 2018

- a. Annual Report of Trustees Financial Statements 2018 - see link below:  
[boa.ac.uk/annual-accounts](http://boa.ac.uk/annual-accounts)
- b. Resolution 1: To reappoint the Auditors for 2020 - Crowe Clark Whitehill
- c. Resolution 2: To approve the membership subscription rates for 2020 [see annex 3]

### 5. Membership Update and BOA Developments

### 6. Changes to Rules and Articles of Association

- a. Resolution 3 - 9: To approve changes to the Rules of the British Orthopaedic Association [see annex 4]
- b. Resolution 10 - 11: To approve changes to the Articles of Association of the British Orthopaedic Association [see annex 5]

### 7. President's report

### 8. Results of Resolutions

### 9. Any other business

### 10. Date of next meeting

BOA Annual Congress - 15th - 18th September 2020; Birmingham  
Under the Chairmanship of Mr Donald McBride.

### 11. Future BOA and Allied Meetings

BOA Annual Congress - 21st - 24th September 2021; Belfast  
Under the Chairmanship of Mr Bob Handley.

EFORT Congress - 10th - 12th June 2020; Vienna, Austria

### NOTE

BOA Home Fellows received the AGM notification and proxy form by post in advance of this meeting, explaining the arrangements for appointing a proxy. The BOA must be notified of any proxies at least 72 hours in advance of the meeting.

Items for discussion under 'Any other business' should preferably be advised to the Honorary Secretary (Deborah Eastwood) at least 72 hours in advance of the meeting.

## Guest Speakers

### Professor Matt Costa

#### BOA Research Committee Chair



Matt Costa PhD, FRCS (Tr&Orth) is Professor of Orthopaedic Trauma Surgery at the University of Oxford and Honorary Consultant Trauma Surgeon at the John Radcliffe Hospital, Oxford.

Matt's research interest is in clinical and cost effectiveness of musculoskeletal trauma interventions. He is Chief Investigator for a series of randomised trials and associated studies supported by grants from the UK NIHR, Musculoskeletal Charities and the Trauma Industry. His work has been cited widely, and informs many guidelines

from the National Institute for Health and Care Excellence.

Matt is Chair of the NIHR Clinical Research Network Injuries and Emergencies Specialty Group and the NIHR Musculoskeletal Trauma Trials Network. He is also a member of the NIHR HTA Research Board. He chairs the British Orthopaedic Association Research Committee and is the Specialty Lead in Orthopaedic Trauma for the Royal College of Surgeons of England. He is Associate Editor for Trauma and Research Methods at the Bone and Joint Journal.

Matt is the President of the Orthopaedic Trauma Society and President of the Global Fragility Fracture Network.

### James Hunter

#### Sir Walter Mercer Lecture



James Hunter is a Paediatric Trauma and Orthopaedic Surgeon at the Queen's Medical Centre, Nottingham, where he has been a consultant since 1995. He trained at Trinity College, Oxford and at King's College Hospital (University of London). His trauma and orthopaedic training was in London, at Chase Farm Hospital in Enfield, in Nottingham, at the Queen's Medical Centre and Harlow Wood Orthopaedic Hospital and at the Derbyshire Royal Infirmary. He undertook specialist paediatric orthopaedic training as National Fellow in Paediatric Orthopaedics at the Sheffield Children's Hospital in 1995.

He is a past President of the British Society for Children's Orthopaedic Surgery and was the chairman of the AO International Expert Group for Paediatrics from 1997 to 2016.

He publishes a bit (not too much), teaches quite a lot and takes an interest in the organisation of training serving on the T&O Specialist Advisory Committee for five years. He was responsible for the national recruitment of registrars over the last three years.

He enjoys a round of golf and village cricket. As a student he particularly enjoyed drama and revue, appearing on the fringe of the Edinburgh Festival and writing several hospital shows, but now finds the only opportunity for performance is to the meetings of learned societies.

### Professor Per Kjærsgaard-Andersen

#### President's Guest Lecturer



Professor Kjærsgaard-Andersen is currently a Senior Consultant Orthopaedic Surgeon and the Head of Section for Hip and Knee Replacement in the Department of Orthopaedics at Vejle Hospital in Denmark. He is also an Assistant Professor of Orthopaedic Surgery and regularly lectures medical students at Vejle Hospital and at South Danish University.

Professor Kjærsgaard-Andersen graduated from Aarhus University in 1982 with a license to practice medicine in Denmark, and in 1995 was certified as an Orthopaedic Surgery Specialist by the Danish National Board of Health. His area of speciality is hip replacement with a particular interest in non-cemented primary total hip replacements, conservative hip surgery in younger patients and complicated revision total hip replacement with big bone loss.

He has been a co-opted member of the EFORT Executive Committee since 2007 and was Chairman of the local organising committee of the 12th Annual EFORT Congress 2011. He is Past President of the Danish Orthopaedic Society, Secretary General in EFORT from 2012 - 2016 and is the Immediate Past President of EFORT. Since 2008, he has been Chairman of the National Board of Health task group concerning specialist planning in orthopaedic surgery.

Professor Kjærsgaard-Andersen has to date published 112 Medline indexed scientific articles in international peer reviewed medical journals. He has given over 600 presentations at national and international meetings.

In addition, he is Editor-in-Chief of Orthopaedics Today Europe as well as reviewer and editorial board member for a number of other renowned orthopaedic journals.

## Guest Speakers

### Professor Henrik Malchau Charnley Lecture



Henrik Malchau was born in 1951, in Sæby, a small town in Northern Jutland in Denmark, as the middle of three children. He enrolled in medical school at the University of Aarhus 1969. During medical school he got a strong commitment for healthcare in the third world. Consequently he took a one-year sabbatical and worked in a project on prophylactic health care for bushmen in central Kalahari, Botswana. That opened his eyes for healthcare outside of Denmark and at graduation from medical school he did the EMFCG exam, this would later open up for a position at Massachusetts General Hospital (MGH) and Harvard Medical School (HMS). During medical school he spent summer vacations as an intern in a small hospital in Lysekil on the Swedish west coast. He met his wife since almost 42 years there and decided to move to Sweden for his clinical education. He did his internship and residency shared between Uddevalla and Sahlgren hospital and in 1983 he got a position as Attending Orthopaedic Surgeon at Sahlgrenska University Hospital in Göteborg, Sweden.

With Peter Herberts as mentor, he got involved in the Swedish Hip Arthroplasty Register, where he also had a leadership role for many years. The register collected nationwide information on all total hip arthroplasties (THA) and subsequent complications in Sweden. He has acted as advisor for setting up registries in Australia, Canada, New Zealand, England and USA. Parallel to this he was also engaged in Radio Stereo Metric (RSA) analyses of implant stability and polyethylene wear in THA. These research efforts were summarized in his PhD thesis in 1995, 'On the Importance of Stepwise Introduction of New Hip Implant Technology'. At the AAOS meeting in 1996 Dr Harris took contact with him after a presentation and that led to a sabbatical 2000 - 2001 at the Harris Lab, at MGH. That subsequently ended up with an invitation to get a position as Attending Surgeon at MGH and also as co-director at the Harris Orthopaedic Laboratory, a joint position with Orhun Muratoglu. During 10 years in these positions he continued his efforts to improve the evidence base for new total joint implants by use of RSA and registries.

He was recognised for his efforts by an appointment as full professor at Harvard Medical School and also granted the Alan Gerry chair. He has published over 250 peer-reviewed papers, been Presidential Guest Lecturer at the US Hip Society twice, and received three Hip Society awards. He has been a co-founder and President of the International Society for Arthroplasty Registries, at present Secretary/Treasurer, is President for the International Hip Society and honorary fellow of the British Hip Society, the European Federation of Orthopaedics and Traumatology (EFORT), the Australian Orthopaedic Association and the British Orthopaedic Association. He was awarded the Kappa Delta Award from AAOS in 2017 and has received several other awards. Since 2017, he again holds the position as Chief Orthopaedics, Sahlgrenska University Hospital, Gothenburg.

### Nicky Moffat CBE Howard Steel Lecture



Nicky Moffat was Britain's highest ranking female Army officer, retiring as a Brigadier. In almost thirty years of service she held a range of personnel, administration and leadership roles. Joining the Army as a second lieutenant, Nicky rose quickly through the ranks of the Adjutant General's Corps to the rank of Brigadier. With women excluded from serving on the front line, Nicky served in various support, training and administration roles specialising in leadership duties. As Company Commander in the Army Training Regiment, Nicky led a team of instructors responsible for the induction of recruits into the Army before moving into management and training for all Army Land Forces across the world. She worked at the Ministry of Defence where as well as strategy, policy and finance roles, she worked as Private Secretary to Secretary of State for Defence Geoff Hoon. She formulated and communicated the Government agenda on defence, including on operations in Iraq, Afghanistan, and Sierra Leone.

Throughout her career, Nicky has led diverse groups in an organisation both steeped in tradition but subject to rapid and significant changes of policy, technology and resources. She has taken leading roles in administration, planning and training including instructing officers in the art of leadership. She gives a perspective on the role of strong leadership in driving inclusive change and optimum performance. As well as leadership, Nicky also addresses training, career development, and women in leadership roles and in organisations more generally. She advised Army Board members on the retention and progression of female talent and now offers practical advice for employers who are looking to attract, develop and retain diversity of talent. After leaving the Army she has worked to bring her leadership and talent expertise to the private sector, and was also one of the instructor/assessors on BBC2's Secret Agent Selection: WW2 which saw members of the public undergo the Special Operations Executive recruitment process of the 1940s.

## Guest Speakers

### Professor John Skinner Robert Jones Lecture



John is a Consultant Orthopaedic Surgeon and Professor of orthopaedic surgery at the Royal National Orthopaedic Hospital, Stanmore.

He is a hip and knee replacement surgeon, the Clinical lead for Joint Replacement and also the Director of Research at Stanmore.

In 2004 he was awarded the ABC (American, British, Canadian) Travelling Fellowship. He jointly established the London Implant Retrieval Centre in 2007, which has collected 8,000 failed orthopaedic implants and has published 130 papers on this subject. He provided clinical leadership on metal bearing hips during difficult times for patients and surgeons and chaired the British Orthopaedic Association (BOA) and MHRA Expert Advisory Committees on Metal bearing hips for 10 years. In 2012 he gave evidence and advised the Federal Drug Administration (FDA) USA on matters related to metal-on-metal bearing hips. In 2012 he gave the Presidential Guest Lecture of the American Association of Hip and Knee Surgeons (AAHKS) at the American Association of Orthopaedic Surgeons meeting San Diego 2012 on metal bearing hips.

He has served as President of the British Hip Society. He currently acts as the Honorary Treasurer of the BOA and sits on the NICE guideline committee on joint replacement surgery. He is a member of the Editorial Board of the Bone and Joint Journal and reviews papers for seven journals worldwide.

### David C. Templeman BOA Trauma Guest Speaker Periprosthetics and Fragility Femur (OTS Revalidation 1) Scientifically Speaking (OTS Revalidation 2) Challenges in the UK and USA; Psychology and Consent in Trauma (OTS Networks 2) Modernising Hip Fracture Care (NHFD)



Dr Templeman graduated from Medical School at The University of Iowa. He completed his orthopaedic residency at the University of Wisconsin, Madison and his Fellowship in Orthopaedic Trauma was at the University of California Davis Medical Center in Sacramento.

Currently he is a member of the Department of Orthopaedic Surgery at Hennepin County Medical Center and a Professor of Orthopaedic Surgery at the University of Minnesota, where he has been teacher of the year. He is the Director of the Trauma Fellowship Program at Hennepin County Medical Center.

Dr Templeman is a Past President of the Orthopaedic Trauma Association, Past Chair of the Board of Specialty Societies and currently serves on committees with the American Academy of Orthopaedic Surgeons and the Orthopaedic Trauma Association.

Dr Templeman's interests include his lifelong focus on the treatment of pelvic and acetabular fractures and complex fractures of the lower extremity. Clinical activities include poly-trauma patients, pelvic, and lower extremity fractures. He has numerous publications. Dr Templeman lives in Long Lake, Minnesota with his family. His personal interests include competitive sailing, cross-country skiing, and hiking.

## Guest Speakers

### Professor Jan Victor Adrian Henry Lecture



Professor Jan Victor obtained his medical degree in 1985 from the University of Leuven and his board certification in orthopaedic surgery on 6th August 1991. His clinical career is dedicated to the treatment of knee pathology, including arthroscopy, soft tissue procedures, osteotomy and joint reconstruction.

From 1991 to 1995, he was staff member at the Department of Orthopaedics Surgery at Leuven University Hospitals. From 1995 to 2011, he was staff member of the Department of Orthopaedics Surgery at St-Lucas General Hospital, Bruges, where he became head of the department in 2010. In 2009 he obtained his PhD with the thesis 'A Comparative Study on the Biomechanics of the Native Human Knee Joint and Total Knee Arthroplasty'. In 2011, he was appointed Professor at Ghent University and Chairman of the Department of Orthopaedic Surgery and Traumatology at the Ghent University Hospital.

He has published in a large number of international peer-reviewed journals, published several books and wrote multiple chapters on knee pathology and surgery in orthopaedic handbooks. He is a reviewer for a significant number of peer-reviewed journals in the field of orthopaedics and biomechanics.

He was President of the Belgian Society of Orthopaedic Surgery and Traumatology in 2002 and 2003. He is the founding member of the Belgian Knee Society (BKS) of which he was President from 1999 to 2001. Since 2005, he has been an active member of the American Knee Society. He was President of the European Knee Society in 2016 (EKS). He is an honorary lifetime member of the International Society for Technology in Arthroplasty (ISTA). He is a member and Scientific Advisor of the European Federation of National Associations of Orthopaedics and Traumatology (EFORT) and active member of the European Society for Sports Traumatology, Knee Surgery and Arthroscopy (ESSKA), the International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), and the American Association of Orthopaedic Surgeons (AAOS). He organised multiple national and international congresses and participated as a speaker at numerous orthopaedic meetings worldwide.

### Professor Hans Zwipp Naughton Dunn Lecture



Professor Hans Zwipp is recognised internationally as a leader in the field of Trauma and education. As Chairman of the Department of Trauma at Dresden, he transformed the management particularly of lower limb trauma through robust research and innovation. He was the Founding Chairman of the Foot and Ankle Expert Group of the AO Foundation and during his 12-year term, led on the development of a comprehensive foot classification system as well as the implants for foot trauma that we are all familiar with today.

His contribution to the advancement of trauma surgery has been recognised by the German Trauma Society with numerous awards.

During his career, he has been a leader in the field of scientific research and clinical innovation in the management of calcaneal fractures and we are privileged that he will be delivering the Naughton Dunn lecture on the 'History of Calcaneal Fracture Management'.

## Tuesday 10th September

Time	HALL Main Auditorium <b>1</b>	HALL <b>3a</b>	HALL <b>3b</b>
07:30	Registration		
08:30 - 10:00	Collaborative Working OTS Trauma Networks 1	Global Orthopaedics	Bone and Soft Tissue Tumours for the General Orthopaedic Surgeon BOOS Revalidation
10:00 - 10:30	Tea and Coffee		
10:30 - 12:00	Changing Clinical Practice - Research Updates OTS	Orthopaedics in the Middle East WOC Revalidation	Quality Improvement in Surgical Teams Collaborative  QIP Free Papers
12:00 - 12:10	Relocate to Main Auditorium		
12:10 - 12:30	President's Welcome		
12:30 - 13:15	Howard Steel Lecture Nicky Moffat CBE		
13:15 - 14:15	Lunch		
14:15 - 15:45	Periprosthetics and Fragility Femur OTS Revalidation 1	What's New: Developments with a Focus on Continuous Improvement NJR	BORS, BASK and BHS: Pre-arthroplasty Options for OA of the Hip and Knee BORS Revalidation
15:45 - 16:15	Tea and Coffee		
16:15 - 16:45	Proving That What We Do Makes a Difference: Trauma and Orthopaedics Now and in the Future Professor Matt Costa		
16:50 - 18:00	Unicondylar Knee Replacement - Let's Discuss the Issues? BODS Revalidation	Orthopaedics and Machine Learning: What the Future Might Hold	
18:00 - 19:30	BOA Welcome Drinks Reception		



## Tuesday 10th September

HALL 4	HALL 11	HALL 12
Registration		
Hand Free Papers	Periprosthetic Joint Infection Instructional Course	Hip Free Papers
Tea and Coffee		
Current Concepts in Scaphoid Fractures BSSH Revalidation	Periprosthetic Joint Infection Instructional Course	Reconstruction or Amputation? Improving Decisions and Improving Outcomes CSOS Revalidation
Relocate to Main Auditorium		
President's Welcome		
Howard Steel Lecture Nicky Moffat CBE		
Lunch		
Oncology Free Papers	Mental Health is all of our Business ARMA	Basic Science Free Papers
Andrew Sprowson Memorial Lecture		
Tea and Coffee		
Proving That What We Do Makes a Difference: Trauma and Orthopaedics Now and in the Future Professor Matt Costa		
SAS Surgeons Ask the BOA President SAS Revalidation	Scientifically Speaking OTS Revalidation 2	Spine Free Papers
		Spinal GIRFT Update: Learning Points for a General Orthopaedic Surgeon
BOA Welcome Drinks Reception		

## Wednesday 11th September

Time	HALL Main Auditorium 1	HALL 3a	HALL 3b
07:30	Registration		
08:30 - 10:00	BOFAS and OTS: Foot and Ankle Conundrums OTS Revalidation 3	Knee Free Papers	The Ageing Surgeon: What Everyone Needs to Know The Carousel Session
10:00 - 10:30	Tea and Coffee		
10:30 - 12:00	Preventing and Managing Problems OTS Revalidation 4	Robotics: The Current State of the Technology CAOS UK Revalidation	Challenges and Controversies in Trauma BIOS Revalidation
12:00 - 12:10	Relocate to Main Auditorium		
12:10 - 12:40	President’s Guest Lecture Professor Per Kjaersgaard-Andersen		
12:40 - 13:40	Lunch		
13:40 - 14:10	Robert Jones Lecture Professor John Skinner		
14:10 - 14:20	Relocate to Session Rooms		
14:20 - 15:50	Early Revision Following THA: Prevention and Treatment BHS Revalidation 1	Fraud Awareness	Innovation in Education Free Papers
			Curriculum Update
15:50 - 16:20	Tea and Coffee		
16:20 - 17:50	Forty years’ experience of a National Registry Charnley Lecture	Foot and Ankle Free Papers	Simulation in Education Free Papers
	Non-Arthroplasty Hip Surgery BHS Revalidation 2		Provision of Simulation in the UK
	BOA Council and Invited Guests’ Dinner		

## Wednesday 11th September

HALL 4	HALL 11	HALL 12
Registration		
Best of the Best	How to Survive a Weekend On Call BSCOS Revalidation	Early Osteoarthritis in the Sportsperson BOSTAA Revalidation
Tea and Coffee		
Best of the Best	Paediatric Free Papers	Sports Trauma and Arthroscopy Free Papers
		Sports Trauma BOSTAA Revalidation
Relocate to Main Auditorium		
President's Guest Lecture Professor Per Kjaersgaard-Andersen		
Lunch		
Robert Jones Lecture Professor John Skinner		
Relocate to Session Rooms		
Ortho Family Fortunes BOTA Revalidation	Optimising Your Chances of Publication The Bone & Joint Journal	Trauma Free Papers
		The History of the Victoria Cross - Harold Ackroyd and other VC Heroes
Tea and Coffee		
The New Curriculum - What You Should Be Prepared For BOTA/TPD	BLRS Free Papers	Trauma Free Papers
	Framing the Future; Updates in Limb Reconstruction BLRS Revalidation	
BOA Council and Invited Guests' Dinner		

## Thursday 12th September

Time	HALL Main Auditorium 1	HALL 3a	HALL 3b
07:30	Registration		
08:30 - 10:00	Management of Acute Knee Injuries BASK Revalidation 1	BTS Revalidation	Adult Flatfoot BOFAS Revalidation
	Contemporary Knee Replacement Adrian Henry Lecture		
10:00 - 10:30	Tea and Coffee		
10:30 - 12:00	Management of the Infected Total Knee Replacement BASK Revalidation 2	BTS and OTS: When Things Crop Up On Call OTS Hot Topics	Adult Flatfoot BOFAS Revalidation
			History of Calcaneal Fracture Treatment Naughton Dunn Lecture
12:00 - 12:10	Relocate to Main Auditorium		
12:10 - 12:40	Sir Walter Mercer Lecture Mr James Hunter		
12:40 - 13:00	2019 Awards and Medals		
13:00 - 14:30	Lunch		
14:30 - 15:00	President's Handover Professor Phil Turner to Mr Don McBride		
15:00 - 15:10	Relocate to Session Rooms		
15:10 - 16:20	Burn Out...Time to Take Action Dame Clare Marx	Modernising Hip Fracture Care NHFD	Being an Expert Medico-legal 1
16:20 - 16:50	Tea and Coffee		
16:50 - 18:00	Challenges in the UK and USA; Psychology and Consent in Trauma OTS Networks 2	General Free Papers	Profile of Litigation (Negligence) for Orthopaedic Trauma: Has Anything Changed Medico-legal 2
		Hong Kong Young Ambassador Presentation	

## Thursday 12th September

HALL 4	HALL 11	HALL 12
Registration		
An Overarching View of Spinal Conditions Spine Revalidation 1	Upper Limb and Paediatrics BJ360 Revalidation	The Things Surgeons and Physiotherapists Should be Aware of ATOCP
Tea and Coffee		
An Overarching View of Spinal Conditions Spine Revalidation 2	Upper Limb and Paediatrics BJ360 Revalidation	Topical Orthopaedic Issues ATOCP
Relocate to Main Auditorium		
Sir Walter Mercer Lecture Mr James Hunter		
2019 Awards and Medals		
AGM (13:00 - 13:45)	Lunch	
President's Handover Professor Phil Turner to Mr Don McBride		
Relocate to Session Rooms		
Interactive Spinal Sessions Spine Bootcamp	Elbow Trauma BESS Revalidation	Physiotherapy Free Papers ATOCP
Tea and Coffee		
Spine Instant Updates	Shoulder and Elbow Free Papers	Virtual Consultations Debate - The Way Forward? ATOCP

## Friday 13th September

Time	HALL Main Auditorium <b>1</b>	HALL <b>3a</b>	HALL <b>3b</b>
07:30	Registration		
08:30 - 10:00	Good Clinical Practice (GCP) Training	Non-Technical Skills (NOTTs RCSEd) (Pre-registration only)	Clinical Examination Course (Pre-registration only)
10:00 - 10:30	Tea and Coffee		
10:30 - 12:00	Good Clinical Practice (GCP) Training	Non-Technical Skills (NOTTs RCSEd) (Pre-registration only)	Clinical Examination Course (Pre-registration only)
12:00 - 13:00	Lunch		
13:00 - 16:00			Clinical Examination Course (Pre-registration only)
Close			



## Friday 13th September

HALL 4	HALL 11	HALL 12
Registration		
Medical Students' Session	Practicalities of Coding HRGs and Tariff	TOCS and TOES (Pre-registration only)
Tea and Coffee		
Medical Students' Session	Practicalities of Coding HRGs and Tariff	TOCS and TOES (Pre-registration only)
Lunch		
Medical Students' Session		TOCS and TOES (Pre-registration only)
Close		

## Session Briefs

### Tuesday 10th September

**08:30 - 10:00**

**Main Auditorium**

#### **Collaborative Working - OTS Networks 1**

**Co-Chairs:**

**Paul Dixon, Jayne Ward and Daniel Engelke**

The two trauma network sessions at the 2019 conference will focus on collaborative working, looking at the trauma unit role as well as that of the MTC. We also have a session looking at challenges in the delivery of trauma care - including consent in unplanned surgery. These two excellent sessions have been organised with collaboration between the BOA Trauma Group and the Orthopaedic Trauma Society.

**08:30 - 10:00**

**Hall 3a**

#### **Global Orthopaedics**

**Co-Chairs:**

**Professor Phil Turner and Deepa Bose**

This session will explore the diverse ways that we can have an impact on the global orthopaedic and trauma burden through a series of lectures and a question and answer panel.

The objectives for the session are:

- To understand the breadth and depth of trauma and orthopaedic conditions in disasters and low income or remote communities with limited resources
- To gain knowledge of the ethics and impact of interventions in global orthopaedics
- To consider how individuals and organisations can collaborate to address the inequalities in global healthcare provision.

**08:30 - 10:00**

**Hall 3b**

#### **Bone and Soft Tissue Tumours for the General Orthopaedic Surgeon: How to Diagnose, Manage and Avoid Malpractice Suits - BOOS Revalidation**

**Chair:**

**Professor Robert Ashford**

This revalidation session reviews the most common bone and soft tissue tumours that present to the

general orthopaedic surgeon. Investigation strategies for suspicious lesions, management of incidental lesions and when to refer on to the musculoskeletal oncologist will be discussed. Examples of pitfalls and management errors will be presented.

**08:30 - 10:00**

**Hall 4**

#### **Hands Free Papers**

**08:30 - 10:00**

**Hall 11**

#### **Periprosthetic Joint Infection Instructional Course**

**Chair:**

**Rhidian Morgan-Jones**

The Periprosthetic Joint Infection Instructional lectures are aimed at all consultants and trainees as an update on the diagnosis and management of this difficult area. The speakers will address all major joints with particular focus on the acute on call management, the importance of the MDT, as well as increasing subspecialty guidelines and referral pathways.

**08:30 - 10:00**

**Hall 12**

#### **Hip Free Papers**

**10:30 - 12:00**

**Main Auditorium**

#### **Changing Clinical Practice - Research Updates - OTS**

**Chair:**

**Will Eardley**

Will Eardley will be chairing this year's Orthopaedic Trauma Society Research session aimed at changing clinical practice. We have a great programme looking at key clinical trials that have recently come out and how they will impact directly on your day to day clinical work - not to be missed!

## Session Briefs

**10:30 - 12:00**

**Hall 3a**

### **Orthopaedics in the Middle East - WOC Revalidation**

**Co-Chairs:**

**Steve Mannion and Deepa Bose**

World Orthopaedic Concern UK presents a Middle East themed session, bringing together orthopaedic surgeons who are involved in regular humanitarian work in the region. Graeme Groom and Sarah Phillips from the King's College Hospital limb reconstruction service have visited Gaza for several years, and started a now well-established orthoplastic service in two hospitals there. Asan Rafee from Salford works to reconstruct severely injured limbs in besieged Syrian communities. Moez Zeiton is an ST6 registrar in the North West, and shares his experience in Iraq and Libya. Jim Turner has worked in several developing countries including Ethiopia and Malawi, but tells us about his work treating clubfoot in Baghdad. Professor Deirya Kader works for the International Committee for the Red Cross (ICRC) in Lebanon, and also works for a charity in Iraq.

**10:30 - 12:00**

**Hall 3b**

### **Quality Improvement in Surgical Teams Collaborative**

**Chair:**

**Dominic Inman**

The Quality Improvement in Surgical Teams Collaborative Trial is a cluster randomised controlled trial running in partnership with the BOA, NHS Improvement, Northumbria NHS Foundation Trust and industry. It is ran from the BOA Orthopaedic Surgical Research Centre (BOSRC) at York Trials Unit and aims to test the effectiveness of quality improvement collaboratives in implementing large-scale change at pace in the NHS.

We are working with 28 volunteer NHS Trusts randomised into one of two parallel quality improvement collaboratives, both of which aim to reduce complications following elective, primary hip or knee arthroplasty. One group, QIST anaemia, focuses on improving pre-operative anaemia screening and optimisation, the other, QIST infection, focuses on improving MSSA screening and decolonisation.

The collaborative programmes provide teams with tools for developing and implementing improvements within their Trust. These are delivered through a series of face to face learning events and a framework of coaching, peer and expert support throughout the programme. All of which is backed up by data tracking each individual team's improvement journey.

The first round of the QIST collaboratives is almost complete and was undertaken as part of a national cluster-randomised controlled trial. All Trusts taking part have now introduced one of the two preoperative initiatives within their Trusts and as a group are regularly screening over 80% of patients. To date, over 16,000 patients have now received a potent patient safety package as part of QIST.

A further series of anaemia and MSSA collaboratives are starting in November 2019. If you would like further information on these or the QIST trial contact Gillian. Davis@nhct.nhs.uk or visit [www.qist.org.uk/#clinical-trials](http://www.qist.org.uk/#clinical-trials).

**10:30 - 12:00**

**Hall 3b**

### **QIP Free Papers**

**10:30 - 12:00**

**Hall 4**

### **Current Concepts in Scaphoid Fractures - BSSH Revalidation**

**Chair:**

**Daniel Brown**

In this revalidation session a group of expert hand surgeons will cover all aspects of the management of scaphoid fractures. The session is aimed primarily at non-hand specialists and will be ideal for general trauma surgeons working in fracture clinic and trainees of all levels. There has been a great deal of new research published over the last few years which has completely changed how these injuries should be managed and this session will explain how these changes can be adopted within a standard fracture clinic.

## Session Briefs

**10:30 - 12:00**

**Hall 11**

### **Periprosthetic Joint Infection Instructional Course**

**Chair:**

**Rhidian Morgan-Jones**

The Periprosthetic Joint Infection Instructional lectures are aimed at all consultants and trainees as an update on the diagnosis and management of this difficult area. The speakers will address all major joints with particular focus on the acute on call management, the importance of the MDT, as well as increasing subspecialty guidelines and referral pathways.

**10:30 - 12:00**

**Hall 12**

### **Reconstruction or Amputation? Improving Decisions and Improving Outcomes - CSOS Session**

**Co-Chairs:**

**Jon Kendrew and Ian Winson**

The injuries that are potentially reconstructable have become more complex over recent years. Systems that were developed to help surgeons make these difficult decisions have shown to be unhelpful, furthermore they are designed to determine whether injured limbs could be reconstructed. There is evidence from studies looking at patient reported outcomes that some patients with 'successfully' reconstructed limbs have a worse outcome than those who lose their limb after 'failed' salvage. Surgeon Commander Jowan Penn-Barwell will argue that surgeons should not just ask could a limb be reconstructed but should it be.

However, emerging technologies are shifting patient's recovery, traditionally patient with salvaged limbs received far less rehabilitation than amputees-creating bias in comparison of outcomes. Dynamic foot-ankle orthotics with specialist rehabilitation mean that patients with severe hind foot and ankle injuries are now able to perform high impact activities without pain. Surgeon Lieutenant Commander Louise McMenemy discusses results in British Military Casualties that show that their use can tilt the outcome balance toward retaining limbs after severe injury.

Many of the challenges of rehabilitation after amputation involve the transmission of forces from through the residual limb to the prosthesis-sores, heterotopic ossification and short stumps make this

painful and difficult. Osseous integration offers the attractive possibility a direct articulation between the skeleton and the prosthesis. Group Captain Jon Kendrew presents his series of single stage implantation in bilateral transfemoral amputees and discusses how this technology can be implemented more widely.

**12:30 - 13:15**

**Main Auditorium**

### **Howard Steel Lecture**

**Guest Lecturer:**

**Nicky Moffat CBE**

**14:15 - 15:45**

**Main Auditorium**

### **Periprosthetics and Fragility Femur - OTS Revalidation 1**

**Co-Chairs:**

**Tim Chesser and Daniel Engelke**

The OTS trauma revalidation sessions open with some of the big questions that need answering: are nails for hip fractures really that bad? What does the evidence say around fragility femoral fracture rehab and does that tally with the clinical experience? Do you want an update on distal femoral fractures and periprosthetic femoral fractures? Then this OTS revalidation session is a must. We include a view from the BOA guest trauma speaker David Templeman from the USA, as well as our specialist rehabilitation experts in the UK.

**14:15 - 15:45**

**Hall 3a**

### **What's New: Developments with a Focus on Continuous Improvement - NJR**

**Chair:**

**Tim Wilton**

NJR's session includes eight different topics within the theme of continuous improvement. The session starts with the official launch of NJR's Report AR16 and a presentation on the key findings and highlights from analysis of the data.

Presenters will showcase how new developments are enhancing both the quality and the wider use of NJR's rich data set for hospital staff, clinicians and patients alike. The new patient decision aid tool will

## Session Briefs

be demonstrated, along with some feedback from patients who have benefitted from using it. Data Quality Automisation will be covered as this goes live across both NHS trusts and the independent sector early next year and greatly impacts on NJR's quality standards and thus patient safety. Surgeon level PROMs reach the NJR feedback for the first time and surgeons can learn how their data will look.

The second part of the session will highlight the effect of complications on patients, with a scene-setting piece on infections and how they affect the lives of our patients.

For the first time the NJR outlier analysis will be based upon the last ten years of registry data. We discuss the pros and cons of this, see how it looks and hear how one unit successfully responded to outlier status.

Finally NJR's Medical Director, Tim Wilton, will enlighten delegates on the process and considerations of the Elective Care Reviews.

**14:15 - 15:45**

**Hall 3b**

### **BORS, BASK and BHS: Pre-arthroplasty Options for OA of the Hip and Knee - BORS Revalidation**

**Co-Chairs:**

**Professor Richie Gill and Ines Reichert**

Pre-arthroplasty options for OA of the hip and knee, the purpose of this session is firstly how to identify patients in the current treatment gap, and then an update on the options for non-arthroplasty treatment for hip and knee OA. This BORS session is being jointly run with the British Association for Surgery of the Knee and the British Hip Society.

**14:15 - 15:45**

**Hall 4**

### **Oncology Free Papers**

**14:15 - 15:45**

**Hall 4**

### **Andrew Sprowson Memorial Lecture - Clinician Scientists in Orthopaedics - A Luta Continua!**

**Guest Lecturer:**

**Kenneth Rankin**

This lecture will cover my story of progression through orthopaedic training and then into an Academic Consultant appointment while trying to keep up a presence in the research laboratory. I will highlight the common features of tackling laboratory experiments and the clinical practice of orthopaedic oncology - these disciplines are not as discrete as they may appear. Pursuing a career as a Clinician Scientist is not easy, however the rewards are great and I will discuss strategies to bring on the next generation of academic orthopaedic surgeons who will not just spend a short time in the laboratory but will incorporate basic science into their long term careers.

**14:15 - 15:45**

**Hall 11**

### **Mental Health is All of Our Business - ARMA**

**Chair:**

**Sue Brown**

Depression and anxiety are common comorbidities amongst people with MSK conditions. There is a complex interrelationship, with MSK conditions causing anxiety and depression, whilst depression and anxiety make pain feel worse. Pain, mental health and disability are strongly linked, so not recognising or treating one can impact the others greatly.

- Depression is four times more common among people in persistent pain compared to those without pain
- Around 20% of people with osteoarthritis experience symptoms of depression and anxiety
- Back pain is 50% more common in people with symptoms of depression

Because of this, the Arthritis and Musculoskeletal Alliance (ARMA) is making mental health a priority for 2019.

Every healthcare professional with a patient with a chronic MSK condition has a role in addressing this. Professionals need an understanding of mental health and the ability to refer to appropriate support to enable them to do this effectively. Mental health is all

## Session Briefs

of our business. We should ask about emotional and psychological wellbeing at every appointment.

The session will discuss how mental health impacts in orthopaedics, from a trauma, elective surgery, patient and psychology point of view, as well as what ARMA plans to do to improve mental health support from people with MSK conditions.

**14:15 - 15:45**

**Hall 12**

**Basic Science Free Papers**

**16:15 - 16:45**

**Main Auditorium**

**Proving That What we do Makes a Difference:  
Trauma and Orthopaedics Now and in the Future**

**Chair:**

**Professor Matt Costa**

“Do you think about the ‘evidence’ behind your practice?”

“When you use an implant during surgery, do you think about what it costs?”

“Do you think about the broader cost of your work to the NHS and society?”

“Is the cost-effectiveness of an intervention a part of your decision-making when you are consulting with a patient?”

Many surgeons would answer ‘yes’, ‘sometimes’, ‘no’ and ‘definitely no’...

Surgeons are trained to consider which interventions work best (evidence) and to discuss these interventions in the context of the patient’s own experience and priorities (shared decision-making). Besides, each surgical department has a finance manager and it is surely their job to worry about the costs...

This lecture will discuss the basic principles of clinical and cost-effectiveness in a way that is accessible to surgeons. I will use examples from recent evidence in trauma and orthopaedic surgery to demonstrate how surgeons can and must engage with the assessment of their treatments.

If surgeons don’t prove that what we do makes a difference, then someone else might decide that what we do doesn’t matter...

**16:50 - 18:00**

**Main Auditorium**

**Unicondylar Knee Replacement - Let’s Discuss the Issues**

**Co-Chairs:**

**Professor John Skinner and Julian Owen**

**Facilitator:**

**Ananda Nanu**

Unicondylar knee replacement (UKR) can be an extremely successful procedure and is arguably the ultimate bi-cruciate retaining knee replacement. It is physiologically a smaller operation than total knee replacement (TKR) and is associated with a shorter hospital stay, fewer thromboembolic complications and lower mortality rate. It does, however, have a much higher revision rate compared to TKR, as recorded in the world’s registries. Is this inevitable since UKR revision is so much easier than TKR revision? We need to understand these issues.

Are indications for UKR surgery different? Is it seen as such a smaller operation than TKR, that it may be being performed on some patients before arthroplasty is truly indicated? Is it being performed too late in patients who have damage in more than one compartment? Both of these can lead to mismatch in patient expectations against what is achievable and ultimately to patient dissatisfaction.

Many surgeons wonder if they should be performing more UKRs or less. Should they be performing UKR at all? Is this such a technically difficult operation that it should only be performed in centres specialising in partial knee replacement or does it need enhanced technology such as navigation or robotic assistance?

We have put together a dynamic, knowledgeable, influential and potentially explosive panel to discuss and debate these issues. We welcome you to attend, contribute, listen, learn and enjoy the debate. If you have questions that you would like asked but prefer not to ask yourself, please forward them to me and Ananda Nanu will ask the panel (anonymously if desired) on your behalf. Questions if desired to: [john.skinner@ucl.ac.uk](mailto:john.skinner@ucl.ac.uk).



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**16:50 - 18:00**

**Hall 3a**

### **Orthopaedics and Machine Learning: What the Future Might Hold**

**Chair:**

**Keith Tucker**

Machine learning and Artificial Intelligence (AI) are upon us and there are clearly opportunities for orthopaedic surgeons to make best use of these developments.

The session will start with a presentation on how machine learning can be used to assimilate and report on 'Big Data', such as NJR data.

It will move on with a description of how machine learning can be used with images and how, in the future, we might be able to more accurately evaluate subtle changes between two sets of images.

Keeping in touch with patients electronically with an App and without them coming to clinic is increasingly feasible. However, the 'avalanche' of data that it could generate, particularly if video data is being sent such as gait and joint mobility, will require something more than man hours if it is to be used usefully! AI may give us the answer and Tom Harte will describe his system 'My Recovery' and where he sees the future.

Obviously, all these ambitions have to be set in the context of what is possible and what is allowed. There are rules and regulations, which will be discussed by our experts from the NHS, who will be able to give us first-hand knowledge of where the government's policy is being directed in this important area.

It is hoped that this meeting will stimulate the formation of an AI group within the BOA.

**16:50 - 18:00**

**Hall 4**

### **SAS Surgeons Ask the BOA President - SAS Revalidation**

**Chair:**

**Mamdouh Morgan**

CESR is not a route for everyone. Do you really want this? If you are happy in your current grade as SAS surgeon and with what you are doing, you may want to ask yourself whether it's worth applying. This session is targeted at SAS surgeons about how to approach the CESR application and overcome its hurdles to be successful.

The CESR route will be presented by the SAC committee members who directly deal with T&O CESR applications.

Furthermore, the session provides an exceptional opportunity for SAS Surgeons to ask the BOA President directly in the open Q&A period. SAS surgeons can enquire about how the BOA supports them regarding career progress, recognition of their work, and clarifying the role and responsibilities of SAS surgeons.

SAS surgeons' roles are supported by the BOA as a viable alternative to training and consultant grade roles, and should have a clear role in workforce planning. Responsibilities and training among SAS surgeons vary greatly. Some are engaged in major complex surgery while others provide minor diagnostic procedures and outpatient services. Some SAS surgeons provide a service that requires a generalist approach, working across specialised fields, allowing a unique insight into many areas within a specialty. There are now an increasing number of national initiatives that have provided SAS doctors with the opportunity to be more autonomous in their work.

**16:50 - 18:00**

**Hall 11**

### **Scientifically Speaking - OTS Revalidation 2**

**Co-Chairs:**

**Nigel Rossiter and Mateen Arastu**

This OTS trauma revalidation session will focus on the common aspects of basic science in trauma surgery. Tourniquets - should you really be using them; the role of thromboprophylaxis in those with fractures; and some great updates on the basic science of fracture healing and how to get the most out of your fixation construct.

**16:50 - 18:00**

**Hall 12**

### **Spine Free Papers**

## Session Briefs

**16:50 - 18:00**

**Hall 12**

### **Spinal GIRFT Update - Learning Points for a General Orthopaedic Surgeon**

**Chair:**

**Mike Hutton**

In January 2019, the Getting It Right First Time (GIRFT) programme published its national report on spinal surgery, authored by Mike Hutton, a consultant spine surgeon at the Royal Devon and Exeter Hospital.

The report followed visits to 127 spinal units across England, and made a series of 22 recommendations aimed at reducing unwarranted variation and improving the patient experience through measures such as earlier discharge from hospital, reducing cancelled operations and ensuring trusts are equipped to deliver the best care in the most timely manner.

It is estimated the recommendations could deliver cost efficiencies of up to £27 million. Among the other key recommendations in the report were a move towards referral without delay to 24-hour MRI scanning in all hospitals for patients with suspected cauda equina syndrome, the ability for all major trauma centres to stabilise and decompress in patients with fractured and dislocated spines around the clock, and the better recording of implants, their use and patient outcomes.

Mike's presentation focuses on the key recommendations from the GIRFT report, and looks specifically at how they might apply to orthopaedic surgeons in general, not just those with a specialist interest in spinal surgery.

the fracture clinic, and then a discussion around their modern fixation strategies. The BOFAS guest speaker, Hans Zwipp will be detailing his take on the management of hind foot dislocations for the non-specialist. And we will also be looking at those tricky ankles - the posterior malleolus and the unusual ankle fracture patterns.

**08:30 - 10:00**

**Hall 3a**

### **Knee Free Papers**

**08:30 - 10:00**

**Hall 3b**

### **The Ageing Surgeon - What Everyone Needs to Know - The Carousel Session**

**Co-Chairs:**

**Professor Phil Turner and Phillip Webster**

A scenario-based session with lectures and interaction addressing the difficult issue of the ageing surgeon who may have declining motor and cognitive skills but has a wealth of experience and accumulated wisdom.

The course objectives are:

- To understand the impact of ageing on surgical competence
- To aid the surgeon and colleagues to recognise when competence is declining and assess when patient safety is at risk
- To acquire the knowledge and skills needed to address age-related change

**08:30 - 10:00**

**Hall 4**

### **Best of the Best**

**Chair:**

**Simon Hodkinson**

The Best of Best session at this year's Congress is an opportunity for trainees to present work at a major meeting that might not have got into one of the mainstream sessions. Each individual training programme in the UK is asked to put forward the winner of the best paper prize from their annual trainees' meeting giving us the 'best of the best'.

The paper must be from clinical work or research carried out whilst in programmes and cannot be from

## Wednesday 11th September

**08:30 - 10:00**

**Main Auditorium**

### **BOFAS and OTS: Foot and Ankle Conundrums - OTS Revalidation Session 3**

**Co-Chairs:**

**Hiro Tanaka and Alex Trompeter**

A joint revalidation session brought to you by both the OTS and BOFAS. We will focus on common tricky decisions relating to foot and ankle trauma including Lis Franc injuries - how to diagnose and assess in

## Session Briefs

a pure 'out of programme' research commitment. The papers will be judged by Training Programme Directors from across the UK that attend the session.

The result and prize will be presented at the main prize giving session in the main auditorium.

**08:30 - 10:00**

**Hall 11**

### **How to Survive a Weekend On Call - BSCOS Revalidation**

**Chair:**

**Fergal Monsell**

This session will concentrate on common paediatric conditions that may be encountered by non-specialists during a weekend on-call. This will involve lectures and case-based discussion, illustrating controversies, traps for the unwary and top management tips.

**08:30 - 10:00**

**Hall 12**

### **Early Osteoarthritis in the Sportsperson - BOSTAA Revalidation**

**Chair:**

**Neil Jain**

Early osteoarthritis in the sportsperson is becoming much more common. As such, the first topic this session will cover is the pathogenesis of this. Different modalities of treatment will be looked at including biological treatment, osteotomies and joint replacement. This session will also look at more controversial forms of treatment such as meniscal transplant for osteoarthritis in the knee.

Patients are keen on getting back to sport following treatment. We will explore this in many of the talks, including returning to sport following total hip and knee arthroplasty.

**10:30 - 12:00**

**Main Auditorium**

### **Preventing and Managing Problems - OTS Revalidation 4**

**Chair:**

**Bob Handley**

The final OTS trauma revalidation session will be brought to you in two parts. First we have a review of the new Fracture Related Infection BOAST, looking

at all aspects of management of infected fractures from service delivery, diagnosis, imaging, surgery and microbiological assessment and management. The second part of the session will look at how our orthopaedic systems and processes work when things do not go to plan. This session is key for anyone in current orthopaedic trauma practice.

**10:30 - 12:00**

**Hall 3a**

### **Robotics: The Current State of the Technology - CAOS Revalidation Session**

**Co-Chairs:**

**Ajeya Adhikari and Fred Picard**

Understanding of computer assisted techniques. The current state of robotics in orthopaedics. Basic understanding of the technology. Early experiences and results. How to introduce new technology within the GIRFT framework. Ethics and guidelines.

**10:30 - 12:00**

**Hall 3b**

### **Challenges and Controversies in Trauma - BIOS Revalidation**

**Co-Chairs:**

**Maneesh Bhatia and Professor BJ Singh**

This session is aimed at orthopaedics and trauma surgeons who would find it very useful for trauma revalidation. It will cover both upper and lower limbs. The topics include common fractures and dislocations. The invited speakers are experts in their fields and would share their experience and practical tips.

**10:30 - 12:00**

**Hall 4**

### **Best of the Best**

**Chair:**

**Simon Hodkinson**

The Best of Best session at this year's Congress is an opportunity for trainees to present work at a major meeting that might not have got into one of the mainstream sessions. Each individual training programme in the UK is asked to put forward the winner of the best paper prize from their annual trainees meeting giving us the 'best of the best'.

## Session Briefs

The paper must be from clinical work or research carried out whilst in programmes and cannot be from a pure 'out of programme' research commitment. The papers will be judged by Training Programme Directors from across the UK that attend the session.

The result and prize will be presented at the main prize giving session in the main auditorium.

**10:30 - 12:00**

**Hall 11**

**Paediatric Free Papers**

**10:30 - 12:00**

**Hall 12**

**Sports Trauma and Arthroscopy Free Papers**

**10:30 - 12:00**

**Hall 12**

**Multi-ligament Knee Injuries - BOSTAA Revalidation**

**12:10 - 12:40**

**Main Auditorium**

**President's Guest Lecture**

**Guest Lecturer:**

**Professor Per Kjærsgaard-Andersen**

**13:40 - 14:10**

**Main Auditorium**

**Robert Jones Lecture**

**Guest Lecturer:**

**Professor John Skinner**

**14:20 - 15:50**

**Main Auditorium**

**Early revision following THA: Prevention and Treatment - BHS Revalidation 1**

**Co-Chairs:**

**Stephen A Jones and Jonathan Howell**

The burden of early revision remains a significant problem following primary THA, resulting in compromised outcome for patients and an increased risk of re-revision. This revalidation session will commence by highlighting the burden of early revision

and how pre-operative planning can predict and potentially avoid/minimise complications. Thereafter, topic specific presentations will cover the more common complications including infection, dislocation, and peri-prosthetic fractures. The learning objectives are an update on the prevention and management of the more commonly occurring complications encountered by surgeons performing primary THA.

**14:20 - 15:50**

**Hall 3a**

**Fraud Awareness**

**Chair:**

**Hannah Regan**

The speaker will be increasing awareness through a detailed presentation of the top threats affecting Corporate and Commercial Banking clients at present. Invoice redirection and email scams (Bogus Boss Fraud) are unfortunately leading to the largest losses and have been the top threats to clients for the last two years. These threats will be broken down in detail as well as the wider context as to how cyber criminals use technology, manipulation and sophisticated techniques to exploit vulnerabilities in processes and people within their targeted organisations.

**14:20 - 15:50**

**Hall 3b**

**Innovation in Education Free Papers**

**14:20 - 15:50**

**Hall 3b**

**The New Curriculum**

**Chair:**

**Professor Duncan Tennent**

Surgical training needs to be innovative to maximise the time and exposure available. Patients also need to be involved as active learners to improve outcomes. This session includes a keynote presentation on the current provision of simulation in the UK and an update on the changes to the new curriculum from the chair of the SAC with a discussion of how, as trainers, we can provide this and where simulation fits in.

## Session Briefs

**14:20 - 15:50**

**Hall 4**

### **Ortho Family Fortunes - BOTA Revalidation**

**Chair:**

**Matthew Brown**

Much emphasis is placed on the expectations of today's surgical trainees. But what about our surgical trainers? We all remember our best trainers and they often influence our entire careers, including our subspecialty choices. With a decline in training hours, the dissolution of the traditional 'surgical firm' and a move from time-based to competency-based training, a new conversation focusing on the quality of surgical training has emerged. Using an interactive gameshow format and light-hearted sketches starring familiar faces we explore the attributes and practices of our best surgical trainers. We review plans for the 'professionalisation' of surgical trainers and examine practical tips and tricks for maximising training opportunities and overcoming training barriers in today's NHS.

**14:20 - 15:50**

**Hall 11**

### **Optimising Your Chances of Publication - The Bone & Joint Journal**

**Chair:**

**Professor Fares Haddad**

This session is designed to help researchers to understand how best to generate and fund their ideas, how to structure their studies and how to use the best possible methodology for each type of data in order to produce some valid results and conclusions and to get their work published. A team of academic orthopaedic surgeons will discuss research funding, paper review and editorial processes and how best to structure data in a manuscript as well as an understanding of the evaluation of observational data, the problems and challenges of randomised studies and how best to report and interpret research in trauma and orthopaedics.

**14:20 - 15:50**

**Hall 12**

### **The History of the Victoria Cross - Harold Ackroyd and other VC Heroes**

**Guest Lecturer:**

**Chris Ackroyd**

**14:20 - 15:50**

**Hall 12**

### **Trauma Free Papers**

**16:20 - 17:50**

**Main Auditorium**

### **Charnley Lecture - Forty Years' Experience of a National Registry**

**Guest Lecturer:**

**Dr Henrik Malchau**

**16:20 - 17:50**

**Main Auditorium**

### **Non-arthroplasty Hip Surgery - BHS Revalidation 2**

**Chair:**

**Vikas Khanduja**

This revalidation session will specifically cover the management of hip pathology treated by non-arthroplasty surgery. The format of the session will be problem-based learning via case presentation format that will cover the spectrum of young adult hip disorders that can present to the orthopaedic surgeon. The learning objectives of this session are to inform and update surgeons on the assessment, investigation and treatment of the more commonly occurring non-arthroplasty surgical conditions and potential solutions.

**16:20 - 17:50**

**Hall 3a**

### **Foot and Ankle Free Papers**

## Session Briefs

**16:20 - 17:50**

**Hall 3b**

**Simulation in Education Free Papers**

**16:20 - 17:50**

**Hall 3b**

**Provision of Simulation in the UK**

**Chair:**

**Professor Duncan Tennent**

Surgical training needs to be innovative to maximise the time and exposure available. Patients also need to be involved as active learners to improve outcomes. This session includes a keynote presentation on the current provision of simulation in the UK and an update on the changes to the new curriculum from the chair of the SAC with a discussion of how, as trainers, we can provide this and where simulation fits in.

**16:20 - 17:50**

**Hall 4**

**BOTA/TPD: Curriculum 2020 and TPD Question Time**

**Chair:**

**Matthew Brown**

The T&O Higher Surgical Curriculum is changing and CCT guidance has already been updated. It is important that trainees, trainers and TPDs understand what is expected of them. This session will present an overview of these changes and demonstrate how we should all prepare to maximise training outcomes.

**TPD Question Time - Join the Debate**

What do you think of your training? How can TPDs support trainees in light of the curriculum and CCT updates? Take your turn to question UK T&O training leaders, including TPDs and SAC members. Join the debate! Everything and anything is open for discussion.

**16:20 - 17:50**

**Hall 11**

**BLRS Free Papers**

**16:20 - 17:50**

**Hall 12**

**Framing the Future; Updates in Limb Reconstruction - BLRS Revalidation**

**Co-Chairs:**

**Deepa Bose and Patrick Foster**

In this revalidation session we address important skills common to all specialties, which are often overlooked, but without which we cannot hope to achieve excellence in our practice and outcomes. The practice of consenting has been brought into sharp relief by the Montgomery case, and it is clear that patient-centred informed consent is a part of good medical practice. The GMC has recently emphasized the necessity of ensuring that all doctors practicing outside a training programme receive appropriate accreditation, and the BLRS hopes to show the way by introducing credentialing for post-CCT limb reconstruction fellows. It goes without saying that high quality research is essential for generation of new knowledge, and finally, innovation into new implants and techniques keeps pushing the specialty forward for the benefit of our patients.

**16:20 - 17:50**

**Hall 12**

**Trauma Free Papers**

## Thursday 12th September

**08:30 - 10:00**

**Main Auditorium**

**Management of Acute Knee Injuries - BASK Revalidation 1**

**Chair:**

**Andrew Price**

The effectiveness of arthroscopic meniscectomy has been heavily criticized and many commissioning bodies are now restricting the procedure. This instructional course is to address the evidence surrounding this topic and to present a rational and logical approach to treating patients with degenerate meniscal tears.



## Session Briefs

**08:30 - 10:00**

**Main Auditorium**

### **Adrian Henry Lecture - Contemporary Knee Replacement**

**Guest Lecturer:**

**Professor Jan Victor**

**08:30 - 10:00**

**Hall 3a**

### **BTS Revalidation**

**Co-Chairs:**

**Ansar Mahmood and Stuart Matthews**

British Trauma Society are pleased to provide a session with leading speakers in the wider arena of multi-disciplinary trauma. All of the speakers will discuss injuries and their management that are becoming an unfortunate staple of many MTC and TU practices, with the current very publicised increase in penetrating trauma. Modern Transfusion practice has undoubtedly saved many lives but the paradigms are shifting and current practice will be challenged as well as future directions discussed.

**08:30 - 10:00**

**Hall 3b**

### **Adult Flatfoot - BOFAS Revalidation**

**Co-Chairs:**

**Hiro Tanaka and Rick Brown**

Foot and ankle revalidation session covering the principles of clinical assessment, non-surgical and surgical management of the adult flatfoot. Advanced soft tissue and bony techniques are also discussed.

**08:30 - 10:00**

**Hall 4**

### **An Overarching View of Spinal Conditions - Spine Revalidation 1**

**Chair:**

**Niall Eames**

Spinal revalidation promises to be an excellent series of short talks from recognised experts on a combination of critical conditions and common spinal problems. A series of talks over two sessions will outline current debates, assessment, diagnosis, treatment options, and outcomes for a wide spectrum of spinal pathology.

These sessions will appeal to anyone involved in the care of spinal patients, trainees preparing for their exam, established orthopaedic consultants preparing for revalidation and others looking for a state of the art series of talks on the important areas within spinal surgery at the moment.

Topics covered will include:

- Spinal radiology, what investigations are required and what to look for
- Spinal infections, how to diagnose and treat
- Spinal tumours - the management of metastatic spinal cord compression
- Spinal trauma - modern classification schemes, treatment options and outcomes
- Cauda equina - how to assess and manage
- Myelopathy - who needs operated on and who can we observe
- Neurological conditions - a summary of those conditions we come across and need to know about
- Painful spine in a child - the common diagnoses, how to assess and manage this critical condition
- The new low back and radicular pain pathway - how it works and the difference it is making

Please come along for an overarching view of spinal conditions from a faculty of experts.

**08:30 - 10:00**

**Hall 11**

### **Upper Limb and Paediatrics - BJ360 Revalidation 1**

**Chair:**

**Ben Ollivere**

BJ360 revalidation sessions cover every crucial, controversial and unmissable paper from the past year. Enough to keep up to date on everything you need to know for a general or specialist practice. Expect a rapid fire update on the most topical and crucial research presented with opportunity for debate. If you wish you read more, but just don't have the time or read a lot and are concerned you may have missed something, this is for you.

Upper limb shoulder to fingertips and paediatrics will kick the day off. With an update on lower limb including management of the infected joint replacement - when to DAIR and when not too. Alongside crucial papers in lower limb management.

## Session Briefs

**08:30 - 10:00**

**Hall 12**

### **The Things Surgeons and Physiotherapists Should be Aware of - ATOCP**

**Chair:**

**Anthony Gilbert**

This session consists of three presentations surrounding the central theme 'the things surgeons and physiotherapists should be aware of'. During the session the audience will hear from internationally recognised clinicians speaking about their specialist areas. Part one will focus on the management of the traumatic upper limb and brachial plexus injuries. Part two will focus on the management and experience of young adult hip dysplasia. Part three will focus on the management of patients following surgery for osteosarcoma.

**10:30 - 12:00**

**Main Auditorium**

### **Management of the Infected Total Knee Replacement - BASK Revalidation 2**

**Chair:**

**Professor Andrew Toms**

Periprosthetic joint infection has a devastating effect on patients' lives. This session addresses the very practical issues of hands on management, from the acute on call presentation through to techniques of debridement, reconstruction and referral guidelines.

**10:30 - 12:00**

**Hall 3a**

### **BTS and OTS: When Things Crop Up On Call - OTS Hot Topics**

**Co-Chairs:**

**Ansar Mahmood and Mateen Arastu**

This year, the Orthopaedic Trauma Society hot topic session is provided jointly with the British Trauma Society. We will be discussing those things that crop up when on call and leave you feeling uncertain - head injuries, spinal injuries, vascular injuries and chest trauma. This is a crucial update session for anyone on the on-call rota.

**10:30 - 12:00**

**Hall 3b**

### **Adult Flatfoot - BOFAS Revalidation**

**Chair:**

**Rick Brown**

Foot and ankle revalidation session covering the principles of clinical assessment, non-surgical and surgical management of the adult flatfoot. Advanced soft tissue and bony techniques are also discussed.

**10:30 - 12:00**

**Hall 3b**

### **Naughton Dunn Lecture - History of Calcaneal Fracture Treatment**

**Guest Lecturer:**

**Professor Hans Zwipp**

Professor Hans Zwipp will deliver this years' Naughton Dunn Lecture. During his career, he has been a leader in the field of scientific research and clinical innovation in the management of calcaneal fractures and we are privileged that he will be delivering the Naughton Dunn Lecture on the History of Calcaneal Fracture Management.

**10:30 - 12:00**

**Hall 4**

### **An Overarching View of Spinal Conditions - Spine Revalidation 2**

**Chair:**

**Sashin Ahuja**

Spinal revalidation promises to be an excellent series of short talks from recognised experts on a combination of critical conditions and common spinal problems. A series of talks over two sessions will outline current debates, assessment, diagnosis, treatment options, and outcomes for a wide spectrum of spinal pathology.

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- Spinal infections, how to diagnose and treat

## Session Briefs

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Please come along for an overarching view of spinal conditions from a faculty of experts.

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**Hall 11**

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**10:30 - 12:00**

**Hall 12**

### **Topical Orthopaedic Issues - ATACP**

**Chair:**

**Anthony Gilbert**

This session is split into two parts. Part one will be about length of stay in orthopaedics. For part two we have arranged for a specialist occupational therapist and consultant psychiatrist to discuss the management of mental health and chronic pain in orthopaedics. This session will be relevant to both surgeons and therapists.

**12:10 - 12:40**

**Main Auditorium**

### **Sir Walter Mercer Lecture**

**Guest Lecturer:**

**James Hunter**

This talk examines the medical profession's obsession with change and progress. It will consider all types of change, serendipitous, ill-advised, effective and necessary. There will be advice on how to drive, embrace and resist change, illustrated with examples and anecdotes from a 30-year career in orthopaedics, particularly the revolution in children's fracture care.

**15:10 - 16:20**

**Main Auditorium**

### **Burn Out...Time to Take Action**

**Chair:**

**Dame Clare Marx**

This session is about a problem which may be staring back at us all. In times gone by the problem of Burn Out probably simply went unrecognised. Now with ever more detailed analysis of the details of what we do and the stresses that creates, we need to accept it is real. It affects us and our patients as a consequence. This session is designed to open a dialogue, increase our understanding and take some steps towards solutions. As ever, explaining the problem is the start, understanding how we can recognise it in ourselves or others takes us further. Knowing how it is seen by the professional bodies and finally the fact that it is not all about us will help us move the dialogue on.

**15:10 - 16:20**

**Hall 3a**

### **Modernising Hip Fracture Care - NHFD**

**Co-Chairs:**

**Tim Chesser and Dominic Inman**

This year's NHFD session at the BOA Congress will provide not only the annual NHFD report update, but also the results of the WHITE study, as well as discussion around undisplaced fractures, fragility fracture networks and experiences from US systems.

## Session Briefs

**15:10 - 16:20**

**Hall 3b**

### **Being an Expert - Medico-legal 1**

**Chair:**

**Professor David Warwick**

This session is in two parts. Firstly, Professor Tim Briggs and John Machin from the GIRFT team will talk on 'Learning from Clinical Negligence Claims; GIRFT tries BOASTing too', discussing the recently published best-practice guidance on documentation of hip and knee arthroplasty procedures.

Secondly, we will hear from one of the leading educators in medico-legal practice. What is an expert? When are you regarded by the court as expert enough to opine on personal injury and medical negligence? Equally, when are you an effete and time expired expert? When are you a conflicted expert? What are the risks of being an expert, can the expert be sued? We will also have some advice on insuring ourselves for medicolegal work.

**15:10 - 16:20**

**Hall 4**

### **Interactive Spinal Sessions - Spine Bootcamp**

**Chair:**

**Patrick Statham**

Spinal bootcamp will work again this year on the highly successful model of small table interactive sessions with experts in the field discussing a wide range of spinal topics.

Groups will look at spinal fracture classification, cauda equina, the management of the dislocated neck, metastatic spinal cord compression, infection, the medical management of the paralysed patient, radiological investigations in the acute spinal patient, the painful spine in a child and ankylosing spondylitis.

Each group will discuss all the topics in a rotational basis with the experts, allowing small group learning.

This is an ideal session for anyone studying for the exam, consultants wishing to update their knowledge and anyone interested in spinal care.

**15:10 - 16:20**

**Hall 11**

### **Elbow Trauma - BESS Revalidation**

**Chair:**

**Rajesh Nanda**

The session is aimed to provide an overview and update on the management of injuries around the elbow, including radial head fractures, elbow dislocations and capitellum/coronoid fractures to the general orthopaedic surgeon who manages such conditions. The talks will include a presentation, an investigation and management of these conditions including when the 'generalist' trauma surgeon should refer to the specialist and complications/sequela of these injuries. There will be case-based panel discussion to further highlight salient features.

**15:10 - 16:20**

**Hall 12**

### **Physiotherapy Free Papers**

**16:50 - 18:00**

**Main Auditorium**

### **Challenges in the UK and USA; Psychology and Consent in Trauma - OTS Networks 2**

**Co-Chairs:**

**Paul Dixon, Jayne Ward and Daniel Engelke**

The two trauma network sessions at the 2019 conference will focus on collaborative working, looking at the trauma unit role as well as that of the MTC. We also have a session looking at challenges in the delivery of trauma care - including consent in unplanned surgery. These two excellent sessions have been organised with collaboration between the BOA Trauma Group and the Orthopaedic Trauma Society.

**16:50 - 18:00**

**Hall 3a**

### **General Free Papers**

## Session Briefs

**16:50 - 18:00**

**Hall 3a**

### **Hong Kong Young Ambassador Presentation**

**Guest Lecturer:**

**Dr Amy Cheung Yim Ling**

Dr. Amy Cheung is a Specialist Orthopaedic Surgeon in the Division of Joint Replacement Surgery, Department of Orthopaedics and Traumatology, Queen Mary Hospital. She graduated from the Faculty of Medicine of the University of Hong Kong in 2009 and became a fellow of the Royal College of Surgeons of Edinburgh and Hong Kong College of Orthopaedic Surgeons in 2016. Her research interests lie in primary knee and hip arthroplasty. Her talk will be looking at the wear of highly cross-linked polyethylene in total hip replacement.

**16:50 - 18.00**

**Hall 3b**

### **Profile of Litigation (Negligence) for Orthopaedic Trauma: Has Anything Changed? - Medico-legal 2**

**Chair:**

**Professor Peter Giannoudis**

Medical negligence may be a missed diagnosis, an incorrect prescription, or a substandard surgery resulting in varied harm or injury to the individual. For the 2017/18 year, the total new clinical negligence claims against the NHS equalled 10,673 compared to 10,686 for the year 2016/2017. The number of claims resolved without payment of damages equalled 5,252.

Overall, fewer than 2% of the cases handled by the NHS Litigation Authority (NHS LA) end up in court. The rest are settled out of court or dropped by the claimant.

In 2017/18, the majority of claims received by number were from the A&E specialty (13%) rather than orthopaedic surgery (12%). Other clinical negligence claims received by specialty included obstetrics (10%); general surgery (9%); gynaecology (5%); general medicine (5%); urology (4%); radiology (3%), etc. Interestingly, the value of clinical negligence claims received in 2017/18 by specialty across all clinical negligence schemes were: obstetrics (48%); A&E (8%); paediatrics (9%); orthopaedic surgery (4%); neurosurgery (3%); general surgery (2%).

The total payments for 2017/2018 increased by £520.4 million (30%), from £1,707.2 million to £2,227.5 million. According to the National Health Service Litigation

Authority, the average NHS negligence pay-out was estimated around £50,000.

In this session the latest profile of litigation (negligence) for orthopaedic trauma will be analysed. Moreover, in order to increase the clinician's awareness, the most common omissions and pitfalls supporting the case for litigation will be explored and discussed. Finally, the most common 'deadly mistakes' leading to successful compensation claims and damages paid will be presented.

**16:50 - 18:00**

**Hall 4**

### **Spine Instant Updates**

**Chair:**

**Niall Eames**

Spinal updates will provide short rapid-fire lectures on key spinal topics. These rapid-fire lectures will cover the breadth of spinal surgery, focusing on recent developments, key learning points and management issues.

This highly popular format is ideal for anyone involved in spinal care who wishes to update their knowledge on a wide range of topics with rapid fire key learning points.

**16:50 - 18:00**

**Hall 11**

### **Shoulder and Elbow Free Papers**

**16:50 - 18:00**

**Hall 12**

### **Virtual Consultations Debate - The Way Forward? - ATOCP**

**Chair:**

**Justine Theaker**

The ATOCP debate returns for its fourth year. After the success of last year at the BOA (the debate on day case knee replacements) our focus this year is on virtual consultations. Two physiotherapists and two surgeons will debate the positives and negatives of virtual clinics before we finish with a vote.



## Session Briefs

### Friday 13th September

08:30 - 12:00

Main Auditorium

#### Good Clinical Practice (GCP) Training

Chair:

**Gareth Hayes**

This session will enable delegates to be up to date with all the latest information on the new regulations, particularly regarding Statutory Instruments, European Directives and the new European Regulation, requirements for informed consent, strategies for assuring adequate delegation and supervision of trial related activities, management of essential documents, and the importance of managing risk mitigation and the audit/inspection process. Focus will be made on studies in the relevant field of the audience rather than just traditionally sponsored CT-IMP studies and as such will include research with Medical Devices and the impact of the new Devices Regulation. The session uses a blend of trainer input and group discussion to ensure that delegates will be able to:

- Examine key aspects of the Directive's implementation on your clinical research activities
- Challenge and predict how processes will need to alter in line with forthcoming regulatory and legislative changes
- Describe the principles of Good Clinical (Research) Practice
- Gain insight into the critical pathways of study management
- Scope roles and responsibilities of the clinical trial process
- Identify key documentation issues involved in the clinical trial process
- Recognise organisational hurdles and plan contingencies for efficient delivery
- Gain awareness of current UK regulations and applicable European guidelines

08:30 - 12:00

Hall 3a

#### Non-Technical Skills (NOTTs RCSEd)

Co-Chairs:

**James Tomlinson and Jeremy Bannister**

There is growing evidence that supports the need for non-technical skills training as well as the understanding and application of human factors in complex healthcare settings to improve work environments, surgical outcomes and patient safety.

Technical skills are, of themselves, inadequate to ensure optimal outcome following surgery.

This interactive session aim is to enable delegates to understand the importance of non-technical skills which underpin good intra-operative performance and how these skills can be observed and rated using a validated assessment tool. It will address the non-technical skills that are the essential cognitive and interpersonal aspects of operative surgery.

These vital skills and understanding complement technical actions, optimise and enhance the performance of individual surgeons and through them, the surgical team. We will also be describing and discussing the relevance of Human Factors/Ergonomics in surgery as well as examples of its application.

The session will involve the use of video-simulated scenarios, interactive lectures and small group discussions to achieve its aim.

08:30 - 16:00

Hall 3b

#### Clinical Examination Course

Chair:

**Fazal Ali**

The BOA Clinical Examination Course was set up seven years ago with the aim that trainees will attend on an annual basis whereby skills could be learnt at an early stage of training and repetition would result in perfecting a technique and consequently improvement in patient care and examination success.

It is taught by an experienced group of lecturers on clinical examination techniques. The format includes a morning of lectures covering all regions of the body. This is followed in the afternoon by a hands-on session where participants rotate in groups of similar skill level. In these tutorial groups there is a demonstration by an

## Session Briefs

experienced consultant followed by practice in pairs of the techniques learnt.

The feedback in previous years of this format of learning has been exceptional.

**08:30 - 16:00**

**Hall 4**

### Medical Students' Session

**Co-Chairs:**

**George Pickering and Catherine Kellett**

The British Orthopaedic Association's (BOA) Medical Student Day is part of the national trauma and orthopaedic surgery conference aimed at undergraduates and junior doctors. At the annual BOA Congress, we will deliver insight into the surgery with practical workshops and life as an orthopaedic surgeon. We will discuss orthopaedic training and applications, including a selection of career pathways.

**Aims:**

- To gain an understanding regarding a range of new innovations in orthopaedic surgery
- To understand the different types of consultant posts which are possible and the pros and cons of academic, military, UK and overseas careers
- To understand more about a range of orthopaedic techniques

Afternoon workshops (in rotation)

Knee surgery and ligament dry bones workshop, team building exercise, fracture fixation workshop, casting, X-ray, Trauma A to E assessment, career Q&A session.

**08:30 - 12:00**

**Hall 11 (Breakout rooms 11A, 11B, 11C, 1B, 1C, 14)**

### Practicalities of Coding HRGs and Tariff

**Co-Chairs:**

**Rohit Kulkarni and Ashley Cole**

Whilst the role of the clinician in the current healthcare climate remains as important as ever, the data challenges for the future clinician are a daunting prospect. Clinicians have generally shied away from what appears to be a very unfriendly, complex and confusing set of rules, coding systems and payment methodologies used by the NHS to identify activity and appropriately fund it. However, for the success of healthcare delivery it is imperative that there

is engagement between clinicians and managers, economists and policy makers.

This session attempts to unravel the mysteries of how the words you 'write' are translated into payment decisions for the work you do, policy regarding healthcare service redesign, current and future resource implications, and funding sustainability in an environment where informatics is key and resources are limited. Translating the patient journey from presentation and diagnosis, through to treatment and a (hopefully) positive patient outcome, this session will equip you with an understanding of how clinical records are transformed into data used to make current and future funding decisions regarding the healthcare services you wish to provide for the patient population you serve.

**08:30 - 16:00**

**Hall 12**

### TOCS and TOES

**Chair:**

**Lisa Hadfield-Law**

The programme will be facilitated by Lisa Hadfield-Law, the BOA Educational Advisor. Over the last 20 years, Lisa has trained over 15,000 T&O surgeons, from 68 countries within Europe, North America, Latin America, and Asia Pacific.

At the end of the programme, participants will be able to:

- Engage in relevant aspects of the T&O curriculum
- Maximise opportunities for teaching and assessing in T&O practice
- Make the best use of T&O workplace based assessment tools
- Provide constructive feedback relating to progress in practice
- Identify trainees in difficulty and enlist appropriate help
- Integrate an understanding of the T&O ARCP and examinations process



## NJR SESSION THE NJR: NEW HORIZONS

**TUESDAY 10<sup>TH</sup> SEPTEMBER**  
**HALL 3A 14:15-15:45**

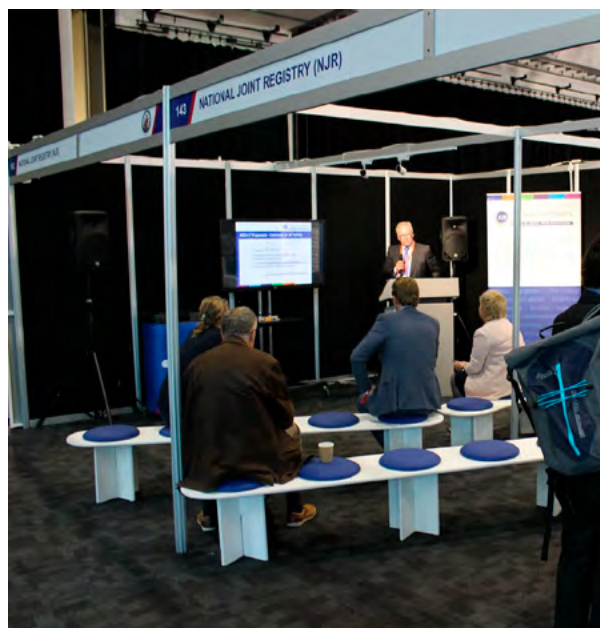
NJR's session includes eight different topics, aligning with the BOA Congress theme of 'New Horizons', set in the context of NJR continuous improvement. The session starts with the official launch of NJR's Annual Report 2019 and a presentation on the key findings and highlights from the analyses of the last year's data.

Presenters will then showcase how new developments and tools are enhancing both the quality and the wider use of NJR's rich data set for hospital staff, clinicians and patients alike.



Come to the NJR at Stand 59 to pick up your own personal copy of the report.

## VISIT NJR - STAND 59



## ON THE NJR STAND EVERY DAY:

- Clinical feedback demonstrations on how to access and make the most of your NJR clinical reports.
- Rolling NJR Presentations on:
  - Data quality automation
  - Patient decision support tool
  - Accessing clinician PROMs
  - How long does a joint replacement last?
  - Inferiority benchmarking
  - Many more topics..

## Podium Presentations

### Tuesday 10th September

08:30 – 10:00	Hand Free Papers Hall 4
08:30 – 08:35	Introduction
08:35 – 08:40	<b>DO ANATOMIC DISTAL ULNA PLATING SYSTEMS FIT THE DISTAL ULNA? 76</b> <i>D.A. Shaerf<sup>1</sup>, W. Chae<sup>2</sup>, R. Sharif-Rezavian<sup>3</sup>, A. Kedgley<sup>3</sup>, M. Horwitz<sup>1</sup></i> <sup>1</sup> Chelsea and Westminster Hospital NHS Foundation Trust, Department of Hand Surgery, London, United Kingdom, <sup>2</sup> Imperial College Medical School, London, United Kingdom, <sup>3</sup> Imperial College London, Department of Bioengineering, London, United Kingdom
08:40 – 08:45	<b>THE TALE OF THE NINE YEAR OLD K-WIRE 280</b> <i>N. Sargazi, S. Abdalla, I. Khan</i> Whiston Hospital, Burns and Plastic Surgery, Liverpool, United Kingdom
08:45 – 08:50	<b>FIXATION OF DISTAL RADIUS FRACTURES USING WIDE AWAKE ANAESTHESIA WITH NO TOURNIQUET TECHNIQUE: A COST EFFECTIVE AND RESOURCE FRIENDLY ALTERNATIVE IN LOWER INCOME AND MIDDLE INCOME NATIONS 342</b> <i>M. Tahir<sup>1</sup>, G. Mahboob<sup>2</sup>, M. Phillips<sup>3</sup>, A.R. Jamali<sup>1</sup></i> <sup>1</sup> Jinnah Postgraduate Medical Centre, Orthopaedics, Karachi, Pakistan, <sup>2</sup> Sirsyed Medical College for Girls, Orthopaedics, Karachi, Pakistan, <sup>3</sup> London Bridge Hospital, Orthopaedics, London, United Kingdom
08:50 – 08:57	Discussion
08:57 – 09:02	<b>WIRES - TO BURY OR NOT TO BURY IN HAND SURGERY? 347</b> <i>B. Kapur, L. Homer, B. Klass, G. Cheung, D. Brown</i> Royal Liverpool and Broadgreen University Hospital, Trauma and Orthopaedics, Liverpool, United Kingdom
09:02 – 09:07	<b>DOES DRESSING CHOICE AFFECT INFECTION RATE FOLLOWING K-WIRE FIXATION OF THE HAND AND WRIST? A SYSTEMATIC REVIEW 379</b> <i>J. Clutton, A. Kinghorn, R. Trickett</i> University Hospital of Wales, Trauma and Orthopaedics, Cardiff, United Kingdom
09:07 – 09:12	<b>POLLICISATION OF INDEX FINGER FOR CONGENITAL THUMB ANOMALIES: A LONG TERM FUNCTIONAL OUTCOME STUDY 442</b> <i>A. Palanivel, B. Kumar</i> Tejasvini Hospital and SSIOT, Orthopaedics, Mangalore, India

## Podium Presentations

09:12 – 09:17

### **PATTERN OF UPPER LIMB AMPUTATION ASSOCIATED WITH LOWER LIMB AMPUTATION FOLLOWING BLAST INJURY: THE UK EXPERIENCE FROM IRAQ AND AFGHANISTAN 549**

*L. McMenemy<sup>1,2</sup>, V. Mondini<sup>1</sup>, D. Roberts<sup>3</sup>, A. Kedgley<sup>1</sup>, J. Clasper<sup>1,2</sup>, S. Stapley<sup>2,3</sup>*

<sup>1</sup>Imperial College London, Centre for Blast Injury Studies, London, United Kingdom, <sup>2</sup>Royal Centre for Defence Medicine, Academic Department for Military Surgery and Trauma, Birmingham, United Kingdom, <sup>3</sup>Queen Alexandra Hospital, Portsmouth, United Kingdom

09:17 – 09:24

### **Discussion**

09:24 – 09:29

### **THE ROLE OF MRI IN THE MANAGEMENT OF SCAPHOID FRACTURES AT A DISTRICT GENERAL HOSPITAL 600**

*C. Wilson, S. Andrew, T. Crook, S. Walsh*

*Dorset County Hospital, Orthopaedics, Dorchester, United Kingdom*

09:29 – 09:34

### **A REVIEW OF PATIENT REPORTED OUTCOME MEASURES FOR THOSE UNDERGOING CARPAL TUNNEL DECOMPRESSION SURGERY 705**

*M. McMullan, A. Kingman, C. Gibbons*

*Northumbria Healthcare NHS Foundation Trust, Newcastle upon Tyne, United Kingdom*

09:34 – 09:39

### **COMPLEX DISTAL RADIUS FRACTURES: A SYSTEMATIC REVIEW INTO OPERATIVE INTERVENTIONS AND THEIR FUNCTIONAL AND OBJECTIVE OUTCOMES 795**

*A. Kinnair, L. DiMascio*

*Royal London Hospital, Trauma and Orthopaedics, London, United Kingdom*

09:39 – 09:46

### **Discussion**

08:30 – 10:00

### **Hip Free Papers Hall 12**

08:30 – 08:35

### **Introduction**

08:35 – 08:40

### **ILIOPSOAS IMPINGEMENT AFTER TOTAL HIP REPLACEMENT - A YOUNG PERSON'S COMPLICATION? 330**

*M. Howell, F. Rae, G. Holt*

*NHS Ayrshire and Arran, Kilmarnock, United Kingdom*

08:40 – 08:45

### **THE LONG-TERM OUTCOME OF VARUS IMPLANTATION OF A CEMENTED POLISHED TRIPLE-TAPERED FEMORAL STEM: 13 TO 18 YEAR FOLLOW-UP 394**

*D. Sochart*

*North Manchester General Hospital, Northern Care Alliance, Manchester, United Kingdom*

## Podium Presentations

08:45 – 08:50

### **DIRECT SUPERIOR APPROACH FOR TOTAL HIP ARTHROPLASTY - EARLY OUTCOMES IN FIRST 100 CONSECUTIVE CASES 438**

*H.J. Leonard, N.E. Ohly*

*Golden Jubilee National Hospital, Department of Orthopaedics, Glasgow, United Kingdom*

08:50 – 08:55

### **Discussion**

08:55 – 09:00

### **WHAT FORCE IS REQUIRED TO DISTRACT THE HIP TO PERFORM ARTHROSCOPY SAFELY? 455**

*M. Webb<sup>1</sup>, O. O'Malley<sup>1</sup>, S. Esnouf<sup>2</sup>, P. Esnouf<sup>3</sup>, P. Singh<sup>2</sup>, J. O'Donnell<sup>2</sup>*

*<sup>1</sup>St George's Hospital, Trauma and Orthopaedics, London, United Kingdom, <sup>2</sup>Hip Arthroscopy Australia, Melbourne, Australia, <sup>3</sup>St Vincents Private Hospital, Melbourne, Australia*

09:00 – 09:05

### **HIP ARTHROPLASTY SURVEILLANCE: IS IT REALLY NEEDED? 456**

*L. Smith<sup>1,2</sup>, J. Powell<sup>1</sup>, E. Dures<sup>1</sup>, S. Palmer<sup>1</sup>, E. Lenguerand<sup>2</sup>, A. Beswick<sup>2</sup>, A. Blom<sup>2</sup>*

*<sup>1</sup>University of the West of England, Bristol, Faculty of Health and Applied Sciences, Bristol, United Kingdom,*

*<sup>2</sup>University of Bristol, Musculoskeletal Research Unit, Translational Health Sciences, Bristol, United Kingdom*

09:05 – 09:10

### **ARTHROSCOPIC HIP SURGERY COMPARED WITH PHYSIOTHERAPY AND ACTIVITY MODIFICATION FOR THE TREATMENT OF SYMPTOMATIC FEMOROACETABULAR IMPINGEMENT: MULTICENTRE RANDOMISED CONTROLLED TRIAL 474**

*A. Palmer<sup>1</sup>, S. Fernquest<sup>1</sup>, I. Rombach<sup>2</sup>, V. Ayyar Gupta<sup>1</sup>, S. Dutton<sup>2</sup>, R. Mansour<sup>3</sup>, J. Broomfield<sup>1</sup>, S. Wood<sup>3</sup>, V. Khanduja<sup>4</sup>, T. Pollard<sup>5</sup>, A. McCaskie<sup>6</sup>, K. Barker<sup>1</sup>, T. Andrade<sup>4</sup>, A. Carr<sup>1</sup>, D. Beard<sup>1</sup>, S. Glyn-Jones<sup>1</sup>*

*<sup>1</sup>University of Oxford, Nuffield Department of Orthopaedics, Rheumatology, and Musculoskeletal Sciences, Oxford, United Kingdom, <sup>2</sup>University of Oxford, Oxford Clinical Trials Research Unit, Oxford, United Kingdom, <sup>3</sup>Oxford University Hospitals NHS Foundation Trust, Oxford, United Kingdom, <sup>4</sup>Cambridge University Hospitals NHS Foundation Trust, Cambridge, United Kingdom, <sup>5</sup>Royal Berkshire NHS Foundation Trust, Reading, United Kingdom, <sup>6</sup>University of Cambridge, Division of Trauma and Orthopaedic Surgery, Cambridge, United Kingdom*

09:10 – 09:15

### **Discussion**

09:15 – 09:20

### **TEMPORAL SUBSIDENCE RATES WITH THE C-STEM CEMENTED TRIPLE-TAPERED POLISHED STEM 482**

*D. Sochart*

*North Manchester General Hospital, Northern Care Alliance, Manchester, United Kingdom*

09:20 – 09:25

### **LENGTH OF STAY AND READMISSIONS AFTER TOTAL HIP ARTHROPLASTY IN PEOPLE LIVING ALONE 660**

*R. Kattimani, M. Hefny, P. Saunders, S. Young*

*South Warwickshire NHS Foundation Trust, Warwick, United Kingdom*

## Podium Presentations

09:25 – 09:30

### FACTORS AFFECTING RISK OF PERIPROSTHETIC FRACTURE REVISION OF CEMENTED POLISHED TAPER STEMS: A DESIGN LINKED REGISTRY ANALYSIS FROM THE NATIONAL JOINT REGISTRY OF ENGLAND, WALES AND THE ISLE OF MAN 675

*J. Lamb<sup>1</sup>, S. King<sup>1</sup>, E. Cage<sup>2</sup>, B. van Duren<sup>1</sup>, R. West<sup>3</sup>, H. Pandit<sup>1</sup>*

<sup>1</sup>University of Leeds, Leeds Institute of Rheumatology and Musculoskeletal Medicine, Leeds, United Kingdom,

<sup>2</sup>University of Indiana, School of Medicine, Indiana, United States, <sup>3</sup>University of Leeds, Leeds Institute of Health Sciences, Leeds, United Kingdom

09:30 – 09:35

### Discussion

09:35 – 09:40

### TESTING A STANDARDISED APPROACH TO VIRTUAL CLINIC FOLLOW-UP OF HIP AND KNEE ARTHROPLASTY PATIENTS IN FIVE UK ORTHOPAEDIC CENTRES 726

*M. Stone<sup>1,2</sup>, N. Preston<sup>1</sup>, G. McHugh<sup>3</sup>, E. Hensor<sup>1,2</sup>, A. Grainger<sup>4</sup>, P. O'Connor<sup>4</sup>, P. Conaghan<sup>1,2</sup>, S. Kingsbury<sup>1,2</sup>*

<sup>1</sup>Leeds Institute of Rheumatic and Musculoskeletal Medicine, Leeds, United Kingdom, <sup>2</sup>NIHR Biomedical Research Centre, Leeds, United Kingdom, <sup>3</sup>School of Healthcare, University of Leeds, Leeds, United Kingdom,

<sup>4</sup>Leeds Teaching Hospitals NHS Trust, Leeds, United Kingdom

09:40 – 09:45

### DEVELOPING A STANDARDISED APPROACH TO VIRTUAL CLINIC FOLLOW-UP OF TOTAL JOINT ARTHROPLASTY 748

*M. Stone<sup>1,2</sup>, N. Preston<sup>3</sup>, G. McHugh<sup>4</sup>, E. Hensor<sup>2,3</sup>, A. Grainger<sup>1</sup>, P. O'Connor<sup>1</sup>, P. Conaghan<sup>2,3</sup>, S. Kingsbury<sup>2,3</sup>*

<sup>1</sup>Leeds Teaching Hospitals NHS Trust, Leeds, United Kingdom, <sup>2</sup>NIHR Biomedical Research Centre, Leeds, United Kingdom, <sup>3</sup>Leeds Institute of Rheumatic and Musculoskeletal Medicine, Leeds, United Kingdom,

<sup>4</sup>School of Healthcare, University of Leeds, Leeds, United Kingdom

09:45 – 09:50

### ARE THE RESULTS OF A CENTRE WITH “BETTER THAN EXPECTED” HIP REPLACEMENT SURVIVAL A CENTRE EFFECT OR SECONDARY TO IMPLANT DECISIONS? FINDINGS FROM THE NATIONAL JOINT REGISTRY FOR ENGLAND, WALES, NORTHERN IRELAND AND ISLE OF MAN (NJR) 773

*J. Evans<sup>1</sup>, A. Blom<sup>1</sup>, M. Wilson<sup>2</sup>, J. Timperley<sup>2</sup>, A. Sayers<sup>1</sup>, M. Whitehouse<sup>1</sup>*

<sup>1</sup>University of Bristol, Bristol, United Kingdom, <sup>2</sup>Royal Devon and Exeter NHS Foundation Trust, Exeter, United Kingdom

09:50 – 09:55

### THE USE OF CELL SAVER TECHNOLOGY IN REVISION TOTAL HIP ARTHROPLASTY FOR ASEPTIC LOOSENING VS PROSTHETIC JOINT INFECTION: AN UNDER-UTILISED RESOURCE? 915

*D. Howgate, J. Duncan, R. Booth, B. Kendrick*

Nuffield Orthopaedic Centre, Oxford, United Kingdom

## Podium Presentations

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10:55 – 11:00	<b>WINTER PRESSURES IN THE NATIONAL HEALTH SERVICE - A PATIENTS' PERSPECTIVE 149</b> <i>S. Aziz, M. Bhatia</i> <i>University Hospitals of Leicester NHS Trust, Leicester, United Kingdom</i>
11:00 – 11:05	<b>CAN YOU TELL YOUR RECONSTRUCTION PLATE FROM YOUR DCP? INCORRECT PLATE CHOICE FOR FOREARM FIXATIONS: A REVIEW OF NEVER EVENT CASES 326</b> <i>M. Gawad, M.C. Rigby, R.A. Brooks</i> <i>Great Western Hospitals NHS Foundation Trust, Swindon, United Kingdom</i>
11:05 – 11:10	<b>EVALUATION OF PHYSICIAN BURNOUT AT A MAJOR TRAUMA CENTRE USING THE COPENHAGEN BURNOUT INVENTORY 346</b> <i>B. Caesar<sup>1</sup>, A. Barakat<sup>1</sup>, C. Bernard<sup>2</sup></i> <i><sup>1</sup>Brighton and Sussex University Hospitals, NHS Trust, Trauma and Orthopaedics, Brighton, United Kingdom, <sup>2</sup>Brighton and Sussex University Hospitals, NHS Trust, Emergency Medicine, Brighton, United Kingdom</i>
11:10 – 11:17	Discussion
11:17 – 11:22	<b>DAY SURGERY KNEE ARTHROPLASTY PATHWAY 376</b> <i>N. Gogi<sup>1</sup>, J. Nevin<sup>2</sup>, N. Bhuskute<sup>2,3</sup>, G. Walsh<sup>1,2</sup></i> <i><sup>1</sup>CHFT NHS Trust, Trauma and Orthopaedics, Huddersfield, United Kingdom, <sup>2</sup>BMI Huddersfield, Huddersfield, United Kingdom, <sup>3</sup>CHFT NHS Trust, Anaesthesia, Huddersfield, United Kingdom</i>
11:22 – 11:27	<b>SHOULD RADIOGRAPHS BE FORMALLY REPORTED BEFORE THE VIRTUAL FRACTURE CLINIC? 392</b> <i>M.L.T. Jayatilaka, F. Cowell, P. Houghton, K. Clay, M. Kiran</i> <i>Royal Liverpool and Broadgreen University Hospitals NHS Trust, Trauma and Orthopaedics, Liverpool, United Kingdom</i>
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11:32 – 11:39	Discussion

## Podium Presentations

11:39 – 11:44

### VIRTUAL FRACTURE CLINIC - THE MID CHESHIRE HOSPITALS NHS FOUNDATION TRUST PATIENT EXPERIENCE 500

*M. Franklin<sup>1</sup>, N. Boyce Cam<sup>2</sup>*

*<sup>1</sup>Health Education North West, Mersey Sector, Trauma and Orthopaedic Surgery, Manchester, United Kingdom, <sup>2</sup>Leighton Hospital, Trauma and Orthopaedic Surgery, Crewe, United Kingdom*

11:44 – 11:49

### ORTHOPAEDIC TRAINEES' PERCEPTIONS OF THE EDUCATIONAL VALUE OF DAILY TRAUMA MEETINGS 871

*Z. Haider, A. Hunter*

*University College Hospital, London, United Kingdom*

11:49 – 11:54

### LUMBAR SPINE RADIOGRAPH - IS IT TIME FOR NATIONAL ADOPTION OF THE PA PROTOCOL? 883

*C. Green, G. Karnati, K. Thomson, A. Subramanian*

*Musgrove Park Hospital, Taunton, United Kingdom*

11:54 – 12:00

### Discussion

14:15 – 15:45

### Oncology Free Papers Hall 4

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### Introduction

14:20 – 14:25

### EXPECTED METASTATIC SPINE OUTCOMES (EMSO): A 4-YEAR REVIEW OF PATIENTS' SURVIVAL AND NEUROLOGY 147

*S. Aziz, V. Burgula, A. Shetaiwi, P. Basu, W.W. Yoon*

*University Hospitals of Leicester NHS Trust, Leicester, United Kingdom*

14:25 – 14:30

### SHORT TERM BENEFITS OF PASSIVELY ELUTING AGLUNA SILVER ARE NOT PROVEN IN THE MEDIUM TERM FOR PREVENTING INFECTION IN EPRS 350

*J. Harris-Folb<sup>1</sup>, J. Stevenson<sup>2</sup>, N. Sheikh<sup>1</sup>, M. Parry<sup>1</sup>, M. Laitinen<sup>3</sup>, L. Jeys<sup>1</sup>*

*<sup>1</sup>Royal Orthopaedic Hospital, Birmingham, United Kingdom, <sup>2</sup>Royal Orthopaedic Hospital, Oncology Department, Birmingham, United Kingdom, <sup>3</sup>Helsinki University Hospital, Department of Orthopaedics and Traumatology, Helsinki, Finland*

14:30 – 14:35

### OUTCOMES OF HIP AND PELVIC RECONSTRUCTION USING POROUS TITANIUM REVISION ACETABULAR SYSTEMS AND RESTORATION STEMS IN PATIENTS WITH PERI-ACETABULAR AND PROXIMAL FEMORAL DEFECTS SECONDARY TO METASTATIC DISEASE - A SINGLE OPERATOR CASE SERIES 624

*E. Galloway<sup>1</sup>, P. Young<sup>2</sup>, M. Kelly<sup>1</sup>*

*<sup>1</sup>Queen Elizabeth University Hospital, Trauma and Orthopaedics, Glasgow, United Kingdom, <sup>2</sup>University Hospital Ayr, Trauma and Orthopaedics, Ayr, United Kingdom*



## Podium Presentations

14:35 – 14:40

### STAGING WORK UP IN CHONDROSARCOMA: IS A BONE SCAN WARRANTED FOR THE METASTATIC WORKUP OF CHONDROSARCOMA? A RETROSPECTIVE STUDY 717

*A. Gulia<sup>1</sup>, A. Puri<sup>1</sup>, V. Kurisunkal<sup>1</sup>, N. Purandare<sup>2</sup>*

<sup>1</sup>Tata Memorial Hospital, Orthopedic Oncology, Department of Surgical Oncology, Mumbai, India, <sup>2</sup>Tata Memorial Hospital, Department of Nuclear Medicine, Mumbai, India

14:40 – 14:47

### Discussion

14:47 – 14:52

### THE ARTICULARIS GENU MUSCLE 725

*M. Williams, J. Caterson, C. Gibbons, T. Cosker*

*Nuffield Orthopaedic Centre, Oxford, United Kingdom*

14:52 – 14:57

### APPLICATION OF EPINEURAL DISSECTION FOR LIPOSARCOMA ENCASEMENT OF THE SCIATIC NERVE 736

*J. Caterson, M. Williams, T. Cosker, C. Gibbons*

*Nuffield Orthopaedic Centre, Oxford, United Kingdom*

14:57 – 15:02

### MANAGEMENT OF OSTEOFIBROUS DYSPLASIA OF THE ULNA AFTER RESECTION WITH ELASTIC INTRAMEDULLARY NAIL AND NON-VASCULAR FIBULA GRAFT 774

*A.K. Singh, U. Ramteke, E. Pawar, T. Dahodwala*

*Grant Govt Medical College and Sir JJ Group Of Hospitals, Trauma and Orthopaedics, Mumbai, India*

15:02 – 15:07

### DOES THE OPTIMODEL APPLICATION HELP TO DETERMINE THE MANAGEMENT STRATEGY IN LONG BONE METASTATIC DISEASE? 938

*M. As-Sultany<sup>1</sup>, M. Kiran<sup>2</sup>, J. Alsousou<sup>1</sup>, G. Kumar<sup>2</sup>, B. Kapoor<sup>2</sup>*

<sup>1</sup>Mersey Deanery, Liverpool, United Kingdom, <sup>2</sup>Royal Liverpool and Broadgreen University Hospitals NHS Trust, Trauma and Orthopaedics, Liverpool, United Kingdom

15:07 – 15:14

### Discussion

14:15 – 15:45

### Basic Science Free Papers Hall 12

14:15 – 14:20

### Introduction

14:20 – 14:25

### A NOVEL ULTRA-LOW DOSE CT ALTERNATIVE TO RSA FOR MEASURING MIGRATION IN ARTHROPLASTY 175

*K. Logishetty<sup>1</sup>, C. Halewood<sup>2</sup>, J. Cobb<sup>1</sup>, S. Clarke<sup>1</sup>*

<sup>1</sup>Imperial College London, MSk Lab, London, United Kingdom, <sup>2</sup>Embody Orthopaedic Ltd, London, United Kingdom

## Podium Presentations

14:25 – 14:30

### ASSESSING CHROMATIN ACCESSIBILITY IN A HUMAN CHONDROCYTE CELL-LINE 272

*A. Panagiotopoulos, K. Cheung, J. Falk, D. Deehan, M. Barter, D. Young*

*Newcastle University, Skeletal Research Group, Institute of Genetic Medicine, Newcastle Upon Tyne, United Kingdom*

14:30 – 14:35

### SONOGRAPHIC BRIDGING CALLUS: AN EARLY PREDICTOR OF FRACTURE UNION 292

*J. Nicholson, W. Oliver, J. Lizhang, T. Macgillivray, F. Perks, M. Robinson, H. Simpson*

*University of Edinburgh, Department of Orthopaedics, Edinburgh, United Kingdom*

14:35 – 14:42

### Discussion

14:42 – 14:47

### THE BASIC SCIENCE OF THE BRADLEY CARBON FIBRE REINFORCED PLASTIC HIP REPLACEMENT STEM 582

*O. Blocker<sup>1</sup>, S. Phillips<sup>1</sup>, K. Tayton<sup>1</sup>, J. Bradley<sup>2</sup>*

*<sup>1</sup>Royal Gwent Hospital, Newport, United Kingdom, <sup>2</sup>Orthodynamics Ltd., Dorset, United Kingdom*

14:47 – 14:52

### EFFICACY OF ANTIBIOTIC-LOADED CALCIUM SULFATE TO ERADICATE ESTABLISHED BIOFILMS IN AN IN VITRO MODEL 706

*L. Cornes<sup>1</sup>, C. Delury<sup>1</sup>, S. Aiken<sup>1</sup>, P. Laycock<sup>1</sup>, H. Thomas<sup>2</sup>, L.E. Purcell<sup>2</sup>, C. Winstanley<sup>2</sup>, S.J. Westgate<sup>2</sup>*

*<sup>1</sup>Biocomposites Ltd, Research and Development, Stoke on Trent, United Kingdom, <sup>2</sup>Perfectus Biomed Limited, Cheshire, United Kingdom*

14:52 – 14:57

### 3D BIOPRINTED BACTERIAL BIOFILMS: A NOVEL, 3D METHOD FOR STUDYING ORTHOPAEDIC INFECTION 723

*G. Turnbull<sup>1,2</sup>, E. Ning<sup>2</sup>, K. Faulds<sup>2</sup>, P. Riches<sup>2</sup>, F. Picard<sup>1</sup>, W. Shu<sup>2</sup>, J. Clarke<sup>1</sup>*

*<sup>1</sup>Golden Jubilee National Hospital, Orthopaedic Surgery, Glasgow, United Kingdom, <sup>2</sup>University of Strathclyde, Glasgow, United Kingdom*

14:57 – 15:04

### Discussion

15:04 – 15:09

### IN VITRO ERADICATION OF ESTABLISHED BIOFILMS BY LOCAL RELEASE OF ANTIBIOTICS FROM A BI-PHASIC BONE GRAFT SUBSTITUTE 741

*L. Cornes<sup>1</sup>, C. Delury<sup>1</sup>, S. Aiken<sup>1</sup>, P. Laycock<sup>1</sup>, C. Winstanley<sup>2</sup>, S.J. Westgate<sup>2</sup>*

*<sup>1</sup>Biocomposites Ltd, Research and Development, Stoke on Trent, United Kingdom, <sup>2</sup>Perfectus Biomed Limited, Cheshire, United Kingdom*

15:09 – 15:14

### IN VITRO ELUTION AND EFFICACY OF FLUCLOXACILLIN RELEASED FROM CALCIUM SULFATE BEADS 751

*L. Cornes, R.K. Wilson-van Os, P. Laycock*

*Biocomposites Ltd, Research and Development, Stoke on Trent, United Kingdom*

## Podium Presentations

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### GLUTAMATE RECEPTOR EXPRESSION IN THE TIBIAL SUBCHONDRAL BONE CHANGES AFTER MEDIAL OPENING WEDGE HIGH TIBIAL OSTEOTOMY 783

*A. Kinghorn<sup>1,2</sup>, C. Elford<sup>1</sup>, P. Biggs<sup>1</sup>, C. Wilson<sup>2</sup>, C. Holt<sup>1</sup>, D. Mason<sup>1</sup>*

<sup>1</sup>Cardiff University, Arthritis Research UK Biomechanics and Bioengineering Centre, Cardiff, United Kingdom,

<sup>2</sup>Cardiff and Vale University Health Board, Department of Trauma and Orthopaedics, Cardiff, United Kingdom

15:19 – 15:26

### Discussion

15:26 – 15:31

### CLINICAL EFFECTIVENESS OF ASPIRIN AS MULTIMODAL THROMBOPROPHYLAXIS IN PRIMARY TOTAL HIP AND KNEE ARTHROPLASTY - A REVIEW OF 6078 CASES 831

*A. Ghosh<sup>1</sup>, A. Best<sup>2</sup>, S. Rudge<sup>1</sup>, U. Chatterji<sup>1</sup>*

<sup>1</sup>University Hospitals of Leicester NHS Trust, Leicester, United Kingdom, <sup>2</sup>University Hospitals of Leicester NHS

Trust, Trauma and Orthopaedics, Leicester, United Kingdom

15:31 – 15:36

### THE ELECTROSTATIC CONTRIBUTION OF PROTEOGLYCANS TO MECHANICAL STIFFNESS OF THE HUMAN MENISCUS 848

*F. Mahmood<sup>1,2</sup>, J. Clarke<sup>1</sup>, P. Riches<sup>2</sup>*

<sup>1</sup>NHS Golden Jubilee National Hospital, Department of Orthopaedics, Glasgow, United Kingdom, <sup>2</sup>University

of Strathclyde, Department of Biomedical Engineering, Glasgow, United Kingdom

15:36 – 15:43

### Discussion

16:50 – 18:00

### Spine Free Papers Hall 12

16:50 – 16:55

### Introduction

16:55 – 17:00

### HIGH CAREGIVERS SATISFACTION FOR MAGEC RODS DESPITE ADVERSE MEDIA ATTENTION 318

*R. Gordon, S. Thomson, S. Sloan, K. McDonald, J. Sales, E. Verzin, G. McLorinan, N. Darwish, N. Eames, R. Dhokia*

*Musgrave Park Hospital, Belfast, United Kingdom*

17:00 – 17:05

### MANAGEMENT OF C2 ODONTOID PEG FRAGILITY FRACTURES - A UK SURVEY OF SPINAL SURGEONS 547

*A.L. Watts, M. Athanassacopoulos, L. Breakwell, N. Chiverton, A. Cole, A.L.R. Michael, J. Tomlinson*

*Sheffield Teaching Hospital NHS Foundation Trust, Sheffield, United Kingdom*

## Podium Presentations

17:05 – 17:10

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*Z. Silk<sup>1</sup>, A. Dick<sup>1</sup>, R. Pinder<sup>2</sup>, S. Lyle<sup>1</sup>, C. Mallinson<sup>1,3</sup>, J. Lucas<sup>1,3</sup>*

<sup>1</sup>Guy's and St Thomas NHS Trust, London, United Kingdom, <sup>2</sup>Imperial College London, School of Public Health, London, United Kingdom, <sup>3</sup>Evelina Children's Hospital, London, United Kingdom

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*K.H. Sunil Kumar, S. Kaleel, R. Lovell, S. Bhagat, D. Cumming*

*Ipswich Hospital, Spinal Unit, Ipswich, United Kingdom*

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*S. Mastan, S. Sabou, M. Lea, R. Verma, I. Siddique, S. Mohammad*

*Salford Royal NHS FT, Manchester, United Kingdom*

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## Wednesday 11th September

08:30 – 10:00

Knee Free Papers  
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08:30 – 08:35

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**ROBOTIC ASSISTED PATELLO-FEMORAL ARTHROPLASTY: DOES PRE-OPERATIVE PLANNING CORRELATE TO INTRA-OPERATIVE IMPLANT POSITION?** 9

*A. Cattell<sup>1</sup>, V. Selvaratnam<sup>1</sup>, K. Eyres<sup>2</sup>, A. Toms<sup>2</sup>, V. Mandalia<sup>2</sup>*

<sup>1</sup>Royal Devon and Exeter Hospital, Exeter Knee Reconstruction Unit, Exeter, United Kingdom, <sup>2</sup>Nuffield Health Hospital, Exeter, United Kingdom

08:40 – 08:45

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*O. Blocker, D. Searle, K. Walmsley, K. Eyres, A. Toms, J. Phillips*

*Royal Devon and Exeter Hospital, Exeter Knee Reconstruction Unit, Exeter, United Kingdom*

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*A. Mannan, K. Walmsley, P. Schranz, V. Mandalia*

*Royal Devon and Exeter Hospital, Exeter Knee Reconstruction Unit, Exeter, United Kingdom*

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### CHONDROGENESIS WITH STEM CELLS IN MASSIVE CHONDRAL DEFECTS - A RANDOMISED CONTROLLED TRIAL **196**

*K.-Y. Saw<sup>1</sup>, R.C.S. Ng<sup>1</sup>, C.S.Y. Jee<sup>1</sup>, A. Anz<sup>2</sup>*

*<sup>1</sup>Kuala Lumpur Sports Medicine Centre, Kuala Lumpur, Malaysia, <sup>2</sup>Andrews Institute, Sports Medicine Orthopedic Surgery, Gulf Breeze, United States*

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*B. Kayani, S. Konan, S. Huq, J. Tahmassebi, F.S. Haddad*

*University College London Hospital, Trauma and Orthopaedics, London, United Kingdom*

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*J. Gill, P. Nicolai*

*West Suffolk Hospital NHS FT, Trauma and Orthopaedics, Bury St Edmunds, United Kingdom*

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*D. Haughton<sup>1, 2</sup>, A. Wheelton<sup>2</sup>, G. McLauchlan<sup>1</sup>*

*<sup>1</sup>Lancashire Teaching Hospitals, Preston, United Kingdom, <sup>2</sup>Health Education England - North West, Manchester, United Kingdom*

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### COMPARING MULTISITE COCKTAIL INJECTIONS WITH CANAL BLOCKS IN POSTOPERATIVE PAIN MANAGEMENT AFTER KNEE ARTHROPLASTY - IS THERE A WINNER? **662**

*V. Khanna<sup>1</sup>, A.V.G. Reddy<sup>2</sup>, S. Sankineani<sup>2</sup>, D. Daultani<sup>2</sup>, M. Shafeekh<sup>2</sup>, K. Jhakotia<sup>2</sup>, M. Sagi<sup>2</sup>, K.K. Eachampati<sup>3</sup>*

*<sup>1</sup>Wrightington, Wigan and Leigh, NHS Foundation Trust, Edge Hill University, Wigan, United Kingdom,*

*<sup>2</sup>Sunshine Hospital, Secunderabad, India, <sup>3</sup>Maxcure Hospital, Hyderabad, India*

## Podium Presentations

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*A. Garner<sup>1,2</sup>, R. Lambkin<sup>1</sup>, J. Cobb<sup>1</sup>*

<sup>1</sup>Imperial College London, London, United Kingdom, <sup>2</sup>Health Education Kent, Surrey and Sussex, London, United Kingdom

09:32 – 09:38

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*A. Garner<sup>1,2</sup>, R. Lambkin<sup>1</sup>, J. Cobb<sup>1</sup>*

<sup>1</sup>Imperial College London, London, United Kingdom, <sup>2</sup>Health Education Kent, Surrey and Sussex, London, United Kingdom

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*A. Alkhuzai*

*Sulaimani University, Orthopaedic Department, Sulaymaniyah, Iraq*

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*K. Kursumovic<sup>1</sup>, C.P. Charalambous<sup>2</sup>*

<sup>1</sup>West Suffolk Hospital NHS FT, Bury St. Edmunds, United Kingdom, <sup>2</sup>Blackpool Victoria Hospital, Trauma and Orthopaedics, Blackpool, United Kingdom

09:53 – 09:59

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10:30 – 10:35

**Introduction**

10:35 – 10:40

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*Z. Little<sup>1</sup>, A. Yeo<sup>1</sup>, Y. Gelfer<sup>1,2</sup>*

<sup>1</sup>St. George's Hospital, London, United Kingdom, <sup>2</sup>University of London, London, United Kingdom

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*S.-H. Chen, S. Srivatsan, G. Prasad, C. Brown, S.S. Kulkarni, A.S. Bidwai*

*Sherwood Forest Hospitals NHS FT, Trauma and Orthopaedics, Sutton-in-Ashfield, United Kingdom*

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**DE-THREADED SCREW FIXATION OF SLIPPED CAPITAL FEMORAL EPIPHYSIS INCREASES GROWTH BUT DOES NOT IMPROVE REMODELLING: A LONG TERM PROSPECTIVE, CASE-CONTROLLED COHORT STUDY 121**

*H. Mills<sup>1</sup>, M. Flowers<sup>2</sup>, N. Nicolaou<sup>2</sup>*

*<sup>1</sup>The University of Sheffield, Sheffield, United Kingdom, <sup>2</sup>Sheffield Children's Hospital, Sheffield, United Kingdom*

**10:50 – 10:57**

**Discussion**

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**COMBINED TWO-CENTRE EXPERIENCE OVER 10 YEARS WITH SINGLE ENTRY TELESCOPIC RODDING FOR SEVERE OSTEOGENESIS IMPERFECTA 180**

*S. Bleibleh<sup>1</sup>, L. Al-Mouazzen<sup>1,2</sup>, E. Bache<sup>1</sup>, S. Thomas<sup>2</sup>*

*<sup>1</sup>Birmingham Children's Hospital, Birmingham, United Kingdom, <sup>2</sup>Bristol Royal Children's Hospital, Trauma and Orthopaedics, Bristol, United Kingdom*

**11:02 – 11:07**

**SURGICAL TREATMENT OF PATHOLOGICAL DEVELOPMENTAL DYSPLASIA OF THE HIP (DDH): A 12-YEAR STUDY 425**

*Q. Choudry, R. Paton*

*East Lancashire Hospitals NHS Trust, Orthopaedics, Blackburn, United Kingdom*

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*B.A. Marson<sup>1</sup>, B. Oakley<sup>2</sup>, S. Srinivasan<sup>2</sup>, S. S<sup>2</sup>, J. Chell<sup>1</sup>, J. Hunter<sup>1</sup>, K. Price<sup>1</sup>*

*<sup>1</sup>Nottingham University Hospitals NHS Trust, T&O, Nottingham, United Kingdom, <sup>2</sup>Kings Mill Hospital, Sherwood Forests Hospital NHSMil, Mansfield, United Kingdom*

**11:12 – 11:19**

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**11:19 – 11:24**

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*H. Capitelli-McMahon<sup>1,2</sup>, S. Jenan<sup>3</sup>, R. Shah<sup>3</sup>, E. Bagouri<sup>3</sup>, A. Palamidi<sup>3</sup>*

*<sup>1</sup>Hull Royal Infirmary, Trauma and Orthopaedics, Leeds, United Kingdom, <sup>2</sup>Airedale General Hospital, Trauma and Orthopaedics, Leeds, United Kingdom, <sup>3</sup>Hull Royal Infirmary, Trauma and Orthopaedics, Hull, United Kingdom*

**11:24 – 11:29**

**PAEDIATRIC UPPER LIMB FRACTURE MANIPULATION IN THE CHILDREN'S EMERGENCY DEPARTMENT UNDER 70% NITROUS SEDATION: A SUCCESSFUL TREATMENT THAT PROVIDES COST SAVINGS 644**

*P. Cameron, D. Rad, E. Lindisfarne, A. Vaughan, T. Crompton, S. Maripuri*

*Brighton and Sussex University Hospitals NHS Trust, Brighton, United Kingdom*



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*A. Hoyle<sup>1</sup>, H. Auger<sup>1</sup>, J. Parkinson<sup>1</sup>, C. Peach<sup>2</sup>, N. Davis<sup>1</sup>*

<sup>1</sup>Royal Manchester Children's Hospital, Trauma and Orthopaedics, Manchester, United Kingdom, <sup>2</sup>University Hospital of South Manchester NHS Foundation Trust, Trauma and Orthopaedics, Manchester, United Kingdom

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### MIDTERM OUTCOME OF REVERSE VS OSTEOTOMY IN THE TREATMENT OF CUBITUS VARUS IN CHILDREN AND ADOLESCENT 906

*S. Hussain<sup>1</sup>, K. Khalid<sup>2</sup>, K.F. Chin<sup>1</sup>, S. Lambert<sup>3</sup>*

<sup>1</sup>Queens Hospital Romford, Trauma and Orthopaedics, London, United Kingdom, <sup>2</sup>Khyber Teaching Hospital Peshawar KPK Pakistan, Trauma and Orthopaedics, Peshawar, Pakistan, <sup>3</sup>RNOH Stanmore, Trauma and Orthopaedics, London, United Kingdom

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*E. Lindisfarne, A. Stabler, M. Barry, E. Gent, A. Aarvold*

Southampton University Hospitals NHS Trust, Paediatric Orthopaedic Department, Southampton, United Kingdom

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*M. Webb<sup>1</sup>, B. Devitt<sup>2</sup>, J. O'Donnell<sup>2</sup>*

<sup>1</sup>St. George's University Hospital, London, United Kingdom, <sup>2</sup>Hip Arthroscopy Australia, Melbourne, Australia

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*E.M. Valsamis<sup>1</sup>, J. Kany<sup>2</sup>, N. Bonneville<sup>3</sup>, R. Castricini<sup>4</sup>, A. Lädemann<sup>5</sup>, G. Cunningham<sup>6</sup>, G.S. Athwal<sup>7</sup>, J. Phadnis<sup>1</sup>*

<sup>1</sup>Brighton and Sussex University Hospitals NHS Trust, Trauma and Orthopaedics, Brighton, United Kingdom, <sup>2</sup>Clinique de l'Union, Shoulder Department, Saint Jean, France, <sup>3</sup>Centre Hospitalier Universitaire de Toulouse, Trauma and Orthopaedics, Toulouse, France, <sup>4</sup>Maria Cecilia Hospital, GVM Care and Research, Department of Orthopedic and Trauma Surgery, Ravenna, Italy, <sup>5</sup>La Tour Hospital, Division of Orthopaedics and Trauma Surgery, Meyrin, Switzerland, <sup>6</sup>Geneva University Hospitals, Division of Orthopaedics and Trauma Surgery, Geneva, Switzerland, <sup>7</sup>St. Joseph's Health Care, Western University, Roth McFarlane Hand and Upper Limb Center, London, Canada

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**10:45 – 10:50**

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*K.K.-W. Ho, S.I.I. Ho, K.-M. Mok*

*The Chinese University of Hong Kong, Orthopaedics and Traumatology, Hong Kong*

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*S. Fernquest<sup>1</sup>, A. Palmer<sup>1</sup>, M. Gimpe<sup>2</sup>, R. Birchall<sup>2</sup>, J. Broomfield<sup>1</sup>, T. Wedatilake<sup>2</sup>, P. Dijkstra<sup>1</sup>, J. Burchall<sup>1</sup>, T. Lloyd<sup>1</sup>, C. Pereira<sup>1</sup>, S. Newman<sup>1</sup>, A. Carr<sup>1</sup>, S. Glyn-Jones<sup>1</sup>*

*<sup>1</sup>University of Oxford, Nuffield Department of Orthopaedics, Rheumatology, and Musculoskeletal Sciences, Oxford, United Kingdom, <sup>2</sup>Southampton Football Club, Southampton, United Kingdom*

**11:02 – 11:07**

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*A. Konarski, M. Strang, N. Jain*

*Pennine Acute Hospitals, Manchester, United Kingdom*

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*K. Kursumovic, S. Perrio, W. Schenk, A.J. Dunn*

*West Suffolk Hospital NHS FT, Trauma and Orthopaedics, Bury St. Edmunds, United Kingdom*

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*A. Ayuob, B. Kayani, F. Haddad*

*University College London Hospital, Trauma and Orthopaedics, London, United Kingdom*

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*A. Ayuob, B. Kayani, F. Haddad*

*University College London Hospital, Trauma and Orthopaedics, London, United Kingdom*

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*F. Liaw, S. Govilkar, T. Woo, I. Britton, B. Youssef, J. Lim*

*University Hospital North Midlands, Newcastle-under-Lyme, United Kingdom*

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*B. Tsang, A. Clarke, B. Haughton, S. Jameson, P. Baker*

*South Tees Hospitals NHS Foundation Trust, Middlesbrough, United Kingdom*

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*T. Timmers<sup>1,2</sup>, L. Janssen<sup>3</sup>, W. Van der Weegen<sup>4</sup>, D. Das<sup>4</sup>, W.-J. Marrijnissen<sup>5</sup>, A. Plat<sup>6</sup>, B. Van der Zwaard<sup>6</sup>, B. Thomassen<sup>7</sup>, O. Lambers Heerspink<sup>8</sup>*

*<sup>1</sup>Radboud UMC, IQ Healthcare, Nijmegen, Netherlands, <sup>2</sup>Interactive Studios, R&D, Rosmalen, Netherlands, <sup>3</sup>Maxima Medisch Centrum, Surgery, Veldhoven, Netherlands, <sup>4</sup>St. Anna Hospital, Orthopaedics, Geldrop, Netherlands, <sup>5</sup>Albert Schweitzer Ziekenhuis, Orthopaedics, Dordrecht, Netherlands, <sup>6</sup>Jeroen Bosch Ziekenhuis, Orthopaedics, Den Bosch, Netherlands, <sup>7</sup>Haaglanden MC, Orthopaedics, Den Haag, Netherlands, <sup>8</sup>VieCuri Medical Center, Orthopaedics, Venlo, Netherlands*

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*L. Li, S. Nahas, R. Jandoo, P.H. Lionel Ganippa, S. Williams, D. Nathwani, R. Bhattacharya*

*Imperial College Healthcare NHS Trust, London, United Kingdom*

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*L. Dupley<sup>1</sup>, S. Ghosh<sup>2</sup>, S. Hossain<sup>1</sup>*

*<sup>1</sup>Pennine Acute Hospitals, Trauma and Orthopaedics, Manchester, United Kingdom, <sup>2</sup>Pennine Acute Hospitals, ENT, Manchester, United Kingdom*

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*K. Pearce<sup>1,2</sup>, F. Raheman<sup>1,2</sup>, L. Awdry<sup>1</sup>, C. Hatrick<sup>1</sup>*

*<sup>1</sup>Montefiore Hospital, Hove, United Kingdom, <sup>2</sup>Brighton and Sussex Medical School, Brighton, United Kingdom*

14:50 – 14:55

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*K. Anderson<sup>1</sup>, R. Jones<sup>1</sup>, R. Ramesh<sup>2</sup>, H. Whitmore<sup>1</sup>, M. Ng<sup>1</sup>*

*<sup>1</sup>Torbay Hospital, Torbay and South Devon NHS Foundation Trust, Department of Trauma and Orthopaedics, Paignton, United Kingdom, <sup>2</sup>Torbay Hospital, Torbay and South Devon NHS Foundation Trust, Paignton, United Kingdom*

## Podium Presentations

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*N. Evans<sup>1</sup>, M. Tennant<sup>2</sup>*

<sup>1</sup>York Teaching Hospitals NHS Trust, Trauma and Orthopaedics, Scarborough, United Kingdom, <sup>2</sup>York Teaching Hospitals NHS Trust, Physiotherapy, Scarborough, United Kingdom

15:00 – 15:05

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*K. Boddu, M. Siebachmeyer, S. Lakkol, J. Jain*

*Imera.Ai Limited, Ipswich, United Kingdom*

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*P. Tarassoli<sup>1</sup>, G. Dagnino<sup>2</sup>, I. Georgilas<sup>3</sup>, S. Dogramadzi<sup>4</sup>*

<sup>1</sup>University of Bristol, Medicine, Bristol, United Kingdom, <sup>2</sup>Imperial College London, London, United Kingdom, <sup>3</sup>University of Bath, Bath, United Kingdom, <sup>4</sup>University of the West of England, Bristol, United Kingdom

15:10 – 15:30

**Discussion**

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*P. Dasaraju, M. Parker*

*Peterborough City Hospital, Orthopaedics, Peterborough, United Kingdom*

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*W.M. Oliver, T.J. Smith, J.A. Nicholson, S.G. Molyneux, T.O. White, N.D. Clement, A.D. Duckworth*

*Royal Infirmary of Edinburgh, Edinburgh, United Kingdom*

14:35 – 14:40

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*A. Doorgakant, A. Kotadia, J. Craven, G. Reddy, S. Prasad*

*Warrington and Halton NHS Foundation, Trauma and Orthopaedics, Warrington, United Kingdom*

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*J. Craig, S. McDonald, R.J. Barr*

*Royal Victoria Hospital, Trauma and Orthopaedic Department, Belfast, United Kingdom*

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*A. Robertson, V. Pandey, C. Godavitarne, L. Harry, E. Guryel*

*Royal Sussex County Hospital, Brighton, United Kingdom*

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*K. Al-Hourani, M. Stoddart, A. Riddick, U. Khan, M. Kelly*

*Southmead Hospital, Bristol, United Kingdom*

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*D. Burchette<sup>1</sup>, M. Chowdhry<sup>1</sup>, D. Whelan<sup>2,3</sup>, A. Nathens<sup>2,4</sup>, P. Marks<sup>2,4</sup>, D. Wasserstein<sup>2,4</sup>*

*<sup>1</sup>Brighton and Sussex University Hospitals, NHS Trust, Trauma and Orthopaedics, Horsham, United Kingdom,*

*<sup>2</sup>University of Toronto, Faculty of Surgery, Toronto, Canada, <sup>3</sup>St. Michael's Hospital, Department of Surgery, Toronto, Canada, <sup>4</sup>Sunnybrook Health Sciences Centre, Toronto, Canada*

15:07 – 15:12

**WHAT'S IMPORTANT TO ME AND HOW DO I DECIDE? PATIENT EXPECTATIONS AND DECISION MAKING FOLLOWING TIBIAL TRAUMA; A QUALITATIVE STUDY 893**

*P. Harwood<sup>1</sup>, L. Johnson<sup>1</sup>, A. Spicer<sup>2</sup>, W. Crossland<sup>2</sup>*

*<sup>1</sup>Leeds Teaching Hospitals NHS Trust, Major Trauma Centre, Leeds, United Kingdom, <sup>2</sup>University of Leeds, Leeds, United Kingdom*

15:12 – 15:19

**Discussion**

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**Introduction**

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*R. Stevens, C. Blundell, C. Chadwick, H. Davies, M. Davies*

*Sheffield Teaching Hospitals, Sheffield, United Kingdom*

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*Brighton and Sussex University Hospitals, NHS Trust, Trauma and Orthopaedics, Brighton, United Kingdom*

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*A. Aljawadi<sup>1</sup>, B. Brandao<sup>2</sup>, A. Fox<sup>3</sup>, A. Pillai<sup>3</sup>*

*<sup>1</sup>University Hospital of South Manchester NHS Foundation Trust, Trauma and Orthopaedics, Manchester, United Kingdom, <sup>2</sup>University of Manchester, Manchester, United Kingdom, <sup>3</sup>University Hospital of South Manchester NHS Foundation Trust, Manchester, United Kingdom*

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*A. Aljawadi<sup>1</sup>, B. Brandao<sup>2</sup>, A. Fox<sup>3</sup>, A. Pillai<sup>3</sup>*

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*University of Alabama at Birmingham, Orthopaedics, Birmingham, United States*

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*University of Alabama at Birmingham, Orthopaedics, Birmingham, United States*

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*University Hospitals of Leicester, Leicester, United Kingdom*

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<sup>1</sup>East Lancashire Hospitals NHS Trust, Blackburn, United Kingdom, <sup>2</sup>University of Central Lancashire, Preston, United Kingdom

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*NHS Tayside, Trauma and Orthopaedics, Dundee, United Kingdom*

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<sup>1</sup>Queen Elizabeth Hospital, Kings Lynn, United Kingdom, <sup>2</sup>Queens Hospital Romford, Romford, United Kingdom, <sup>3</sup>Cambridge University Hospitals NHS Foundation Trust, Cambridge, United Kingdom

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*Hull Teaching Hospitals NHS Trust, Orthopaedic Surgery, Hull, United Kingdom*

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<sup>1</sup>Imperial College London, MSk Lab, London, United Kingdom, <sup>2</sup>The Ottawa Hospital, Ottawa, Canada
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*<sup>1</sup>Health Education England - North East, Newcastle Upon Tyne, United Kingdom, <sup>2</sup>Leeds University, Academic Department of Trauma and Orthopaedics, Leeds, United Kingdom, <sup>3</sup>Leeds General Infirmary, Academic Department of Trauma and Orthopaedics, Leeds, United Kingdom*

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*<sup>1</sup>University of Nottingham, Nottingham, United Kingdom, <sup>2</sup>Nottingham University Hospitals NHS Trust, Nottingham, United Kingdom*

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*<sup>1</sup>Aintree University Hospital, Liverpool, United Kingdom, <sup>2</sup>Lister Hospital, Stevenage, United Kingdom*

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*P. Bakhshayesh<sup>1,2</sup>, L. Weidwnhielm<sup>3</sup>, A. Enocson<sup>1</sup>*

*<sup>1</sup>Karolinska University Hospital, Stockholm, Sweden, <sup>2</sup>Imperial College Healthcare NHS Trust, Trauma and Orthopaedics, London, United Kingdom, <sup>3</sup>Karolinska Institute, Trauma and Orthopaedics, Stockholm, Sweden*

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*University of Leeds, Academic Department of Trauma and Orthopaedic Surgery, Leeds, United Kingdom*

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*A. Kumar<sup>1</sup>, B. Coupe<sup>2</sup>, A. Iqbal<sup>3</sup>*

*<sup>1</sup>Salford Royal NHS FT, Trauma and Orthopaedics, Salford, United Kingdom, <sup>2</sup>WWL NHS FT, Trauma and Orthopaedics, Wigan, United Kingdom, <sup>3</sup>Glan Clwyd Hospital, Trauma and Orthopaedics, Bodelwyddan, United Kingdom*

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*<sup>1</sup>Imperial College Healthcare NHS Trust, London, United Kingdom, <sup>2</sup>Barts Health NHS Trust, London, United Kingdom, <sup>3</sup>Imperial College London, London, United Kingdom*

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*J. Kelly<sup>1</sup>, M. Rickman<sup>2,3</sup>*

*<sup>1</sup>Central Adelaide Local Health Network, Department of Surgery, Adelaide, Australia, <sup>2</sup>Royal Adelaide Hospital, Director of Orthopaedic Trauma, Adelaide, Australia, <sup>3</sup>The University of Adelaide, Trauma and Orthopaedics, Adelaide, Australia*

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*K. Willett<sup>1</sup>, R. Knight<sup>2</sup>, R. Handley<sup>3</sup>, S.J. Dutton<sup>2</sup>, D.J. Keene<sup>1</sup>*

<sup>1</sup>University of Oxford, Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, Oxford, United Kingdom, <sup>2</sup>University of Oxford, Centre for Statistics in Medicine, Oxford, United Kingdom,

<sup>3</sup>Oxford University Hospitals NHS Foundation Trust, Orthopaedic Trauma Department, Oxford, United Kingdom

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*Addenbrooke's Hospital, Cambridge, United Kingdom*

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*D. Hamilton<sup>1</sup>, D. Beard<sup>2</sup>, K. Barker<sup>2</sup>, G. MacFarlane<sup>3</sup>, G. Murray<sup>4</sup>, H. Simpson<sup>1</sup>*

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*L. Houchen-Wolloff<sup>1</sup>, A. Essop-Adam<sup>1</sup>, R. Calver<sup>1</sup>, C. Dudson<sup>2</sup>, J. Mangwani<sup>2</sup>*

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*M. Hurley<sup>1,2</sup>, A. Carter<sup>2</sup>*

*<sup>1</sup>St. George's University of London and Kingston University, Faculty of Health, Social Care and Education, London, United Kingdom, <sup>2</sup>Health Innovation Network, Musculoskeletal Programme, London, United Kingdom*

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*M. Dennies*

*Warrington and Halton NHS Foundation Trust, Therapies, Warrington, United Kingdom*

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16:00 – 16:08

**PRIMARY OUTCOME MEASURES USED IN INTERVENTIONAL TRIALS OF ANKLE FRACTURES: A SYSTEMATIC REVIEW** **PRIMARY OUTCOME MEASURES USED IN INTERVENTIONAL TRIALS OF ANKLE FRACTURES: A SYSTEMATIC REVIEW** **324**

*R. McKeown<sup>1</sup>, A.-R. Rabiou<sup>2</sup>, D. Ellard<sup>1</sup>, R. Kearney<sup>1</sup>*

<sup>1</sup>University of Warwick, Warwick Clinical Trials Unit, Coventry, United Kingdom, <sup>2</sup>Royal Berkshire Hospital, Reading, United Kingdom

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*R. McKeown<sup>1</sup>, D. Ellard<sup>1</sup>, A.-R. Rabiou<sup>2</sup>, E. Karasouli<sup>1</sup>, R. Kearney<sup>1</sup>*

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Northumbria Healthcare NHS Foundation Trust, Trauma and Orthopaedic Surgery, Northumberland, United Kingdom

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*C. Scott<sup>1,2</sup>, D. MacDonald<sup>2</sup>, C. Howie<sup>1,2</sup>*

<sup>1</sup>Royal Infirmary of Edinburgh, Department of Orthopaedics, Edinburgh, United Kingdom, <sup>2</sup>University of Edinburgh, Edinburgh, United Kingdom

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<sup>1</sup>University of Oxford, Medical Sciences Division, Oxford, United Kingdom, <sup>2</sup>Horton General Hospital, Oxford, United Kingdom

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*J. Clutton<sup>1</sup>, R. Kakar<sup>2</sup>, S. Chitnis<sup>2</sup>, R. Morgan-Jones<sup>3</sup>*

<sup>1</sup>University Hospital of Wales, Trauma and Orthopaedics, Cardiff, United Kingdom, <sup>2</sup>University Hospital Wishaw, Wishaw, United Kingdom, <sup>3</sup>University Hospital of Llandough, Cardiff, United Kingdom

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<sup>3</sup>Great Western Hospitals NHS Foundation Trust, Swindon, United Kingdom, <sup>4</sup>Musculoskeletal Research Unit, University of Bristol, Bristol, United Kingdom

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*Cappagh National Orthopaedic Hospital, Department of Orthopaedic Surgery, Dublin, Ireland*

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*South West London Elective Orthopaedic Centre, London, United Kingdom*

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*Nottingham University Hospitals NHS Trust, Nottingham, United Kingdom*

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*Pinderfields General Hospital, Trauma and Orthopaedic Surgery, Wakefield, United Kingdom*

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*Robert Jones and Agnes Hunt Hospital, Oswestry, United Kingdom*



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*L.Z. Yapp, J.A. Nicholson, C.M. Robinson*

*Royal Infirmary of Edinburgh, Edinburgh, United Kingdom*

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*K.H. Sunil Kumar<sup>1</sup>, O. Negus<sup>2</sup>, W. Matthews<sup>2</sup>, S. Sjolin<sup>2</sup>*

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17:27 – 17:32

**RADIOGRAPHIC AND CT CHARACTERISTICS OF CORONOID FRACTURES AND INTER-OBSERVER RELIABILITY OF CORONOID FRACTURE CLASSIFICATION 648**

*P.A. Cameron, H. Syed, M. Valsamis, J. Phadnis*

*Brighton and Sussex University Hospitals NHS Trust, Brighton, United Kingdom*

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*M. Gandhi, A. Eyre-Brook, S. Booker, D. Thyagarajan, D. Stanley, A. Ali*

*Sheffield Teaching Hospital NHS Foundation Trust, Sheffield, United Kingdom*

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*R. Gogna<sup>1,2</sup>, S. Dhillon<sup>1</sup>, R. Dias<sup>1</sup>, T. McBride<sup>1</sup>*

*<sup>1</sup>Royal Wolverhampton Hospital NHS Trust, Wolverhampton, United Kingdom, <sup>2</sup>University Hospital Coventry and Warwickshire, Coventry, United Kingdom*

17:49 – 17:54

**RECONSTRUCTION OF IRREPARABLE ROTATOR CUFF TEAR WITH ACELLULAR DERMAL MATRIX IN PATIENTS AGED OVER 68 YEARS WITHOUT JOINT ARTHRITIS 951**

*H. Gbejuade, S. Patel, H. Singh, A. Modi*

*University Hospitals of Leicester NHS Trust, Trauma and Orthopaedics, Leicester, United Kingdom*

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08:40 – 08:45	<b>AN AUDIT ON REDUCING UNNECESSARY WASTE IN OPERATING THEATRES 1024</b> <i>R. Chow<sup>1</sup>, Y. Michla<sup>2</sup></i> <sup>1</sup> Newcastle University, Newcastle, United Kingdom, <sup>2</sup> Sunderland Royal Hospital, Sunderland, United Kingdom
08:45 – 08:50	<b>ADOLESCENT MIDSHAFT CLAVICLE FRACTURES: NONUNION IS NOT PREDICTED BY DISPLACEMENT 1067</b> <i>N. Ng<sup>1</sup>, P. Chen<sup>1</sup>, L. Yapp<sup>2</sup>, M. Robinson<sup>2</sup>, J. Nicholson<sup>2</sup></i> <sup>1</sup> University of Edinburgh, Edinburgh, United Kingdom, <sup>2</sup> Royal Infirmary of Edinburgh, Edinburgh, United Kingdom
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09:00 – 09:05	<b>EFFECTIVENESS OF VIRTUAL REALITY AND PHYSICAL MODEL SIMULATIONS IN UNDERGRADUATE ORTHOPAEDIC TRAINING 1078</b> <i>I. Kokotkin<sup>1</sup>, G. Wilson<sup>1</sup>, J. Bhaskar<sup>1</sup>, A. Zargaran<sup>1</sup>, A. Trompeter<sup>2</sup></i> <sup>1</sup> St George's, University of London, London, United Kingdom, <sup>2</sup> St George's University Hospitals NHS Foundation Trust, London, United Kingdom
09:05 – 09:10	<b>FUNCTIONAL OUTCOMES OF DISTENTION ARTHROGRAM FOR ADHESIVE CAPSULITIS AT TEN YEARS 1080</b> <i>A. Martindale, B. Slader, S. McKie, J. Nicholson</i> University of Edinburgh, Medical School, Edinburgh, United Kingdom

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09:15 – 09:20

**VENOUS THROMBOEMBOLISM AFTER ACUTE ACHILLES TENDON RUPTURE 1127**

*C. McCann<sup>1</sup>, S.P. Mackenzie<sup>2</sup>, S.A. Mackenzie<sup>2</sup>, N. Clement<sup>2</sup>, J. Maempel<sup>3</sup>*

<sup>1</sup>University of Edinburgh Medical School, Edinburgh, United Kingdom, <sup>2</sup>Royal Infirmary of Edinburgh, Edinburgh, United Kingdom, <sup>3</sup>Dandenong Hospital, Melbourne, Australia

09:20 – 09:25

**HOW RELIABLE IS THE 'EXPERT' AT DETECTING DDH BY CLINICAL EXAMINATION AT 6 WEEKS? 1132**

*B. Joseph<sup>1</sup>, A. Rhodes<sup>2</sup>, H.M. Yuen<sup>1</sup>, K. Elliot<sup>2</sup>, J. Judd<sup>2</sup>, A. Aarvold<sup>2</sup>*

<sup>1</sup>University of Southampton, Southampton, United Kingdom, <sup>2</sup>University Hospital Southampton, Southampton, United Kingdom

09:25 – 09:30

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*B. Greenfield<sup>1</sup>, H. Wynn-Jones<sup>2</sup>, P. Siney<sup>2</sup>, S. Jain<sup>2</sup>, P. Kay<sup>2</sup>, B. Purbach<sup>2</sup>, R. Jackson<sup>3</sup>, T. Board<sup>2</sup>*

<sup>1</sup>University of Manchester, Manchester, United Kingdom, <sup>2</sup>Wrightington Wigan Leigh NHS Trust, Centre for Hip Surgery, Wrightington, United Kingdom, <sup>3</sup>University of Liverpool, Liverpool Clinical Trials Unit, Liverpool, United Kingdom

09:30 – 09:35

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*A. Poacher<sup>1,2</sup>, B. Whitehead<sup>1</sup>, S. Gilbert<sup>1</sup>, C. Hughes<sup>1</sup>*

<sup>1</sup>Cardiff University, Cardiff, United Kingdom, <sup>2</sup>The Wolfson Foundation, London, United Kingdom

09:35 – 09:40

Discussion



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*Wrightington Hospital, WWL Trust, Hip and Knee, Wigan, United Kingdom*

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*The first affiliated hospital of Sun Yet-sen University, Joint surgery, Guangzhou, China*

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*<sup>1</sup>University of Edinburgh, Orthopaedic Surgery, Edinburgh, United Kingdom, <sup>2</sup>University of Edinburgh, School of Biological Sciences, Edinburgh, United Kingdom*

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*Brighton and Sussex University Hospitals, NHS Trust, Brighton, United Kingdom*

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*North Middlesex University Hospital, Trauma and Orthopaedics, London, United Kingdom*

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*<sup>1</sup>University of Edinburgh, Orthopaedic Surgery, Edinburgh, United Kingdom, <sup>2</sup>University of Edinburgh, School of Biological Sciences, Edinburgh, United Kingdom*

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*<sup>1</sup>Victoria Hospital, Trauma and Orthopaedics, Kirkcaldy, United Kingdom, <sup>2</sup>Royal Infirmary of Edinburgh, Trauma and Orthopaedics, Edinburgh, United Kingdom*

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*Royal Infirmary of Edinburgh, Edinburgh, United Kingdom*

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*<sup>1</sup>Salford Royal NHS FT, Trauma and Orthopaedics, Salford, United Kingdom, <sup>2</sup>Wrightington Hospital, WWL Trust, Trauma and Orthopaedics, Wigan, United Kingdom*

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*<sup>3</sup>Altnagelvin Area Hospital, Derry, United Kingdom*

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*<sup>1</sup>St. George's, University of London, London, United Kingdom, <sup>2</sup>St. George's University Hospital, NHS Foundation Trust, Department of Trauma and Orthopaedics, London, United Kingdom*

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*<sup>1</sup>Great Western Hospitals NHS Foundation Trust, Swindon, United Kingdom, <sup>2</sup>Great Western Hospitals NHS Foundation Trust, Trauma and Orthopaedics, Swindon, United Kingdom*

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*<sup>1</sup>University of Liverpool, Liverpool, United Kingdom, <sup>2</sup>Alder Hey Children's Hospital, Liverpool, United Kingdom*

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*Leeds General Infirmary, Leeds, United Kingdom*

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*<sup>1</sup>The Hillingdon Hospitals NHS Foundation Trust, London, United Kingdom, <sup>2</sup>Imperial College London, London, United Kingdom*

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*E. Martin<sup>1</sup>, J. Ward<sup>2</sup>, Z. Abual-Rub<sup>2</sup>*

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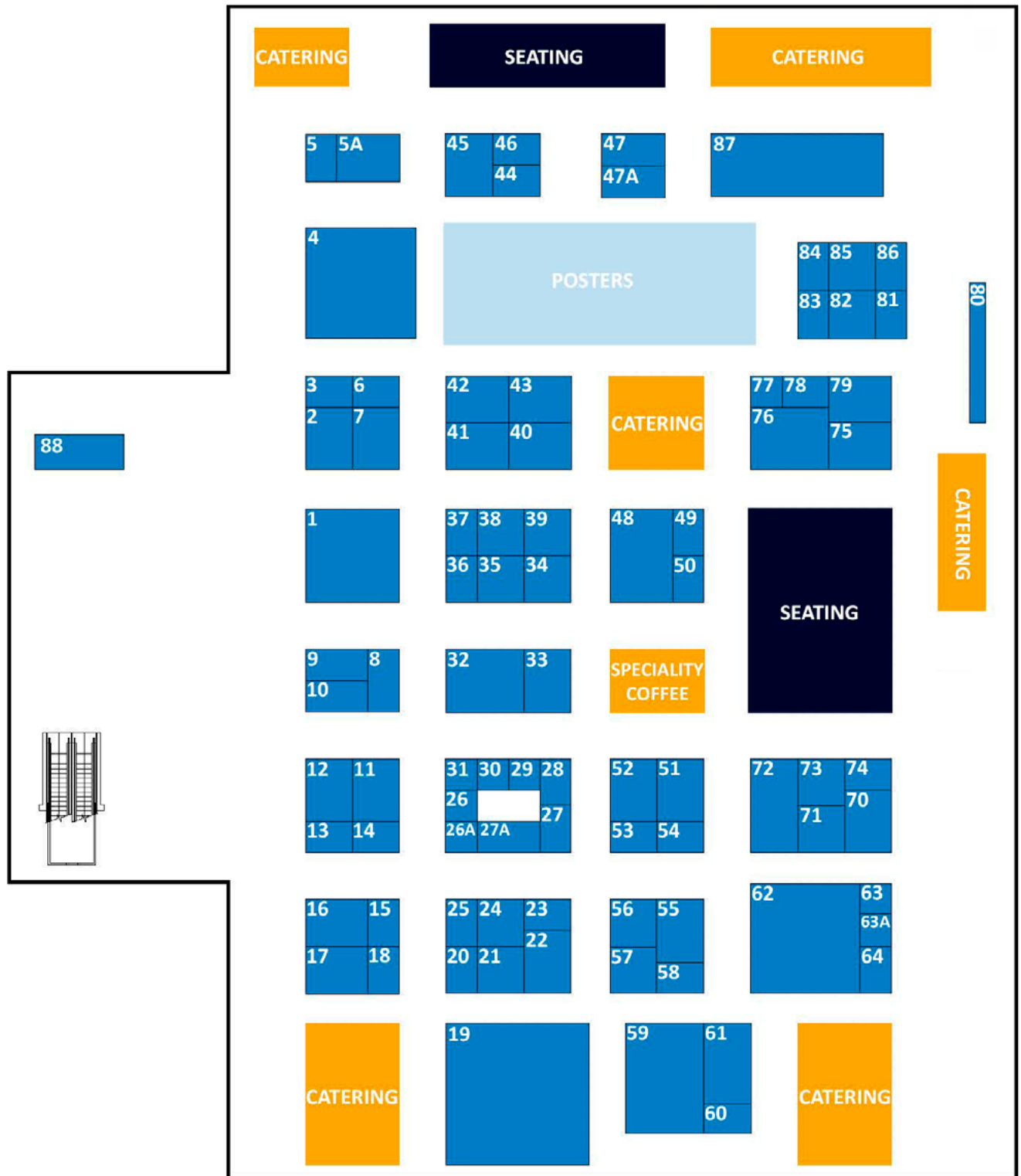
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\* Sprowson AP et al. Bone Joint J 2016; 98-B: 1534-1541





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## Exhibitors

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[www.amplitude-clinical.com](http://www.amplitude-clinical.com)



The pro series™ by Amplitude Clinical Outcomes provides market leading software, globally recognised and NHS accredited, used for the collection, management and reporting of Clinical and Patient Reported Outcomes. Amplitude is the first product to give an accurate 'whole picture' view of a department's, individual's or hospital's performance. ReferBack™ by Amplitude, offers an electronic, emergency referral management system that links directly to the BSR and is accredited by BASS.

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01904787767

[aouki1@btconnect.com](mailto:aouki1@btconnect.com)

[www.aouk.org](http://www.aouk.org)



The AO Foundation is a charitable organisation, which is dedicated to the promotion of excellence in surgery of musculoskeletal trauma. AO UK & Ireland is the Anglo-Irish section of the foundation and through its education department delivers non-profit making courses in the UK & Ireland to train surgeons and operating room personnel in the theory and practice of trauma. "Promoting excellence in patient care and outcomes in trauma and musculoskeletal disorders".

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[www.arthrex.com](http://www.arthrex.com)



Arthrex has developed more than 13,000 innovative products and surgical procedures to advance minimally invasive orthopaedics worldwide. Medical Education is at the core of Arthrex's foundations and our philosophy of Helping Surgeons Treat Their Patients Better has not only shaped our principles and history but is guiding us into the future. The UK specific MobileLab will be at the BOA conference so visit us at stand 87 to learn more.

### Biocomposites (72)

01782338580

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### Bone & Joint Publishing (53)

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www.bjj.boneandjoint.org.uk



Bone & Joint Publishing provides a complete and trusted resource for the orthopaedic, trauma and musculoskeletal science communities. Visit us on stand 55 if you have any questions about your print and online subscription to The Bone & Joint Journal and Bone & Joint 360, and collect your free Power Bank - available while stocks last.

### British Orthopaedic Association (88)

02074056507  
events@boa.ac.uk  
www.boa.ac.uk



The British Orthopaedic Association (BOA) is the surgical specialty association for trauma and orthopaedics in the UK. We provide national leadership, a unifying focus, and charitable endeavour by Caring for Patients; Supporting Surgeons and Transforming Lives. We currently have over 5,000 members; visit our stand for more information about our membership. Don't forget to purchase the BOA merchandise including our new BOA ties, keyrings, coasters, cufflinks and much more.

### British Orthopaedic Trainees Association (6)

07590696592  
secretary@bota.org.uk  
www.bota.org.uk



BOTA is an independent professional body promoting surgical excellence in trauma and orthopaedic surgical training within the United Kingdom. Founded in 1987 it is an organisation run by trainees, for trainees, for the benefit of patients.

### ConvaTec (47A)

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wound.webcare@convatec.com  
www.convatec.co.uk



ConvaTec is a global medical products and technologies company, with leading market positions in ostomy care, advanced wound care, continence and critical care, and infusion devices. Our products provide a range of clinical and economic benefits, including infection prevention, protection of at-risk skin, improved patient outcomes and reduced total cost of care. Visit our stand 47A to learn about optimal incision management with The Avelle™ Negative Pressure Wound Therapy System.

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### DePuy Synthes (62)

01133877800  
ukmarketingdept@its.jnj.com  
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stewart@idealmc.co.uk  
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07818845957  
stuart.murray@iskushealth.com  
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## Exhibitors

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01865223665  
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Managing Avascular Necrosis Treatments: an Investigational Study (MANTIS) is a NIHR HTA funded trial, looking at the use of bisphosphonates in the treatment of early stage AVN (Ficat & Arlet Score 1 or 2). The MANTIS trial is currently in the recruitment phase and looking to open several NHS hospitals across the UK. We are also enrolled on the NIHR Associate PI Scheme so if you are an interested clinician or trainee, please get in touch. For the latest updates, follow us on Twitter @mantis\_trial.

### Mathys Orthopaedics Ltd (36)

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## Exhibitors

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07459812202  
amit.doshi@merillife.com  
www.merillife.com



Meril develops and markets innovative orthopaedic medical devices on an International scale. The company is focused on providing state-of-the-art implants and related solutions that best restore patient mobility while accommodating lifestyle, anatomical and economic needs. Our products include primary and revision knee replacement systems, primary hip replacement systems and trauma range. Freedom Knee, our primary knee system is our flagship product.

### National Hip Fracture Database (3)

02030752395  
nhfd@rcplondon.ac.uk  
www.rcplondon.ac.uk/projects/national-hip-fracture-database-nhfd



The National Hip Fracture Database (NHFD) is a clinically led web-based audit of hip fracture care and secondary prevention in England, Wales and Northern Ireland. It collects data on all patients admitted to hospital with hip fractures and improves their care through auditing which is fed back to hospitals through targeted reports. With over half a million records, it is the most extensive hip fracture audit in the world.

### NHSBT Tissue and Eye Services (74)

08456076820  
tscustserv@nhsbt.nhs.uk  
www.nhsbt.nhs.uk/tissue-and-eye-services



#### Blood and Transplant

NHS Blood and Transplant has the largest retrieval and storage facility for human tissue in the UK, located at the Tissue and Eye Services Bank in Liverpool. As part of the NHS we operate as a not-for-profit organisation with patient safety at our core. We co-ordinate our entire supply chain, recover, process, and bank tissue. A wide range of human tissue is available with the addition of a bespoke service.

### NSK UK (29)

01438310670  
lsaint@nsk-uk.com  
www.nsk-surgery.co.uk



CREATE IT

NSK is a Japanese manufacturer of surgical and dental drills with over 85 years of experience. Since its establishment in 1930, NSK has dedicated itself to the development and production of high speed rotational technologies. NSK has grown into one of the global leading suppliers of surgical drill systems. Primado2 was developed for the challenging demands in neurological and spinal surgery, and is characterized by ultimate precision, ease of use and a favourable cost-benefit ratio.

### Open Medical (43)

02084752955  
info@openmedical.co.uk  
www.openmedical.co.uk



We are an innovative, clinician-led British health technology company that provides digital workflows for health care providers. eTrauma is our cloud based clinical system developed by orthopaedic specialists and professional software developers, specifically to serve as a secure and centralised platform for orthopaedic trauma coordination, virtual fracture clinic and fracture liaison service management.

### OrthOracle (23)

02081500074  
jill@orthoracle.com  
www.orthoracle.com



OrthOracle is a UK-based digital publisher of instructional Orthopaedic operative techniques and accredited by the British Orthopaedic Association and Royal Colleges of Surgeons of England and Edinburgh. Its content is designed for Consultants as well as Trainees. The platform also uses IBM Watson AI Technology to deliver full text academic papers, hosts user discussion groups and provides accredited CPD points for its many courses.

### Ottobock Healthcare (42)

01784744900  
bockuk@ottobock.com  
www.ottobock.co.uk



Celebrating its 100th anniversary in 2019, Ottobock is a world-leading supplier of high quality, innovative and practical mobility solutions to help people rediscover their independence. With its wide product range, Ottobock aims to achieve the best possible outcome for its customers, combining the latest technology with cutting-edge products and services.

## Exhibitors

### Pentland Medical (13)

01314675764  
mail@pentlandmedical.co.uk  
www.pentlandmedical.co.uk



Pentland Medical offers a wide range of patented and unique products for use in Operating Theatres. The products focus on helping you improve patient safety, clinical practice and meet the current demands of cost-conscious healthcare budgets. Please visit us on stand 13 to see our Pre-Anaesthetic Limb (PAL) Sleeve - proven to reduce bacterial load on the skin during pre-operative skin preparation. Also, our Hemaclear sterile exsanguination tourniquet.

### Pfizer Ltd (73)

01304616161  
www.pfizer.co.uk



Pfizer apply science and our global resources to bring therapies to people that extend and improve their lives. For more information, please visit us at: [www.pfizer.co.uk](http://www.pfizer.co.uk) or follow us on Twitter (@Pfizer\_UK) and Facebook (@PfizerUK). Visit our stand to share your experiences of helping patients to manage the chronic pain of osteoarthritis and discuss the role that pain mediators play in differentiating chronic pain from acute pain.

### Pharmed UK (79)

01295753549  
nicola.stoodley@powermeduk.co.uk  
www.pharmed-uk.com



Established in 1990, Pharmed UK (formerly Neurotechnics) provide innovative, high quality surgical and medical equipment throughout the UK and Europe. It is the aim of Pharmed UK to offer our customers the best products and the highest levels of service, support and after sales care possible. Specialising in advanced technology for orthopaedic, neuro and spinal surgery we offer multiple products for the most complex surgeries.

### PHYSIOLAB (38)

01908 263331  
customerservices@physiolab.com  
www.physiolab.com



PHYSIOLAB® specialise in localised soft tissue repair with products designed to improve clinical outcomes by effectively reducing swelling and inflammation. PHYSIOLAB's portable S1 unit is used by physiotherapists and surgeons worldwide to help relieve patient swelling, inflammation and pain pre and post-surgery. Given the S1's cooling and compression capabilities, it also aids physical recovery following periods of intense exercise. Visit the team on stand 38 for further information.

### Premium Medical Protection (9)

03451630053  
premiummedicalprotection.com  
www.premiummedicalprotection.com



Premium Medical Protection, provides bespoke Medical Professional Indemnity Insurance which has comprehensive cover up to £10 million limit of liability. Benefits include consent to settle and indefinite run off into retirement, (subject to underwriting). Call 0345 163 0053 or visit our website [www.premiummedicalprotection.com](http://www.premiummedicalprotection.com) Premium Medical Protection - Cover that works for you...

### Q-close (31)

07889453303  
jo.brentnall@qclose.com  
www.qclose.com



We are one of the largest global suture manufacturers with over 20 years' experience in producing high quality wound closure products. Q-close™ offer a comprehensive wound closure range, with a full range of proven absorbable and non-absorbable material polymers and needle types. Our range is designed to meet your needs: wide enough to support clinical need, yet simple enough to enable inventory management and rationalisation.

### Radley Scientific Ltd (44)

01364653899  
enquiries@tors.co.uk  
www.tors.co.uk



Radley Scientific Ltd was formed in 2016 from the R&D team of SRA Developments Ltd, the creators of Oscar (for Orthosonics Ltd.) and Lotus soft tissue scalpel (now owned by BOWA-electronic GmbH of Germany). We are experts in the design, development, manufacture and supply of ultrasonic devices for the healthcare market. RSL is attending the BOA Annual Congress in Liverpool in September 2019 to demonstrate our new ultrasonic system TORS (Torsional Orthopaedic Revision System) that applies the advantages of torsional ultrasound, discovered with Lotus, to the problem of PMMA removal. TORS has now acquired its CE mark and you can see the system in action on Stand No.44.

### Ramsay Health Care (58)

02078472877  
marketing@ramsayhealth.co.uk  
www.ramsayhealth.co.uk



Ramsay Health Care was established in Australia in 1964 and has grown to become a global hospital group operating over 480 hospitals and day surgery facilities across eleven countries. In the UK, Ramsay is one of the leading independent hospital providers, with a network of 37 facilities providing a comprehensive range of clinical specialties to private, self-insured as well as patients referred by the NHS. Ramsay also provides neurological services through its three neuro-rehabilitation units.

## Exhibitors

### Regen Lab (56)

01218640111  
contact@regenlab.com  
www.regenlab.com



Regen Lab SA Switzerland is a global leader in Regenerative Medicine and manufacturer of Medical Devices for preparation of autologous Platelet Rich Plasma (PRP), used either alone or combined with hyaluronic acid or other autologous cells extracts from fat or bone marrow. These technologies are inherently safe and efficient in pain management and accelerating healing; they have proven efficacy in ageing management, wound care, musculoskeletal pathologies and various gynaecological conditions.

### Royal College of Physicians and Surgeons of Glasgow (71)

01412216072  
wemet@rcpsg.ac.uk  
www.rcpsg.ac.uk



Based in Glasgow, we have over 14,000 fellows and members who work throughout the UK and internationally. Through a forward looking, progressive approach to training, assessment, career support and professional development, we inspire and nurture our members to deliver the highest possible standards of care for their patients.

### Royal College of Surgeons (25)

02074053474  
membership@rcseng.ac.uk  
www.rcseng.ac.uk



The Royal College of Surgeons exists to advance surgical care. We support over 27,000 members in the UK and internationally by improving their skills and knowledge, facilitating research and developing policy and guidance. We look forward to working with the British Orthopaedic Association at this year's congress. Visit us at stand 25 to find out more about our membership benefits. To keep up to date with all our latest news follow us on Twitter @RCSnews.

### Royal College of Surgeons of Edinburgh (35)

01315271600  
mail@rcsed.ac.uk  
www.rcsed.ac.uk



The Royal College of Surgeons of Edinburgh has been the professional home for surgery and dentistry for over 500 years. We advance surgical excellence internationally through education, training and examination. The College is committed to supporting the learning and career development of orthopaedic surgeons throughout their professional journeys, and embraces the complete surgical team with faculties dedicated to the advancement of surgical trainers, perioperative practitioners and more.

### SECTRA (37)

01279213660  
info.ortho@sectra.com  
www.sectra.com/ortho



With more than 25 years of innovation and 1,800 installations, Sectra is a leading global provider of imaging IT solutions that support healthcare in achieving patient-centric care. Sectra offers an enterprise imaging solution comprising PACS for imaging-intense departments (radiology, pathology, cardiology, orthopaedics), VNA, and share and collaborate solutions.

### SI-BONE UK LTD (20)

01423860025  
info@si-bone.com  
www.si-bone.com



SI-BONE, Inc. is a leading medical device company that has developed the iFuse Implant System®, a proprietary minimally invasive surgical implant system to fuse the sacroiliac joint. The triangular implants were designed specifically to stabilize and fuse the heavily loaded SI joint. More than 33,000 procedures have been performed with the iFuse Implant System - the Method of Choice for SI Joint Fusion®. The iFuse Implant, available since 2009, is the only device for treatment of SI joint dysfunction supported by significant published clinical evidence, including level 1 trials, showing safety, effectiveness and durability, including lasting pain relief.

### Siemens Healthineers (2)

01276696000  
sales.team@siemens-healthineers.com  
www.siemens-healthineers.com/en-uk/



Your partner for less invasive therapy. A way to stay ahead lies in less invasive image-guided procedures. Helping you tap into this potential, we strive to be your trusted partner. We are committed to developing the next level of patient treatment options. We support you in planning and implementing image-guided therapy solutions tailored to your specific needs. As your dedicated partner, we offer precise pre-procedural planning, efficient intraoperative guidance, and immediate quality control.

### Smith & Nephew (19)

01923477100  
customer.services.uki@smith-nephew.com  
www.smith-nephew.com



Smith & Nephew is a global medical technology business dedicated to supporting healthcare professionals in their daily efforts to improve the lives of their patients. With leadership positions in Orthopaedic Reconstruction, Advanced Wound Management, Sports Medicine and Trauma and Extremities, Smith & Nephew has more than 16,000 employees, a presence in more than 100 countries and annual sales of over \$4.9 billion in 2018. Smith & Nephew is a member of the FTSE100 (LSE:SN, NYSE:SNN).

## Exhibitors

### St Giles Medical Indemnity (34)

02082367420  
sgale@stgilesmidi.co.uk  
www.stgilesmidi.co.uk



St Giles Medical indemnity is at the forefront of providing Insurance backed Indemnity to medical professionals. Whatever the area of specialism St Giles via one of its panel of Insurers can provide bespoke cover to meet the practitioners specific requirements. The cover includes Insurance, a medico-legal helpline, run off, legal expenses and cyber cover. St Giles also has experience in providing ongoing CPD for its professional clients. Visit us at stand 34 or go to [www.stgilesmidi.co.uk](http://www.stgilesmidi.co.uk).

### Stryker (4)

01635556500  
enquiries@stryker.co.uk  
www.stryker.co.uk



Stryker is one of the world's leading medical technology companies and, together with our customers, we are driven to make healthcare better. Through CT-based 3D modelling of bone anatomy, the Mako Robotic Arm System creates a personalized surgical plan and identifies the implant size, orientation and alignment based on each patient's unique anatomy. Mako enables surgeons to virtually modify the surgical plan intra-operatively and assist in executing bone resections.

### Syntellix AG (46)

+4951127041350  
info@syntellix.com  
www.syntellix.com



Syntellix AG is internationally operating, dynamically growing medical technology company that specializes in the research, development marketing and sales of highly innovative bioabsorbable metallic implants made of the material MAGNEZIX® - the world's first magnesium-based material for implants. MAGNEZIX® implants degrade in the body and are converted into endogenous bone tissue while providing a favourable combination of stability, elasticity and bioabsorbability.

### The Medical Defence Union (28)

0800716376  
membership@themdu.com  
www.themdu.com



We are the UK's leading medical defence organisation. We offer members guidance, support and defence if their clinical competence or care of patients is questioned. We have an unparalleled track-record of helping members overcome the challenges which threaten their livelihood. Visit us on stand 28 to discuss MDU membership.

### The National Joint Registry (59)

08453459991  
enquiries@njrcentre.org.uk  
www.njrcentre.org.uk



The NJR monitors the performance of hip, knee, ankle, elbow and shoulder joint replacements to improve clinical outcomes for the benefit of patients, clinicians and industry. Now with over 2.8 million records, the NJR supports and enables research to maximise the value of the information it holds. Our stand will be showing rolling presentations on research topics that have used NJR data and we will also be sharing our latest NJR Annual Report. You can also get advice on accessing your NJR clinician feedback.

### The Standing CT Company (52)

02030260019  
kirsty.collins@standingct.com  
www.standingct.com



The Standing CT Company is a partnership with Orthopaedic surgeons and Radiologists. We are the leading provider of mobile weight-bearing CT scanning in the UK. Our scanners are used at numerous UK institutions including RNOH, Royal Surrey, Barts Health, HCA and The Hospital of St Johns and St Elizabeth to significantly improve the imaging of feet and ankles, knees and upper extremities. The scanners allow bilateral imaging in a single 30 second pass.

### United Orthopedic Corporation (33)

01827214773  
info@uoc-uk.com  
www.uoc-uk.com



United Orthopedic Corporation are an award-winning designer, manufacturer, and distributor of regulatory compliant orthopaedic implants and instrument sets used by surgeons around the globe. Our offering includes a flexible range of clinically proven solutions used to perform total hip/knee replacements and revisions, plus clinical education for surgeons and hospitals. Our U2 Knee AiO Block and Modular Disposable Trials were recently awarded bronze in the Annual Medical Design Excellence Awards.

### Wisepress (80)

02087151812  
bookshop@wisepress.com  
www.wisepress.com



Wisepress.com, Europe's leading conference bookseller, has a complete range of books and journals relevant to the themes of the meeting. Books can be purchased at the stand or, if you would rather not carry them, posted to you - Wisepress will deliver worldwide. In addition to attending 200 conferences per year, Wisepress has a comprehensive medical and scientific bookshop online with great offers.

## Exhibitors

### World Orthopaedic Concern UK (84)

07879401539  
secretary@wocuk.org  
www.wocuk.org



A charitable organisation dedicated to improving the standard of orthopaedic, trauma and reconstructive surgery in developing countries. WOC aims to:

- To provide orthopaedic education
- To give help and advice to those setting up orthopaedic training and service programmes
- To act as a pressure group in the UK to the NHS and to our colleagues, regarding orthopaedics in the developing world.
- To offer practical help and support to those practicing orthopaedics and training in orthopaedics in developing nations

### Wright Medical (54)

07889537173  
carly.reed@wright.com  
www.wright.com



Wright Medical is a global medical device company focused on Extremities and Biologics. We deliver innovative, value-added solutions improving quality of life for patients worldwide. We are a recognized leader of surgical solutions for the upper extremities (shoulder, elbow, wrist and hand), lower extremities (foot and ankle) and biologics markets, three of the fastest growing segments in orthopaedics.

### Xograph Healthcare (57)

01453820320  
enquiry@xograph.com  
www.xograph.com



Xograph is the UK's leading independent provider of diagnostic X-ray imaging systems with over 50 years of industry experience and with a product portfolio that includes:

- Mobile surgical C-arm fluoroscopy systems (2D and 3D)
- Mobile mini surgical C-arm fluoroscopy systems

Visit stand 57 to witness the UK launch of a very special new mobile surgical C-arms and for an introduction to a world of innovation in medical imaging.

### Zimmer Biomet UK Ltd (1)

01793584500  
ukcustcare@zimmerbiomet.com  
www.zimmerbiomet.com



Zimmer Biomet innovations help treat disorders of, or injuries to, the bones, joints, and supporting soft tissues. At Zimmer Biomet, our promise is to look beyond what's possible now to discover what's possible next. We work closely with healthcare professionals to innovate and expand the possibilities for successful treatment outcomes. Together with healthcare professionals, we help millions of people to live better lives.

## Conference Listing

### BTS (British Trauma Society)

[www.bts-org.co.uk](http://www.bts-org.co.uk)

6-7 November 2019, Nottingham

### BOFAS (British Orthopaedic Foot and Ankle Society)

[www.bofas.org.uk](http://www.bofas.org.uk)

13-15 November 2019, Nottingham

### BSS (British Scoliosis Society)

[www.britscoliosissoc.org.uk](http://www.britscoliosissoc.org.uk)

21-22 November 2019, Cardiff

### BOTA (British Orthopaedic Trainee Association)

[www.bota.org.uk](http://www.bota.org.uk)

27-29 November 2019, Edinburgh

### OTS (Orthopaedic Trauma Society)

[www.orthopaedictrauma.org.uk](http://www.orthopaedictrauma.org.uk)

15-17 January 2020, Newcastle

### BHS (British Hip Society)

[www.britishhipsociety.com](http://www.britishhipsociety.com)

4-6 March 2020, Wales

### BSCOS (British Society for Children's Orthopaedic Surgery)

[www.bscos.org.uk](http://www.bscos.org.uk)

19-20 March 2020, Manchester

### BRITSPINE

[www.ukssb.com](http://www.ukssb.com)

1-3 April 2020, London

### BASK (British Association for Surgery of the Knee)

[www.baskonline.com](http://www.baskonline.com)

16-17 April 2020, Oxford

### BSSH (British Society for Surgery of the Hand)

[www.bssh.ac.uk](http://www.bssh.ac.uk)

30 April - 1 May 2020, London

### WOC (World Orthopaedic Concern)

[www.wocuk.org](http://www.wocuk.org)

6 June 2020, Chester

### EFORT (European Federation of National Associations of Orthopaedics and Traumatology)

[www.efort.org](http://www.efort.org)

10-12 June 2020, Vienna

### CAOS (Computer Assisted Orthopaedic Surgery (International))

[www.caos-international.org](http://www.caos-international.org)

10-13 June 2020, Brest - France

### BESS (British Elbow and Shoulder Society)

[www.bess.org.uk](http://www.bess.org.uk)

24-26 June 2020, Brighton

### BIOS (British Indian Orthopaedic Society)

[www.britishindianorthopaedicsociety.org.uk](http://www.britishindianorthopaedicsociety.org.uk)

10-11 July 2020, Cardiff

### BOA (British Orthopaedic Association)

[www.boa.ac.uk](http://www.boa.ac.uk)

15-18 September 2020, Birmingham







British  
Orthopaedic  
Association

# ANNUAL CONGRESS 2020

## SAVE THE DATE

15th - 18th September  
ICC Birmingham

[boa.ac.uk/congress](http://boa.ac.uk/congress)



@BritOrthopaedic #BOAAC



British Orthopaedic Association



BritOrthopaedic



