



21ST ANNUAL SCIENTIFIC MEETING
22nd – 24th June, 2011

PROGRAMME

Wednesday 22nd June 2011

- 10.00 Registration
- 10.30 – 11.50 Research Symposium - “**Shoulder Biomechanics**”
Chair: **Amar Rangan**, Middlesbrough
- 10.30 **CLINICAL APPLICATION OF SOFT TISSUE BIOMECHANICAL MODELS**
Anthony Bull, London
- 10.50 **COMBINING IMAGING AND MOTION CAPTURE: A ROUTE TO QUANTIFYING SHOULDER FUNCTION**
Cathy Holt, Cardiff
- 11.10 **OPTIMISING SURGICAL OUTCOMES: ROLE OF IMPLANT DESIGN AND PRE-OPERATIVE PLANNING**
Garth Johnson, Newcastle
- 11.30 **FEA & PHYSICAL TESTING OF SHOULDER IMPLANTS**
Ulrich Hansen, London
- 11.50 – 12.05 Open discussions on the future activities of the research committee
- 12.05 – 12.10 BESS 2011 Grant Awards
- 12.10 – 12.25 Education Committee Update
- 12.25 – 12.35 PBA update
- 12.35 – 13.20 Lunch and Trade Exhibition
- 13.20 – 13.26 Welcome Address – **North East Team**
- 13.26 – 14.46 **Session 1: Basic Science**
Chairpersons: John Williams and Amar Rangan
- 13.26 - 13.34 **A CLASSIFICATION OF GLENOID TWIST**
Leeds Teaching Hospitals Trust
D Limb, D McMurray, A P Monk & R Soames
- 13.35 – 13.43 **A CADAVERIC STUDY OF THE STRUCTURAL ANATOMY OF THE STERNOCLAVICULAR JOINT**

Pan Am Clinic

A Van Tongel, P Macdonald, J Leiter, N Pouliart & J Peeler

13.44 – 13.52 **AN ANALYSIS OF CORTICAL THICKNESS PATTERNS OF THE PROXIMAL HUMERUS**

Imperial College London, London

A Majed, D Southgate, S Fetherston, P Reilly, AMJ Bull & RJH Emery

13.53 – 14.01 **THE EFFECT OF INSERTION ANGLE AND ANGLE OF APPLIED LOAD TO THE PULLOUT STRENGTH OF SUTURE ANCHORS - SHOULD WE CHALLENGE DEADMAN'S ANGLE?**

Royal Gwent Hospital, Newport

O Donaldson, M Dafydd, N Green, S Evans & R Kulkarni

14.02 – 14.10 **EFFECTS OF PROXIMAL HUMERAL FRACTURE MORPHOLOGY ON GLENOHUMERAL RANGE OF MOTION**

Imperial College, London and Leiden University Medical Center, Leiden, Netherlands

A Majed, P Krekel, C Botha, R Neilssen, **P Reilly**, AMJ Bull & RJH Emery

14.11 – 14.19 **THE EFFECT OF PHENYLEPHRINE INFUSION ON CEREBRAL OXYGEN SATURATION DURING BEACHCHAIR SURGERY.**

The Avenue and Glenferrie Private Hospitals, Melbourne, Australia. The University of Melbourne, Parkville Australia. The Melbourne Orthopaedic Group, Melbourne Australia

S.Hoy, P Soeding , G. Hoy , M Evans & C Royse

14.20 – 14.28 **MEDIOLATERAL SHAPE AND CURVATURE ANALYSIS OF THE CLAVICLE**

Department of Orthopaedic and Trauma Surgery Ghent

A Van Tongel, T Huysmans, **B Amit**, J Sijber & F Vanglabbeek

14.29 - 14.37 **CLAVICULAR ANATOMY: A SERIAL STUDY USING CT DATA AND 3D STATISTICAL ANALYSIS**

AO Research Institution, Davos, Switzerland

S Lambert, L Kamer & N Suedkamp

14.38 – 14.46 **WHAT ARE THE ASSOCIATIONS OF FROZEN SHOULDER?**

Royal Devon and Exeter Hospital

W J White, C D Smith & T D Bunker

14.47 – 15.30 Local Organisers' Guest Lecture
"Biceps/Labrum Complex 2011: An Algorithmic Approach"
Dr. Steve O'Brien (New York)

15.30 – 16.15 Coffee/Tea

16.16– 17.36 **Session 2: Elbow**
Chairpersons: Andy Carr and Ro Kulkarni

16.16 – 16.24 **ALLOGRAFT PROSTHESIS COMPOSITE RECONSTRUCTION FOR THE MANAGEMENT OF FAILED ELBOW ARTHROPLASTY WITH MASSIVE STRUCTURAL BONE LOSS. A MEDIUM TO LONG TERM FOLLOW UP**

Bristol Royal Infirmary & Northern General Hospital

R Amirfeyz & D Stanley

16.25 – 16.33 **ONGOING POSITIVE EFFECT OF PLATELET RICH PLASMA IN LATERAL EPICONDYLITIS**

St Elisabeth Hospital Tilburg NL

T. Gosens, J. Peerbooms, W. van Laar & B. den Oudsten

- 16.34– 16.42 **TOTAL ELBOW REPLACEMENT – NATIONAL DATA CAN PROVIDE BENCHMARKING FOR REVALIDATION AND PLANNING OF SURGICAL PROVISION**
James Cook University Hospital
SS Jameson, M Rymaszewska, P James, MR Reed, L Rymaszewski, A Rangan & JL McVie
- 16.43 – 16.51 **PLATELET RICH PLASMA INJECTION FOR DISTAL BICEPS MUSCULOTENDINOUS PATHOLOGY – A MULTICENTRE PROSPECTIVE STUDY**
St. Elisabeth Hospital Tilburg, NL, Wrightington Hospital
B W Morgan, T Gosens & L Funk
- 16.52 – 17.00 **MEDIUM TERM RESULTS (3-5 YEARS) OF A LATERAL RESURFACING ELBOW (LRE) ARTHROPLASTY IN ARTHRITIS**
Q.E. Hospital, Gateshead & Biomet Ltd
J. Pooley, **C. Tsiouri** & P. Smirthwaite
- 17.01 – 17.09 **TRICEPS DEFICIT FOLLOWING TOTAL ELBOW ARTHROPLASTY FOR DISTAL HUMERAL FRACTURES**
Sheffield Shoulder and Elbow Unit
V Jones, A Salama & **D Stanley**
- 17.10 – 17.18 **ENDOPROTHETIC REPLACEMENT FOR MALIGNANT TUMOURS OF THE DISTAL HUMERUS**
The Royal Orthopaedic Hospital, Birmingham
J Chakravarthy, L Jeys & R Grimer
- 17.19 – 17.27 **STRESS SHIELDING AND TOTAL ELBOW REPLACEMENTS - DOES THE ANTERIOR FLANGE REALLY WORK?**
School of Engineering, Cardiff University
JD Craik, CHL Laffer, SP Walsh, SW Richards, M Eaton & SL Evans
- 17.28 – 17.36 **SIXTEEN YEAR EXPERIENCE OF NERVE INJURIES ASSOCIATED WITH SUPRACONDYLAR FRACTURES OF THE HUMERUS IN CHILDREN**
Peripheral Nerve Injury Unit, The Royal National Orthopaedic Hospital, Stanmore
MTR Parratt, MM Sinisi & MP Fox
19. 45 BESS Conference Dinner – The SAGE, Gateshead

Thursday 23rd June 2011

07:45 – 08:45	Master Class A	Master Class B	Master Class C
	Nerve Injuries about the shoulder (clinical symposium)	Fixed angle devices for fractures of the proximal humerus – are they a help or a hindrance?	Elbow arthroplasty at the crossroads – evolution of indications and implants
	<u>Guy Broome</u>	<u>John Williams</u>	<u>Joe Pooley</u>

09.00 – 10.30 **Session 3: Rotator Cuff and Instability**
Chairpersons: Lars Neumann and Martin Holt

09.00 – 09.08 **RATES OF ARTHROSCOPIC SUBACROMIAL DECOMPRESSION AND ROTATOR CUFF REPAIR SURGERY IN THE NHS IN ENGLAND FROM 2000 TO 2010**

Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences,
NIHR Biomedical Research Unit, University of Oxford
RJ Murphy, R Maxwell, R Kulkarni, DJ Beard & AJ Carr

- 09.09 – 09.17 **IS ARTHROSCOPIC SUBACROMIAL DECOMPRESSION AN EFFECTIVE INTERVENTION IN THE MANAGEMENT OF PATIENTS WITH SHOULDER IMPINGEMENT SYNDROME?**
University Hospitals of Leicester NHS Trust
H Singh, S Magaji & R Pandey
- 09.18 – 09.26 **A RANDOMIZED CONTROLLED TRIAL TO ASSESS THE EFFICACY OF ARTHROSCOPIC SUBACROMIAL DECOMPRESSION WITH AND WITHOUT ROTATOR CUFF REPAIR**
Wrightington Hospital
S Odak, Powell E, D Temperley, J Haines & I Trail
- 09.27 – 09.35 **69 ARTHROSCOPIC CUFF REPAIRS IN THE OVER 70S**
Trafford General Hospital, Manchester
PM Robinson, J Wilson, P Norburn & BR Roy
- 09.36 – 09.44 **REPAIR OF MASSIVE ROTATOR CUFF TEARS – COMPARISON OF GRAFT JACKET ALLOGRAFT REPAIR VS PARTIAL ROTATOR CUFF REPAIR**
University Hospitals of Leicester
S Tafazal, S Shyamsundar, A Modi & R Pandey
- 09.45 – 09.53 **INCORPORATION OF THE BICEPS TENDON IMPROVES SURGICAL OUTCOME IN ARTHROSCOPIC RECONSTRUCTION OF MASSIVE ROTATOR CUFF TEARS: A PROSPECTIVE CASE-CONTROL STUDY**
Royal Infirmary of Edinburgh
ND Clement, S Alexander, T Nunn, D MacDonald & JM McBirnie
- 09.54 – 10.02 **REVISION ROTATOR CUFF REPAIR AUGMENTED WITH PORCINE SUBMUCOSAL COLLAGEN**
East Lancashire NHS Hospitals Trust
EV Mulgrew, G Haworth MN Yasin & M Srinivasan
- 10.03 – 10.11 **INDICATIONS FOR REVISION SHOULDER ARTHROSCOPY AND LESSONS LEARNT: PROSPECTIVE SINGLE SURGEON SERIES OVER 18 YEARS OF EXPERIENCE**
Sunderland Royal Hospital
KL Devalia, CD Jensen & AN Stirrat
- 10.12 – 10.20 **ARTHROSCOPIC CAPSULAR PPLICATION FOR ATRAUMATIC SHOULDER INSTABILTIY**
The Upper Limb Unit, Wrightington
JC Talbot, T H Carter & L Funk
- 10.21 – 10.29 **GOOD SURGICAL TECHNIQUE IS MORE IMPORTANT THAN NUMBER OF ANCHORS IN ARTHROSCOPIC SHOULDER STABILISATION**
Dewsbury and District Hospital, Yorkshire
C Witney-Lagen, N Perrera & B Venkateswaran
- 10.30 – 11.15 Coffee/tea
- 11.15-11.30 **Hot Topic 1**
PbR & Journal
Ro Kulkarni

11.30- 12.15

Session 4:

Section 4: Case reports with expert commentary
Chairman: David Stanley & Jaime Candal-Couto

- 11.30 – 11.40 **ANCONEUS COMPARTMENT SYNDROME AND POSTEROLATERAL ELBOW INSTABILITY**
Melbourne Orthopaedic Group, Melbourne Australia
P Jarman and **G Hoy**
Expert: **Ian Trail**
- 11.41 – 11.51 **ACUTE REPAIR OF THE MEDIAL COLLATERAL LIGAMENT COMPLEX FOLLOWING TRAUMATIC AVULSION IN PROFESSIONAL RUGBY PLAYERS: A CASE SERIES**
Royal Gwent Hospital, Newport
N Vannet, O Donadlson, K Lyons, R Kulkarni
Expert: **Mike Thomas**
- 11.52 – 12.02 **PARSONAGE TURNER SYNDROME -AN UNUSUAL CAUSE OF SHOULDER PAIN**
Worcestershire Acute Hospitals NHS Trust & University of Birmingham,
G Peffers, A Paul, K F Tait, S Bowman & A Prabu
Expert: **Andrew Wallace**
- 12.03 – 12.13 **FUSION OF OS-ACROMIALE: AN ARTHROSCOPIC TECHNIQUE**
Reading Shoulder Unit
E Atoun , A Narvani, A Van Tongel, E Rath, O Levy
Expert: **Dr. Steve O'Brien**
- 12.15 – 12.55 President's Guest Lecture
- Anatomy and Biomechanics of the Shoulder: Consequences for Total Shoulder Arthroplasty**
Professor Lieven De Wilde (Belgium)
- 12.55 - 13.55 Lunch
- 13.55 – 15.15 **Session 5: Shoulder Arthroplasty and Miscellaneous**
Chairpersons: Mike Thomas and Allan Stirrat
- 13.55 – 14.03 **FIVE YEAR SURVIVORSHIP AND CLINICAL OUTCOMES IN CEMENTED VERSUS UNCEMENTED HUMERAL STEMS**
James Cook University Hospital, Middlesbrough, Orthopaedische Klinik Kassel, Germany & New Royal Infirmary, Edinburgh
A Weusten, F Xypnitos, L Goodchild, L Kottam, C Hauenstein, S Mai, W Siebert, C Philips, JM McBirnie & A Rangan
- 14.04 – 14.12 **OUTCOME OF REVISION SURGERY AFTER FAILED COPELAND SURFACE REPLACEMENT**
The Robert Jones and Agnes Hunt Orthopaedic Hospital
A Jaiswal, CP Kelly & SM Hay

- 14.13 – 14.21 **COPELAND SURFACE SHOULDER REPLACEMENT ARTHROPLASTY FOR CUFF TEAR ARTHROPATHY –STANDARD IMPLANT OR EXTENDED HEAD?**
Heatherwood and Wexham Park Hospitals Foundation Trust
RT Benson, S Rajkumar & M Thomas
- 14.22 – 14.30 **THE UNCEMENTED METAL-BACKED GLENOID FOR OSTEOARTHRITIS OF THE SHOULDER: 5 TO 14 YEAR FOLLOW-UP**
Sunderland Royal Hospital
ND Clement, AD Duckworth, R Colling & AN Stirrat
- 14.31 - 14.39 **20 YEAR RESULTS FROM UNCEMENTED, METAL-BACK GLENOID IMPLANTS**
Nottingham Shoulder & Elbow Unit
WA Wallace
- 14.40 – 14.48 **REVISION OF SHOULDER HEMIARTHROPLASTY FOR PAINFUL GLENOID EROSION : ANATOMIC VERSUS REVERSE PROSTHESIS**
Emile Gallé Surgical Centre, France
F Sirveaux, F Wein, J Armengol, J Porcellini, G Walch & D Molé
- 14.49 – 14.57 **COMPARISON OF CLINICAL OUTCOMES OF REVERSE SHOULDER ARTHROPLASTY WITH GLENOSPHERES OF DIFFERENT DESIGNS, DIAMETERS AND MATERIALS.**
University Hospital Rostock Germany
HR Bloch, A Castagna, A Bischof, P Budassi, JD Agneskirchner, C Domenghini, M Borroni, S Frattini & S Zoni.
- 14.58 – 15.06 **TOTAL SHOULDER REPLACEMENT OR HEMIARTHROPLASTY – COMPLICATION RATES IN THE ENGLISH NHS (2005-2010)**
James Cook University Hospital
SS Jameson, S Ahmad, P James, MR Reed, **JL McVie** & A Rangan
- 15.07 - 15.15 **DELIVERING A TELEMEDICINE OUTPATIENT SHOULDER CLINIC WITHIN THE NHS**
Nottingham Shoulder & Elbow Unit
WA Wallace, J Walton, P Cook, I Smith, P Wilson & **W Monaghan**
- 15.16 – 15.36 **King James IV Lecture 2011**
Professor Tim Bunker
- 15.40 – 16.10 Coffee/Tea
- 16-10 – 17.30 AGM
- 19-30 BESS Members' Dinner – The Baltic Centre

Friday 24th June 2011

07:45 – 08:45	Master Class A	Master Class B	Master Class C
	Rehabilitation from nerve Injury – current trends <u>Guy Broome</u>	Complex fracture dislocations at the elbow – concepts and tips for management <u>John Williams</u>	Elbow arthroplasty at the crossroads – evolution of indications and implants <u>Joe Pooley</u>

09.00 – 10.30

Session 6: Therapy and Miscellaneous
Chairpersons: Martin Scott and Simon Lambert

09.00 – 09.08

ACCELERATED REHABILITATION AFTER STABILISATION SURGERY: INTO THE UNKNOWN

Liverpool Upper Limb Unit
J C Gibson & P Brownson

09.09 – 09.17

KEY OUTCOMES FOR SHOULDER PAIN: THE FINAL COUNTDOWN

University of East Anglia
C Payne, C Jerosch-Herold & R Mason

09.18 – 09.26

THE BENEFITS OF AN ECCENTRIC EXERCISE PROGRAMME FOR PATIENTS WITH A DIAGNOSIS OF RECALCITRANT TENNIS ELBOW

Sheffield Shoulder and Elbow Unit
V Jones & D Stanley

09.27 – 09.35

THE EPIDEMIOLOGY OF SHOULDER INJURIES IN THE WELSH REGIONAL RUGBY TEAMS 2009-10

Royal Gwent Hospital, Newport
O Donaldson, H Sprot, K Jones, H Griffiths & R Kulkarni

09.36 – 09.44

EXTERNAL ROTATION BRACING COMPARED TO CONVENTIONAL SLING IN FIRST TIME ANTERIOR SHOULDER DISLOCATION

The Hand and Upper Limb Unit, Robert Jones and Agnes Hunt Hospital, Oswestry, Shropshire, England and Keele University, Staffordshire
CP Kelly, HJ Smith & JH Kuiper

09.45 – 09.53

USING MULTIPLE MEASURES OF SHOULDER FUNCTION. CAN SCORING SYSTEMS BE MISLEADING?

Aberdeen Royal Infirmary, Medical Statistics Team, University of Aberdeen
J Beastall, S Fielding, E Christie & A Johnstone

09.54 – 10.02

ULTRASOUND-GUIDED SUPRASCAPULAR NERVE BLOCK FOR PATIENTS WITH PERSISTENT SHOULDER PAIN

Trafford General Hospital, Manchester
J Sultan, J Wilson, E Goodyear, U Narendran & B Roy.

10.03 – 10.11

A NOVEL LEARNING METHOD FOR ORTHOPAEDIC SURGEONS PERFORMING POINT OF CARE SHOULDER ULTRASOUND

Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, NIHR Biomedical Research Unit, University of Oxford
RJ Murphy, MT Daines, AJ Carr & JL Rees

- 10.12 – 10.20 **ACCURACY OF PREOPERATIVE ULTRASOUND SCANS IN IDENTIFYING ROTATOR CUFF TEAR**
Avon Orthopaedic Centre, Bristol
S Punwar, PW Robinson & N Blewitt
- 10.21 – 10.29 **DEVELOPMENT AND VALIDATION OF A SCAPULAR INJURY CLASSIFICATION SYSTEM**
AO Clinical Investigation and Documentation, Dübendorf, Switzerland
M Jaeger, S Lambert, J Kellam & L Audigé
- 10.30- 11.00 Coffee/tea
- 11.00 – 12.15 **Session 7: Shoulder and Trauma**
Chairpersons: Paul Manning and Ian Trail
- 11.00 – 11.08 **PATIENT REPORTED OUTCOME AND SPEED OF RECOVERY AFTER ARTHROSCOPIC CAPSULAR RELEASE FOR INSIDIOUS ONSET FROZEN SHOULDER.**
Royal Devon and Exeter hospital
CD Smith & TD Bunker
- 11.09 – 11.17 **A PROSPECTIVE RANDOMISED TRIAL COMPARING MANIPULATION UNDER ANAESTHESIA AND CAPSULAR DISTENSION FOR THE TREATMENT OF ADHESIVE CAPSULITIS OF THE SHOULDER**
Queen Margaret Hospital, Fife
C Y Ng, A K Amin, L McMullan, S McKie, I J Brenkel & R Cook
- 11.18 – 11.26 **FUNCTIONAL OUTCOME OF ARTHROSCOPIC CAPSULAR RELEASE FOR PRIMARY FROZEN SHOULDER; ASSESSED USING PATIENT REPORTED OUTCOME MEASURES AND A PATIENT SATISFACTION QUESTIONNAIRE**
Southampton University Hospital NHS Trust
AJ Nicholls, S Garg, TB Crook, GC Hand & AS Cole
- 11.27 – 11.35 **A STUDY OF THE CLINICAL OUTCOME OF MANIPULATION UNDER ANAESTHETIC AND STEROID INJECTION AS TREATMENT FOR FROZEN SHOULDER AND A COST ANALYSIS.**
University Hospitals of Leicester NHS Trust, Leicester Nuffield Hospital, Spire Hospital Leicester.
AL Armstrong
- 11.36 – 11.44 **OUTCOMES OF ROCKWOOD PIN FIXATION FOR DIAPHYSEAL CLAVICLE FRACTURES**
Macclesfield District General Hospital
R Singhal, P Ralte, D Withers & M Waseem
- 11.45 – 11.53 **PLATE FIXATION OF ACUTE MIDSHAFT CLAVICLE FRACTURES- RESULTS OF 172 CASES.**
Norfolk and Norwich University Hospital NHS Foundation Trust, Norwich
N Modi, A D Patel & P Hallam
- 11.54 – 12.02 **THE IMPORTANCE OF THE INFERO-MEDIAL LOCKING SCREWS IN FRACTURES OF THE PROXIMAL HUMERUS**
Royal College of Surgeons in Ireland, Dublin
NG Burke, J Kennedy, D Fitzpatrick & H Mullett

12.03 – 12.11 **TREATMENT OF PROXIMAL HUMERUS FRACTURES WITH THE STRYKER T2 PROXIMAL HUMERAL NAIL: A STUDY OF 61 CASES**
Department of Orthopaedics, Dewsbury and District Hospital, Yorkshire, UK
C Witney-Lagen & **B Venkateswaran**

12.12 – 12.30 BESS Fellowship presentations (3 mins each)

12.30 – 12.45 BESS awards

12.45 – 12.50 BESS 2012 Torquay

12.50 Closing remarks

14.00 – 17.30 AHP Meeting - **“The Stiff Shoulder”**

Chairpersons - Lorna Goodchild, Anju Jaggi and Nigel Hanchard.

14.00 Introduction – **Lorna Goodchild**, Middlesbrough

14.05 **Frozen Shoulder; Evidence Not Myths**
Tim Bunker, Exeter

14.50 **Evidence Based Guidelines – Diagnosis, Assessment and Physiotherapy Management of Contracted (Frozen) Shoulder**
Nigel Hanchard, Middlesbrough

15.30 Refreshments & Exhibition

16.00 **When The Shoulder Is Not Frozen But Stiff**
Willem Fourie, South Africa

16.45 **Radiology in the Stiff Shoulder – Is There Any Role?**
Raj Sinha, Newcastle

17.10 Discussion

17.30 Closing remarks

Posters

MID-TO-LONG TERM FOLLOW-UP OF THE BOYD-MCLEOD PROCEDURE FOR TENNIS ELBOW.

University Hospital North Tees
RP Jeavons, I Richards & N Bayliss

THE EFFICACY OF ULTRASOUND-GUIDED INJECTIONS FOR SHOULDER PAIN: A SYSTEMATIC REVIEW

Leeds Metropolitan University, and North Tees & Hartlepool NHS Foundation Trust
M Nauschutz & K Thompson

EARLY FUNCTIONAL RESULTS OF THE REVERSE SHOULDER PROSTHESIS FOR ACUTE FRACTURE IN ELDERLY ARE IMPROVED BY TUBEROSITY HEALING

Emile Gallé Surgical Centre

F Sirveaux, F Wein-Remy, D Block, J Sedaghatian, O Roche & D Molé

REVERSE SHOULDER ARTHROPLASTY IN TRAUMA: WHAT DOES A RADIOLOGIC FOLLOW-UP OF 1 TO 17 YEARS REVEAL?

Centre hospitalier. Service de chirurgie orthopédique et traumatologique, France

JF Cazeneuve, Y Hasssan & A Hilaneh.

THE OXFORD SHOULDER SCORE IN AN ASYMPTOMATIC POPULATION

St George's Shoulder Unit

H Hingston, E O Pearse & T D Tennent

ARTHROSCOPIC OSTEOCAPSULAR RELEASE FOR ELBOW OSTEOARTHRITIS; MEDIUM TERM FOLLOW UP

Portsmouth Hospitals NHS Trust

GJ Bayne & DJ Watkinson

FILLING THE VOID: A STUDY COMPARING INTERNAL FIXATION OF COMPLEX PROXIMAL HUMERAL FRACTURES WITH AND WITHOUT USE OF BOVINE CANCELLOUS BONE GRAFT

James Cook University Hospital, Middlesbrough

L Lee, S Patil, M Ismail & R Liow

ANALYSIS OF REVISION ARTHROSCOPIC SUBACROMIAL DECOMPRESSION

King's College hospital

AK Singh, MK Pimple, A Tavakolizadeh & J Sinha

GLENOID PROSTHESIS LOOSENING: A COMPARISON BETWEEN STANDARD AND POSTERIOR AUGMENT GLENOID DESIGNS

Orthopaedic Associates; Waukesha, WI & Exactech, Inc.; Gainesville, FL

R. Papandrea & C. Roche

THE USE OF GRAFT JACKET FOR MASSIVE IRREPARABLE ROTATOR CUFF TEARS: 1-4 year Follow Up

University Hospitals of Leicester NHS Trust

A Modi, R Pandey & A Armstrong

THE RELEVANT ANATOMY OF THE STERNOCLAVICULAR JOINT IN RELATION TO ARTHROSCOPIC SURGICAL APPROACHES

Addenbrooke's Hospital

MD Wijeratna, TD Turmezei & GM Tytherleigh-Strong

INCIDENCE AND MANAGEMENT OF SHOULDER INJURIES IN PREMIER LEAGUE PROFESSIONAL FOOTBALL PLAYERS.

Bridgewater Hospital

C Pritchard, S Mills, L Funk & P Batty

PECTORALIS MAJOR TENDON AS A GUIDE TO RESTORING HUMERAL LENGTH DURING PHILOS PLATING FOR PROXIMAL HUMERUS FRACTURE

Wansbeck General Hospital

SE Johnson-Lynn & J Candal-Couto

NORMAL RANGE OF MOTION OF THE SHOULDER: AN IMPRECISE BENCHMARK

University Hospital of South Manchester

M Anderton, M Newton Ede & E Holt