PROGRAMME

Wednesday 22\textsuperscript{nd} June 2011

10.00 \hspace{2em} Registration

10.30 – 11.50 \hspace{2em} Research Symposium - "Shoulder Biomechanics"
\hspace{2em} Chair: \hspace{0.5em} Amar Rangan, Middlesbrough

10.30 \hspace{2em} CLINICAL APPLICATION OF SOFT TISSUE BIOMECHANICAL MODELS
\hspace{2em} \textbf{Anthony Bull}, London

10.50 \hspace{2em} COMBINING IMAGING AND MOTION CAPTURE: A ROUTE TO QUANTIFYING
\hspace{2em} SHOULDER FUNCTION
\hspace{2em} \textbf{Cathy Holt}, Cardiff

11.10 \hspace{2em} OPTIMISING SURGICAL OUTCOMES: ROLE OF IMPLANT DESIGN AND PRE-
\hspace{2em} OPERATIVE PLANNING
\hspace{2em} \textbf{Garth Johnson}, Newcastle

11.30 \hspace{2em} FEA & PHYSICAL TESTING OF SHOULDER IMPLANTS
\hspace{2em} \textbf{Ulrich Hansen}, London

11.50 – 12.05 \hspace{2em} Open discussions on the future activities of the research committee

12.05 – 12.10 \hspace{2em} BESS 2011 Grant Awards

12.10 – 12.25 \hspace{2em} Education Committee Update

12.25 – 12.35 \hspace{2em} PBA update

12.35 – 13.20 \hspace{2em} Lunch and Trade Exhibition

13.20 – 13.26 \hspace{2em} Welcome Address – \textbf{North East Team}

13.26 – 14.46 \hspace{2em} Session 1: Basic Science
\hspace{2em} Chairpersons: John Williams and Amar Rangan

13.26 - 13.34 \hspace{2em} A CLASSIFICATION OF GLENOID TWIST
\hspace{2em} Leeds Teaching Hospitals Trust
\hspace{2em} \textbf{D Limb, D McMurray, A P Monk & R Soames}

13.35 – 13.43 \hspace{2em} 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  ENDOPROSTHETIC 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

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

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

11.30 – 11.40 ANCONAEUS 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.

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
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tr>
<td>07:45 – 08:45</td>
<td>Master Class A: Rehabilitation from nerve Injury – current trends</td>
<td>Guy Broome</td>
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<td>Master Class B: Complex fracture dislocations at the elbow – concepts and tips for management</td>
<td>John Williams</td>
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<td>Master Class C: Elbow arthroplasty at the crossroads – evolution of indications and implants</td>
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<td>Session 6: Therapy and Miscellaneous</td>
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<td>Chairpersons: Martin Scott and Simon Lambert</td>
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<td>09:00 – 09:08</td>
<td>ACCELERATED REHABILITATION AFTER STABILISATION SURGERY: INTO THE UNKNOWN</td>
<td>J C Gibson &amp; P Brownson</td>
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<td>09:09 – 09:17</td>
<td>KEY OUTCOMES FOR SHOULDER PAIN: THE FINAL COUNTDOWN</td>
<td>C Payne, C Jerosch-Herold &amp; R Mason</td>
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<td>09:18 – 09:26</td>
<td>THE BENEFITS OF AN ECCENTRIC EXERCISE PROGRAMME FOR PATIENTS WITH A DIAGNOSIS OF RECALCITRANT TENNIS ELBOW</td>
<td>V Jones &amp; D Stanley</td>
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<td>09:36 – 09:44</td>
<td>EXTERNAL ROTATION BRACING COMPARED TO CONVENTIONAL SLING IN FIRST TIME ANTERIOR SHOULDER DISLOCATION</td>
<td>CP Kelly, HJ Smith &amp; JH Kuiper</td>
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<td>09:54 – 10:02</td>
<td>ULTRASOUND-GUIDED SUPRASCAPULAR NERVE BLOCK FOR PATIENTS WITH PERSISTENT SHOULDER PAIN</td>
<td>J Sultan, J Wilson, E Goodyear, U Narendran &amp; B Roy.</td>
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<td>10:03 – 10:11</td>
<td>A NOVEL LEARNING METHOD FOR ORTHOPAEDIC SURGEONS PERFORMING POINT OF CARE SHOULDER ULTRASOUND</td>
<td>RJ Murphy, MT Daines, AJ Carr &amp; JL Rees</td>
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ACCURACY OF PREOPERATIVE ULTRASOUND SCANS IN IDENTIFYING ROTATOR CUFF TEAR
Avon Orthopaedic Centre, Bristol
S Punwar, PW Robinson & N Blewitt

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 – 11.15 Session 7: Shoulder and Trauma
Chairpersons: Paul Manning and Ian Trail

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

A PROSPECTIVE RANDOMISED TRIAL COMPARING MANIPULATION UNDER ANAESTHESIA AND CAPSULAR DISTENSION FOR THE TREATMENT OF ADHESIVE CAPSULITIS OF THE SHOULDER
Queen Margaret Hospital, Fife
CY Ng, A K Amin, L McMullan, S McKie, I J Brenkel & R Cook

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

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

OUTCOMES OF ROCKWOOD PIN FIXATION FOR DIAPHYSEAL CLAVICLE FRACTURES
Macclesfield District General Hospital
R Singhal, P Ralte, D Withers & M Waseem

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

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 TeeeS
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
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