

9th International Congress on Surgery of the Shoulder
May 2-5, 2004
Washington DC, USA

DAY ONE
CONCURRENT SESSION 1

SUNDAY, MAY 2, 2004
CONSTITUTION BALLROOM

Session I: Shoulder Arthroplasty
Moderators: Louis U. Bigliani, MD (a,c-Zimmer, Inc.) and Dominique F. Gazielly, MD (n)

PAPER #1A

8:00 – 8:06 AM

Results of Cancellous Compaction Technique for Glenoid Resurfacing
Dominique F. Gazielly, MD (n), Christian Allende, MD, Emanuele Pamelin, MD

PAPER #2A

8:07 – 8:13 AM

Glenoid Cortico-Cancellous Autograft After Glenoid Component Removal in the Treatment of Glenoid Component Loosening in Total Shoulder Arthroplasty
T. Bradley Edwards, MD, Lionel Neyton, MD, Francois Sirveaux, MD, Daniel Mole, MD (n), Gilles Walch, MD, Pascal Boileau, MD

PAPER #3A

8:14 – 8:20 AM

Impaction Bone Grafting Of The Glenoid In Revision Shoulder Arthroplasty
Richard S. Page, FRACS (Orth), John F. Haines, FRCS, Ian A. Trail, MD, FRCS (n)

8:21 – 8:30 AM

Discussion

PAPER #4A

8:31 – 8:37 AM

Copeland Surface Replacement Arthroplasty of the Shoulder (CSRA) for Rheumatoid Arthritis
Ofer Levy, MD, MCh(Orth), Lennard Funk, FRCS(Orth), Giuseppe Sforza, MD, Stephen Copeland, FRCS (c-Biomet)

PAPER #5A

8:38 – 8:44 AM

Copeland Surface Replacement Arthroplasty for Avascular Necrosis of the Humeral Head
Lennard Funk, FRCS(Tr&Orth) (c-Biomet), Elias Koury, MRCS, Ofer Levy, MD, Steven Copeland, FRCS

PAPER #6A

8:45 – 8:51 AM

Outcome of Copeland Surface Replacement Shoulder Arthroplasty
Simon Robert Thomas, MA, MRCS, Adrian Wilson, FRCS, Andrew Chambler, FRCS, Ian Harding, FRCS, Michael Thomas, FRCS (n)

8:52 – 9:01 AM

Discussion

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PAPER #7A

9:02 – 9:08 AM

Reasons for the Failed Shoulder Arthroplasty

Qi Yin, MD (n), *Ashif Pardiwala, MD, Christo Sinopidis, MD, Simon P. Frostick, MD*

PAPER #8A

9:09 – 9:15 AM

Causes of Failure and Outcomes of Revision Shoulder Arthroplasty

Steven P. Kalandiak, MD, Michael A. Wirth, MD, Charles A. Rockwood, MD (n)

PAPER #9A

9:16 – 9:22 AM

An Analysis of Failures in Primary Shoulder Arthroplasty: Predictable, Therefore Avoidable, Consequences

Simon M. Lambert, FRCS (n), *Stefano Di Fabio, MD, J. Ian L. Bayley, FRCS*

9:23 – 9:33 AM

Discussion

PAPER #10A

9:34 – 9:40 AM

•Initial Experience and Complications With the Delta Reverse-Anatomy Total Shoulder Prosthesis

Adam J. Dalgleish, FRACS Ortho (n), Andrew Wallace, FRACS Ortho, Andrew Forester, FRCS Ortho

PAPER #11A

9:41 – 9:47 AM

Two-Year Results After Exchange Shoulder Arthroplasty Using Inverse Implants

Alexander Katzer, PD Dr med (n), *Klaus Seemann, Dr med, Joachim F. Loehr, Prof Dr med*

PAPER #12A

9:48 – 9:54 AM

•Reverse Shoulder Prosthesis Improves Function Compared to Hemiarthroplasty

Mark A. Frankle, MD (a,b,c,d,e-Encore Medical Corporation), *Mark Mighell, MD, Scott Devinney, DO, Matthew Vasey, BS, Derek Pupello, BS*

PAPER #13A

9:55 – 10:01 AM

The Reversed Delta Prosthesis as Option For Treatment of Painful Pseudoparalysis Due to Irreparable Rotator Cuff Deficiency

Patrick Steinmann, Med Student (n), *Clement ML Werner, MD, Christian Gerber, MD*

10:02 – 10:15 AM

Discussion

10:16 – 10:44 AM

Break

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Session II: Basic Science/Biomechanics
Moderators: Anthony Miniaci, MD (*) and David Sonnabend, MD (n)

PAPER #14A

10:45 – 10:51 AM

•Application of Tissue Engineering Technique for Rotator Cuff Repair Using the Novel Scaffold Material

Tadanao Funakoshi, MD (a-Japan Ministry of Education, Culture, Sports, Science & Technology), Naoki Suenaga, MD, PhD, Tokifumi Majima, MD, PhD, Norimasa Iwasaki, MD, PhD, Shintaro Yamane, MD, Kazuo Harada, PhD, Michio Minami, MD, PhD, Akio Minami, Prof, MD, PhD, Shin-Ichiro Nishimura, Prof, PhD

PAPER #15A

10:52 – 10:58 AM

•In Vitro Regeneration of the Rotator Cuff by Tissue Engineering

Naoki Suenaga, MD (n), Margaret M. Smith, PhD, Susan M. Smith, BSc, David H. Sonnabend, MD

PAPER #16A

10:59 – 11:05 AM

•Anabolic Steroids Enhance the Remodeling and Mechanical Properties of Bioengineered Human Supraspinatus Tendons

Spero G. Karas, MD (n), Triantafillopoulos K. Ioannis, MD, Melissa Maloney, MS, Karl F. Bowman, BS, Albert J. Banes, PhD

11:06 – 11:16 AM

Discussion

PAPER #17A

11:17 – 11:23 AM

Tendon Gene Therapy Modulates the Local Repair Environment in the Shoulder

David M. Dines, MD (c-Biomet), Daniel A. Grande, PhD, Pasquale Razzano, MS, James Mason, PhD

PAPER #18A

11:24 – 11:30 AM

TGFB-1 Localization at the Bone Tendon Healing Site in a Rat Rotator Cuff Injury and Repair Model

Leesa M. Galatz, MD (a-OREF), Stefan Rothermich, BS, Ava Mastny, Linda J. Sandell, PhD

PAPER #19A

11:31 – 11:37 AM

Expression of Growth Factors During the Healing Process of the Supraspinatus Tendon in Rabbits

Moto Kobayashi, MD (n), Eiji Itoi, MD, Hiroshi Minagawa, MD, Naohisa Miyakoshi, MD, Shu Takahashi, MD, Tatsushi Kamata, MD, Hidetomo Saito, MD, Koji Nozaka, MD

PAPER #20A

11:38 – 11:44 AM

Shoulder Arthrodesis Utilizing Autologous Growth Factors

Mark Ross FRACS (a-Orthotech [Australia]), Phillip Duke, FRACS, Ken Cutbush, FRACS, Alok Jhamb, MBBS, Christopher Roberts, FRCS

11:45 – 11:59 PM

Discussion

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12:00 – 12:59 PM	Lunch
Session III: Moderators:	Instability James E. Tibone, MD (e-Arthrex) and Richard Wallensten, MD (n)
PAPER #21A 1:00 – 1:06 PM	Traumatic Anterior Shoulder Dislocation in the Young Patient: What we do in the UK <i>Matt Freudmann, MB, Bch, MRCSEd (n), Stuart Hay, MD</i>
PAPER #22A 1:07 – 1:13 PM	Outcome Following Open Bankart Repair for Anterior Shoulder Instability Using a Subjective-Patient-Based Shoulder Questionnaire (Oxford Instability Score) <i>John R. Williams, DM, Jonathan Loughhead, MBBS (n)</i>
1:14 – 1:23 PM	Discussion
PAPER #23A 1:24 – 1:30 PM	The Prevalence of Inappropriate Muscle Sequencing in Recurrent Shoulder Instability <i>Alex A. Malone, MRCS (n), Anju Jaggi, BSc (Hons), Simon M. Lambert, FRCS, Paul C. Calvert, FRCS, J. Ian L. Bayley, FRCS</i>
PAPER #24A 1:31 – 1:37 PM	Expanded Assessment in Multidirectional Instability: An Aid in Planning Effective Rehabilitation? <i>Jo C. Gibson, GradDipPhy (n), Vanessa S. Rayner BapSci, Simon Frostick, MA, DM, FRCS</i>
PAPER #25A 1:38 – 1:44 PM	Involuntary Positional Instability: When Rehabilitation Fails, is Botulinum Toxin the Solution? <i>Jo C. Gibson, GradDipPhy, Vanessa S. Rayner, BapSci, Christos Sinopidis, MD, Simon Frostick, MA, DM, FRCS (n)</i>
1:45 – 2:01 PM	Discussion
PAPER #26A 2:02 – 2:08 PM	Immobilization in External Rotation after Shoulder Dislocation: An Interim Report of an Ongoing Trial <i>Eiji Itoi, MD (n), Yuji Hatakeyama, MD, Takeshi Sato, MD, Tadato Kido, MD, Hiroshi Minagawa, MD, Ikuko Wakabayashi, MD, Moto Kobayashi, MD, Hidetomo Saito, MD, Tatsushi Kamata, MD</i>

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PAPER #27A
2:09 – 2:15 PM

Assessment of Proprioceptive Function and Comparison of Active-Passive Proprioception Test Methods in Patients with Traumatic Anterior Instability of the Shoulder

Mustafa Ozkan, Ass Prof (n), Rafet Idin, MD, Selmin Gulbahar, MD, Kivanc Muratli, Gurdal Ozkes

PAPER #28A
2:16 – 2:22 PM

Does Weber's Humerus Rotation Osteotomy in the Treatment of Anterior Instability Induce Late Osteoarthritis of the Glenohumeral Joint?

Matthias P. Flury, MD (n), Patrick Holzmann, MD, Hans-Kaspar Schwyzer, MD, Beat R. Simmen, Professor, MD

2:23 – 2:32 PM

Discussion

PAPER #29A
2:33 – 2:39 PM

Segmental Humeral Head Allografts for Recurrent Anterior Instability of the Shoulder with Large Hill-Sachs Defects: A Two to Eight Year Follow-Up

Anthony Miniaci, MD (n), Chris Hand, MD, Greg Berlet, MD

PAPER #30A
2:40 – 2:46 PM

Achilles Tendon Allograft Augmentation in Revision Surgery for Glenohumeral Instability

George M. McCluskey III, MD (n), Bryce W. Gaunt, PT, SCS, Brian S. McCluskey, PhD

PAPER #31A
2:47 – 2:53 PM

Operative Stabilization of Recurrent, Traumatic Posterior Shoulder Subluxation: An Evaluation of Open and Arthroscopic Techniques

Robert A. Arciero, MD, Craig R. Bottoni, MD, Thomas M. DeBerardino, MD, Dean C. Taylor, MD (n)

PAPER #32A
2:54 – 3:00 PM

Muscle Strength After Anterior Shoulder Stabilization-Arthroscopic vs Open Bankart Repair

Yong Girl Rhee, MD (n), Chan Teak Lim, MD

3:01 – 3:15 PM

Discussion

3:16 – 3:44 PM

Break

Session IV:
Moderators:

Outcomes
Ofer Levy, MD (n) and Robin R. Richards, MD (n)

PAPER #33A
3:45 – 3:51 PM

A Comparison of Functional Assessment Scores in Subacromial Impingement of the Shoulder

John R. Williams, DM, David Cloke, FRCS (n)

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PAPER #34A

3:52 – 3:58 PM

•The Reliability and Reproducibility of Shoulder Abduction Strength Measurement

W. Jaap Willems, MD, PhD (e-Smith & Nephew), Floor van Eijk, MD, Daniel Saris, MD, PhD

PAPER #35A

3:59 – 4:05 PM

Variables Affecting the Measurement of Strength Component in Constant-Murley Scoring System

Amit Bhargava, FRCS (n), B. Venkateshwaran, FRCS, T. Even, Msc, Steven Copeland, FRCS, Ofer Levy, MD

4:06 – 4:15 PM

Discussion

PAPER #36A

4:16 – 4:22 PM

Long-Term Results After Surgery for Snapping Scapula: A Comparison Between Surgical Results and "Natural Course"

Martti Vastamaki, MD (n)

PAPER #37A

4:23 – 4:29 PM

Scapulothoracic Fusion: A Mid-Term Follow-Up

Sridhar Musthyala, FRCS (n), A. Ebied, Mch, C. Sinopidis, MD, Q. Yin, MD, S.P. Frostick, FRCS

PAPER #38A

4:30 – 4:36 PM

Eden Lange Muscle Transfer: A Mid-Term Follow-Up

A. Ebied, Mch (n), S. Musthyala, FRCS, C. Sinopidis, MD, Q. Yin, MD, S.P. Frostick, FRCS

PAPER #39A

4:37 – 4:43 PM

Over Utilization of Shoulder MRI (ShMRI) as a Diagnostic Screening Tool

Michael P. Bradley, MD (n), Glenn Tung, MD, Andrew Green, MD

4:44 – 4:59 PM

Discussion

5:00 PM

Adjourn

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**DAY ONE
CONCURRENT SESSION 2**

**SUNDAY, MAY 2, 2004
INDEPENDENCE BALLROOM**

8:00 – 8:03 AM

Welcome Speech
Robert J. Neviasser, MD

**Session I:
Moderators:**

Clavicle/A-C Joint
Abraham J. Lambrechts, MD (n) and Michael J. Sandow, MD (n)

PAPER #1B

8:04 – 8:10 AM

Acromioclavicular Joint Capsular Anatomy
Gregory P. Nicholson, MD (n), Augustus D. Mazzocca, MD, Anthony A. Romeo, MD

PAPER #2B

8:11 – 8:17 AM

Diagnostic Value of Physical Tests in Acromioclavicular Joint Arthritis
Harpreet S. Gill, MD (n), Tae Kyun Kim, MD, PhD, Hyung Bin Park, MD, Atushi Yokota, MD, PhD, Edward G McFarland, MD, Efstathios Chronopoulos, MD

PAPER #3B

8:18 – 8:24 AM

Tests for Acromioclavicular Joint Pain and Their Diagnostic Value
George A.C. Murrell, MBBS, Dphil (n), Judie Walton, BSc, PhD, Sanjeev Mahajan, MBBS, MS, Anastasios Paxinos, MBBS, DDR, FRACR, Jeanette Marshall, Carl Bryant, MBBS, DDR, FRACR, Ron Shnier, MBBS, FRACP, Richard Quinn, MBBS, FRACR

8:25 – 8:34 AM

Discussion

PAPER #4B

8:35 – 8:41 AM

Functional Outcomes After Total Claviclectomy
Sumant G. Krishnan, MD, Wayne Z. Burkhead, MD (n), Mike Rimlawi, DO

PAPER #5B

8:42 – 8:48 AM

Anterior Inferior Reconstruction Plate on Acute Midshaft Clavicle Fracture
Moonsup Lim, MD (n), Jaedo Kang, MD, Kwangyul Kim, MD, Hyungcheon Kim, MD, Jinhyeong Kim, MD, Shingweon Choi, MD

PAPER #6B

8:49 – 8:55 AM

Evaluation of Sternoclavicular Joint Disorders
Arvind Rawal, MS, FRCS, Vrinda Bihari Somanchi, MS (n), Andrew Dunn, Pidikiti Prasad, Chris Sinopidis, David A. Ritchie, Peter Brownson, Simon P. Frostick, DM, FRCS

PAPER #7B

8:56 – 9:02 AM

Stabilization Procedure for Sternoclavicular Joint Instability
Zain Ul Abiddin, MS, FRCS (n), Chris Sinopidis, MD, Yin Qi, MD, Prof Simon P. Frostick, MA, DM

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- 9:03 – 9:14 AM Discussion
- 9:15 – 10:15 AM **Symposium – Labral Lesions without Dislocation**
Moderator: *Stephen J. O’Brien, MD, PLLC (n)*
- 9:15 – 9:35 AM Pathomechanics of Labral Lesions
Stephen J. O’Brien, MD, PLLC (n)
- 9:35 – 9:55 AM The Case for Treatment of Labral Lesions
Stephen Snyder, MD (a,b,c-D.J. Ortho, Linvatec, S&N Dyonics, Arthrex, e-Linvatec)
- 9:55 – 10:15 AM Are Labral Lesions a Cause of Shoulder Pain?
Bertram Zarins, MD (n)
- 10:16 – 10:44 AM **Break**
- Session II:** **Rotator Cuff**
Moderators: **Simon Bell, MD (n) and Osvandre Lech, MD (n)**
- PAPER #8B**
10:45 – 10:51 AM Patient Expectations Correlate with Pain, Function, and General Health Following Rotator Cuff Repair
Ralph Frank Henn, BS, Lana Kang, MD (n), Robert Z. Tashjian, MD, Andrew Green, MD
- PAPER #9B**
10:52 – 10:58 AM Workers Compensation Patients Have Worse Pain, Function, and General Health After Rotator Cuff Repair
Ralph Frank Henn III, BS (n), Lana Kang, MD, Robert Z. Tashjian, MD, Andrew Green, MD
- PAPER #10B**
10:59 – 11:05 AM Medical Comorbidities Affect Pain, Function, and General Health Status Associated with Chronic Rotator Cuff Tears
Robert Z. Tashjian, MD (n), Ralph F. Henn, BS, Lana Kang, MD, Andrew Green, MD
- 11:06 – 11:16 AM Discussion
- PAPER #11B**
11:17 – 11:23 AM Postoperative Cuff Integrity After Arthroscopic Full-Thickness Rotator Cuff Repair: Single-Row Versus Dual-Row Fixation
Hiroyuki Sugaya, MD (n), Joji Moriishi, MD, Akihiro Tsuchiya, MD
- PAPER #12B**
11:24 – 11:30 AM Rotator Cuff Repair: The Effect of Double-Row Fixation Versus Single-Row Fixation on Three-Dimensional Repair Site
Steven W. Meier, MD (a,b-Mitek), Jeffrey D. Meier, DO, Andrew S. Levy, MD

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PAPER #13B

11:31 – 11:37 AM

Mini-Open Assisted Arthroscopic Rotator Cuff Repair in Patients with Large and Massive Tears Using a Double Row Fixation Technique
George M. McCluskey, III, MD, Howard Routman, DO (n), Bryce W. Gaunt, PT, SCS, Brian S. McCluskey, PhD

PAPER #14B

11:38 – 11:44 AM

Cuff Integrity Following Arthroscopic Versus Open Rotator Cuff Repair: A Prospective Study
Julie Bishop, MD (n), Ian Lo, MD, Steven Klepps, MD, Justin Bird, MD, James Gladstone, MD, Evan Flatow, MD

11:45 – 11:59 PM

Discussion

12:00 – 12:59 PM

Lunch**Session III:****Elbow****Moderators:****William H. Seitz, MD (n) and Martti Vastamaki, MD (n)****PAPER #15B**

1:00 – 1:06 PM

Arthroscopic Assisted Percutaneous Radial Head Osteosynthesis
Matthias Lannoo, MD, Stefaan J.B. Nijs, MD, Paul L.O. Broos, MD, PhD, Koen Vindevoghel, MD (n)

Paper #16B moved to Monday, May 3 from 8:14 – 8:20 AM, directly after Paper #41A in Constitution Ballroom

PAPER #16B: Radial Head Fractures in Adults: Analysis of 372 Fractures

Bernard F. Morrey, MD, Roger P. van Riet, MD (n), Francis Van Glabbeek, MD, Shawn W. O'Driscoll, MD, PhD

PAPER #17B

1:07 – 1:13 PM

Radiocapitellar Synovitis Secondary to Recalcitrant Lateral Epicondylitis
William H. Seitz, Jr, MD, Hideaki Matsuoka, MD (n)

1:14 – 1:30 PM

Discussion

PAPER #18B

1:31 – 1:37 PM

Extracorporeal Shockwave Therapy for Lateral Epicondylitis
Mark Ross, FRACS, Phillip Duke, FRACS, David Gilpin, FRACS, Ken Cutbush, FRACS (n), Christopher Roberts, FRCS

PAPER #19B

1:38 – 1:44 PM

Treatment of Acute Traumatic Elbow Instability Without Medial Collateral Ligament Repair
David Ring, MD, Chris Forthman, MD (n)

PAPER #20B

1:45 – 1:51 PM

The Effect of Examination Under Anesthesia on the Stiff Elbow Following Surgical Release

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Bernard F. Morrey, MD, Arash Araghi, DO (n), Andrea Celli, MD, Robert A. Adams, MA, RPA

- 1:52 – 2:14 PM Discussion
- 2:15 – 3:15 PM **Symposium – Advances in Shoulder and Elbow Arthroscopy**
Moderator: David W. Altchek, MD (n)
- 2:15 – 2:30 PM Advances in the Shoulder (Non-Athlete)
Daniel D. Buss, MD (e-Zimmer)
- 2:30 – 2:45 PM Advances in the Shoulder (For the Athlete)
Russell F. Warren, MD (a-Smith & Nephew, c-Biomet, d-Opus)
- 2:45 – 3:05 PM Advances in the Elbow (Non-Athlete)
Ian A. Trail, MD, FRCS (n)
- 3:05 – 3:15 PM Advances in the Elbow (For the Athlete)
David Altchek, MD (n)
- 3:16 – 3:44 PM **Break**
- Session IV: Shoulder Fractures**
Moderators: David M. Dines, MD (c-Biomet, Inc.) and Kenji Takagishi, MD, PhD (n)
- PAPER #21B**
3:45 – 3:51 PM Proximal Humeral Fractures: Fracture Patterns and Classifications
Iain A.R. MacLeod, MBBS, Roger Emery, FRCS (n), Adam Dalgleish, FRCS, Addie Majed, MBBS
- PAPER #22B**
3:52 – 3:58 PM Results of the Surgical Treatment of Epiphyseal Fractures of the Humeral Head
Alberto N. Miyazaki, MD (n), Sergio L. Checchia, MD, Pedro S. Doneux, MD, Marcelo Fregoneze, MD, Luciana A. Silva, MD, Fernando J. Pedro, MD, Jose Antonio A. Alan, MD
- PAPER #23B**
3:59 – 4:05 PM •Surgical Treatment of Fractures of the Anatomical Neck of the Humerus
Pedro S. Doneux, MD (n), Sergio L. Checchia, MD, Alberto N. Miyazaki, MD, Marcelo Fregoneze, MD, Luciana A. Silva, MD, Alexandre Santa Cruz, MD, Rafael Ruaro, MD
- 4:06 – 4:15 PM Discussion
- PAPER #24B**
4:16 – 4:22 PM Open Reduction and Internal Fixation for Three and Four-Part Fractures of the Proximal Humerus by Intramedullary Pin and Wire
Yoshiyuki Nakagawa, MD (n), Manabu Oshima, MD, Takamitsu Mondori, MD

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PAPER #25B

4:23 – 4:29 PM

•Irregular Multiple Fin Shapes Best Stabilize Reconstructed Tuberosities in Four-Part Proximal Humerus Fractures

Mark A. Mighell, MD (a,b,c,d,e-Encore Medical Corporation), Avi Kumar, MD, William Lee III, PhD, Leo Ondrovic, PhD, Tim Ganey, PhD, Sergio Gutierrez, BS, Matthew Vasey, BS

PAPER #26B

4:30 – 4:36 PM

Shoulder Arthroplasty for Proximal Humeral Fracture: Results of Anatomical Reconstruction and Stable Tuberosity Osteosynthesis

Sumant G. Krishnan, MD (e-Zimmer Austin), Wayne Z. Burkhead, MD

PAPER #27B

4:37 – 4:43 PM

Effects of Different Suture Techniques on Reattachment of the Tuberosities of the Humerus Following Hemiarthroplasty for 4-Part Fracture

Rashid B. Abu-Rajab, MBChB, MRCS (a-Zimmer), I.G. Kelly, MD, A.C. Nicol, B. Stansfield

4:44 – 4:59 PM

Discussion

5:00 PM

Adjourn

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**DAY TWO
CONCURRENT SESSION 1**

**MONDAY, MAY 3, 2004
CONSTITUTION BALLROOM**

Session V: Elbow
Moderators: Michael D. McKee, MD (e-Zimmer, Inc.) and David Ring, MD (n)

PAPER #40A
8:00 – 8:06 AM

Arthroscopic Osteocapsular Arthroplasty for Treatment of Primary Osteoarthritis of the Elbow
Luther H. Wolff, MD, Scott P. Steinmann, MD, PhD (n)

PAPER #41A
8:07 – 8:13 AM

Hinged Elbow Fixation for Severe Elbow Contracture
David Ring, MD, Robert N. Hotchkiss, MD, Daniel Guss, BS (n), Jesse B. Jupiter, MD

PAPER #16B
8:14 – 8:20 AM

Presentation previously scheduled: Sunday, May 2
Radial Head Fractures in Adults: Analysis of 372 Fractures
Bernard F. Morrey, MD, Roger P. van Riet, MD (n), Francis Van Glabbeek, MD, Shawn W. O'Driscoll, MD, PhD

8:21 – 8:30 AM

Discussion

PAPER #42A
8:31 – 8:37 AM

Functional Outcomes and General Health Status After Ulnohumeral Arthroplasty for Primary Degenerative Elbow Arthritis
Andrew Green, MD (n), Robert Tashjian, MD, Mark Ritter, MD, Jennifer Wolff, MD, Arnold P.C. Weiss, MD

PAPER #43A
8:38 – 8:44 AM

Triceps Insufficiency Following Total Elbow Arthroplasty
Bernard F. Morrey, MD, Andrea Celli, MD (n), Arash Araghi, DO, Robert A. Adams, MA, RPA

PAPER #44A
8:45 – 8:51 AM

Reconstructive Options for Revision Total Elbow Arthroplasty with Bone Deficiency
Bernard F. Morrey, MD (c-Zimmer)

8:51 – 9:11 AM

Discussion

9:15 – 10:15 AM

Symposium: Codman Lecture (Independence Ballroom)
“The Origin of the Shoulder- A Fairytale Based on Fact”
David Sonnabend, MD

Moderators:

Robert H. Cofield, MD and Robert J. Neviasser, MD

10:16 – 10:44 AM

Break

Session VI:
Moderators:

Basic Science/Biomechanics
Ralph B. Blasier, MD (n) and Richard E. Debski, PhD (n)

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PAPER #45A

10:45 – 10:51 AM

Immunohistochemical Studies on Atrophy of the Rotator Cuff Muscles
Frank Erol Gohlke, Prof MD (a-German Ministry for Technology & Science), Michael Jensen, MD, Christine Schneider, PhD, Theodor Boehm, MD, Stefan Gattenloehner, MD

PAPER #46A

10:52 – 10:58 AM

Fatty Muscular Changes After Tendon Tear Are Not Degenerative but Caused by Altered Muscle Architecture
Dominik C. Meyer, MD (n), Hans Hoppeler, Prof, Brigitte von Rechenberg, DVM, Christian Gerber, Prof

PAPER #47A**PAPER WITHDRAW**

10:59 – 11:16 AM

Discussion

PAPER #48A

11:17 – 11:23 AM

Reformation of the Enthesis Extracellular Matrix After Implantation of the Supraspinatus Tendon into Bone
Yoichi Koike, MD (n), Guy Trudel, MD, MSc, FRCPC, Hans K. Uhthoff, MD, FRCSC

PAPER #49A**PAPER WITHDRAW****PAPER #50A**

11:24 – 11:30 AM

Calcification or Bone Formation: Histologic Features of Calcifying Tendonitis of the Shoulder
Christoph Bartl, MD (n), Reiner Bartl, PHD, MD, Peter Habermeyer, PhD, MD

11:31 – 11:59 PM

Discussion

12:00 – 12:59 PM

Lunch**Session VII:****Shoulder Arthroplasty****Moderators:**

Stephen A. Copeland, FRCS (c-Biomet) and John M. Fenlin Jr., MD (e-Stryker)

PAPER #51A

1:00 – 1:06 PM

Comparison of Micromovement of Pegged Versus Keeled Glenoid Components Using RSA
David Nutall, PhD (a-DePuy International), Ian A. Trail, FRCS, John F. Haines, FRCS

PAPER #52A

1:07 – 1:13 PM

•Survival of Uncemented Shoulder Arthroplasty is Improved with Hydroxy-Apatite Coating of the Glenoid Baseplate
Nahum Rosenberg, MD, In-Ho Jeon, MD, Lars Neumann, FRCS (Ed) (n), William Angus Wallace, FRCS, FRCSEd (Orth)

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PAPER #53A

1:14 – 1:20 PM

Glenoid Stability After Shoulder Arthroplasty: Influence of Glenohumeral Conformity

Alain Farron, MD, Alexandre Terrier, PhD (n), Philippe Buechler, PhD

1:21 – 1:30 PM

Discussion

PAPER #54A

1:31 – 1:37 PM

•Radiographic and Computed Tomographic (CT) Analysis of Cemented Pegged Polyethylene Glenoids in Total Shoulder Replacement

Edward H. Yian, MD, Clement Werner, MD (e-Zimmer), Richard Nyffeler, MD, Christian Pfirrmann, MD, Arun Ramappa, MD, Christian Gerber, MD (c-Zimmer)

PAPER #55A

1:38 – 1:44 PM

Incidence of Immediate Radiolucent Glenoid Lines in Patients Undergoing Total Shoulder Replacement

Edward Lee, MD (n), Steven Klepps, MD, Alexis Chiang, MD, Suzanne Miller, MD, Chun Yan Jiang, MD, Yassamin Hazrati, MD, Evan Flatow, MD

1:45 – 1:54 PM

Discussion

PAPER #56A

1:55 – 2:01 PM

The Effect of Humeral Component Anteversion on Shoulder Stability with Glenoid Component Retroversion

Edwin E. Spencer Jr, MD (a-DePuy), Antonio Valdevit, MS, Helen Kambic, PhD, John J. Brems, MD, Joseph P. Iannotti, MD PhD

PAPER #57A

2:02 – 2:08 PM

Loosening of the Prosthetic Glenoid: Influence of the Subscapularis Stiffness and the Retroversion of the Glenoid

Alain Farron, MD (n), Alexandre Terrier, PhD, Phillippe Buechler, PhD

PAPER #58A

2:09 – 2:15 PM

Microfracture for the Treatment of Full-Thickness Articular Cartilage Lesions of the Shoulder: A Prospective Study.

Rainer Siebold, MD (n), Sven Lichtenberg, MD, Peter Habermeyer, MD

2:16 – 2:25 PM

Discussion

PAPER #59A

2:26 – 2:32 PM

Polyethylene Glenoid Surface Geometry is Changed by In Vivo Use

Jon P. Braman, MD (n), Alexis Falicov, MD, Frederick A. Matsen III, MD

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PAPER #60A
2:33 – 2:39 PM

Immediate Postoperative Pain Experienced by Patients Following Hemi and Total Shoulder Arthroplasty
Scott Isenhath, BS, Alexis Falicov, MD, Kevin L. Smith, MD (n), Frederick A. Matsen III, MD

PAPER #61A
2:40 – 2:46 PM

Complications of Total Shoulder Arthroplasty: Is it getting lower?
Patrick Y.K. Chin, MD, FRCS(C), John W. Sperling, MD, Adam Smith, MD (c-Smith & Nephew), Robert H. Cofield, MD

PAPER #62A
2:47 – 2:53 PM

Patient Self-Assessment as an Indicator of Glenoid Failure After Shoulder Arthroplasty
Brian P. Buckingham, BS (), I. Moby Parsons, MD, Barry Campbell, BS, Robert M. Titelman, MD, Kevin L. Smith, MD, Frederick A. Matsen III, MD*

2:54 – 3:15 PM

Discussion

3:16 – 3:44 PM

Break

Session VIII:
Moderators:

Shoulder Fractures
Ralph Hertel, MD (n) and Tom R. Norris, MD (e-Tornier)

PAPER #63A
3:45 – 3:51 PM

Treatment of Midshaft Clavicle Nonunions with Plate Fixation and Intercalary Bone Grafts
George M. McCluskey, III, MD, Grant L. Jones, MD (a,b,e-Zimmer)

PAPER #64A
3:52 – 3:58 PM

Functional Outcome After United Mid-Shaft Clavicle Fractures, and After Surgical Correction for Symptomatic Non-Union & Mal-Union
Nahum Rosenberg, MD (n), Alhasan Gibril, MSc(Sp Med), Lars Neumann, FRCSEd, W. Angus Wallace, FRCSEd(Orth)

3:59 – 4:08 PM

Discussion

PAPER #65A
4:09 – 4:15 PM

Mid-Term Results of Planttan Plate - Proximal Humerus Fracture Fixator Plate
Bhuvaneshwar Machani, MRCS (n), C. Sinopidis, MBChb, P. Papadopoulos, MBChb, P. Brownson, FRCS(orth), J. Gibson, K. P. Meda, FRCS, S. P. Frostick, FRCS(orth)

PAPER #66A
4:16 – 4:22 PM

Locking Compression Plated for Delayed Unions and Nonunions of the Diaphyseal Humerus
David Ring, MD, Peter Kloen, MD, John Kadzielski, BA, David Helfet, MD, Jesse B. Jupiter, MD, Jason Tavakolian, MD (b-AO Foundation)

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PAPER #67A

4:23 – 4:29 PM

•Interlocking Intramedullary Nailing for Nonunion of Proximal Humerus with the Straight Nail System

Naoki Suenaga, MD, Akio Minami, MD, Naomi Oizumi, MD (n), Shintaro Yamane, MD

4:30 – 4:59 PM

Discussion

5:00 PM

Adjourn

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**DAY TWO
CONCURRENT SESSION 2**

**MONDAY, MAY 3, 2004
INDEPENDENCE BALLROOM**

Session V: Impingement
Moderators: Peter Habermeyer, MD (n) and Christopher M. Jobe, MD (a,c,d,e-Wright)

PAPER #28B

8:00 – 8:06 AM

OS Acromiale: 1. Missed Radiological Signs, and 2. Surgical Outcomes of Excision or Fixation

Stephen J.L. Roche, MD, Abraham J. Lambrechts, MD, Basil C. Vrettos, MD, Theo G. Rosch, MD (n), Andre Morrish, MD

PAPER #29B

8:07 – 8:13 AM

Wide Lateral Extension of the Acromion is Associated with Rotator Cuff Tearing

Richard W. Nyffeler, MD (n), Clement M.L. Werner, MD, Christian Gerber, MD

PAPER #30B

8:14 – 8:20 AM

Comparison of Outcome in Impingement Syndrome with and Without Stiff Shoulder

Jin-Young Park, MD, Ki-Hyuk Moon, MD (n), Moon-Jib Yoo, MD

8:21 – 8:30 AM

Discussion

PAPER #31B

8:31 – 8:37 AM

Entrapment of the Long Head of the Biceps: the “Hourglass Biceps” A Cause of Painful and Locked Shoulder

Pascal Boileau, MD, Philip Michael Ahrens, MD (n), Sumant G. Krishnan, MD

PAPER #32B

8:38 – 8:44 AM

Failed Acromioplasty: the Unappreciated Etiologic Role of Biceps Tendinitis

Robert J. Neviaser, MD (n), Robin West, MD, Melissa Koenig, MD

PAPER #33B

8:45 – 8:51 AM

Arthroscopic Tenotomy of the Long Head of the Biceps in the Treatment of Rotator Cuff Tears

Gilles Walch, MD (n), T. Bradley Edwards, MD, Laurent Nove-Josserand, MD, Aziz Boulahia, MD, Lionel Neyton, MD

PAPER #34B

8:52 – 8:58 AM

Functional Symptomatology Following Biceps Tenodesis Compared to Biceps Tenotomy or Rupture

Melissa Koenig, MD (n), Robin West, MD, Robert J. Neviaser, MD

8:59 – 9:14 AM

Discussion

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- 9:15 – 10:15 AM **Symposium: Codman Lecture**
“The Origin of the Shoulder- A Fairytale Based on Fact”
David Sonnabend, MD
Moderators: Robert H. Cofield, MD and Robert J. Neviasser, MD
- 10:16 – 10:44 AM **Break**
- Session VI: Clavicle/A-C/S-C**
Moderators: Sergio L. Checchia, MD (n) and Charles A. Rockwood Jr., MD (c-DePuy)
- PAPER #35B**
10:45 – 10:51 AM Clavicular Hook Plate for Lateral End Fractures
Prasad Meda, FRCS (n), Bhuvaneshwar Machani, Chris Sinopidis, Peter Brownson, Ian Braithwaite, Simon Frostick
- PAPER #36B**
10:52 – 10:58 AM Complications After Open Distal Clavicle Excisions (DCE)
Efstathios Chronopoulos, MD, Tae Kyun Kim, MD, PhD, Hyung Bin Park, MD, Atushi Yokota, MD, PhD, Edward G. McFarland, MD (n)
- PAPER #37B**
10:59 – 11:05 AM Postero-Superior Access: A New Approach of Repair Acromioclavicular Joint Rupture, Without Manipulating the Deltoid Muscle
Romulo Brasil Filho, MD (n), Fabiano Reboucas, MD, Eduardo Meniti, MD, Cantidio Filardi, MD
- 11:06 – 11:16 AM Discussion
- PAPER #38B**
11:17 – 11:23 AM A Study of the Coracoclavicular Distance on an Acromioclavicular Separation
Koutaro Shinmura, MD (n), Katsumi Takase, MD
- PAPER #39B**
11:24 – 11:30 AM Biomechanical and Radiographic Analysis of Partial Coracoclavicular Ligament Injuries
Augustus D. Mazzocca, MD (n), Stephen A. Santangelo, BS, Clifford G. Rios, MSIII, Mark L. Dumonski, MSIII, Kevin P. Shea, MD, Carl W. Nissen, MD, Anthony A. Romeo, MD, Robert A. Arciero, MD
- PAPER #40B**
11:31 – 11:37 AM Coracoclavicular Sutures for Acromioclavicular Dislocations: A Two Mini-Open Approach
Michael Simoni, MD (n)
- PAPER #41B**
11:38 – 11:44 AM The Anatomy of the Pectoralis Minor Tendon, and its Use in Acromioclavicular Joint Reconstruction
Anand M. Murthi, MD (n), Amir Moinfar, MD

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11:45 – 11:59 PM	Discussion
12:00 – 12:59 PM	Lunch
Session VII: Moderators:	Miscellaneous Roger Emery, MD (n) and Thomas J. Neviaser, MD (n)
PAPER #42B 1:00 – 1:06 PM	Immunolocalization of Cytokines and Histologic Changes in Rotator Cuff Disease and Secondary Frozen Shoulder Chang-Hyuk Choi, MD (n), Min-Chul Shin, MD, So-Yoon Park, MD, Sang-Kyung Kim, MD
PAPER #43B 1:07 – 1:13 PM	Intra-Articular Lesions in Primary Frozen Shoulder Following Manipulation During General Anesthesia Markus Loew, Professor (n), Thomas Oliver Heichel, MD, Burkhardt Lehner, MD
PAPER #44B 1:14 – 1:20 PM	Arthroscopic Capsular Release for Resistant Post Traumatic Shoulder Stiffness Balachandran Venkateswaran FRCS Orth (n), Len Funk, FRCS Orth, Ofer Levy, MD, MCh Orth, Stephen A. Copeland, FRCS
1:21 – 1:30 PM	Discussion
PAPER #45B 1:31 – 1:37 PM	Surgical Treatment of Spinoglenoid Notch Ganglion Cysts of the Shoulder Amy K. Franta, MD (n), John F. Orwin, MD
PAPER #46B 1:38 – 1:44 PM	Fifty Cases of Peripheral Nerve Palsy in the Shoulder Region Due to Unknown Causes Hiroyasu Ikegami, MD, PhD (n), Kiyohisa Ogawa, MD, PhD, Atsushi Yoshida, MD, PhD, Michimasa Ui, MD, Noriaki Nakamichi, MD, Takahiko Mikasa, MD
PAPER #47B 1:45 – 1:51 PM	A One Stage Shoulder Arthrodesis and Biceps Tendon Transfer for Upper Brachial Plexus Injuries Mark Andrew Cvitanich, MBChB (n), Micheal Solomons, FCS Orth, Steven Roche, FCS Orth

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PAPER #48B

1:52 – 1:58 PM

Ultrasonographic Measurement of the Humeral Retroversion in Elementary School Baseball Players

Nobuyuki Yamamoto, MD (n), Eiji Itoi, MD, PhD, Hiroshi Minagawa, MD, PhD, Masakazu Urayama, MD, PhD, Hidetomo Saito, MD, Nobutoshi Seki, MD, Takenobu Iwase, MD, PhD, Shinji Kashiwaguchi, MD, PhD, Tetsuya Matsuura, MD

1:59 – 2:14 PM

Discussion

2:15 – 3:15 PM

Symposium – Tennis Elbow**Moderator:****Bernard Morrey, MD (n)**

2:15 – 2:35 PM

Basic Science of Elbow Tendinopathy

William Regan, MD (n)

2:35 – 2:55 PM

Surgical Options for Elbow Tendinopathy

Felix Savoie, MD (n)

2:55 – 3:15 PM

Synthesis of Current Concepts of Tendinopathy of the Elbow

Bernard Morrey, MD (n)

3:16 – 3:44 PM

Break**Session VIII:****Moderators:****Rotator Cuff****Pascal Boileau, MD (n) and Russell F. Warren, MD (a-Smith & Nephew, d-Opus)****PAPER #49B**

3:45 – 3:51 PM

Anatomical Study of the Latissimus Dorsi as it Pertains to Tendon Transfers for Massive Irreparable Tears of the Rotator Cuff

Anthony Miniaci, MD, **Moreno Morelli, MD (n)**, Jun Nagamori, MD

PAPER #50B

3:52 – 3:58 PM

The Modified L'Episcopo Procedure to Reconstruct Massive Rotator Cuff Tears

Peter Habermeyer, PhD, **Petra Magosch, MD (n)**, Sven Lichtenberg, MD

PAPER #51B

3:59 – 4:05 PM

Is Simply a Teres Major Tendon Transfer for Primary Reconstruction of a Massive Rotator Cuff Tear Sufficient?

Michiel J. van de Sande, MD, PhD-student (n), Dennis J. Magermans, MSc, PhD, Juriaan H. de Groot, Ir, PhD, Piet M. Rozing, MD, PhD

4:06 – 4:15 PM

Discussion

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PAPER #52B

4:16 – 4:22 PM

The Demographics and Morphology of Rotator Cuff Disease: A Comparison of Asymptomatic and Symptomatic Shoulders
Ken Yamaguchi, MD (*), Keith Baumgarten, MD, Gerlach J. David, MD, Konstantinos Ditsios, MD, Sharlene A. Tee Fey, MD, William D. Middleton, MD, Charles F. Hildebolt, PhD, Leesa M. Galatz, MD

PAPER #53B

4:23 – 4:29 PM

Ultrasonic Evaluation of Dynamic Shoulder Elevation for Diagnosing Supraspinatus Pathology
Dean W. Ziegler, MD (n), Scott Primack, DO

PAPER #54B

4:30 – 4:36 PM

Factors Influencing the Outcome of Conservative Treatment for Partial Thickness Rotator Cuff Tears
Hiroshi Hashiguchi, MD (n), Hiromoto Ito, MD, Yuko Banzai, MD, Gen Horiguchi, MD

4:37 – 4:59 PM

Discussion

5:00 PM

Adjourn

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**DAY THREE
CONCURRENT SESSION 1**

**TUESDAY, MAY 4, 2004
CONSTITUTION BALLROOM**

Session IX: Shoulder Arthroplasty
Moderators: Ian G. Kelly, MD (a,b-Zimmer) and John Sperling, MD (n)

PAPER #68A
8:00 – 8:06 AM

•One-Stage Arthroplasty of the Ipsilateral Shoulder and Elbow
Basil Christopher Vrettos, MBChB, FRCS, FCS(SA) (a-Biomet),
William Angus Wallace, FRCS, Lars Neumann, FRCS

PAPER #69A
8:07 – 8:13 AM

Ipsilateral Shoulder and Elbow Replacements: Assessing the Risk of
Periprosthetic Fracture
Derek Plausinis, MAsc, MD, FRCSC, Carolyn Greaves, BSc, Thomas R.
Oxland, PhD, William D. Regan, MD, FRCSC (n)

PAPER #70A
8:14 – 8:20 AM

Periprosthetic Humeral Fractures After Shoulder Arthroplasty
John W. Sperling, MD, Sanjay Kumar, MD, George J. Haidukewych,
MD, Robert H. Cofield, MD (n)

8:21 – 8:30 AM

Discussion

PAPER #71A
8:31 – 8:37 AM

Long Term Results of a Modular Total Shoulder Arthroplasty for the
Treatment of Primary Osteoarthritis of the Shoulder
David A. Abrutyn, MD (n), David M. Dines, MD

PAPER #72A
8:38 – 8:44 AM

The Short Stemmed ESKA Total Shoulder System: The Smaller the
Better?
Michiel A.J. van de Sande, MD, PhD-student, Jochem Nagels, MD, (b-
Endocare Netherlands), Piet M. Rozing, MD, PhD

PAPER #73A
8:45 – 8:51 AM

Do Second Generation Designs Improve Results of Total Shoulder
Arthroplasty?
John W. Sperling, MD (n), Robert H. Cofield, MD, Jeff Harrington, MS,
Tanya Hoskin, MS, Joe Mileti, MD

8:52 – 9:01 AM

Discussion

PAPER #74A
9:02 – 9:08 AM

The Fate of Revision Shoulder Arthroplasty with Positive Intraoperative
Cultures
Mark S. Topolski, MD, Patrick Y.K. Chin, MD, FRCS(C) (n), John W.
Sperling, MD, Robert H. Cofield, MD

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PAPER #75A

9:09 – 9:15 AM

Staged Exchange Arthroplasty for Shoulder Sepsis
William H. Seitz, Jr, MD (n), Harvey Damacén, MD

9:16– 9:26 AM

Discussion

PAPER #76A

9:27 – 9:33 AM

Evaluation of Subscapularis Muscle Structure and Function after Total Shoulder Replacement with Lesser Tuberosity Osteotomy and Repair
Edward H. Yian, MD (n), Clement Werner, MD, Christian Pfierrmann, MD, Christian Gerber, MD

PAPER #77A

9:34 – 9:40 AM

Ultrasound Evaluation of the Subscapularis Tendon After Total Shoulder Arthroplasty
April Armstrong, MD (n), Cyrus Lashgari, MD, Jamie Menendez, RN, Sharlene A. Teefey, MD, Leesa M. Galatz, MD, Ken Yamaguchi, MD

PAPER #78A

9:41 – 9:47 AM

The Documentation of Subscapularis Strength, Integrity and Outcome Following Shoulder Arthroplasty
Dean W. Ziegler, MD (a,e-DePuy), Robert Manz, MD, Sarah Beykirch

PAPER #79A

9:48 – 9:54 AM

Shoulder Arthroplasty for Glenohumeral Arthritis After Instability Surgery
In-Ho Jeon, MD (), Rinco Koorevaar, MD, Paul D. Triffitt, DM, Lars Neumann, FRCS (Ed), William Angus Wallace, FRCS, FRCSEd (Orth)*

9:55 – 10:15 AM

Discussion

10:16 – 10:44 AM

Break**Session X:****Elbow****Moderators:****Simon Frostick, MD (n) and Basil C. Vrettos, MD, FRCS (b)****PAPER #80A**

10:45 – 10:51 AM

Coronoid Fracture Patterns
David Ring, MD, Job Doornberg, MS (n)

PAPER #81A

10:52 – 10:58 AM

Fracture-Dislocations of the Elbow: Can Injury Components be Predicted Based Upon Injury Patterns?
David Ring, MD (a-AO Foundation), Chris Forthman, MD

10:59 – 11:09 AM

Discussion

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PAPER #82A

11:10 – 11:16 AM

Loss of Alignment After Operative Treatment of Posterior Monteggia Fractures: Salvage with Dorsal Contoured Plating
David Ring, MD, Jason Tavakolian, MD, Peter Kloen, MD, David Helfet, MD, Jesse B. Jupiter, MD (n)

PAPER #83A

11:17 – 11:23 AM

Total Elbow Replacement for Acute C3 Distal Humeral Fractures in the Elderly Population
Christos Sinopidis, MD, Mohhamed El Meligy, MD, Socrates Kalogrianitis, FRCS (n), Ravi Pydishetty, FRCS, Simon P. Frostick, FRCS

PAPER #84A

11:24 – 11:30 AM

Fluoroscopy After Radial Head Replacement Arthroplasty
Pidikiti Prasad, MS (n), Arvind Rawal, MS, FRCS, Dave Ritchie, Peter Brownson, Simon Frostick, MD, FRCS, Chris Sinopidis, MD

PAPER #85A

11:31 – 11:37 AM

Pain Dominates Measurements of Elbow Function and Health Status
David Ring, MD, Lauren M. Fabian, BS (a-AO Foundation), Leah Fourt, BA, Jesse B. Jupiter, MD

11:38 – 11:59 PM

Discussion

12:00 PM

Adjourn

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**DAY THREE
CONCURRENT SESSION 2**

**TUESDAY, MAY 4, 2004
INDEPENDENCE BALLROOM**

- Session IX: Shoulder Fractures**
Moderators: Richard J. Hawkins, MD (a-SHSMF, c-DePuy, Hardcor Books, d-Opus Medical, e-DePuy, U.S. Surgical Sports Medicine) and W. Angus Wallace, MD, Prof (n)
- PAPER #55B**
8:00 – 8:06 AM Parachuting System. Original Technique for Fixation of Two and Three Part Proximal Humeral Fracture. Tension Band With Maleolar Screw.
Eduardo Liborio Menniti, MD (n), Romulo Brasil Filho, MD, Cantidio Salvador Fillardi Filho, Fabiano Reboucas Ribiero
- PAPER #56B**
8:07 – 8:13 AM Arthroscopic Treatment for Greater Tuberosity Fractures: 4-Year Experience
Ettore Taverna, MD (n), Valerio Sansone, MD, Ferdinando Battistella, MD, Guiseppe Pacelli, MD, Carlo Perfetti, MD
- 8:14 – 8:23 AM Discussion
- PAPER #57B**
8:24 – 8:30 AM The Locking Proximal Humerus Plate-Early Experience in 50 Patients
Stefaan J.B. Nijs, MD (n), Paul J.B. Broos, MD
- PAPER #58B**
8:31 – 8:37 AM Simple “Palm Tree” Percutaneous Fixation Technique for Proximal Humeral Fractures
Ofer Levy, MD MCh(Orth) (n), Elias Koury, MRCS, Lennard Funk, FRCS (Orth), Stephen Copeland, FRCS
- PAPER #59B**
8:38 – 8:44 AM •Light Antegrade Nailing with Autostable Screws (LIANAS) for Proximal Humerus Fractures.
Christian Cuny, MD (c-FH Orthopedics), Patrick Beau, MD, M'barek Irrazi, MD
- PAPER #60B**
8:45 – 8:51 AM Minimal Invasive Fixation of Proximal Humerus Fractures
Manfred Pfahler, MD (n), Hermann Anetzberger, MD, Christoph Schulz, MD
- 8:52 – 9:14 AM Discussion
- 9:15 – 10:15 AM **Symposium – Revision Arthroplasty of the Shoulder**
Moderator: David M. Dines, MD (c-Biomet)
- 9:15 – 9:35 AM Revision for Total Shoulder Failure
David M. Dines, MD (c-Biomet)

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- 9:35 – 9:55 AM Revision for Hemiarthroplasty Failure
Charles Rockwood, MD (c-DePuy Ortho Co)
- 9:55 – 10:15 AM Revision for Glenoid Failure
W. Angus Wallace, MD (a,e-Biomet, Nottingham Shoulder, Merck)
- 10:16 – 10:44 AM **Break**
- Session X:** **Rotator Cuff**
Moderators: **Wayne Z. Burkhead Jr., MD (c-Linvatec, e-Zimmer/Centerpulse) and Christian Gerber, MD (n)**
- PAPER #61B**
10:45 – 10:51 AM Do Partial Thickness, Bursal Side Cuff Tears Affect Outcome Following Arthroscopic Subacromial Decompression
Mohammed Al-Maiyah, FRCS (n), Brenden Fourie, MRCS, Lorna Goodchaild, Paul Finn, Amar Rangan, FRCS(ORTH)
- PAPER #62B**
10:52 – 10:58 AM Stress Distribution in the Supraspinatus Tendon with Partial-Thickness Tears: An Analysis Using 2D Finite Element Model
Hirotaaka Sano, MD (n), Wakabayashi Ikuko, MD, Eiji Itoi, MD
- PAPER #63B**
10:59 – 11:05 AM Cross-Sectional Area of the Tendon and Muscle of the Biceps Brachii in Shoulders with Rotator Cuff Tears: A Cadaveric Study
Toshiaki Aizawa, MD (n), Eiji Itoi, Prof, Hiroshi Minagawa, PhD, Nobuyuki Yamamoto, PhD, Tuoheti Yilihamu, MD, Nobutoshi Seki, MD, Tatsushi Kamata, MD, Hidetomo Saito, MD, Koji Nosaka, MD
- 11:06 – 11:16 AM Discussion
- PAPER #64B**
11:17 – 11:23 AM Outcome of Full Thickness Rotator Cuff Tears Treated with Arthroscopic Decompression Alone
Stephen J.L. Roche, MD, Abraham J. Lambrechts, MD (n)
- PAPER #65B**
11:24 – 11:30 AM Outcome From Sub-Acromial Decompression Does a Rotator Cuff Tear Make Any Difference?
Martin A. Scott, MCSP (n), Lars Neumann, FRCSEd, W. Angus Wallace, FRCSEd(Orth)
- PAPER #66B**
11:31 – 11:37 AM Longitudinal Assessment of Mini-Incision Rotator Cuff Repair, at Average 2 and 7 Years
Simon N. Bell, FRACS (n), Jennifer Coghlan, BAppSc, Homan Zandi, FRACS

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PAPER #67B

11:38 – 11:44 AM

Fatty Infiltration & Atrophy of the Rotator Cuff Do Not Improve
Following Rotator Cuff Repair

*Ian Lo, MD, Julie Bishop, MD, James Gladstone, MD (n), Evan Flatow,
MD*

11:45 – 11:59 AM

Discussion

12:00 PM

Adjourn

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**DAY FOUR
CONCURRENT SESSION 1**

**WEDNESDAY, MAY 5, 2004
CONSTITUTION BALLROOM**

Session XI: Instability
Moderators: Markus Loew, MD (n) and Michael Simoni, MD (n)

PAPER #86A
8:00 – 8:06 AM

Results of Anterior Inferior Capsular Shift in Females Less than 40 Years Old
Rolando Izquierdo, MD, Walter Stanwood, MD, Marshall Kuremsky, MD, Christopher S. Ahmad, MD (n), Theodore Blaine, MD, William Levine, MD, Louis U. Bigliani, MD

PAPER #87A
8:07 – 8:13 AM

A Modified Capsular Shift for the Treatment of Non-Traumatic Shoulder Instability
Bjoern Marquardt, MD (n), Wolfgang Poetzl, MD, Kai-Axel Witt, MD, Joern Steinbeck, MD

PAPER #88A
8:14 – 8:20 AM

Multidirectional Instability: A review of 124 cases
Jo C. Gibson, GradDipPhy, Vanessa S. Rayner, BapSci (n), Simon Frostick, MA, DM, FRCS

8:21 – 8:30 AM

Discussion

PAPER #89A
8:31 – 8:37 AM

Proprioception Studies in Shoulder Instability and the Effect of Thermal Capsular Shrinkage
W. Angus Wallace, FRCSEd(Orth) (n), Rajesh Jari, MD, MSc(Sp Med), Amar Bal, MSc(Sp Med), Stacy L. Turner, MSc(Sp Med), Lisa-Marie Schmitz, MSc(Sp Med), Lars Neumann, FRCSEd

PAPER #90A
8:38 – 8:44 AM

Capsular Shrinkage: Factors Increasing the Risk of Failure
Christos Sinopidis, MD (n), Jo Gibson, MCSP, Arvind Rawal, FRCS, Simon P. Frostick, FRCS

PAPER #91A
8:45 – 8:51 AM

Revision Surgery for Failed Thermal Capsulorrhaphy (TC)
Hyung Bin Park, MD (n), Tae Kyun Kim, MD, PhD, Atushi Yokota, MD, PhD, Edward G. McFarland, MD

8:52 – 9:01 AM

Discussion

PAPER #92A
9:02 – 9:08 AM

Surgical Results of Open Anterior Inferior Capsular Shift in Athletes with Recurrent Bi-Directional Instability
George M. McCluskey, III, MD, Sean Kaminsky, MD (n), Bryce W. Gaunt, RT, SCS

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- PAPER #93A**
9:09 – 9:15 AM ‘Purse String Technique’ for Arthroscopic Stabilization and Early Results
Timothy Matthews, MRCS (n), Ofer Levy, MD, MCh(Orth)
- PAPER #94A**
9:16 – 9:22 AM Arthroscopic Capsulolabroplasty for Multidirectional Instability of the Shoulder
Seung-Ho Kim, MD (d-ConMed), Hyo-Kyun Kim, MD, Jong-Il Sun, MD, Jun-Sic Park, MD, Irvin Oh, MD
- 9:23 – 9:33 AM Discussion
- PAPER #95A**
9:34 – 9:40 AM Normal Variations of the Glenohumeral Ligament Complex: An Anatomical Study for Arthroscopic Bankart Repair
Junji Ide, Assistant Professor (n), Satoshi Maeda, MD, Katsumasa Takagi, Professor
- PAPER #96A**
9:41 – 9:47 AM Arthroscopic Bankart Repair Using a Knotless Method: Technique and Results
Jon J.P. Warner, MD (a-Mitek), Michael Gilbert, MD, Edward Yian, MD, Conrad Wang, MD, Peter Millett, MD
- PAPER #97A**
9:48 – 9:54 AM Arthroscopic Versus Open Repair for Recurrent Traumatic Anterior Shoulder Instability: A Meta-Analysis.
Robert M. Hollinshead, MD, Nicholas G.H. Mohtadi, MD (n), Ivan J. Bitar, MD, Treny M. Sasyniuk, BPE, Wade P. Harper, MD
- 9:55 – 10:15 AM Discussion
- 10:16 – 10:44 AM **Break**
- Session XII:**
Moderators: **Rotator Cuff**
Michel F. Mansat, MD (n) and Robert J. Neviaser, MD (n)
- PAPER #98A**
10:45 – 10:51 AM Vascular Proliferation and Nsaids in the Torn Rotator Cuff
Arvind Rawal, MS, FRCS (n), Anuradha Sheth, Margaret Roebuck, Jo Gibson, Vanessa Rayner, Simon P. Frostick
- PAPER #99A**
10:52 – 10:58 AM Intraoperative Supraspinatus Strength, Histology and Correlation with the Outcome of Tendon Repair
Dominik C. Meyer, MD, Hans Hoppeler, MD, Prof (n), Alberto G. Schneeberger, MD, Christian Gerber, Prof
- 10:59 – 11:09 AM Discussion

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PAPER #100A

11:10 – 11:16 AM

Irreparable Rotator Cuff Tears - Results of the Surgical Treatment by Mini-Open Incision
Osvandre L. Lech, MD, Mikael Borges, MD ()*

PAPER #101A

11:17 – 11:23 AM

Arthroscopically Assisted Repair of Large to Massive Rotator Cuff Tears
Kwang Won Lee, MD, PhD (n), Ha Yong Kim, MD, PhD, Byung Sung Kim, MD, PhD, Won Sik Choy, MD, PhD, Kap Jung Kim, MD

PAPER #102A

11:24 – 11:30 AM

Complications of Using Bioheaded Corkscrews in Rotator Cuff Surgery
Stephen J.L. Roche, MD (a-South African Shoulder & Elbow Society), Basil C. Vrettos, MD

PAPER #103A

11:31 – 11:37 AM

Arthroscopic Repair of Full-Thickness Tears of the Supraspinatus: Does the Tendon Really Heal?
Pascal Boileau, MD (n), Nicolas Brassart, MD, Armodios M. Hatzidakis, MD, Sumant G. Krishnan, MD

11:38 – 11:59 PM

Discussion

12:00 – 12:59 PM

Lunch**Session XIII:****Moderators:****Shoulder Arthroplasty****Evan L. Flatow, MD (*) and Gilles Walch, MD (c-Tornier)****PAPER #104A**

1:00 – 1:06 PM

Comparative Mortality and Morbidity of Shoulder, Hip and Knee Arthroplasties
Kevin Farmer, MD (n), Tae Kyun Kim, MD, PhD, Atushi Yokota, MD, PhD, Edward G McFarland, MD

PAPER #105A

1:07 – 1:13 PM

•A New Fracture Prosthesis with Adjustable Head Height: Results According to Healing of Greater Tuberosity
Peter Habermeyer, PhD, MD, Helmut Lill, PhD, MD, Rainer Hente, MD (c-Arthrex, Inc), Petra Magosch, MD

PAPER #106A

1:14 – 1:20 PM

Effectiveness of Replacement Arthroplasty with Calcar Grafting for the Treatment of Surgical Neck Nonunions of the Humerus
Jason Lin, MS, Steven Klepps, MD, Suzanne Miller, MD, Edmond Cleeman, MD, Evan Flatow, MD (a,c-Zimmer)

PAPER #107A

1:21 – 1:27 PM

Analysis of Failed Hemiarthroplasty in Patients with Primary Glenohumeral Osteoarthritis
Steven P. Kalandiak, MD, Robert S. Tapscott, MD, Kirk L. Jensen, MD (n), Michael A. Wirth, MD, Charles A. Rockwood, MD

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- 1:28 – 1:48 PM Discussion
- PAPER #108A**
1:49 – 1:55 PM Humeral Hemiarthroplasty with Biologic Resurfacing for Glenohumeral Arthritis Associated with Massive Irreparable Rotator Cuff Tears
Sumant G. Krishnan, MD, Wayne Z Burkhead, MD, Robert J. Nowinski, DO (n)
- PAPER #109A**
1:56 – 2:02 PM Biomechanical Analysis of Shoulder Prostheses Treating Cuff Tear Arthropathy: A Comparative Study
Lieven Franciscus De Wilde, MD (n), Emmanuel Audenaert, MD, Bart Berghs, MD
- PAPER #110A**
2:03 – 2:09 PM Middle-Term Results After Shoulder Arthroplasty - Evaluation of Shoulder Function with a New Assessment Set
Hans-Kaspar Schwyzer, MD, Geza Pap, MD (a-Foundation G & H Schwyzer), Felix Angst, MD
- 2:10 – 2:25 PM Discussion
- PAPER #111A**
2:26 – 2:32 PM •Cementless Glenoid Resurfacing in Concentric Versus Eccentric Glenoid Deformity: A Prospective Study
Peter Habermeyer, PhD, MD (c-Arthrex, Inc), Petra Magosch, MD, Sven Lichtenberg, MD
- PAPER #112A**
2:33 – 2:39 PM Long Term Results of Shoulder Arthroplasty: A 5-12 Year Outcome Study
Michael Wirth, MD, Todd Swenning, MD (n), Charles Rockwood, Jr, MD, Carelton Southworth, MB
- PAPER #113A**
2:40 – 2:46 PM Results of Shoulder Arthroplasty in Patients with Osteoarthritis
John F. Haines, FRCS (a-DePuy International, Ltd), Ann Birch, Andrew D. Barrow, FRCS, David Nuttall, PhD, Ian A. Trail, FRCS
- PAPER #114A**
2:47 – 2:53 PM Long Term TSA Follow-Up
Rolando Izquierdo, MD, Marshall Kuremsky, MD, Ilya Voloshin, MD, Theodore Blaine, MD, William N. Levine, MD (), Louis Bigliani, MD*
- 2:54 – 3:15 PM Discussion
- 3:16 – 3:44 PM **Break**

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**Session XIV:
Moderators:**

**Basic Science/Biomechanics
William N. Levine, MD (*) and Thay Q. Lee, PhD (n)**

**PAPER #115A
3:45 – 3:51 PM**

Measurement of Internal Rotation of the Shoulder with a Magnetic Tracking Device

Ikuko Wakabayashi, MD (n), Eiji Itoi, MD, Hiroshi Minagawa, MD, Moto Kobayashi, MD, Nobutoshi Seki, MD, Koji Nozaka, MD, Hidetomo Saito, MD, Tatsushi Kamata, MD, Toshiaki Aizawa, MD

**PAPER #116A
3:52 – 3:58 PM**

Humeral Retrotorsion Angle in Younger Baseball Players

Daisuke Makiuchi, MD (n), Hiroaki Tsutsui, MD, Kenichi Mihara, MD, Kazuhide Suzuki, MD, Naoya Nishinaka, MD

**PAPER #117A
3:59 – 4:05 PM**

Mathematical Modeling of Humeral Head Geometry

Anthony Miniaci, MD, John Phillips, MD (n), John Runciman, MD

4:06 – 4:15 PM

Discussion

**PAPER #118A
4:16 – 4:22 PM**

Proprioception of the Shoulder Joint After Surgical Repair for Instability -A Long-Term Follow Up Study?

Wolfgang Potzl, MD (n), Lothar Thorwesten, PhD, Kai-Axel Witt, MD, Bjorn Marquardt, MD, Oliver Greshake, MD, Jorn Steinbeck, MD

**PAPER #119A
4:23 – 4:29 PM**

A Biomechanical Evaluation of Glenohumeral Translations after Anterior Capsulorrhaphy in a Shoulder Instability Model

James Tibone, MD (n), David J Schneider, MD, Michelle H. McGarry, MS, Thay Q. Lee, PhD

**PAPER #120A
4:30 – 4:36 PM**

The Influence of Arthroscopic Subscapularis Tendon and Anterior Capsule Release on the Glenohumeral Translation: A Biomechanical Study

Joern Steinbeck, MD (n), Stefan Garmann, MD, Christof Hurschler, PhD, Bjoern MD Marquardt, MD, Wolfgang Poetzl, MD, Kai A. Witt, MD

**PAPER #121A
4:37 – 4:43 PM**

The Effect of Bankart Lesions on the Sagittal Axis Pathway of Extending Shoulders.

Nicholas W. Emms, MRCS (n), John D. Moorehead, PhD, Stephen C. Montgomery, FRCS, Peter Brownson, FRCS, Simon P. Frostick, FRCS

4:44 – 4:59 PM

Discussion

5:00 PM

Adjourn

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**DAY FOUR
CONCURRENT SESSION 2**

**WEDNESDAY, MAY 5, 2004
INDEPENDENCE BALLROOM**

Session XI: **Arthroscopy**
Moderators: **Robert Hollinshead, MD (n) and W. Jaap Willems, MD, PhD (n)**

PAPER #68B
8:00 – 8:06 AM

Navigation System for Shoulder Arthroscopy
Yoichi Ito, MD, PhD (n), Hiroyasu Tomo, MD, Yoshihiro Nakao, MD, Tatsuya Koike, MD, PhD, Kunio Takaoka, MD, PhD

PAPER #69B
8:07 – 8:13 AM

Clinical Findings and Operative Results of Slap Lesion in Baseball Players
Teruhiko Nakagawa, MD (n), Masamitsu Tsuchiya, MD

PAPER #70B
8:14 – 8:20 AM

Arthroscopic Treatment in Calcific Tendonitis of the Shoulder
Yong Girl Rhee, MD, Chan Teak Lim, MD (n)

8:21 – 8:30 AM

Discussion

PAPER #71B
8:31 – 8:37 AM

Initial Experience With Bursal Envelope on Arthroscopic Rotator Cuff Repair
Sergio Montenegro, MD (n), Lautaro Campos, MD, Marcelo Ipinzas, MD

PAPER #72B
8:38 – 8:44 AM

Reversed Arthroscopic Subacromial Decompression (ASD) for Massive Rotator Cuff Tears
Markus T. Scheibel, MD (n), Sven Lichtenberg, MD, Peter Habermeyer, MD

PAPER #73B
8:45 – 8:51 AM

Arthroscopic Repair of Full Thickness Rotator Cuff Tears Using Bioabsorbable Tacks
Anthony Miniaci, MD, Julie McBirnie, MD (a-Smith & Nephew), Sara Lyn Miniaci, MD

PAPER #74B
8:52 – 8:58 AM

Second Look of Arthroscopic Rotator Cuff Repair
Sergio Montenegro, MD, Lautaro Campos, MD (n), Marcelo Ipinzas, MD

8:59 – 9:14 AM

Discussion

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- 9:15 – 10:15 AM **Kessel Symposium – Rotator Cuff Tears And Arthritis**
Moderator: **Ian Bayley, FRCS (n)**
- 9:15 – 9:35 AM Pathology and Evolution
Charles Neer, MD (e-Smith & Nephew, Inc.)
- 9:35 – 9:55 AM Non-Prosthetic Management
Gilles Walch, MD
- 9:55 – 10:15 AM Role of the Reverse Prosthesis
Christian Gerber, MD
- 10:16 – 10:44 AM **Break**
- Session XII:** **Basic Science/Biomechanics**
Moderators: **Joseph P. Iannotti, MD, PhD (n) and Hans K. Uthoff, MD (n)**
- PAPER #75B**
10:45 – 10:51 AM A Three-Dimensional Analysis of Scapular Kinematics in Rotator Cuff Rehabilitation: A Comparison of ‘Full Can’ vs. ‘Empty Can’ Exercise Techniques
Charles Thigpen, MS (n), Darin Padua, PhD, Nick Morgan, BS, Carly Kreps, BS, Spero G. Karas, MD
- PAPER #76B**
10:52 – 10:58 AM Analysis of Scapulohumeral Rhythm During Internal and External Rotation Using Skin-Mounted Electromagnetic Tracking Sensors
Nobutoshi Seki, MD (n), Eiji Itoi, PhD, Ikuko Wakabayashi, PhD, Hiroshi Minagawa, PhD, Yilihamu Tuoheti, PhD, Nobuyuki Yamamoto, PhD, Toshiaki Aizawa, MD, Moto Kobayashi, MD
- PAPER #77B**
10:59 – 11:05 AM In-vivo Kinematics of Normal Shoulders and Shoulders with Massive Rotator Cuff Tears
Steven P. Kalandiak, MD (n), Avinash Kumar, MD, Joseph J. Crisco, PhD, Andrew Green, MD
- 11:06 – 11:16 AM Discussion
- PAPER #78B**
11:17 – 11:23 AM Acromioclavicular Stability: A Biomechanical Comparison of Acromioplasty to Acromioplasty with Coplaning of the Distal Clavicle
Scott G. Edwards, MD (n)
- PAPER #79B**
11:24 – 11:30 AM Comparison of Radiofrequency Ablation with Mechanical Shaving on Tendon Using Histological and Ultrastructural Analysis
Rakulan Balendran, BSc, MBBS, MRCS (n), Ann Sandison, M. Phil, MBChB, MRCPATH, Jill Moss, PhD, David Peston, DMS, FIBMS, Andrew Lachlan Wallace, MBBS, PhD, FRACS

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PAPER #80B

11:31 – 11:37 AM

Location of the Glenoid Defect in Shoulders with Recurrent Anterior Dislocation

*Hidetomo Saito, MD (n), Eiji Itoi, MD, PhD, Hiroshi Minagawa, MD, PhD, Elham Tohte, MD, Nobuyuki Yamamoto, MD, Moto Kobayashi, MD, Koji Nozaka, MD, Tatsushi Kamata, MD, Nobutoshi Seki, MD***PAPER #81B**

11:38 – 11:44 AM

Measurement of a Glenoid Defect with 3D-CT and 3D-MRI: A Cadaver Study.

Pol E. Huysmans, MD (n), Pieter-Steijn W. Haen, student, Viktor van der Hulst, MD, PhD, Wouter J. Dhert, MD, PhD, Jaap W. Willems, MD, PhD

11:45 – 11:59 PM

Discussion

12:00 – 12:59 PM

Lunch**Session XIII:****Shoulder Fractures****Moderators:****Leeza Galatz, MD (n) and Herbert Resch, MD (n)****PAPER #82B**

1:00 – 1:06 PM

Outcome of Shoulder Hemiarthroplasty for Complex Displaced Proximal Humeral Fractures

*Richard S. Page, FRACS (Orth) (a-Royal College of Surgeons of England), Mike C. Robinson, FRCS (Orth), Charles Court-Brown, MD FRCS Ed, Richard M.F. Hill, FRCS (Tr and Orth), Alison Wakefield, MSc***PAPER #83B**

1:07 – 1:13 PM

Hemiarthroplasty for Proximal Humeral Fracture: A New Method to Obtain Correct Humeral Length

*Ariane Gerber, MD (n), Maria Apreleva, PhD, Fraser Harrold, BS, Philippe Clavert, MD, Jon Warner, MD***PAPER #84B**

1:14 – 1:20 PM

Early Versus Late Mobilization Following Shoulder Hemiarthroplasty for Proximal Humeral Fractures.

Ioannis Agorastides, MRCS (n), Chris Sinopidis, Mohamed El Meligy, Quy Yin, Peter Brownson, Simon P. Frostick

1:21 – 1:30 PM

Discussion

PAPER #85B

1:31 – 1:37 PM

•Clinical Results After Surgical Repair of Glenoid Rim Fractures Using Canulated Titanium Screws

Frank Erol Gohlke, Prof, Christian Fix, MD, Thomas Dirk Boehm, MD ()*

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PAPER #86B

1:38 – 1:44 PM

Open Intramedullary Nail with Tension Band and Locking Sutures on Proximal Humeral Fracture

*Jin-Young Park, MD (n), Jin-Woo An, MD, Sung-Churl Lee, MD***PAPER #87B**

1:45 – 1:51 PM

Treatment of Diaphyseal and Proximal Metaphyseal Humerus Fractures with the True-Flex Intramedullary Nail

Gary Sherman, M.D. (n), William H Seitz, Jr., M.D.

1:52 – 2:14 PM

Discussion

2:15 – 3:15 PM

Symposium – The Stiff Shoulder**Moderator:***Stephen A. Copeland, FRCS (n)*

2:15 – 2:35 PM

Etiology and Pathophysiology

Kazutoshi Hamada, MD (n)

2:35 – 2:55 PM

Releases in the Presence of Arthritis

Robert Cofield, MD (c-Contract between Smith & Nephew, Mayo Clinic)

2:55 – 3:15 PM

Treatment for Soft Tissue Stiffness

Stephen A. Copeland, FRCS (n)

3:16 – 3:44 PM

Break**Session XIV:****Moderators:****Rotator Cuff****Frances Cuomo, MD (n) and Eiji Itoi, MD (n)****PAPER #88B**

3:45 – 3:51 PM

•Rupture of the Subscapularis Tendon - A New Clinical Test

*Osvandre Luiz Lech, MD (n), J. Felipe Medeiros F., MD***PAPER #89B**

3:52 – 3:58 PM

Repair of Tears of the Subscapularis: Minimum Two Year Follow-up Results of 84 Cases

T. Bradley Edwards, MD (n), Gilles Walch, MD, Daniel Mole, MD, Laurent Nove-Josserand, MD, Aziz Boulahia, MD, Lionel Neyton, MD, Bruce Lindgren, MS, Istvan Szabo, MD

3:59 – 4:08 PM

Discussion

PAPER #90B

4:09 – 4:15 PM

Outcome of Rotator Cuff Tears with and Without Shoulder Stiffness

*Tatsuro Komatsuda, MD (n), Katsumi Sato, MD, Shigeki Sone, MD, Koji Ishibashi, MD, Jun Kumagai***PAPER #91B**

4:16 – 4:22 PM

The Effect of Shoulder Manipulation on Rotator Cuff Integrity

Ehud Rath, MD (n), Tirtza Even, MD, MSc, Harry Brownlow, Stephen Copeland, Ofer Levy

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PAPER #92B

4:23 – 4:29 PM

Asymmetric Atrophy of the Supraspinatus Muscle Following Tendon Tear

Dominik C Meyer, MD, Christof Pirkl, MD (n), Christian Pfirrmann, MD, Marco Zanetti, MD, Christian Gerber, Prof

PAPER #93B

4:30 – 4:36 PM

Triceps Myotendinous Rotation Flap for Unrepairable Rotator Cuff Tears: Minimum 2 Year Follow Up

Drew V. Miller, MD (n), James D. Namnour, MD

4:37 – 4:59 PM

Discussion

5:00 PM

Adjourn

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