

ACL STUDY GROUP - Program

BIG SKY RESORT

BIG SKY, MONTANA

MARCH 2-8, 2002

Saturday, March 2, 2002-

2:00 p.m. – 6:00 p.m. - Sunday “Speakers:” If you are presenting with power point slides on Sunday, you must load your talk with the technician in the SLIDE READY ROOM, SHOSHONE BOARD ROOM, before 6:00 p.m. today. All other power point presenters, please load your slides one day prior to your presentation

6:30 p.m. – 8:00 p.m. – REGISTRATION

The Upper Atrium - (Light Refreshments)

Sunday, March 3, 2002 (A.M.)

6:00 am – Buffet Breakfast – Hotel Dining Room

DAILY PROGRAMS HELD IN GALLATIN ROOM – (The Summit)

SUNDAY, MARCH 3, 2002

6:00 a.m-7:00 a.m. Registration

7:00 am-7:30 am – Introduction: John Feagin, MD, Peter Burkart, MD, John Bergfeld, MD,

Jack Andrish, MD

Local Welcome – John Campbell

SCIENTIFIC SESSION I

Moderator: Peter Burkart MD

7:30 a.m.

Outcome Criteria After ACL Replacement – Does the Patient Benefit from ACL Replacement?

Thomas W. Patt, MD* (Peter Burkart, MD, Switzerland)

7:37 am

Treatment Trends with Anterior Cruciate Ligament, Posterior Cruciate Ligament, Medial Collateral Ligament and Cartilage Problems. – John D. Campbell, MD, USA

7:44 a.m.

Clinical Examination of the Knee – A Dying Art. – Brian Hurson, MD, Ireland

7:51 - 8:20 am - DISCUSSION

8:20 am –

Tension in the Normal Anterior Cruciate Ligament. A Cadaver Study with Clinical Relevance.

Markus P. Arnold, MD* (Alfred VanKampen MD, The Netherlands)

8:27 am

Comparison of Outcomes Between Males and Females After Anterior Cruciate Ligament Reconstruction –

Mary Lloyd Ireland, MD, USA

8:34 am

Comparison of Two-Stage Revision Technique to Primary ACL Reconstruction –
Neil Thomas, MD*

(Derek Bickerstaff, MD, U.K.)

8:41 – 9:11 am – DISCUSSION

9:11 am – 9:18 a.m.

ACL Study Group Grants' Recognition – John Feagin, MD

SCIENTIFIC SESSION II

Moderator: Mary Lloyd Ireland, MD

9:20 a.m.

Use of Cryopreserved Tibialis Allograft for Anterior Cruciate Ligament
Reconstruction: Clinical Results.

David N.M. Caborn, MD*, USA, (Don Johnson, MD, Canada)

9:27 a.m. – AWARD PAPER

Lower Extremity Neuromuscular and Biomechanical Adaptations to training in
Female Athletes.

Scott M. Lephart, MD* (Dr. Freddie Fu, USA)

9:34 a.m.

Anterior Cruciate Reconstruction Combined with Valgus Tibial Osteotomy – Long Term Results.

Tark Ait Si Selmi, MD* (Werner Mueller, MD, Switzerland)

9:41 a.m. – 10:11 a.m. DISCUSSION

SCIENTIFIC SESSION III

Moderator: Savio L-Y-Woo, Ph.D.

Sunday, March 3, - P.M. SESSION

3:00 p.m.

Bioabsorbable Interference Screw vs. Metallic Tibial Fixation Patellar Tendon and Hamstring ACL Reconstruction: A Clinical Radiographic Study. Julian Feller, MD, Australia

3:07 p.m.

Bioabsorbable Interference Screw Fixation of Hamstring ACL Grafts: The Effect of Screw Diameter on Pull-Out Strength. - Charles A. Gottlob, MD* (Eric Stahl, MD, USA)

3:14 p.m.

Effect of PCL Injury and Reconstruction on Meniscal Strain. Albert W. Pearsall IV* (Marcus Hollis, MD, USA)

3:21 p.m. . 3:51 p.m. - DISCUSSION

3:55 p.m.

ACL Ruminations Since West Point 1978 - Brian Casey, MD, Australia

4:03: p.m.

Navigational Assistance in Positioning the Femoral and Tibial Tunnels in Anterior Cruciate Ligament Replacement – Jurgen Eichhorn, MD, Germany

4:10 p.m.

Anterior Cruciate Ligament Reconstruction Using a Free-and Computer Assisted Drill Guide.

Jacques Menetrey, MD* (D. Fritschy MD, Switzerland)

4:17 p.m.

Secondary Tensioning of an Elongated ACL Graft is Justified – Peter Hertel, MD, Germany

4:25 p.m. - 5:05 p.m. - DISCUSSION

5:05 p.m. – 5:35 p.m.

5:05 p.m. – 5:35 p.m. SPECIAL LECTURE BY:

DR. RON LOSEE – “ACL’S IN THE MONTANA MOUNTAINS”

Friends and Family Invited!

7:00 P.M. – WELCOME PARTY - UPPER ATRIUM

SPONSORED BY ARTHREX, INC.

MONDAY, MARCH 4, 2001 – A.M.

6:00 –6:45 am – BREAKFAST

6:45 a.m. –7:30a.m - FIRST BUSINESS MEETING

SCIENTIFIC SESSION IV

Moderator: Roland Biedert, MD

7:30 a.m.

Posterolateral Complex Injuries of the Knee Associated with Peroneal Nerve Dysfunction –

Joel L. Boyd, MD* (Jack T. Andrish, MD, USA)

7:37 a.m.

A Prospective Randomized Study of the Use of a Brace in Slight Hyperextension vs. A Straight Brace in the Immediate Postoperative Period After ACL Reconstruction. – Ejnar Eriksson, MD, Sweden

7:44 a.m.

Brace Unlocked vs Locked in Full Extension for the First Week After ACL Reconstruction: A Clinical Prospective Study – G. Melegati, MD* (Mateo Denti, MD, Italy)

7:44 a.m. - 8:15 a.m. DISCUSSION

8:15 a.m.

Association of HLA with Primary Arthrofibrosis After ACL Reconstruction. – Hermann Mayr, MD, Germany

8:22 a.m.

Lysis of Pretibial Patellar Tendon Adhesions (“Anterior Interval Release”) to Treat Anterior Knee Pain after ACL Reconstruction. – J. Richard Steadman, MD, USA

8:29 a.m.

Treatment of Severe Arthrofibrosis of the Knee by Fat Pad Resection and Posterior Capsulotomy. Technique and Results of 121 Consecutive Cases. – Philipp Lobehoffer, MD* , Germany

(John Feagin, MD)

8:30 – 9:00 a.m. DISCUSSION

9:00 a.m. – 9:45 a.m. - Presentations

9:45 – 10:15 a.m. DISCUSSION

ROUND TABLE #1 -

Moderator: Jack T. Andrish, MD

“Critical Issues with ACL Reconstruction: What Are They?”

10:15 a.m. ADJOURN

MONDAY, MARCH 4, 2001 – PM SESSION

SCIENTIFIC SESSION V

Moderator: John L. VanderSchilden, MD

3:00 p.m.

Pulsed Electromagnetic Field Effect on Tendon Graft to Bone Tunnel and Ligament Injury Healing: A Dog Model of ACL Reconstruction and MCL Injury. – Michael Belanger, MD* (Wm. Grana, MD) USA

3:07 p.m.

A Six-Month Biomechanical and Histological Evaluation of Porcine Xenografts for Anterior Cruciate Ligament Reconstruction. Kevin Stone, MD, USA

3:14 p.m.

Donor Site Morbidity After Anterior Cruciate Ligament Reconstruction with Ipsilateral vs. Contralateral Harvesting of Bone-Patellar-Tendon Graft. – Hans H. Paessler, MD, Germany

3:21 p.m.

Comparison of One-Leg Hop for Distance Scores in the Anterior Cruciate Ligament Deficient Population with a Group of Healthy Controls. – Paul Marks, MD, Canada

4:00 –4:45 p.m. - DISCUSSION

4:45 p.m..

Patellar Tendon Versus Hamstring ACL Reconstruction in a Competitive Female Basketball Population. – Gene Barrett, MD, USA

4:52 p.m.

Intraoperative Measurement of Knee Joint Kinematics in ACL Repair. – AMJ Bull, MD*

(Andrew Amis, MD, U.K

4:59 p.m.

A Comparison of Normal Kneeling Pressure Patterns with Postoperative BTB Kneeling Pressure Patterns.

M.F. Sherman, MD, USA

5:00 - 5:30 p.m. - DISCUSSION

5:30 p.m. –6:00 p.m. *SPECIALTY TALK* – Thirty Year Follow-Up of Isolated Anterior Cruciate Ligament Injuries - Dean Taylor, MD, and John Feagin, MD, USA

TUESDAY, MARCH 5, 2002 - A.M. SESSION

6:00 a.m. – 7:00 a.m. - BREAKFAST

SCIENTIFIC SESSION VI

Moderator: Steve Howell, MD

7:00 a.m. AWARD PAPER

Effects of the Angle of the Femoral and Tibial Tunnel in the Coronal Plane and Posterior Cruciate Ligament on ACL Graft Tension - M.L Hull, Ph.D (Stephen M. Howell, MD, USA)

7:07 a.m.

Bucket handle Medial Meniscus Tears in ACL Reconstructed Knee: Long Term Outcome –

K. Donald Shelbourne, MD, USA

7:14 a.m.

Single Incision Anterior Cruciate Ligament Reconstruction Using Patellar Tendon Autograft: What are the Results After a Ten Year Follow Up? – Alwin Jäger, MD* (Hermann Mayr, MD, Germany)

7:21 a.m. – 7:50 DISCUSSION

7:50 a.m.

ACL Reconstruction in the Skeletally Immature Athlete: Comparison of Two Techniques-

George Paletta, MD (JohnBergfeld, MD) USA

7:57 a.m.

ACL Strain During Simulated Free-Speed Walking. - Jason L. Koh, MD*
(Richard Parker, MD, USA)

8:05 a.m –8:12 a.m.

Anatomic, Physiological Sparing Anterior Cruciate Ligament Reconstruction in
Skeletally Immature

Patients Using Quadruple Hamstring Grafts” – Allen F. Anderson, MD* USA (John
Feagin, MD)

8:12 a.m. - 8:42 a.m. DISCUSSION

8:30 a.m. – 10:00 a.m. – LAKE CANYON ROOM

WILMABERGFELD, MD WILL PRESENT:

-- **“Grow Old Gracefully. Character Without Wrinkles.”**

- **“Hair Loss is Not Always Hereditary.”**

DISCUSSION

8:42 a.m.

Knee As Orthopaedic Rosetta Stone. - Scott F. Dye, MD, USA

8:49 a.m.

Differences in Core Stability Between Male and Female Collegiate Athletes as Measured by Trunk and Hip Performance – D.T. Leetun, MD* (Mary Lloyd Ireland, MD, USA)

8: 56 a.m.

Structure-Function Relationships in Healing Ligament Scars. - CY B. Frank, MD* Canada

(Jack Andrish, MD, USA)

9:03 a.m. –9:33 a.m. - DISCUSSION

9:33 a.m. – 10:00 a.m. - Presentation

10:00 a.m. -10:30 a.m. - Discussion

ROUND TABLE #2

Moderator: Ken DeHaven, MD

“Outcome Measures Following ACL Reconstruction”

D. Johnson, MD, Allen Anderson MD, Werner Mueller, MD

10:30 a.m. ADJOURN

TUESDAY, MARCH 5 – P.M. SESSION

SCIENTIFIC SESSION VII

Moderator: Andrew Amis, MD

3:00 p.m.

Cross Pinned Interference Screw. – E. Marlowe Goble, MD, USA

3:07 p.m.

Two Year Results on Double-Looped Semitendinosus and Gracilis Grafts Fixed with a Bioabsorbable Soft Tissue Interference Screw. - Donald H. Johnson, MD, Canada

3:14 p.m.. – **AWARD PAPER**

Tensile Properties of an ACL Graft After Press-Fit Fixation. Volker Musahl, MD*
(Freddie Fu, MD, USA)

3:21 p.m. –3:51 p.m. - DISCUSSION

4:00 p.m

Stratification of Cartilage Injury Following Acute Isolated ACL Tear: Immediate Effect and Clinical/MR Follow-up. – Hollis G. Potter, MD, USA

4:07 p.m.

Revascularization Following ACL Reconstruction: Evaluation with MRI in the Oblique Axial View.

Roland M. Biedert, MD, Switzerland

4:14 p.m.

Evaluation of the Sensitivity of 3D-SPGR MRI Sequence to detect articular cartilage Lesions of the Knee, with a Focus on ACL Injured Knees. – James N. Gladstone, MD (Hans Paessler, MD, Germany)

4:21 p.m. – 4:50p.m. DISCUSSION

4:51 p.m.

Injury Mechanisms of ACL Rupture in Alpine Ski Racing. - Arne Ekeland, MD, Norway

4:58 p.m.

Skiing with “Carving” skis: Different styles – Different load patterns – Different Injury Patterns? A Biomechanical Analysis Utilizing Force Plates Fixed to the Skis. – Werner Mueller, MD, Switzerland

5:00 p.m.

Risk Factors Associated with Non-Contact ACL Injury: A Prospective Four-Year Evaluation of 859 West Point Cadets. - John M. Uhorchak, MD, Col., MC, USA* (Dean C. Taylor, MD, LTC, MC, USA)

5:07 p.m. – 5:37 p.m. – DISCUSSION

WEDNESDAY, MARCH 6, 2002 - FIELD TRIP

**TO YELLOWSTONE NATIONAL PARK TO INCLUDE TOUR OF
YELLOWSTONE,**

SNOWMOBILING, BOX LUNCH, AND DINNER

THANK YOU TO AIRCAST

THURSDAY, MARCH 7, 2002 - A.M. SESSION

6:00 – 6:45 a.m. BREAKFAST

6:45 a.m. – 7:30 a.m. SECOND BUSINESS MEETING

SCIENTIFIC SESSION VIII

Moderator: Richard Steadman, MD

7:30 a.m.

Does “Overtightening” an Anatomically Placed Anterior Cruciate Ligament
Reconstruction Graft. Marc R. Safran, MD* (Dil Cannon, MD) USA

7:37 a.m.

MRI Analysis of anatomic Variables in the Etiology of Anterior Cruciate Ligament Injury in Female Athletes. Peter J. Fowler, MD, Canada

7:44 a.m.

Microperforation for Chronic ACL/MCL Laxity: Results in a Rabbit Animal Model and Human Experience —Thomas D. Rosenberg, MD, USA

7:51 a.m.

ACL Reconstruction with a New Degradable Poly (Urethane urea) (PUUR) Band.
– Lars Peterson, MD*

Sweden (Bjorn Engstrom, Sweden)

7:58 – 8:38 - DISCUSSION

8:38 a.m.

The Multipotential Capacity of Stromal Cells Derived from the Infrapatellar Fat Pad of the Knee.

Thomas Parker Vail, MD, USA

8:35 a.m.

Serum Estrogen and Progesterone Levels at The Time of Knee Ligament Injury.
Stuart V. Braun, MD*

(Robert J. Johnson, MD, USA)

8:42 a.m.

Balance Board Training, Could it Prevent Knee Injuries in Female Soccer Players? -

B.K.O. Engstrom, MD, Sweden

8:49 – 9:20 - DISCUSSION

9:20 a.m. – 10:05 a.m. - Presentation

10:05 a.m. – 10:35 a.m. - Discussion

ROUND TABLE #3

Bruce Beynnon, Ph.D, and Robert Johnson, MD

**“Sports Medicine Research Principles Concerning
Observational Studies and Clinical Trials”**

10:35 a.m. - ADJOURN

**12:00 NOON – SKI RACE AND LUNCH –SPONSORED BY MITEK
CORPORATION**

1:30 P.M. - LUNCH IN THE DINING ROOM OFF THE SKI TRACK

THURSDAY, MARCH 6, 2001 – P.M SESSION

SCIENTIFIC SESSION IX

Moderator: Guy Liorzou MD

3:00 p.m.

Intraarticular and Extra-Articular Patient Control and “O” Analgesia for BPTB ACL Reconstruction: A Double Blind Randomized Prospective Study. —M. Denti, MD, Italy

3:07 p.m.

Intraarticular Analgesia Using a Meperidine/Local Anesthetic Combination in Arthroscopic Knee Procedures. — Jack VanderSchilden, MD, USA

3:14 p.m.

Postoperative Intraarticular Patient-controlled Analgesia after Arthroscopically Assisted Anterior Cruciate Ligament Reconstruction. - M. Bigoni, MD* (M. Denti, MD, Italy)

3:21 p.m. – 3:51 p.m. – DISCUSSION

3:51p.m.

The Effects of Radiofrequency Treatment on Chondrocytes and Articular Cartilage Matrix of Fibrillated Cartilage. — Christopher Kaeding, MD (Kurt Spindler, MD)

3:58. p.m.

Electrothermal Tightening of Chronic Partial ACL Tears. – Stephen W. Houseworth, MD, USA

4:05 p.m.

Radiofrequency Electrothermal Shrinkage of the Anterior Cruciate Ligament. –

Thomas R. Carter, MD, USA

4:12 p.m. 4:42 p.m. . - DISCUSSION

4:42 p.m.

Response of Tibial Tunnel and Tibial Inlay Posterior Cruciate Ligament Graft Reconstruction to Cyclic Loading. - David McAllister, MD*, (John Bergfeld, MD, USA)

4:49 p.m..

Double-Bundle PCL Reconstruction. Russell F. Warren, MD, USA

4:56 p.m.

Tibio-Femoral Kinematics of the Weight-Bearing Living Knee With and Without an Intact Anterior Cruciate Ligament – Andy Williams, MD* (Paul Aichroth, MD, U.K.)

5:05 – 5:35 - DISCUSSION

7:00 P.M. – FAREWELL PARTY - COCKTAILS AND DINNER IN THE MISSOURI BALLROOM.

ENTERTAINMENT :

MONTANA ROSE BAND. - DANCE WITH VEDA AND DAN.

FRIDAY, MARCH 8, 2002

6:00 – 7:00 BREAKFAST

SCIENTIFIC SESSION X

Moderator: Thomas Wickiewicz, MD

7:00 a.m.

Chondrocyte Survival and Biomechanical Properties of Fresh Cold-Stored Whole Femoral Condyles: An evaluation of Tissue Used in Osteochondral Allograft Transplantation. – Riley J. Williams, MD, USA

7:07a.m

Metabolic Changes in Knee Joint Synovia During Reperfusion After Arthroscopy – An in-vivo Study Using the Microdialysis Technique – Li Fellander-Tsai (Torsten Wredmark MD, Sweden)

7:14a.m.

Osteochondral Transplantation with Donor Site Reconstruction and MRI Analysis.

–

David P. Johnson MD, UK

7:21 a.m.

Early Weight Bearing After Acute Cartilage Injury Increases Joint Inflammation -

James R. Bocell, Jr., [0]MD, USA

7:21 a.m. – 8:15a.m. - DISCUSSION

SCIENTIFIC SESSION XI

John A. Bergfeld, MD

8:15 pm.

Five Year Multicenter Outcome of Autologous Chondrocyte Implantation of the Knee: Results in the First 100 Consecutive Patients. – J.E. Browne, MD, USA

8:22 a.m.

Resultant Force in the Lateral Meniscus and Bony Contact in the Intact and ACL Deficient Knee by Applying Valgus Torque. Fukuda Y. Tsuda, MD* (Savio L.Y. Woo, Ph.D.)

8:29 a.m.

The Effect of Mechanical Stress and Cuytokines on Nitric Oxide Production in the Menisci.

Christian Fink, MD (Karl-Peter Benedetto, MD, Austria)

8:36 a.m.

The Effects of Radiofrequency Energy on Human Articular Cartilage. C. Thomas Vangsness, Jr., MD.* (John Feagin, MD, USA)

8:50 – 9:45 p.m. - DISCUSSION

9:45 a.m.

Treatment of Grade II Medial Meniscal Tears with Persistent Joint Line Pain.

Thomas P. Branch, MD, USA

9:52 a.m.

Results of Repeat Meniscus Repair. Kenneth DeHaven, MD, USA

10.00 a.m.

Collagen Meniscus Implant (CMI): Multicenter Clinical Trials Update. -

William G. Rodkey, DVM, USA

10:07 a.m.

Correlation of the Injury Pattern and a Videoanalysis of Anterior Cruciate Ligament Tears in World Cup AlpineSkiRacers. Christian Hoser* Austria. Karl-Peter Benedetto, MD)

10:14 – 11:00 - DISCUSSION

11:00 – 11:30 a.m. CLOSURE - John Feagin, MD, Peter Burkart, MD, Jack T. Andrish, MD