

SUNDAY, JANUARY 26

19:00 - 21:00 Welcome Reception/

Registration at Hotel Rasmushof

MONDAY, JANUARY 27

06:00 - 06:30 BREAKFAST

06:30 - 06:45 WELCOME - Christopher Kaeding | John Bergfeld | Christian Fink | Christian Hoser | Volker Musahl Karl Peter Benedetto

MODERATORS - Andrew Amis | Carl Imhauser

BASIC SCIENCE

06:45 - 06:52 Sandro Fucentese (Guest of Peter Burkart) (1) Randomized Controlled Trial of an Osteoconductive Scaffold Positioned to Augment Graft Incorporation after ACL-Reconstruction -

06:53 - 07:03 **Andrew Amis** (2) Should We Cut The ACL In Lab Experiments Or Should It Be

Ruptured Traumatically?

Mirco Herbort

(3) The "Bankart Knee": Biomechanical Consequences Of A Posterolateral Tibia Plateau Impression Fracture As Concomitant Injury Of ACL Rupture

07:12 - 07:19 Jason Koh

(4) Does The ACL Fail Through Attrition? Subfailure Impingement Of The Native Rat ACL Results In Biomechanical Changes And Cell Death.

07:20 - 07:27 **David McAllister**

(5) Cyclic Testing Of Soft Tissue Grafts For ACL Reconstruction

07:28 - 07:35 Marc Safran

(6) Is There Really A Relationship Between Femoroacetabular Impingement And The Anterior Cruciate Ligament

07:36 - 07:43 Amelie Stoehr

(7) Histological And Immunohistochemical Differences In Remodeling Of Human ACL Grafts

07:44 - 07:51 Niv Marom (Guest of Andrew Pearle) (8) Forces And Torques Of The Pivot Shift (PS)

07:52 - 07:59 Florian Imhoff (Guest of Hermann Mayr) (9) The Effect Of Slope And Varus Correction High Tibial Osteotomy In An ACL-Deficient Und ACL-Reconstructed Knee - A Biomechanical

08:00 - 08:20 DISCUSSION

08:20 - 08:35 BREAK

MODERATORS - Julian Feller | Jacques Menetrey

ACL AND MENISCUS

(10) Meniscus Transplant/Substitution Using Autologous Tendon Graft. Early Experiences From First 5 Cases In A Prospective Pilot Study

08:43 - 08:50 Elmar Herbst (11) Distraction Forces On The Meniscal Roots Depend On Axial

Loading Rather Than Flexion Angle

08:51 - 08:58 (12) ACL & Meniscus ACC Rehab Thomas Klootwyk

08:59 - 09:06 James Robinson

(13) Concomitant Repair Of Displaced Bucket Handle Repairs And ACL

Romain Seil

(14) High Incidence Of Previously Neglected Meniscus Lesions Influencing Knee Biomechanics In Association With ACL Injuries.

09:15 - 09:23 Tim Spalding

(15) Results Of Primary And Revision ACL Reconstruction With Meniscal Transplant: Good Results In Selected Patients

Renee Verdonk (16) A Polyurethane Partial Meniscal Implant For Chronic Painful Partial

Meniscectomy- A 5 Y+ Follow Up Evaluation

09:32 - 09:57 DISCUSSION

ADJOURN

15:30 - 16:00 SNACK

MODERATORS - Ryosuke Kuroda | Andrew Pearle

ANATOMIC ACL

Joan Monllau

(17) Selective Bundle Reconstruction In Partial ACL Tears Leads To Excellent Long-Term Functional Outcomes And A Low Percentage Of

Failures

Atsuo Nakamae

(18) Improvement Of Proprioceptive Function After Anterior Cruciate Ligament Augmentation: Comparison With Single- And Double-Bundle

Konsei Shino

(19) Tunnel Location And Clinical Outcomes After The Anatomic Triple Bundle ACL Reconstruction With Hamstring Tendon Graft

Robert Smigielski

(20) Ribbon ACL Reconstruction Using Quad Tendon – The Preliminary Findings Of A Two-Year Follow-Up Including CT And MRI Scans

Daniel Guenther (Guest of Volker Musahl) (21) Remnant Preserving Is Crucial To Improving Patient Outcomes After ACL Reconstruction

16:40 - 17:05 DISCUSSION

17:05 - 17:20 BREAK

MODERATORS - Andy Williams | Yuichi Hoshino **ACL INSTABILITY**

Lukas Willinger (Guest of Andrew Amis) 17:20 - 17:27 (22) Attachment Points And Length Change Patterns Of The Medial Knee Structures

17:28 - 17:35 Guido Wierer (Guest of Karl Peter Benedetto) (23) Anteromedial Instability Of The Knee

Christoph Kittl (Guest of Christian Hoser) (24) Anteromedial Rotatory Instability Of The Knee: Biomechanics And Related Reconstructions

17:44 - 17:51 **Moises Cohen**

(25) The Presence Of The Arthroscopic "Floating Meniscus" Sign As An Indicator For Surgical Intervention In Patients With Combined Anterior Cruciate Ligament And Grade II Medial Collateral Ligament Injury

Kanto Nagai (Guest of Ryosuke Kuroda) 17:52 - 17:59 (26) In Vivo ACL Bundle Elongation Shows Complex Change During Walking And Running: Analysis Using Biplane Radiography System

Julian Feller

(27) Is The Kira Device Useful In Quantifying The Pivot Shift

18:08 - 18:15

(28) The Coalition Of Tibial Tunnels In Anatomic Double Bundle ACL Reconstruction, Does It Matter? Investigation Using An Electromagnetic Pivot-Shift Measurement.

18:16 - 18:41 DISCUSSION

ADJOURN

TUESDAY, JANUARY 28

06:00 - 06:30 **BREAKFAST**

MODERATOR - Constance Chu

ACL IMAGING

06:30 - 06:37 Daisuke Araki

(29) Different Cutting Planes For Evaluating Bone Tunnels Affect Accurate Tunnel Position Description In Anterior Cruciate Ligament Reconstruction

06:38 - 06:45 Matteo Denti

(30) Anterior Cruciate Ligament Inclination Angles On The Coronal And Sagittal Planes After Reconstructions By Different Techniques

David Flanigan

(31) Correlation Of PET MR Imaging In ACL Surgery With Tunnel Widening

06:54 - 07:01 Jacques Menetrey

(32) Isolated Anterior Cruciate Ligament Injury Could Be Much Less Common Than Conventional Wisdom

07:02 - 07:17 DISCUSSION

MODERATORS - Romain Seil | Stefano Zaffagnini **ACL PEDIATRIC**

07:17 - 07:24 Diego Astur (Guest of Moises Cohen) (33) Anterior Cruciate Ligament Re-Rupture In Pediatric Population Is Related To Lower Functional Scores At Return To Activity: A Prospective, Mid-Term Follow-Up Study

Mary Lloyd Ireland

(34) Secondary Injuries More Prevalent For Females Following Pediatric ACL Reconstruction: A Systematic Review

Walter Lowe

(35) Anterior Cruciate Ligament Reconstruction With Quadriceps Tendon Autograft In Skeletally Immature Adolescents

07:41 - 07:56 DISCUSSION

MODERATORS - Karl Ericksson | Mary Lloyd Ireland **ACL TIMING**

07:56 - 08:03 **Bjorn Barenius** (36) Early Results Of Treating ACL Ruptures With A Dynamic Brace

08:04 - 08:12 Christopher Kaeding

(37) Using A Risk Calculator In ACL Reconstruction Decision Making

08:13 - 08:20 Eiii Kondo

(38) Impact Of The Surgical Timing On The Clinical Outcome In Anatomic Double-Bundle Anterior Cruciate Ligament Reconstruction Using Hamstring Tendon Autografts

08:21 - 08:36 DISCUSSION

08:36 - 08:51 BREAK

MODERATORS - Bertrand sonnery-Cottet | Alan Getgood **ACL ANTEROLATERAL**

Camlio Helito (Guest of Christopher Kaeding) 08:51 - 08:56 (39) Combined Reconstruction Of The Anterolateral Ligament In Patients With ACL Injury And Ligamentous Hyperlaxity Leads To Better Clinical Stability And A Lower Failure Rate Than Isolated ACL Reconstruction

08:57 - 09:02 Joao Novaretti (Guest of John Bergfeld) (40) Does Lateral Extra-Articular Tenodesis Of The Knee Affect ACL

Graft In-Situ Forces And Tibiofemoral Contact Pressures?

Brian Devitt (41) Radiological Identification Of Injury To The Kaplan Fibers Of The Iliotibial Band

(42) Predictors Of Poor Outcome Following ACL Reconstruction With Or

Without Lateral Extra-Articular Tenodesis: The STABILITY Experience 09:15 - 09:20

Danyal Nawabi (43) The Effect Of Lateral Extra-Articular Tenodesis (LET) On Anterior Cruciate Ligament Graft Forces And Knee Kinematics ACL Graft

09:21 - 09:26 Hideyuki Koga (44) Contribution Of Additional Anterolateral Structure Augmentation To Controlling Pivot Shift In Anterior Cruciate Ligament Reconstruction

Based On Objective Evaluation Of Pivot Shift Phenomenon Using Triaxial Accelerometer

09-27 - 09-32 Volker Musahl (45) Clinical Biomechanics Of ACL Reconstruction With And Without Tenodesis

09:33 - 09:38 Carl Imhauser (46) Engagement Of Lateral Extra-Articular Tenodesis (LET) And An

09:39 - 09:44 **Andrew Pearle** (47) Impact Of Lateral Extraarticular Tenodesis (LET) On Tibiofemoral

Contact Mechanics 09:45 - 09:50 Nicolas Bouguenec (Guest of Philippe Colombet) (48) Combined Reconstruction Of ACL And ALL With Hamstrings

According To A Current Technique: What Is The Rate Of Osteoarthritis At 15 Years Of Mean Follow-Up Brett Fritsch (Guest of David Parker) 09:51 - 09:56 (49) A Kinematic And Contact Pressure Analysis Of Commonly Used

Anterolateral Procedures In Combination With Anterior Cruciate Ligament Reconstruction

09:57 - 10:17 DISCUSSION

ADJOURN

15:30 - 16:00 SNACK

16:00 - 17:00 FIRST BUSINESS MEETING

MODERATORS - Christian Fink | Martin Lind ACL QUADRICEPS TENDON

17:00 - 17:07 Marc Strauss (Guest of Christian Fink) (50) Qualitative And Quantitative Anatomy Of The Human Quadriceps Tendon

17:08 - 17:15 **Christian Fink**

(51) Revision Rates Following ACL Reconstruction With Quadriceps Tendon Vs. Hamstring Grafts - Influence Of Age, Sex And Sports

17:16 - 17:23 **Christian Hoser**

(52) Comparison Of Hamstring And Quadriceps Tendon Autografts In ACL Reconstruction: A Prospective "Patient-Reported-Outcome-Measurement" (PROM) Study On 551 Patients

17:24 - 17:31 **Martin Lind**

(53) Increased Revisions Of Quadriceps Tendon Autografts Compared To Other Autografts Used For Anterior Cruciate Ligament Reconstruction. Results From The Danish Knee Ligament Registry.

17:32 - 17:39

(54) Comparison Of Bone-Patella Tendon-Bone (BTB) And Quadriceps Autograft For ACL Reconstruction In Patients Under 18 Years Of Age

17:40 - 17:47 Etienne Cavaignac (Guest of Jacques Menetrey) (55) Cutaneous And Neurological Complications Of Anterior Cruciate Ligament (ACL) Reconstruction With Quadriceps Tendon (QT), Bone Patellar-Tendon Bone (BPTB) Or Hamstring Tendon (HT)

17:48 - 17:55 Theresa Diermeier (Guest of Volker Musahl)
(56) No Difference In Restoration Of Knee Kinematics Between
Bone-Patella Tendon Bone Graft And All-Soft Tissue Partial Thickness
Quadriceps Graft For Anatomical Single Bundle ACL Reconstruction

17:56 - 18:11 DISCUSSION

18:11 - 18:26 BREAK

MODERATORS - Gregory Maletis | Amelie Stoehr ACL COMPLICATIONS

18:26 - 18:33 Thomas Branch

(57) Efficacy Of Non-Operative Treatment Of Knee Arthrofibrosis Using High-Intensity Home Mechanical Therapy: Results From 11.000+ Patients.

18:34 - 18:41 Gregory Maletis
(58) Screw And Sheath Tibial Fixation And 90 Day Deep Infection

(58) Screw And Sheath Tibial Fixation And 90-Day Deep Infection Following Hamstring Graft ACLR

18:42 - 18:49 Hermann Mayr

(59) Immunohistochemical Examination In Arthrofibrosis Of The Knee Joint

18:50 - 18:57 Anders Stalman

(60) Septic Arthritis After Anterior Cruciate Ligament Injury, Incidence, Risk Factors And Outcome

18:58 - 19:05 Yusuke Nakagawa (Guest of Hideyuki Koga) (61) Infra-Patellar Fat Pad Fibrosis Is Associated With Elevation Of Inflammatory Cytokines Level In The Synovial Fluid And Delays Functional Recovery In ACL-Reconstructed Patients

19:06 - 19:21 DISCUSSION

19:21 - 19:51 FEAGIN LECTURE

"History of the Kitzbuhel Ski Race - 80 Years" and presented by **Dr. Michael Huber**

WEDNESDAY, JANUARY 29

06:00 - 06:30 BREAKFAST

MODERATORS - Timothy Spalding | Thomas Patt
ACL PREVENTION

06:30 - 06:37 Peter Angele

(62) Injury Prevention Concept To Reduce Severe Knee Injuries In Elite Football Clubs – An Interventional Multifaceted Study Project

06:38 - 06:45 Joseph Janosky (Guest of Thomas Patt)
(63) Effects Of Neuromuscular Training On Biomechanical Efficiency
In High School Athletes

06:46 - 06:53 Jose Huylebroek

(64) Prevention Before And After Injury- The ACL Paradigma What Did We Learn Until Now

07:02 - 07:09 Christopher Vertullo

(66) Barriers To Funding And Implementation Of A National Youth Sports Injury Prevention Program

 $\textbf{07:10 - 07:17} \qquad \textbf{(67)} \; \text{G.U.A.R.D.I.A.N.S} \; \text{of the ACL} \qquad \textbf{Thomas Patt}$

07:18 - 07:38 **DISCUSSION**

MODERATORS - Christian Hoser | Christophe Vertullo ACL AND RETURN TO PLAY

07:38 - 07:45 Eivind Inderhaug

(68) Return To Play And Long-Term Participation In Pivoting Sports After Anterior Cruciate Ligament Reconstruction

07:46 - 07:53 Bertrand Sonnery-Cottet
(69) Factors Affecting The Knee-Santy Return To Sports Test Score

(K-STARTS) After ACL Reconstruction: A Retrospective Analysis Of 676 Patients

07:54 - 08:01 Stefano Zaffagnini

(70) Biomechanical Assessment For The Return To Sport After ACL Injury: Wearable Inertial Sensors Vs Marker-Based Motion Capture

08:02 - 08:09 Martyn Snow (Guest of Tim Spalding) (71) Can The ACL-Hamstring Reflex Be Used As An Objective Measure Of Proprioception And Thus A Method Of Assessing Appropriate Return To Play

08:10 - 08:30 **DISCUSSION**

08:30 - 08:50 John Bergfeld

REMEMBERING JOHN FEAGIN:

OUR FOUNDER, INNOVATOR AND TEACHER-FRIEND

08:50 - 09:05 BREAK

MODERATORS - Christopher Kaeding | Elvire Servien ACL AND OSTEOARTHRITIS

09:05 - 09:12 Constance Chu

(72) Pre-Osteoarthritis Is Seen In Nearly Half Of Patients Just One (90) Primary A Year After ACL Reconstruction

09:13 - 09:20 Cale Jacobs

(73) An "Inflamma-Type" Patient Subset Had A Dysregulated Inflammatory Response Related To Early Cartilage Degradation After Acute Anterior Cruciate Ligament Injury

- 09:28 Hayden Morris

(74) Worsening Knee Osteoarthritis Features On MRI - 2=1 To 5 Years After ACLR

09:29 - 09:36 Kevin Plancher

(75) Development Of OA Following ACL Reconstruction: The Influence Of Meniscus Pathology

09:37 - 09:44 Kevin Stone (76) Short-Term Changes In Osteoarthritic Knee Synovial Fluid

Biochemistry Following Intra-Articular Injection Of Amniotic Fluid

09:45 - 09:55

Caroline Mouton

(77) ACLSG Traveling Scientist: Anterior Knee Laxity Profiles After ACL Injury

09:56 - 10:16 DISCUSSION

ADJOURN

AFTERNOON OFF

14:30 **SKI RACE**

18:30 BBQ - RED BULL RESTAURANT

THURSDAY, JANUARY 30

06:00 - 06:30 BREAKFAST

MODERATORS - Mark Clatworthy | Moises Cohen ACL GRAFT CHOICE

06:30 - 06:37 Charles Brown

(78) 3–And 4-Strand Hamstring Tendon Autografts Produce Graft
Diameters Less Than 8 Mm In Male Patients Undergoing ACL
Reconstruction In The Middle East

06:38 - 06:45 Thomas Carter

(79) ACL Reconstruction With Tibialis Tendon Allograft: Does The Donor Age Make A Difference?

06:46 - 06:53 Mark Clatworthy

(80) Does A Thicker Hamstring Or Patella Tendon Graft Reduce The Failure Rate In Anterior Cruciate Ligament Reconstruction In Young Patients?

06:54 - 07:01 Arne Ekeland

(81) Similar Risk Of ACL Graft Revision For Alpine Skiers, Football And Handball Players - The Graft Revision Rate Is Influenced By Age And Graft Choice

07:02 - 07:09 Tatsuo Mae (82) SPEEDTRAP® Suture Slippage Onto Graft In ACL Reconstruction

With Hamstring Tendon Graft

07:10 - 07:17

David A. Parker

(83) Graft Size And Orientation Within The Femoral Notch Affects

Graft Healing At One-Year After ACLR

07:18 - 07:25 Elvire Servien

(84) Is There A Gender Difference For Hamstring Muscle In A Sportive Population?

07:26 - 07:41 K. Don Shelbourne

(85) Results Of Anterior Cruciate Ligament Reconstruction With Contralateral Patellar Tendon Autograft

07:42 - 07:49 Patrick Smith

(86) All-Inside Quadrupled Semitendinosis Vs Bone-Patellar Tendon-Bone ACL Reconstruction In Athletes 24 Years Or Younger: A Randomized Controlled Trial

07:50 - 07:57 Simon Young

(87) Lower Revision Rates With Bone-Patellar Tendon-Bone Versus Hamstring Tendon Autografts In 7,155 Anterior Cruciate Ligament (ACL) Reconstructions: Results From The New Zealand ACL Registry

07:58 - 08:28 DISCUSSION

08:28 - 08:43 BREAK

MODERATORS - Martha Murray | Michael Hirschmann ACL REPAIR

08:43 - 08:50 Jon Olav Drogset

(88) Autologous BPTB ACL Reconstruction Results In Lower Failure Rates Compared To ACL Repair With And Without Synthetic Augmentation At 30 Years Follow-Up: A Prospective Randomized Study 08:51 - 08:58 Joao Espregueira-Mendes

(89) Bone Morphology: Is This Important In Instability?

08:59 - 09:06 Michael Hirschmann

(90) Primary ACL Repair – Where Are We?

09:07 - 09:14 Martha Murray

(91) Bridge-Enhanced ACL Repair:

Early Results From A Randomized Clinical Trial

(92) Tibial Stump Retention in ACLR With Respect to Re-operation

Tim Whitehead

and Graft Rupture Rates

09:23 - 09:33 2018-2020 Traveling Scientist Report **Jo Stephen**

09:34 - 09:54 ACLSG Survey Seth Sherman

09:54 - 10:09 DISCUSSION

10:09 - 11:09 SECOND BUSINESS MEETING

ADJOURN

15:30 - 16:00 SNACK

MODERATORS: Timothy Whitehead | Andreas Imhoff
ACL REVISION

16:00 - 16:07 Andreas Imhoff

(93) Three-Dimensional Realignment And Slope Reducing Osteotomy With Anatomic ACL Reconstruction In Patients With Revision Anterior Cruciate Ligament Deficiency

16:08 - 16:15 Andrew Williams

(94) Two-Stage Revision Anterior Cruciate Ligament Reconstruction Is Rarely Required: Experience With 92 Cases (41 Elite Athletes), Using An Algorithm For Decision-Making.

16:16 - 16:23 Peter Verdonk

(95) Higher Risk of ACL Reconstruction Graft Failure in a Population of Smokers

16:24 - 16:31 Wolf Christian Pratt (Guest of Amelie Stoehr)
(96) Cancellous Allogenic And Autologous Bone Grafting Ensure
Comparable Tunnel Filling Results In Two-Staged Revision ACL Surgery

16:32 - 16:47 DISCUSSION

16:47 - 17:02 BREAK

MODERATOR - Robert Magnussen ACL OUTCOME

17:02 - 17:09 Maksym Golovakha (Guest of Karl Peter Benedetto)
(97) Long Terms Results Of ACL-Reconstruction By Technology
«All Inside»

17:10 - 17:17 Peter Annear

(98) 7-10 Year Comparison Of Clinical And MRI-Based Outcomes After Double Bundle Hamstrings Or Hamstrings/LARS Hybrid Anterior Cruciate Ligament Reconstruction

17:18 - 17:25 Philippe Colombet

(99) Healing Of Hamstring Graft Within The Tibial Tunnel And In The Notch Following ACL Reconstruction: Clinical And MRI Evaluation Of Suspensory Fixation Versus Interference Screws 4.5 Years Follow-Up

17:26 - 17:33 Robert Magnussen
(100) Moderately Increased Post-Operative Anterior Knee Laxity

(100) Moderately Increased Post-Operative Anterior Knee Laxity
Does Not Predict Decreases In Patient-Reported Outcome Scores
Or Subsequent Knee Surgery Between 2 And 6 Years After ACL
Reconstruction

17:34 - 17:41 Wojciech Widuchowski (101) Long-Term Results Of Arthroscopic Meniscectomy: A Minimum

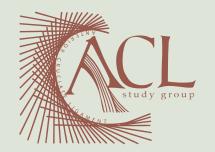
17:42 - 18:02 DISCUSSION

20 Years Of Follow-Up

ADJOURN

19:00 MEET AT GONDOLA FOR HOCHKITZBUHEL RESTAURANT

GALA DINNER



ACL STUDY GROUP EXECUTIVE BOARD

2018 - 2020

CHRISTOPHER KAEDING - PRESIDENT - NORTH/SOUTH AMERICA

TIM SPALDING - VICE PRESIDENT - EUROPE

RYOSUKE KURODA – VICE PRESIDENT – AUSTRAL-ASIA

MOISES COHEN - MEMBER-AT-LARGE

DAVID PARKER - MEMBER-AT-LARGE

MARK CLATWORTHY - PAST PRESIDENT

JOHN BERGFELD - EXECUTIVE DIRECTOR

JOHN FEAGIN - FOUNDER (DECEASED)

ACL STUDY GROUP COMMITTEES

Magnus Forssblad – Chair, Membership

Robert Magnussen - Chair, Scientific

Volker Musahl - Chair, Program

The ACL Study Group

Acknowledges and Appreciates the Support from the Following Companies:







SmithNephew