



2023 BIENNIAL MEETING

THE CARIBBEAN ISLAND OF
ST. KITTS

SUNDAY, JANUARY 29 - THURSDAY, FEBRUARY 2



SUNDAY, JANUARY 29

18:00 - 21:00 Welcome Reception/Registration
MARRIOTT ST. KITTS (North Pool)

MONDAY, JANUARY 30

6:30 - 7:00 BREAKFAST

7:00 - 7:15 MODERATORS: TIM SPALDING | ALAN GETGOOD
WELCOME REMARKS AND PROGRAM OVERVIEW

MODERATOR: TIM SPALDING
I - EPIDEMIOLOGY

7:15 **Diego Astur**
(1) The Incidence of Anterior Cruciate Ligament Injury in Youth and Male Soccer Athletes: An Evaluation of 17,108 Players Over Two Consecutive Seasons with an Age Based Sub-Analysis

7:22 **David McAllister**
(2) Epidemiology and Incidence of ACL Injuries in Division I Collegiate Athletes

7:29 **Lutul Farrow** (Guest of John Bergfeld)
(3) Evaluation of Racial Disparity in Patients with Anterior Cruciate Ligament Injuries: Does Race and Insurance Matter?

7:36 **Maria Tuca** (Guest of Karl Eriksson)
(4) Current Trends in ACL Surgery: A Worldwide Benchmark Study

7:43 **Seth Sherman**
(5) ACLSG Survey Results

7:50 DISCUSSION

8:15 - 9:00 MODERATORS: JASON KOH | DAVID PARKER
MINI SYMPOSIUM - International Registries

9:00 - 9:30 BREAK

MODERATOR: ALAN GETGOOD
II - GRAFT CHOICE

9:30 **Gregory Maletis**
(6) Risk of Revision and Re-operation after ACL Reconstruction. Comparison of Quadriceps Tendon, BPTB, and Hamstring Autografts in a US-based Cohort Study of 19,960 Patients

9:37 **Walter Lowe**
(7) Quadriceps Tendon Autograft Exhibits Similar Outcomes at Two-Years When Compared to Patellar Tendon Autograft for Primary ACL Reconstruction

9:44 **Danyal Nawabi**
(8) Clinical Outcomes and Return to Sport After Quadriceps Tendon Autograft ACL Reconstruction: Comparison to Bone-Patellar Tendon-Bone Autograft at a Minimum 2-year Follow-up

9:51 **Ross Radic** (Guest of David Parker)
(9) A Randomized Controlled Trial Comparing Hamstring Tendon Versus Quadriceps Tendon Autograft in Anterior Cruciate Ligament Reconstruction: 2-year Clinical Results

9:58 **Armin Runer** (Guest of Christian Fink)
(10) Quadriceps Tendon Autograft for Primary Anterior Cruciate Ligament Reconstruction Show Comparable Clinical, Functional, and Patient Reported Outcome Measurements, but Lower Donor Site Morbidity Compared with Hamstring Tendon Autograft

10:05 **John Xerogeanes** (Guest of Greg Myer)
(11) Return to Sport and Reinjury Rates in Young Athletes Undergoing Primary Quadriceps Tendon Autograft ACL Reconstruction: Systematic EMR Query with Cross-Referenced Validation Survey

10:12 **Jonathan Hughes** (Guest of Daniel Guenther)
(12) Factors Influencing Quadriceps Strength Following Quadriceps Tendon Autograft ACL Reconstruction

10:19 **Mark Strauss**
(13) Full Thickness Quadriceps Tendon Grafts with Bone Had Similar Material Properties to Bone:Patellar Tendon:Bone and a Four:Strand Semitendinosus Grafts: A Biomechanical Study

10:26 DISCUSSION

MODERATOR: DEAN TAYLOR
III - ACL REINJURY RISK ASSESSMENT I

11:00 **Brian Devitt**
(14) Joint Laxity is a Risk Factor for Graft Failure in Male Patients Following Isolated Primary Anterior Cruciate Ligament Reconstruction

11:07 **Camilo Helito**
(15) The Cut-off Point to Discriminate a Higher Chance of Re-tear is 6.5 Degrees of Hyperextension in Isolated Anterior Cruciate Ligament Reconstruction with Hamstring Autograft

11:14 **Bertrand Sonnerly-Cottet**
(16) Risk Factors for Anterior Cruciate Ligament Graft Failure in Elite Athletes: An Analysis of 342 Professional Athletes with a Mean Follow-up of 100 Months from the SANTI Study Group

11:21 **Kyle Borque** (Guest of Tim Spalding)
(17) Primary ACL Reconstruction in Professional Soccer Players: Factors Affecting Return to Play and Graft Re-rupture

11:28 **Volker Musahl**
(18) Non-Anatomic Tunnel Position Increases the Risk of Revision ACL Reconstruction

11:35 **Morgan Jones** (Guest of Kurt Spindler)
(19) Does Hamstring Autograft Diameter Predict Failure after ACL Reconstruction?

11:42 **Andrew Pearle**
(20) Tibiofemoral Geometry is Related to ACL Force with Valgus Loading in Young, Female Athletes

11:49 DISCUSSION

12:30 - 13:00 LUNCH

MODERATOR: CHARLES BROWN
IV - ACL REINJURY RISK ASSESSMENT II

13:00 **Willem van der Merwe**
(21) Robotic Examination of ACL Injured and ACL Reconstructed Knee

13:07 **Christian Fink**
(22) Developing a Technique for the Imaging-Based Measurement of ACL Elongation: A Proof of Principle

13:14 **Braden Fleming**
(23) Quantitative MRI Biomarkers to Predict Risk of Reinjury Within 2 Years After ACL Surgery

13:21 **David Parker**
(24) MRI 1 Year After ACL Reconstruction can Identify Patients at Higher Risk of Graft Failure

13:28 DISCUSSION

MODERATORS: KURT SPINDLER | ALAN GETGOOD
MINI SYMPOSIUM

13:50 - 14:35 Defining ACL Failure

TUESDAY, JANUARY 31

6:30 - 7:00 BREAKFAST

MODERATOR: SETH SHERMAN
V - OUTCOMES I

7:00 **James Robinson**
(25) Rehabilitation Versus Surgical Reconstruction for Non-acute Anterior Cruciate Ligament Injury (ACL SNNAP): A Pragmatic Randomised Controlled Trial

7:07 **Joao Novaretti**
(26) Anterior Cruciate Ligament Reconstruction with Internal Brace Augmentation Has Less Re-Rupture Compared with ACL Reconstruction without Augmentation

7:14 **Patrick Smith**
(27) Reduced Revision Rate for Anterior Cruciate Ligament Reconstruction with Internal Brace Augmentation: A Retrospective Comparative Study with a Minimum 2-year Follow-up

7:21 **Edoardo Monaco** (Guest of Etienne Cavaignac)
(28) Repair of the ACL and Anterolateral Structures Versus ACL Reconstruction and Lateral Extra-Articular Tenodesis: A Prospective Comparative Study of Clinical and Radiological Outcomes Following Surgical Management of Acute ACL-Injured Knees

7:28 **Moises Cohen**
(29) Remnant Muscle Preservation on Hamstring Tendon Autograft During ACL Reconstruction Promotes Volumetric Increase With Biological and Regenerative Potential

7:35 **Brian Forsythe** (Guest of Sebastian Kopf)
(30) Effect of Bone Marrow Aspirate Concentrate Augmentation on Allograft Volume, Ligamentization, and Concurrent Injury in Anterior Cruciate Ligament Reconstruction: A Double-Blinded Randomized Controlled Trial

7:42 DISCUSSION

MODERATOR: WILHELM VAN DE MERWE

8:15 - 9:00 MINI SYMPOSIUM ACL REPAIR

TEAM "FOR"

Patrick Smith, Bertrand Sonnerly-Cottet, Etienne Cavaignac, Moises Cohen

TEAM "AGAINST"

Andy Williams, David Parker, Mark Clatworthy, Alan Getgood

MODERATOR: GREG MYER
VI - REHAB/RTT

9:00 **Mary Lloyd Ireland**
(31) Optimal Joint Loading Strategies to Lessen Cartilage Changes after ACL Reconstruction Differ Throughout the Postoperative Recovery

9:07 **Bertrand Sonnerly-Cottet**
(32) Incidence of Arthrogenic Muscle Inhibition Following Acute ACL Injuries: A Cross Sectional Study and Analysis of Associated Factors From the SANTI Study Group

9:14 **Harukazu Tohyama**
(33) Time Profile of Knee Flexion Excursion During Landing in Patients Following ACL Reconstruction Surgery: The Influence of Quadriceps Strength Deficit

9:21 **Elvind Inderhaug**
(34) Return to Play and Long-term Participation in Pivoting Sports After Anterior Cruciate Ligament Reconstruction

9:28 **David Figueroa** (Guest of Mark Clatworthy)
(35) Consensus in Return to Sport Soccer After ACLR

9:35 DISCUSSION

10:00 - 10:30 BREAK

MODERATOR: JAMES ROBINSON
VII - ACL MISC I

10:30 **Vladimir Bobic**
(36) Mucoïd ACL Degeneration, ACL Ganglions and Subchondral Cysts

10:37 **Mark Safran**
(37) Is There Really An Association Between Anterior Cruciate Ligament Reconstruction and Femoroacetabular Impingement Surgery?

10:44 **David Flanigan**
(38) Influence of Staphylococcus epidermidis Biofilm on the Mechanical Strength of ACL Allograft

10:51 **Christophe Hulet**
(39) Determining of Patient Acceptable Symptom State (PASS) and Evaluation of Work and Sports Impact after Multi-ligament Knee Reconstruction

10:58 **Sebastian Kopf**
(40) Influence of a Backup Fixation in Addition to Screw Fixation on Tibial ACL Stability

11:05 **Richard van Arkel**
(41) Reconstructed in the Young yet Resected in the Elderly: Should More be Done to Restore ACL Function for Knee Arthroplasty Patients?

11:12 DISCUSSION

MODERATOR: TIM SPALDING

11:45 - 12:15 THE FEAGIN LECTURE
Mr. Kim Collins (St. Kitts/Nevis Olympian)
The Vision of St. Kitts/Nevis from My Olympic Perspective

12:15 - 13:15 LUNCH

13:15 - 14:15 FIRST BUSINESS MEETING

MODERATOR: DAVID McALLISTER
VIII - OUTCOMES II - OA

14:15 **Jon Drogset**
(42) ACL Reconstruction Patients Have Increased Risk of Knee Arthroplasty at 15 Years of Follow-up. Data from the Norwegian Knee Ligament Register and the Norwegian Arthroplasty Register from 2004 to 2020

14:22 **Kevin Plancher**
(43) Predictors of Joint Space at a Minimum 10 Years Following Single-Bundle Bone-Patellar Tendon-Bone ACL Reconstruction Using A Transtibial Technique

14:29 **Elvire Servien**
(44) Delaying ACL Reconstruction Increases the Rate and Severity of Medial Compartment Chondral Injury

14:36 **Hayden Morris**
(45) Should Return to Pivoting Sport be Avoided for the Secondary Prevention of OA after ACL Reconstruction?

14:43 **Martyn Snow**
(46) Outcomes of Isolated HTO and Simultaneous HTO and ACL Reconstruction: A Systematic Review & Meta-Analysis

14:50 **Eiji Kondo**
(47) The Alteration of the Stress Distribution Patterns of the Subchondral Bone Density Across the Proximal Tibia After Anterior Cruciate Ligament Injury Over Time

14:57 **Cale Jacobs**
(48) Machine Learning Approach to Identify Risk Factors for Post-traumatic Osteoarthritis After Multi-ligament Knee Reconstruction

15:04 **Christian Lattermann** (Guest of Cale Jacobs)
(49) Resolution of Chronic Inflammation May be a Key to Preventing Post ACL PTOA

15:11 DISCUSSION

WEDNESDAY, FEBRUARY 1

6:30 -7:00 BREAKFAST

**MODERATOR: PETER VERDONK
IX - MENISCUS AND CARTILAGE**

7:00 **Mark Clatworthy**
(50) Risk Factors for Meniscal Repair Failure Following Concurrent Primary ACL Reconstruction: Results from the New Zealand ACL Registry

7:07 **Moises Cohen**
(51) When to Indicate Arthroscopic Centralization Surgery in Medial Meniscal Extrusion – Biomechanical and Clinical Evidences

7:14 **Hideyuki Koga**
(52) Patients in Which Lateral Meniscus Repair Contributes to Controlling Pivot Shift Show Low Body Mass Index and Particular Bony Morphologies

7:21 **Kevin Stone**
(53) Meniscus Transplants in Patients Over 50 Years of Age

7:28 **Gail Thornton**
(54) Vitrification for Preservation of Meniscal Allograft Tissue: Mechanical Properties of Fresh, Frozen and Vitrified Porcine Lateral Meniscus

7:35 **Carol Mouton**
(55) Grade III Pivot Shift as an Early Sign of Knee Decomensation in Chronic ACL-injured Knees With Bimeniscal Tears

7:42 **Alberto Grassi** (Guest of Stefano Zaffagnini)
(56) In-Vivo Active Knee Kinematics After Anterior Cruciate Ligament Reconstruction is Altered in the Case of Medial Meniscus Injury

7:49 **Robert Smigielski**
(57) Medial Meniscus Anatomy Rediscovered

7:56 DISCUSSION

**MODERATOR: ANDREW PEARLE
X - OUTCOMES III**

8:30 **Anders Stalman**
(58) Bilateral ACL Surgery - A Comprehensive Study on Risk Factors, Functional and Subjective Outcome

8:37 **Peter Verdonk**
(59) Quadrupled Semitendinosus Autograft ACL Reconstruction Using A Novel Tibial And Femoral Suspension Device: Magnetic Resonance Imaging Findings At A Median Of 6 Months Postoperatively

8:44 **Kurt Spindler**
(60) Morphology Of Regenerated Hamstring Tendons 10 Years After Harvest For Anterior Cruciate Ligament Reconstruction: An MRI Based Preliminary Analysis

8:51 **Shuji Taketomi** (Guest of Hideyuki Koga)
(61) The Effects of Initial Graft Tension on Femorotibial Relationship and Tunnel Widening Following Anatomical Anterior Cruciate Ligament Reconstruction Using a Bone-Patellar Tendon-Bone Graft

8:58 **Tim Spalding**
(62) Reliable Positioning of Femoral Tunnel Using New Femoral Guide

9:05 **Dean Taylor**
(63) New Instrumentation for Soft Tissue ACL Reconstruction ACL Injury

9:12 **Andy Williams**
(64) Longevity after Primary and Revision ACL Reconstruction in Professional / Elite Athlete

9:19 DISCUSSION

9:50 - 10:20 BREAK

**MODERATOR: CHRISTIAN FINK
XI - PREVENTION**

10:20 **Magnus Forssblad**
(65) To Identify Football-specific Factors Associated with ACL Injuries that can be Targeted for Sport-specific Injury Prevention

10:27 **Greg Myer**
(66) Real-time Sensorimotor Biofeedback Targeted to Correct Movement Errors and Reduce ACL Injury Risk

10:34 **Bert Mandelbaum** (Guest of Tim Spalding)
(67) The 11+ Injury Prevention Program Decreases ACL and Injury Rate and Improves Performance in Male Soccer Players

10:41 **Louis DeFrate**
(68) The Role of Dynamic Valgus Collapse in Non-contact Anterior Cruciate Ligament Injury: Insight From Tibiofemoral Range of Motion Analysis

10:48 **Carl Imhauser**
(69) Impact of Ligament Properties on ACL Force in Athletes at Increased Risk of Noncontact ACL Injury

10:55 DISCUSSION

**MODERATORS: TIM SPALDING | GREG MYER
MINI SYMPOSIUM**

11:15 - 12:00 Guardians of the ACL

FREE AFTERNOON

18:00 **BBQ Beach Party - St. Kitts Marriott - Royal Beach**

THURSDAY, FEBRUARY 2

6:30 -7:00 BREAKFAST

**MODERATOR: BERTRAND SONNERY-COTTET
XII - REVISION ACLR**

7:00 **Patrick Djian**
(70) Revision ACL Reconstruction with Quadriceps Tendon and Lateral Extra-articular Tenodesis Provides Mid - to Long-term Anterior and Rotatory Laxity Control, Combined with a High Rate of Sports Participation, 10 Years after Surgery

7:07 **Mirco Herbort**
(71) Does Allogeneic Bone Transplantation in ACL Revision Surgery for Filling up ACL Tunnels Result in Biological and Morphological Worthless Bone Regenerate

7:14 **Timo Jarvela**
(72) Revising a Double-Bundle ACL: 20 Years of Experience

7:21 **Robert Magnusen**
(73) ACL Graft Tear or Contralateral ACL Tear: Which is Worse???

7:28 **W. Christian Prall**
(74) One- or Two-stage Revision ACL Reconstruction – Introduction and Evaluation of a Decision-making Algorithm Based on 3D CT Reconstructions

7:35 **Stefano Zaffagnini**
(75) Double-Bundle Anterior Cruciate Ligament Revision with Achilles Allograft: Long-Term Failure Rate, Reoperations, Patient's Reported Outcomes and Sport Resumption

7:42 DISCUSSION

**MODERATOR: VOLKER MUSAHL
MINI SYMPOSIUM - Osteotomy & ACLR -
A Case-Based Discussion**

8:15 **Walter Lowe**
(76) Outcomes of Anterior Closing Wedge High Tibial Osteotomy in Patients Undergoing Revision ACL Reconstruction

8:22 **Mathieu Ollivier** (Guest of Seth Sherman)
(77) Half of the Patients Undergoing Slope Changing Osteotomy (Associated with a Third ACL Reconstruction) will be able to Return to Impact Sports

8:29 DISCUSSION

**MODERATOR: CHRISTOPHER KAEDING
XIII - ACL MISC II**

9:00 **K. Don Shelbourne**
(78) Objectively Measuring Knee Extension is Critical when Analyzing Long Term Outcomes after an Anterior Cruciate Ligament Reconstruction

9:07 **Philippe Colombet**
(79) Place of Virtual Reality Simulation in the Learning of a Procedure in Arthroscopic Surgery: Partial Meniscectomy

9:14 **Etienne Cavaignac**
(80) Simple Knee Value – A Simple Evaluation Correlated to Existing Knee PROMs

9:21 **Thomas Branch**
(81) The Complicated ACL Patient: A Clinical Pathway Analysis Based on Claims Data

9:28 **Karl Eriksson**
(82) The "Linked Ring Technique" in Preparation of a Semitendinosus Tendon Graft

9:35 DISCUSSION

10:00 - 10:30 BREAK

10:30 - 10:45 VJSM Award Winner

Seth Sherman

**MODERATOR: Andy Williams
XIV - MCL**

10:45 **Andrew Amis**
(83) Reduction of ACL Graft Failure Rate by MCL Surgery – Back to the Future?

10:52 **Elmar Herbst**
(84) Anteromedial Rotatory Knee Instability – Much More than the Medial Collateral Ligament

10:59 **Alan Getgood**
(85) Partial Superficial MCL Combined With Complete Deep MCL Injury Results in Increased Anteromedial Laxity And Increased Forces On The ACL – A Cadaveric Biomechanical Study

11:06 **Daniel Guenther**
(86) Treatment of Combined Injuries to the ACL and the MCL Complex

11:13 **Simon Ball** (Guest of Andy Williams)
(87) Medial Collateral Ligament Reconstructions for Anteromedial Instability of the Knee

11:20 **Christoph Kittl**
(88) The Control of Anteromedial Instability is Improved with Flat MCL Reconstruction an Anteromedial Reconstruction

11:27 **Rhidian Thomas**
(89) Antero-Medial Rotatory Laxity - The Feagin Test

11:34 DISCUSSION

12:00 - 12:30 LUNCH

12:30 - 13:00 2ND BUSINESS MEETING

**MODERATOR: MARK CLATWORTHY
XV - ANTEROLATERAL**

13:00 **Karl Eriksson**
(90) Lateral Extra-articular Procedures in ACL Surgery: Current Trends

13:07 **Yuichi Hoshino**
(91) Lateral Extra-articular Tenodesis Could be Substituted for Meniscus Deficiency in Anterior Cruciate Ligament Reconstructed Knees

13:14 **Kanto Nagai**
(92) Influence of Injury to the Kaplan Fibers of the Iliotibial Band on Anterolateral Rotatory Knee Laxity in Anterior Cruciate Ligament Injury

13:21 **Adnan Saithna** (Guest of Bertrand Sonnery-Cottet)
(93) Clinical Outcomes of Combined ACL and Anterolateral Ligament Reconstruction With Hamstring Tendons Versus Isolated ACL Reconstruction With Bone-Patellar Tendon-Bone Autograft As The Gold Standard: A Matched-Pair Analysis of 2018 Patients

13:28 **Nicolas Bouguennec** (Guest of Philippe Colombet)
(94) Combined ACL and ALL Reconstruction Reduces the Rate of Reoperation for Graft Failure or Secondary Meniscal Lesions in Young Athletes

13:35 DISCUSSION

14:15 - 14:45 **TRIBUTE TO FREDDIE FU AND PETE FOWLER
Volker Musahl/Alan Getgood**

14:45 **CLOSING REMARKS**

18:00 **RECEPTION - St. Kitts Marriott - Grand Plaza**

19:00 **GALA FAREWELL BANQUET**

**ACLSG 2024
Meeting
January 28 – February 1
Hilton Niseko
Village Hotel**



Host: Ryosuke Kuroda

**Save
THE DATE!**



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