

**** PROPOSED PROGRAM ****
PANTHER SYMPOSIUM 2024/
REHABILITATION AND RETURN TO SPORTS
June 6-8, 2024
Pittsburgh PA

THURSDAY, JUNE 6, 2024

		<i>MODERATORS</i>	<i>SPEAKERS</i>
6:00 - 6:45 AM	CONTINENTAL BREAKFAST (The Box Office)		
6:45 - 7:00 AM	Welcome/Introduction	Volker Musahl, James Irrgang, MaCalus Hogan	
	WHAT IS NEW IN ACL	Mark Miller/Kevin Wilk/James Irrgang/Julian Feller	
	<i>Lecture Topic</i>		<i>Speaker</i>
	INDICATIONS	Mark Miller	
7:00 - 7:06 AM	ACL Indications and Decision Making		Willem van der Merwe
7:06 - 7:12 AM	What is the Role for Nonoperative Management?		Jeremy Burnham
7:12 - 7:18 AM	ACL in the Older Athlete (age 40+ years)		Berte Boe
7:18 - 7:30 AM	Discussion/Questions		
7:30 - 7:48 AM	GRAFT CHOICES (debate style)	Mark Miller	
	Quad		Christian Fink
	HT		Rainer Siebold
	BTB		Bob Marx
7:48 - 8:00 AM	Discussion/Questions		
	RETURN TO PLAY - Surgeon Perspective	Kevin Wilk	
8:00 - 8:06 AM	RTP in the soccer athlete: the European approach		Francesco Della Villa
8:06 - 8:12 AM	RTP criteria: the GAA approach		Brian Devitt
8:12 - 8:18 AM	Evolution of RTP and postoperative bracing: US perspective		Mark Miller
8:18 - 8:24 AM	RTP criteria: The Australian approach		Julian Feller
	RETURN TO PLAY - PT Perspective	James Irrgang/Julian Feller	
8:24 - 8:30 AM	Proprioception and neuromuscular control: what have we learned?		Kevin Wilk
8:30 - 8:36 AM	RTP milestones: are we returning athletes too fast?		Laura Schmitt
8:36 - 8:42 AM	Return to Sports - Is there a Consensus?		Clare Ardern
8:42 - 8:48 AM	Rehab based on graft type		Andrew Sprague
8:48 - 9:00 AM	Discussion/Questions		
9:00 - 9:20 AM	BREAK		
	Live Demo:		
	<i>Procedure</i>	<i>Moderator</i>	<i>Surgeon</i>
9:20 - 9:35 AM	ACL RECONSTRUCTION. LET	John Xerogeanes	Bryson Lesniak/AI Getgood
9:35 - 9:45 AM	CARTILAGE RESTORATION	Constance Chu/Jonathan Hughes	Cassandra Lee/Seth Sherman
	SAVE THE MENISCUS	Brian Waterman/Ben Ma	
	<i>Lecture Topic</i>		<i>Speaker</i>
	ACL and Meniscus	Brian Waterman	
9:45 - 9:51 AM	Meniscus injury: imaging and effect on rotatory knee instability		Ryosuke Kuroda
9:51 - 9:57 AM	Diagnosis, surgical approach, and outcomes of meniscus injuries in setting of ACL injury		Darren Johnson
9:57 - 10:03 AM	Meniscal transplantation indications and approach		Seth Sherman
10:03 - 10:15 AM	Discussion/Questions		
	ACL and Cartilage	Ben Ma	
10:15 - 10:21 AM	Cartilage changes after ACLR: basic science and MRI evaluation		Constance Chu
10:21 - 10:27 AM	Acute cartilage injury: when to leave alone vs when and how to address		Brian Waterman
10:27 - 10:33 AM	Outcomes of ACL and cartilage injury		Nobu Adachi
10:33 - 10:39 AM	MRI Imaging		Ben Ma
10:39 - 10:52 AM	Discussion/Questions		
10:52 - 11:10 AM	LIVE DEMO		
	<i>Procedure</i>	<i>Moderator</i>	<i>Surgeon</i>
	MENISCUS TRANSPLANT	Darren Johnson	Stefano Zaffagnini/Stephen Rabuck

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THURSDAY, JUNE 6, 2024 (continued)

		<i>MODERATORS</i>	<i>SPEAKERS</i>
ACL OUTCOMES - IN SEARCH OF A GOLD STANDARD		David Parker/Bob Marx	
	<i>Lecture Topic</i>		<i>Speaker</i>
11:10 - 11:16 AM	Performance-based measures		David Parker
11:16 - 11:22 AM	How do knee biomechanics change after ACLR?		William Anderst
11:22 - 11:28 AM	Update on IKDC		James Irrgang
11:28 - 11:34 AM	Patient reported outcomes		Femi Ayeni
11:34 - 11:40 AM	Single vs double bundle ACLR		Timo Jarvela
11:40 - 11:46 AM	Double bundle ACLR		Rainer Siebold
11:46 - 11:52 AM	MRI evaluation and outcomes		Shiyi Chen
11:52 - 11:58 AM	MOON outcomes		Kurt Spindler
11:58 - 12:20 PM	Discussion/Questions		
12:20 - 1:00 PM	PANEL DISCUSSION: Team physician, ethics, legal	Volker Musahl/MaCalus Hogan	
	Answorth Allen, Robin West, Dharmesh Vyas, Mark Miller, Andy Williams, Chris Kaeding, Mark Clatworthy, Christian Fink		<<-PANEL
ACL INJURY RISK AND PREVENTION		Mario Bizzini/Jon Karlsson/ Joao Espregueira-Mendes/ James Irrgang Mario Bizzini/Yuichi Hoshino	
	Risk Factors and Prevention of ACL Injuries		
1:00 - 1:06 PM	Strategies to prevent ACL injuries in clinic		Mark Paterno
1:06 - 1:12 PM	Strategies to prevent ACL injuries with the team		Mario Bizzini
1:12 - 1:18 PM	Risk Factors: What can we not miss?		Patrick Yung
1:18 - 1:24 PM	Approach to the female athlete		Laurie Hiemstra
1:24 - 1:30 PM	Prevention strategy through apps		Andrew Pearle
1:30 - 1:45 PM	Discussion/Questions		
	Diagnosis	Jon Karlsson/Joao Espregueira-Mendes	
1:45 - 1:51 PM	Clinical Presentation and Exam		John Xerogeanes
1:51 - 1:57 PM	Bony morphology		Richard Debski
1:57 - 2:03 PM	Pivot shift testing: emergence of technology		Yuichi Hoshino
2:03 - 2:09 PM	Advanced Imaging: is there a role for stress MRI?		Joao Espregueira-Mendes
2:09 - 2:20 PM	Discussion/Questions		
2:20 - 2:40 PM	TRIBUTE TO FREDDIE FU	Volker Musahl/James Irrgang/MaCalus Hogan	
2:40 PM - 3:00 PM	BREAK		
3:00 - 3:45 PM	CASE-BASED DISCUSSION: ACL Rehab and RTP	Eric Senorski/Laurie Hiemstra	
	Mario Bizzini, Andrea Sprague, Mark Paterno, Laura Schmitt, Francisco Della Villa, Patrick Yung, Shiyi Chen, Nobu Adachi		<<-PANEL
ACL BIOLOGICS & REPAIR - IS THERE ANY DEBATE?		William van der Merwe	
3:45 - 3:51 PM	Biologics		Andy Sheehan
3:51 - 4:45 PM	<i>Judge: William van der Merwe</i>		
3:51 - 4:10 PM	Repair vs Reconstruction		
	<u>Repair</u> : Chris Kaeding, Kurt Spindler, David Parker, Ryosuke Kuroda, Jeremy Burnham		
	<u>Reconstruction</u> : Andy Pearle, Andy Williams, Armando Vidal, Mike Alaia, Al Getgood, Ben Ma		
4:10 - 4:25 PM	Editor Perspective		Femi Ayeni (JISAKOS) and Jon Karlsson (KSSTA)
4:25 - 4:45 PM	Judge Remarks/Discussion		
4:45 PM	ANNOUNCEMENTS / CLOSING REMARKS FOR THE DAY	Volker Musahl, James Irrgang, MaCalus Hogan	

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FRIDAY, JUNE 7, 2024

		<i>MODERATORS</i>	<i>SPEAKERS</i>
6:00 - 6:45 AM	CONTINENTAL BREAKFAST (The Box Office)		
6:45 - 7:00 AM	Announcements	Volker Musahl, James Irrgang, MaCalus Hogan	
	ACL OUTCOMES IN THE AT-RISK PATIENT: ARE WE MISSING SOMETHING ?	Brian Devitt/Robin West	
7:00 - 7:06 AM	STABILITY I experience		Al Getgood
7:06 - 7:12 AM	Pediatric population		Roman Seil
7:12 - 7:18 AM	Approach to the patient with altered bony morphology (increased posterior tibial slope, malalignment)		Cassandra Lee
7:18 - 7:24 AM	Associated injuries (MCL, meniscus)		Craig Bennett
7:24 - 7:45 AM	Discussion/Questions		
	MEDIAL AND LATERAL KNEE INSTABILITY	Dustin Richter/Mike Alaia	
	Anteromedial Instability and MCL		
7:45 - 7:51 AM	Diagnosis of anteromedial rotatory knee instability;		Fabrizio Margheritini
7:51 - 7:57 AM	ACL and MCL: clinical decision making and when to address		Andy Williams
7:57 - 8:10 AM	Surgical technique to anteromedial repair/reconstruction		
	Discussion/Questions		
	Anterolateral Instability and ALC		
8:10 - 8:16 AM	Diagnosis of anterolateral rotatory knee instability		Stephen Rabuck
8:16 - 8:22 AM	Adding lateroplasty: when and why?		Stefano Zaffagnini
8:22 - 8:28 AM	When to add LET		Al Getgood
8:28 - 8:40 AM	Discussion/Questions		
8:40 - 9:05 AM	LIVE DEMO		
	<i>Procedure</i>	<i>Moderator</i>	<i>Surgeon</i>
	MCL/ANTEROMEDIAL RECONSTRUCTION	Andy Williams	Christian Fink/ Volker Musahl
9:05 - 9:20 AM	BREAK		
	Osteotomy	Anil Ranawat/Jacques Menetrey	
9:20 - 9:26 AM	Anterior closing wedge osteotomy: indications and outcomes		David Dejour
9:26 - 9:32 AM			Roland Becker
9:32 - 9:38 AM	High tibia osteotomy with ACLR: when and how (should we consider in primary setting?)		Armando Vidal
9:38 - 9:44 AM	Planning for osteotomy with concurrent revision ACLR		Anil Ranawat
9:44 - 9:50 AM	Opening vs closing wedge high tibia osteotomy		Jacques Menetrey
9:50 - 10:05 AM	Biplanar proximal tibial osteotomies		
	Discussion/Questions		
10:05 - 10:25 AM	LIVE DEMO		
	<i>Procedure</i>	<i>Moderator</i>	<i>Surgeon</i>
	SLOPE REDUCING OSTEOTOMY	Romain Seil	David Dejour/Volker Musahl
	LET/ALL	Al Getgood/Bryson Lesniak	
10:25 - 10:35 AM	History of ALL/LET		Al Getgood
10:35 - 10:40 AM	Case lateral augment YES/NO		Stefano Zaffagnini/Mark Miller/Berte Boe
10:40 - 10:45 AM	Survey Results/Group Poll		Volker Musahl
	MULTILIGAMENT KNEE AND THE STaR	Andy Williams/Fabrizio Margheritini	
10:45 - 10:51 AM	STaR Trial		James Irrgang
10:51 - 10:57 AM	Evolution of treatment		Christopher Harner
10:57 - 11:03 AM	Decision making on treatment		Bruce Levy
11:03 - 11:09 AM	Intraoperative approach to reconstruction		Mike Alaia
11:09 - 11:15 AM	Lessons learned and update on Schenk classification		Dustin Richter
11:15 - 11:30 AM	Discussion/Questions		
11:30 AM - 12:15 PM	CASE-BASED DISCUSSION:	Stefano Zaffagnini/Bruce Levy	
	Complex Multiligament Knee Injuries, How and When?		
	Mike Alaia, Christopher Harner, Al Getgood, Volker Musahl, Dustin Richter, Fabrizio Margheritini, Andy Williams		<<-PANEL

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FRIDAY, JUNE 7, 2024 (continued)

		<i>MODERATORS</i>	<i>SPEAKERS</i>
12:15 - 1:00 PM	DISCUSSION: Design and Conduct of Multicenter Clinical Trials Al Getgood, Charity Patterson, Alexandra Gil, Kurt Spindler, Andy Sheehan	James Irrgang/Chris Kaeding	<<-PANEL
1:00 - 1:06 PM	ACL Registries The Swedish registry	Kurt Spindler/Mark Clatworthy	Jon Karlsson
1:06 - 1:12 PM	MOON consortium		Chris Kaeding
1:12 - 1:18 PM	New Zealand registry		Mark Clatworthy
1:18 - 1:30 PM	Discussion/Questions		
1:30 - 2:00 PM	CASE-BASED DISCUSSION: Challenging Primary ACL-R Cases Darren Johnson, Seth Sherman, Volker Musahl, Brian Waterman, Rainer Seibold, Timo Jarvela, Bryson Lesniak, Stefano Della Villa	David Parker/Bob Marx	<<-PANEL
2:00 - 2:15 PM	BREAK		
2:15 - 2:21 PM	Revision ACL-R Preoperative planning for revision ACLR	Ryosuke Kuroda/Roland Becker	Jonathan Hughes
2:21 - 2:27 PM	Graft choices for revision ACLR		Lucio Emlund
2:27 - 2:33 PM	Outcomes after revision ACLR		Mario Ferretti
2:33 - 2:39 PM	Return to play after revision ACLR		Yasuyuki Ishibashi
2:39 - 2:45 PM	MARS outcomes		Chris Kaeding
2:45 - 3:00 PM	Discussion/Questions		
3:00 - 3:45 PM	CASE-BASED DISCUSSION: Revision ACL-R and Osteotomy, Still the Last Resort? Anil Ranawat, Roland Becker, Bryson Lesniak, Andrew Pearle, Lucio Emlund, Mario Ferretti, Yasuyuki Ishibashi, Volker Musahl	Armando Vidal/David Dejour	<<-PANEL
3:45 - 4:30 PM	SUMMARY, AWARDS, WRAP UP	Volker Musahl, James Irrgang, MaCalus Hogan	

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SATURDAY, JUNE 8, 2024

6:00 - 6:45 AM **CONTINENTAL BREAKFAST (THE BOX OFFICE)**

REHABILITATION AND RETURN TO SPORTS SESSION

		<i>MODERATORS</i>	<i>SPEAKERS</i>
7:00 AM	Welcome and Introduction	James Irrgang	

EARLY PHASE REHAB

7:05 - 7:20 AM	Rehabilitation Overview		Jake Fine
7:20 - 7:35 AM	Modifications to Rehab for Multiple Ligament Knee Injuries		James Irrgang
7:35 - 7:50 AM	Modifications to rehab with ACL repair, BEAR procedure		Kurt Spindler
7:50 - 8:05 AM	Arthrogenic Inhibition and Strategies to Restore Quadriceps Activation		Andrew Sprague
8:05 - 8:20 AM	Why does the knee get stiff after surgery?		Erica Coffey

8:20 - 8:50 AM	MULTIDISCIPLINARY PANEL DISCUSSION: Pitfalls, Challenges, and Difficult Cases		
	Mario Bizzini, Erica Coffey, Jon Karlsson, Jon Xerogeanes		<<-PANEL

8:50 - 9:10 AM **BREAK**

INTERMEDIATE PHASE REHAB

9:10 - 9:25 AM	Rehabilitation Overview		Rick Joreitz
9:25 - 9:40 AM	Graft Site Healing - Tendon specific loading principles		Andrew Sprague
9:40 - 10:10 AM	Methods of Strength Assessment - Demonstration and lab		Randy Nava(Sports Fellow)
10:10 - 10:25 AM	Recovery of Quad and Hamstring Strength		Mark Paterno
10:25 - 10:40 AM	Blood Flow Restriction Therapy - Science and Practice		Rick Joreitz
10:40 - 10:55 AM	Sensorimotor/Cognitively Challenging Training		Greg Myer
10:55 - 11:10 AM	Return to Running Clearance and Initiation of a Running Progression		Erin Angelini
11:10 - 11:25 AM	Running Gait - Compensations and Strategies to Address them		Eric Hamrin Senorski

11:25 - 11:55 AM	MULTIDISCIPLINARY PANEL DISCUSSION: Pitfalls, Challenges, and Difficult Cases		
	Volker Musahl, Laura Schmitt, Mark Paterno		<<-PANEL

11:55 AM - 12:55 PM **LUNCH (1 hour)**

RETURN TO PARTICIPATION

12:55 - 1:10 PM	Return to Sport Continuum		Clare Arden
1:10 - 1:25 PM	Explosive/Power and Rate of Torque Development Training		Laura Opstedal
1:25 - 1:40 PM	Movement Retraining		Laura Schmitt
1:40 - 1:55 PM	Functional Tests for Return to Play Testing		Aubrey Agüero
1:55 - 2:10 PM	Psychological Component of Return to Sport		Clare Arden
2:10 - 3:10 PM	Sport-Based Return to Play Progression		
			Mario Bizzini - Soccer; Rick Joreitz - Football; Senorski - Basketball/Volleyball; Laura Opstedal - Skiing/Winter Sports

3:10 - 3:20 PM **BREAK**

RETURN TO PERFORMANCE

3:20 - 3:45 PM	Managing and coordinating with additional stakeholders - parents, coaches, S&C, sports medicine staff		Jake Fine
3:45 - 4:00 PM	Technology for Assessment and Monitoring		Eni Hallilaj
4:00 - 4:15 PM	Sports Science approach to soccer, volleyball, football		Stephanie Mock

4:15 - 4:45 PM	MULTIDISCIPLINARY PANEL DISCUSSION: Pitfalls, Challenges, and Difficult Cases		
	Stefano Della Villa, Jonathan Hughes, Laura Schmitt		<<-PANEL

4:45 PM	Closing Remarks	James Irrgang	
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