

5th International Conference on Meniscus Science and Surgery

JULY 07-09, 2022



www.the-meniscus.org

Congress Chairmen:

Romain SEIL (Luxembourg)
Henning MADRY (Homburg)
Dietrich PAPE (Luxembourg)

Scientific Committee:

Philippe BEAUFILS (Versailles) Jan CABRI (Luxembourg) Aad DHOLLANDER (Brasschaat) Caroline MOUTON (Luxemboura) Nicolas PUJOL (Versailles) Cécile TOANEN (Versailles) Peter VERDONK (Antwerpen) Rene VERDONK (Ghent)













WELCOME

FACE-TO-FACE MEETING!

Dear Colleagues, Dear Friends of THE MENISCUS,

In 2010, the first edition of **«THE MENISCUS»** was held in Ghent (Belgium) under the lead of Rene Verdonk and Philippe Beaufils. It was the first congress which was exclusively devoted to the meniscus. Its goal was to share international expertise in order to concentrate and update the knowledge on this small piece of human tissue which is an important cornerstone of joint preservation. Although meniscus surgery was extremely frequent, science around the meniscus, its injuries or lesions and related surgical procedures was often underrepresented at meetings and even in the scientific literature. Hence, it deserved to be promoted and the sub-title of the congress «From Cradle to Rocker» reflected this desire to cover all related topics, from basic research to clinical practice. The spirit of the first congress was reinforced during the following editions: Versailles in 2013, Porto in 2016 and Bologna in 2019.

Because of the big activity around the meniscus among European surgeons and scientists, we wanted this congress to be a forum of ideas illustrating the quality of surgical and research teams from our continent. As there is no progress without stimulation and emulation, we have always intended to confront our ideas by inviting world-renowned teams from America or Asia. The heart of Europe, however, remains the DNA of «THE MENISCUS», so it was only natural that we chose Luxembourg, home of the headquarters of many Institutions of the European Community and of ESSKA. Luxembourg is a very strong symbol and the ideal place to represent the spirit of Europe.

We have revisited the entire program to convince you that nothing can replace a **face-to-face meeting**. Our primary aim is to bring added value for your physical presence at the congress so we are making a point on promoting heavily social interactions as well as practical, hands-on sessions during this congress.

For delegates who will not be able to join Luxembourg, lectures will be available via an online platform few weeks after the congress. The platform will remain accessible until the next congress. We would like to build a permanent '**MENISCUS FORUM**' where networking can continue between the physical congresses. This '**MENISCUS FORUM**' will thus be regularly updated with new videos as well as the latest news about the meniscus.

We look forward to welcoming you in Luxembourg. Save the meniscus

Philippe Beaufils and René Verdonk (congress founders)
Romain Seil, Henning Madry, Dietrich Pape (congress chairmen)
Jan Cabri, Aad Dhollander, Caroline Mouton, Nicolas Pujol, Cécile Toanen, Peter Verdonk (scientific committee)

FiberStitch

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Low-profile all-suture anchors – secured with a selflocking, knotless double-mattress suture construct – replace traditional PEEK plastic buttons.

> FiberStitch™ offers flexibility and options for meniscus repair

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12° up curve

Malleable skid

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René Verdonk

CONGRESS CHAIRMEN



Romain Seil



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SCIENTIFIC COMMITTEE



Jan Cabri



Caroline Mouton



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Reach more repair more

FAST-FIX FLEX enables all-zone all-inside meniscal repair to treat tears previously not accessible*1-3

SmithNephew

FAST-FIX FLEX
Meniscal Repair System





Please visit us on **booth 4** to find out more

*compared to predicate device

References 1. Smith-Nephew 2021/Validation, FAST-FIX FLEX. Internal Report. 15010267 Rev A. 2. Smith-Nephew 2021Nalidation, FAST-FIX FLEX. Attachment B. Internal Report. 15010267 Rev A. 3. Smith-Nephew 2021FAST-FIX FLEX. Surgeon Surveys. Internal Memo.

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Thursday 7 July

07:20	PRACTICAL WORKSHOP 1: HIGH TIBIAL OSTEOTOMIES Upon registration - Limited to 25 participants Animators: Alexander HOFFMANN (Luxembourg), Dietrich PAPE (Luxembourg)
	PRACTICAL WORKSHOP 2: MENISCUS-CLINICAL EXAMINATION & REHAB Upon registration - Limited to 25 participants Animators: Felix HOFFMANN (Luxembourg), Lisa KIRSCH (Luxembourg)
08:05	WELCOME Welcome Lecture. Romain SEIL (Luxembourg) PLENARY ROOM
08:15	OPENING SESSION
00.15	Moderators: Philippe BEAUFILS (France), Romain SEIL (Luxembourg), René VERDONK (Belgium)
08:15	Evidence versus surgical reality: gap between science and practice. Philippe BEAUFILS (France), Jon KARLSSON (Sweden)
08:30	 Importance of genetics in meniscus and cartilage. Linda SANDELL (USA)
08:45	 Can identification of bone morphology help us predict the future of our knees? Peter VERDONK (Belgium)
09:00	MEDIAL RAMP INJURIES
07.00	Moderators: Mathieu THAUNAT (France), Cécile TOANEN (France)
09:00	Critical overview of medial ramp lesions. Romain SEIL (Luxembourg)
09:12	Surgical anatomy of the medial meniscus ramp. Robert LAPRADE (USA)
09:20	• Factors associated with medial ramp lesions. Caroline MOUTON (Luxembourg)
09:28	How I do a medial ramp repair? Cécile TOANEN (France)
09:33 09:41	 Outcome of medial ramp repair. Mathieu THAUNAT (France) Discussion.
10:00	MEDICO-LEGAL ASPECTS OF MENISCUS SURGERY
	Mistakes and their medico-legal consequences. Henry COUDANE (France)
10:15	COFFEE BREAK - EXHIBITION AREA
10:45	CARTILAGE SESSION
10.45	Moderator: Henning MADRY (Germany)
10:45	Know before you go – updated algorithm for decision making in cartilage repair.
10.45	Mustafa KARAHAN (Turkey)
10:53	 Malalignment and effects on meniscus and cartilage in the tibiofemoral compartment. Matt DAWSON (United Kingdom)
11:01	Update on marrow stimulation. Stefan NEHRER (Austria)
11:09	Update on autologous chondrocyte implantation. Peter ANGELE (Germany) Update on actors the advantage of the period of the Control of th
11:17 11:25	 Update on osteochondral transplants and mosaicplasty. Cécile TOANEN (France) Discussion.
11.43	· Discussion.
11:40	ESSKA SESSION

Moderators: Philippe BEAUFILS (France), Jacques MENETREY (Switzerland)

11:40	• ESSKA Core Curriculum 2020 (focus on the knee). Michael HANTES (Greece) PLENARY ROOM			
11:50	• ESSKA consensus on degenerative meniscus lesions. Roland BECKER (Germany)			
12:00	• ESSKA consensus on traumatic meniscus tears. Sebastian KOPF (Germany)			
12:10	• ESSKA consensus on ACL revision. Vincenzo CONDELLO (Italy), Thomas TISCHER (Germany)			
12:20	• ESSKA consensus on knee osteotomies. Matthieu OLLIVIER (France)			
12:30	INDUSTRY WORKSHOP Arthrex			
12.00				
13:00	LUNCH BREAK - EXHIBITION AREA			
13:45	INDUSTRY WORKSHOP DePuy Synthes			
	THE OPPOPULATION OF Indiana dylamin.			
14:15	LATERAL ROOT TEARS			
	Moderators: Wolf PETERSEN (Germany), Nicolas PUJOL (France)			
14:15	Critical overview of ACL associated lateral root tears. Wolf PETERSEN (Germany)			
14:27	Pivot shift and injured lateral root in ACL injured knees. Volker MUSAHL (USA)			
14:35	MRI signs for lateral meniscus posterior root tears in ACL injuries. Hideyuki KOGA (Japan)			
14:43	• Techniques and results of lateral meniscus root avulsions. Robert LAPRADE (USA)			
14:51	• The parrot-beak tear (type II) lesion: repair or neglect? Peter VERDONK (Belgium)			
14:59	• Type III lateral root tears (MF ligament): do they exist? Wolf PETERSEN (Germany)			
15:07	 Lateral root instability: a new entity? Christophe JACQUET (France) 			
15:12	Discussion.			
15.20	DEDIATRIC MENICCUC			
15:30	PEDIATRIC MENISCUS			
	Moderator: Franck CHOTEL (France)			
15:30	 Secondary meniscus injuries in ACL insufficient knees. 			
15:38	Medial ramp lesions in pediatric knees. Franck CHOTEL (France)			
15:46	Hypermobile meniscus: diagnosis and treatment. Sang Hak LEE (Republic of Korea)			
15:54 16:02	Discoid meniscus: a new perspective? Loic GEFFROY (France) Octoor the privitis Discourse and the 2021 Section 748 FACALIBU (Inch.)			
10.07	Osteochondritis Dissecans: update 2021. Stefano ZAFFAGNINI (Italy) Hadea FCCA Badistai A CL Manifesia delititata (PAMI) Banasia FCFII (Israella anno 1997).			
16:10	 Update ESSKA Pediatric ACL Monitoring Initiative (PAMI). Romain SEIL (Luxembourg) 			
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Friday 8 July

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	PRACTICAL WORKSHOP 2: MENISCUS-CLINICAL EXAMINATION & REHAB Upon registration - Limited to 25 participants Animators: Felix HOFFMANN (Luxembourg), Lisa KIRSCH (Luxembourg)
08:00	INDUSTRY WORKSHOP PLENARY ROO
08:30	MENISCUS AND CARTILAGE REPLACEMENT Moderators: Tim SPALDING (United Kingdom), Peter VERDONK (Belgium)
08:30	Meniscus Transplant/Substitution Using Autologous Tendon Graft: Early Experiences. Karl ERIKSSON (Sweden)
08:38	New frontiers on meniscal regeneration: The MEFISTO European Project. Elizaveta KON (Italy)
08:46	Mid term results of polyurethane meniscal scaffold: european multicentric study. Cécile TOANEN (France)
08:54 09:02	Long term results of collagen meniscus implantation. Stefano ZAFFAGNINI (Italy) Results Of Primary And Revision ACL Reconstruction With Meniscal Transplant: Good Results In Selected Patients. Tim SPALDING (United Kingdom)
09:10	Meniscal allograft transplantation and anterior intermeniscal ligament suture: clinical and imaging outcomes. Nicolas PUJOL (France)
09:18	Nu Surface: where are we? Vincenzo CONDELLO (Italy)
09:26 09:34	 Focal metal or plastic cartilage resurfacing implants: what to expect? Karl ERIKSSON (Sweden) Imaging versus functional results: what's more important?
09.54	Pablo GELBER (Spain), Peter VERDONK (Belgium)
09:44	• Discussion.
10:10	COFFEE BREAK - EXHIBITION AREA
10:40	MEDIAL ROOT TEARS
10.40	Moderators: Christophe HULET (France), Jacques MENETREY (Switzerland)
10:40	
10:40 10:52	Critical overview of medial root tears. Nicolas PUJOL (France), Cécile TOANEN (France) Root tears of the medial meniscus: the Asian perspective. Hideyuki KOGA (Japan)
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	PLENARY ROOM	
13:40	INDUSTRY WORKSHOP	
14:10	OSTEOTOMY	
	Moderators: Juan-Carlos MONLLAU-GARCIA (Spain), Dietrich PAPE (Luxembourg)	
14:10	 Unloading and cartilage regeneration in animal models – the biologic perspective. 	
14:18	Henning MADRY (Germany)	
14:18	 Is there difference between focal cartilage lesion and early osteoarthritis? Peter ANGELE (Germany), Jean-Marie FAYARD (France) 	
14:28	HTO: a pre op scoring system for a proper indication. Jean-Marie FAYARD (France)	
14:36	Meniscal transplantation and osteotomy: sense or non-sense?	
	Juan-Carlos MONLLAU-GARCIA (Spain)	
14:44	 Osteotomy or unicompartimental knee prosthesis: what is better for sports practice? Dietrich PAPE (Luxembourg) 	
14:52	Surgical risk factors for HTO. Ryohei TAKEUCHI (Japan)	
15:00	Slope changes and ligament injuries in the malaligned knee.	
15.00	Ronald VAN HEERWAARDEN (The Netherlands)	
15:08	• Discussion.	
15:25	MENISCUS AND SPORTS	
	Moderators: Bertrand SONNERY-COTTET (France), Thomas TISCHER (Germany)	
15:25	Prevention of meniscus injuries in sports: fact or fiction? Thomas TISCHER (Germany)	
15:33	 Medial meniscus repair or resection in the ACL injured knee in athletes? 	
15.41	Bertrand SONNERY-COTTET (France)	
15:41 15:49	 Meniscus repair or resection in the stable knee in athletes? Post traumatic lateral meniscus instability in ACL injured knees. Jacques MENETREY (Switzerland) 	
15:57	Acute ACL reconstruction and meniscus repair in professional skiers. Kristian SAMUELSSON (Sweden)	
16:06	• Discussion.	
16:20	COFFEE BREAK - EXHIBITION AREA	
10.20	COFFEE DREAK* EXHIBITION AREA	
16:50	ACL AND MENISCUS	
	Moderator: Jon KARLSSON (Sweden)	
16:50	Profile of meniscus injuries in ACL injured patients. Amanda MAGOSCH (Luxembourg)	
16:58	 Prevalence and Incidence of Chondral and Meniscal Lesions in Patients Undergoing Primary and Subsequent Revision Anterior Cruciate Ligament Reconstruction: An Analysis of 213 Patients. 	
	Charles PIOGER (France)	
17:06	• Anterior tibial translation in the sagittal plane and its implications for the meniscus: a forgotten entity?	
4744	Luca MACCHIAROLA (Italy)	
17:14 17:22	 Passive anterior tibial translation on MRI. Alexandre HARDY (France) Concomitant Repair Of Displaced Bucket Handle Repairs And ACL Reconstruction. 	
17.22	Sebastian KOPF (Germany)	
17:30	• Secondary meniscus lesions in ACL reconstructed knees in the long term. Patrick DJIAN (France)	
17:38	Rotatory instability: meniscal repair and/or extraarticular lateral reconstruction? ACL reconstruction and reconstruction are to reconstruction.	
17:46 17:54	 ACL reconstruction and meniscal repair: long term results, Karl ERIKSSON (Sweden) Single stage repair of displaced bucket-handle meniscal tears with ACL reconstruction leads to good 	
17.57	meniscal survivorship with similar patient outcomes to primary ACL reconstruction.	
	James ROBINSON (United Kingdom)	
18:02	• Discussion.	

20:30

CONGRESS DINNER

Saturday 9 July

08:00	REHABILITATION - SESSION 1	PLENARY ROOM	
	Moderators: Jan CABRI (Luxembourg), François DELVAUX		
08:00	Return-to-sport after meniscal transplantation.		
08:30	From biomechanics to physiotherapy: application to meniscal repair. Nicholas DEPI	HILLIPO (USA)	
09:00	REHABILITATION - SESSION 2		
	Moderators: Jan CABRI (Luxembourg), François DELVAUX		
09:00	 Rationale and implementation of knee injury prevention programs. 		
09:15	• The clinical milestones of rehabilitation after isolated meniscal surgery. Anne FRISCH (Luxembourg		
09:30	 Load monitoring strategies after meniscal surgery. Jérôme PAULS (Luxembourg) 		
09:45	 Sport-specific rehabilitation before and after concomitant meniscal repair and A Magalie HAHM (Luxembourg) 	ACL reconstruction.	
10:00	• Discussion		
09:00	FUTURE PERSPECTIVE OF MENISCUS RELATED RESEARCH PART I	ROOM 2	
	Moderator: Caroline MOUTON (Luxembourg)		
09:00	 Anatomy and vascularisation of the meniscus. Robert SMIGIELSKI (Poland) 		
09:07	• The anatomical interaction between the medial ramp and the semimembranosus. Ivan SAENZ (Spain)		
09:14	 Meniscus and cartilage imaging with contrast CBCT. Jari SALO (Finland) 		
09:21	What makes the meniscus a unique multi functional structure. A journey inside the n	neniscus from nano	
09:28	to macroscale. Olga BARRERA (United Kingdom) • Biologics for meniscal healing.		
09:26		DELL (LICA)	
09.33	• Injured meniscus and distinct phenotypes of meniscus degeneration. Linda SANDELL (USA)		
09:49	 Age related differences of neuronal structures in the meniscus. Theresa DIERMEIER (Germany) Degeneration Alters First The Biomechanical Properties Of Human Menisci Before Affecting The Tibia 		
05.45	Cartilage. Andreas SEITZ (Germany)	Anceting the ribidi	
09:56	 Introduction of a new standard for pre-clinical testing of total meniscus prosthesis 	5.	
	Tony Georges VAN TIENEN (The Netherlands)		
10:03	 Meniscal vascularisation: an experimental study. 		
10:10	• Discussion.		
10:30	SOCIAL BRUNCH LECTURE	PLENARY ROOM	
	Jean ASSELBORN (Minister of Foreign and European Affairs of Luxembourg),		
	Savvas PAPASAVVAS (Luxembourg), Romain SEIL (Luxembourg)		
11:00	COFFEE BREAK - EXHIBITION AREA		
11:30	REHABILITATION - PRACTICAL SESSION		
11.50	The decision-making process for return-to-sport after meniscal surgery.		
	Jérôme PAULS (Luxembourg), Anne FRISCH		
'	Jerome PAOLS (Luxembourg), Anne PRISCH		

ROOM 2

	Moderator: Olga BARRERA (United Kingdom)	
11:30	• The Meniscus Tear: A Review of Stem Cell Therapies. Norimasa NAKAMURA (Japan)	
11:37	 How molecular biologics can help us understand and improve meniscus disease. 	
	Magali CUCCHIARINI (Germany)	
11:44	 Biomechanical characteristics of the menisco-synovial junction of the posterior segment of the medial meniscus. Quentin NICOLAS (France) 	
11:51	• Effect of meniscocapsular and meniscotibial based lesions on knee laxity in ACLd and ACLR knees :	
	Biomechanical study. Nicholas DEPHILLIPO (USA)	
11:58	Biomechanics of posterolateral meniscus root tears.	
	James ROBINSON (United Kingdom)	
12:05	Kinematic Analysis of Lateral Meniscus Oblique Radial Tears in ACL Deficient and ACL Reconstructed	
	Knees. Patrick SMITH	
12:12	 Anatomy and Biomechanics of the meniscus attachments: Implications for Meniscus allograft transplantation. Christoph KITTL (Germany) 	
12:19	Biomechanics of HTO: Personalised versus Generic. Richie GILL (United Kingdom)	
12:26	Micro flow imaging in high resolution ultrasound.	
	Burt KLOS (The Netherlands)	
12:33	 Collagen Matrix Wrapping and Bone Marrow Blood Injection: Clinical Effectiveness in the treatment of 	
	meniscal tears. Tomasz PIONTEK (Poland)	
12:40	• Discussion.	
12:45	CONGRESS FAREWELL PLENARY ROOM	

FUTURE PERSPECTIVE OF MENISCUS RELATED RESEARCH PART 2

DePuy Synthes Mitek Sports Medicine

TRUESPAN™



Meniscal Repair Simplified

Now Available In PLGA

Simplified Deployment

Device features an ergonomic design that is comfortable to hold and a single trigger, allowing use with only one hand. No needle assembly or reloading steps required.

Versatile

Available 0°, 12°, & 24° needles pre-loaded with non-absorbable PEEK and absorbable PLGA implants and partially absorbable 2-0 ORTHOCORD® Suture

Please refer to the instructions for use for a complete list of indications, contraindications, warnings and precautions.

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Designed to be Robust

Implants and suture are protected by a depth stop and rigid needle while accessing hard to reach locations.



Low Profile

Small size needle & implants minimize tissue disruption and 'kickback' during deployment.
Repairs with TRUESPAN™ Implants do not leave a knot or hard body on articular surfaces.







PLATINUM PARTNERS









GOLD PARTNER



PARTNERS























A stronger anchor with a softer touch

Introducing the

JuggerStitch™ All-suture, Knotless Meniscal Repair Device

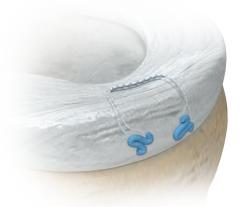
- Ergonomic delivery mechanism that allows for quick and simple implant deployment
- The low profile taper tip needle intended to minimize cutting the meniscal tissue during insertion
- The all suture knotless implant allows for controlled tensioning while eliminating rigid plastic anchors and hard meniscal surface knots

For more information, ask your Zimmer Biomet representative or visit **juggerstitch.eu**



- 1. Static Loading of JuggerStitch Meniscal Repair Device. BSM26.VR2. 24 AUG 2016
- Compared to current hard PEEK implants.

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ORGANISATION



Registration / Accommodation / Faculty

viviane BARBARISI - Viviane.barbarisi@mcocongres.com

Partners / Logistics

Fabrice GUEZ - fabrice.guez@mcocongres.com

MCO CONGRES SAS

Villa Gaby 235 Corniche JF. Kennedy 13007 MARSEILLE - FRANCE

Phone: + 33 (0)4 95 09 38 00 - Fax: + 33 (0)4 95 09 38 01