

ISSC

International Symposium
on Sport-related Concussion

October 13,
2023

Paris France

Hôpital Européen
Georges Pompidou



SCIENTIFIC PROGRAM

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> Edito

Within the context of the 2023 Rugby World Cup, the **International Symposium on Sport-related Concussion (ISSC) organises an Inaugural Conference on concussion in rugby**. Considering the challenges that post-concussion syndrome and the risk of chronic traumatic encephalopathy associated with repeated concussions in sports (and rugby in particular) represent for public health, we consider it important to turn the spotlight on the need for increased awareness, injury prevention strategies, advancements in research and care, technologies and innovation, and the overall welfare of athletes.

The Inaugural Conference of the International Symposium on Sport-related Concussion intends to encourage **interdisciplinary collaboration**, by bringing together **renowned experts**, researchers, healthcare professionals, athletes, and stakeholders. It will provide a platform for researchers to share their work, explore funding opportunities, **showcase technological innovations**, and promote the translation of **research findings** into **actionable strategies** for improved player safety in rugby.

By integrating a comprehensive program featuring keynote lectures, interactive workshops, panel discussions, and poster presentations, the Conference articulates its **objectives** along four axes:

1. **Scientific Advancement & Clinical Trials:** facilitating the dissemination of ground breaking research findings, novel methodologies, and emerging scientific knowledge related to sport-related concussions. Highlighting the latest advancements and best practices in designing, implementing, and evaluating clinical trials focused on concussion prevention, diagnostic tools, treatment interventions, and rehabilitation strategies across diverse populations and sports.
2. **Technologies & Innovations:** presenting the innovations and new technologies developed to enhance the understanding, diagnosis, management, treatment and prevention of sport-related concussions: impact sensors, concussion assessment apps, virtual reality (VR), Advanced Imaging Techniques, Portable Neurocognitive Assessment Tools, Protective Equipment Advances, Data Analytics and Machine Learning, neuroprotective therapeutic strategies, etc.
3. **Evidence-based Practice:** Emphasizing the translation of scientific discoveries into evidence-based clinical practice, enabling attendees to learn about effective approaches, interventions, and management strategies supported by robust scientific evidence.
4. **Multi-disciplinary Collaboration:** Encouraging collaboration between scientists, clinicians, statisticians, engineers, and other stakeholders to foster interdisciplinary research collaborations and innovative solutions that address the multifaceted aspects of sport-related concussions.

By prioritizing **scientific rigor and clinical trial advancements**, this Inaugural Conference aims to propel the field of sport-related concussion management forward. The symposium will be a catalyst for collaborative efforts, shaping the future of **evidence-based concussion management practices**, and driving the development of innovative solutions through science and clinical trials.

> Program

8.00 am 8.30 am Registration and Welcome Coffee

8.30 AM 8.35 am **Welcome Address**
 Prof. Jacques Touchon (MD, PhD)
 Montpellier University, France

8.35 am 9.20 am INTRODUCTION
Chair: Prof. Xavier Jouven (MD, PhD), AP-HP, European Hospital Georges Pompidou, France

8.35 am **Introduction**
 Prof. Xavier Jouven (MD, PhD)
 AP-HP, European Hospital Georges Pompidou, France

8.45 am **«A concussion... What if I play ? ... Danger !»**
 Philippe Sella
 Former rugby player, France

9.00 am **What is a concussion?**
 Prof. Philippe Decq (MD, PhD)
 Paris Cité University, APHP, Hôpital Beaujon, France

9.20 am 10.30 am KEY MESSAGES FROM THE NEW AMSTERDAM CONSENSUS
*Chair: Prof. Pierre Frémont (MD, PhD, FCMF)
 Laval University, Canada*

9.20 am **The Amsterdam consensus on sport-related concussions: potential impact on concussion prevention, detection, and management in rugby**
 Prof. Pierre Frémont (MD, PhD, FCMF)
 Laval University, Canada

9.40 am **From SCAT to SCOAT: the new Sports Concussion note**
 Prof. Jon Patricios (MBBCh, MMedSci, FACSM, FFSEM (UK), FFIMS)
 Wits University, South Africa

10.00 am **Training strategies to prevent concussion, what does the evidence say?**
 Dr. Stephen West (PhD)
 Bath University, United Kingdom

10.20 am **Q&A**

10.30 am 10.50 am *Coffee Break and Poster Exhibition*

10.50 am 12.30 pm CLINICAL ASPECTS OF CONCUSSION
Chair: Prof. Philippe Decq (MD, PhD), Paris Cité University, APHP, Hôpital Beaujon, France

> Program

10.50 am **Signs and symptoms of a concussion**

Prof. Jérémie Pariente (MD, PhD)
University Hospital of Toulouse, France

11.10 am **What are the neuropsychologic consequences of an acute concussion?**

Prof. Jacques Touchon (MD, PhD)
Montpellier University, France

11.30 am **Round table on long-term consequences of concussion**

Chair: Prof. Jacques Touchon (MD, PhD), Montpellier University, France

Long-term consequences of concussion

Dr. David Brauge (MD)
Clinique du Parc of Toulouse, France

The long-term effects of single and repeated traumatic brain injury

Dr. Daniel H. Daneshvar (MD, PhD)
Harvard Medical School, United States **Zoom**

12.00 pm **Heart & concussion**

Prof. Xavier Jouven (MD, PhD), AP-HP
European Hospital Georges Pompidou, France

12.20 pm **Q&A**

12.30 pm 1.45 pm *Lunch and Poster Exhibition*

1.45 pm 2.05 pm **INNOVATION SHOWCASE**

Chair: Guillaume Blivet, RegenLife, France

1.45 pm **“Why skills and cognitive training became such an obvious path to follow after my retirement from professional rugby”**

Brian Liebenberg, former rugby player
France

1.55 pm **Facilitating the detection and diagnosis of concussions through innovative technologies**

Pascal Saguin, Senior Vice President
VOGO, France

2.05 pm 2.35 pm **ORAL COMMUNICATION**

Prof. Jacques Touchon (MD, PhD), Montpellier University, France

2.05 pm **Titre communication 1**

Orateur

2.15 pm **Titre communication 2**

Orateur

> Program

2.25 pm

Titre communication 3
Orateur

2.35 pm

6.05 pm

INNOVATIONS IN DIAGNOSIS AND CARE OF CONCUSSION

Chair: Dr. Eanna Falvey (MB, PhD, FRCPI, FFSEM, MMedsc), World Rugby, Ireland

2.35 pm

The RECOVERY study: first results of a pilot clinical trial to evaluate brain photobiomodulation in acute concussion in sportspeople

Dr. Jean-François Chermann (MD), AP-HP
European Hospital Georges Pompidou, France

Dr. Philippe Malafosse (MD), Sport doctor
France

2.55 pm

Post-concussive vestibular dysfunction; network alterations characterizing dizziness after sport-related concussion

Dr. Russell K. Gore (MD, FAAN)
Concussion Clinic, SHARE Military Initiative, United States **Zoom**

3.15 pm

Measuring brain's electrical activity to track sports-related concussions: is it useful?

Dr. Karim Bennys (MD)
University Hospital of Montpellier, France

3.35 pm

3.55 pm

Coffee Break and Poster Exhibition

3.55 pm

Round table on biomarkers

Chair: Dr. Karim Bennys (MD) University Hospital of Montpellier, France

Blood biomarkers for Sport-related concussion: protein S100B for rugby as illustration

Prof. Vincent Sapin (PharmD, PhD)
Clermont-Ferrand University, France

Current views on sport related concussion biomarkers

Prof. Franck Molina (PhD)
Sys2Diag, CNRS/ALCEN, Montpellier, France

Biomarkers to assess long term brain health in those exposed to repetitive head impacts

Dr. Charles Bernick (MD, MPH)
Cleveland Clinic, United States **Zoom**

> Program

4.55 pm

Return to Play following sports-related concussion

Dr. Eanna Falvey (MB, PhD, FRCPI, FFSEM, MMedsc)
World Rugby, Ireland

5.15 pm

Neuromodulation: A novel treatment for Sport-related Concussion

Dr. Chantel Debert (MD, MSc, FRCPC, CSCN)
University of Calgary, Canada [*Zoom*](#)

5.35 pm

Rehabilitation following concussion - evidence-informed recommendations for practice

Dr. Kathryn Schneider (PT, PhD, DipManiPT)
University of Calgary, Canada [*Zoom*](#)

5.55 pm

Q&A

6.05 pm

6.30 pm

CONCLUSIONS

Prof. Pierre Frémont (MD, PhD, FCMF)
Laval University, Canada

> Posters

> Posters

> Notes

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