

VENUE: Fondazione Collegio San Carlo
Via S. Carlo, 5 - Modena (MO)

CME:

The event will award 6.3 CME credits to the following professions:
MEDICAL DOCTOR (Physical Medicine and Rehabilitation, Orthopedics and Traumatology, Radiodiagnostics),
PHYSIOTHERAPIST; ORTHOPEDIC TECHNICIAN.

LEARNING OBJECTIVE: 3

REGISTRATION:



It is possible to register by visiting the website www.congredior.it
EARLY BIRD REGISTRATION CLOSES APRIL 22nd

REGISTRATION TYPE	By 22/04/2024	By 03/06/2025	Until the event date
Medical Doctor	€ 220,00	€ 280,00	€ 350,00
Physiotherapist, Orthopedic Technician Residents/ Master's Students	€ 150,00	€ 180,00	€ 250,00
Students	€ 90,00	€ 130,00	€ 150,00

20% discount on all registration fees to members of the Congress Patronages Societies

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UNIMORE
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA



Modena Joint Arthroplasty Enabling Technology Meeting

4th JULY 2025

F ————— SC
Fondazione Collegio San Carlo

FONDAZIONE
MASSIMO E SONIA
CIRULLI

Course Chairman:

F. Catani, Chief of the Orthopaedic Surgery Department of Modena and Reggio Emilia University

Scientific Committee: A. Marcovigi, L. Tarallo, F. Zambianchi

Invited Faculty:

- | | | | |
|-----------------------|-----------------------------|---------------------------|----------------------------|
| W. J. Anderst (USA) | J. Chaoui (France) | T. Karachalios (Greece) | S.M.P. Rossi (Italy) |
| L. Angibaud (France) | J.P. Cobb (UK) | A. Klasan (Austria) | M. Schiraldi (Italy) |
| D. Barrett (UK) | R. Cohen (USA) | S. Lustig (France) | L. Tarallo (Italy) |
| F. Benazzo (Italy) | M. Engl (Italy) | T. Luyckx (Belgium) | M. Trevisan (Italy) |
| B. Bloch (UK) | A. Gasbarrini (Italy) | M. Mantovani (Italy) | A. Tripodo (Italy) |
| M. Borroni (Italy) | G. Giordano (Italy) | A. Marcovigi (Italy) | E. Tsidiris (Greece) |
| A. Camporese (Italy) | F. Haddad (UK) | G. Peersman (Belgium) | G. Van Hellemond (Holland) |
| R. Castricini (Italy) | M. Hirschmann (Switzerland) | G. Porcellini (Italy) | J. Victor (Belgium) |
| F. Catani (Italy) | B. Innocenti (Italy) | M. Pungitore (Italy) | S. Zaffagnini (Italy) |
| R. Civinini (Italy) | S.A. Jerabek (USA) | C. C. J. Rivière (France) | F. Zambianchi (Italy) |

7.45 Registration of participants

8.15 Introduction of the meeting, *F. Catani*

8.20 Speech of the Authorities, *C. Porro, M. Zoli, M. Dominici, Ing. Baldino, M. Mezzetti, A. Troelsen, E. Tsiridis, P. S. Randelli*

Open coffee and beverages

I SESSION: Unmet surgical and clinical needs: the pillars for developing joint arthroplasty enabling technology

Moderators: *F. Catani, F. Haddad*

8.45 JA enabling technology: decision making process made by marketing or clinical needs? *R. Cohen*

8.55 THA, *F. Haddad*

9.05 TKA, *J. Victor*

9.15 UKA, *S. Lustig*

9.25 Bi-Cruciate Retaining Knee, *J. P. Cobb*

9.35 TSA & RSA, *G. Porcellini*

9.45 Spine, *A. Gasbarrini*

9.55 Image-less and imaged-based enabled technology in primary and revision surgery: accuracy, precision and planning, *F. Benazzo*

II SESSION: HIP enabling technology

Moderators: *S. A. Jerabek, E. Tsiridis*

10.05 Single wedge stem fixation with modified stem anteversion vs neck version with PLA, *A. Marcovigi*

10.12 Functional positioning data in RATHA with PLA, *F. Haddad*

10.19 DAA with RHHTA surgical technique and clinical outcomes, *A. Camporese*

10.26 RCT of manual vs robotic THA with PLA, *F. Haddad*

10.33 Advanced Navigation System in THA, *R. Civinini*

10.40 3D printed instruments and psi guides upskill surgeons performing ceramic hip resurfacing, *J. Cobb*

10.47 Spino-pelvic motion and THA kinematic alignment, *C. C. J. Rivière*

10.52 Improvement in Back Pain and Disability in Patients with Hip-Spine Syndrome after THA, *M. J. Anderst*

11.00 Discussion

III SESSION: KNEE ENABLING TECHNOLOGY

➔ Alignment

Moderator: *M. Hirschmann, S. Lustig*

11.25 Functional vs Mechanical TKA RCT, *F. Haddad*

11.32 Three-compartment phenotype concept (3D-FKP) of total knee arthroplasty alignment - Mismatch between distal femoral, posterior femoral and tibial joint lines in 83% of non-osteoarthritic and 88.8% of osteoarthritic knees, *M. Hirschmann*

11.39 Bone cut accuracy: new classification and rationale with image based robotic technology, *S. Lustig*

11.46 Associations between REAL Classification, CPAK Phenotypes, Alignment Severity and Surgical Management in Personalized Robotic-Assisted Total Knee Arthroplasty, *E. Tsiridis*

11.53 The impact of Alignment philosophy in TKA on trochlear Anatomy restoration is strongly linked to the LDFA, *T. Luyckx*

12.00 AI-powered surgical planning for Total Knee Arthroplasty, *J. Chaoui*

12.07 The basics about Functional Alignment in Total Knee Arthroplasty - How Does it Work?, *A. Klasan*

12.15 Discussion

13:00 Lunch

➔ Soft tissue balancing – Is soft tissue balancing different based upon image-less or image-based systems?

Moderators: *S. Zaffagnini, D. Barrett*

14.00 Stability, Alignment, and Soft Tissue Balancing in Knee Biomechanics, *B. Innocenti*

14.07 Soft tissue balancing, component alignment and implant design relationship in TKA, *J. Victor*

14.14 Alignment and soft tissue balancing of Bi-cruciate TKA with CORI system, *M. Schiraldi*

14.21 Soft tissue balancing and alignment strategy with Omnibot system, *A. Tripodo*

14.28 Soft tissue balancing and alignment strategy with Skywalker system, *T. Karachalios*

14.35 Soft tissue balancing and alignment strategy with CR Mako system, *M. Trevisan*

14.42 Soft tissue balancing using image-less Velys system depending on alignment strategy, *B. Bloch*

14.49 A navigation-based analysis of native knee collateral ligament elongation patterns:

CPAK classification subgroups exhibit phenotype specific ligament behavior, *G. Peersman*

14.56 Achieving medial stability with Nextar, *M. Engl*

15.03 Soft-tissue management for TKA, *L. Angibaud*

➔ Third space

15.10 Anterior offset and patellar tracking enhancement using robotic assisted technology for TKA, *S. Lustig*

15.17 In vivo PFJ loading in the third space: how do we get it so wrong? *D. Barrett*

15.24 Posterior lateral and distal lateral resections influence post-operative patellar tilt in robotic- assisted total knee arthroplasty, *M. Pungitore*

15.31 TKA component alignment and patellar tracking in well balanced knee, *F. Zambianchi*

15.40 Discussion

➔ HIP and Knee Revision

Moderators: *G. Van Hellemond, S. Rossi*

16.00 Mako hip revision, *S.A. Jerabek*

16.07 Mako Robotic System in Revision of Unicompartmental Knee Arthroplasty: Surgical Technique and Outcomes, *F. Haddad*

16.14 Revision TKA with CORI system: tips and tricks, *G. Van Hellemond*

16.21 Literature reviews on RTKS using assisted technology, *M. Mantovani*

16.28 TKA revision and soft tissue balancing, *G. Giordano*

16.35 The Use of an Imageless Robotic System in Revision of Unicompartmental Knee Arthroplasty (UKA): Surgical Technique and Outcomes, *S. M. P. Rossi*

16.45 Discussion

IV SESSION: SHOULDER ENABLING TECHNOLOGY

Moderators: *M. Borroni, L. Tarallo*

17.10 The role of the Scapula in Shoulder Diseases: Reasons to Assess, quantify and rehab it, *M. Mantovani*

17.17 Shoulder Arthroplasty enabled technology particularly related to CTbased Nav and sensors, *L. Angibaud*

17.24 Intraoperative RSA motion and load sensor data using CT based navigation system, *L. Tarallo*

17.31 Optimal glenoid components alignment with Augmented Reality Guidance, *R. Castricini*

17.38 Kinematic study of scapula-thoracic joint using the "slow motion" sensors in cohort of patients treated with Navigated RSA: how the scapula-thoracic joint can influence the clinical outcomes in RSA, *L. Tarallo*

17.45 AI-powered preoperative surgical planning from Image to Implant: Shoulder Arthroplasty, *J. Chaoui*

17.55 Discussion

18.15 End of the meeting and conclusion, *F. Catani*