

Motion Analysis and Spine Disorders

Thursday November 19 2026 Amphitheater University Hospital of Ioannina

09:00 Round table Basic Principles (G. Sapkas, I. Gelalis)

1. Biomechanics of the Spine: From Research to Clinical Practice (Dimitios Varvarousis)
2. Principles of Motion Analysis in Spine Assessment (Ioannis Giakas)
3. Wearable Sensors and Digital Tools in Spine Rehabilitation (Dimitrios Dimopoulos)
4. Scoliosis and Motion Analysis: From Posture to Dynamic Function (Georgios Sapkas)
5. Cervical Spine Disorders and Movement Patterns (Sofia Xergia)

12:00 Round table Clinical Applications-Rehabilitation (Alexandros Beris, Anastasios Korompilias)

6. Gait Analysis and Spinal Alignment: What Can We Learn? (Apostolos Skouras)
7. Motion Analysis in Low Back Pain: Clinical Applications (George Vasileiadis)
8. Motion Analysis Before and After Spine Surgery (Avraam Ploumis)
9. Motion Analysis in Neurological Conditions Affecting the Spine (George Grimas)
10. Translating Motion Analysis Findings into Rehabilitation Program (Ram Haddas)

12 min Presentation

20 min Discussion

15:00 Workshop (Avraam Ploumis-Ram Haddas) (At the Gait Analysis Lab of the Department of Physical Medicine and Rehabilitation)

11. Basic knowledge on motion analysis (Dimitrios Dimopoulos-Dimitrios Varvarousis) 60'
12. Future Directions in Digital Spine Assessment and Rehabilitation (Ram Haddas-Avraam Ploumis) 60'
13. Personalized Rehabilitation Program Based on Motion Analysis Findings (Ioannis Giakas-Sofia Xergia) 60'
14. Scoliosis in neurologic patients: Motion Analysis for Assessment and Exercise Prescription (George Grimas-Alexandros Athanasiou) 60'