

THE CITY OF LODZ – THE MOST MODERN CENTER OF MOTION ANALYSIS IN POLAND.

Ten hours of lectures in English language given by Prof. Manuela Galli (Technical University of Milan) and Prof. Filippo Camerota (“La Sapienza” University in Rome).

General topics for open lectures:

1. Popularization of objective methods for movement analysis with the use of motion capture system and surface EMG.
2. The use of movement analysis in pediatrics.

Schedule for open lectures:

First day (4 hours: 9.00 – 13.20): Motion analysis: How , when, why?

1. Aims of movement analysis (M. Galli)
2. Clinical advantages in using a motion analysis system (F. Camerota)
3. Methods with special attention to optoelectronic systems and force platform (M. Galli)
4. The related use of surface EMG during motion analysis (M. Galli)

BREAK

5. Protocols (M. Galli)
6. Patient preparation (M. Galli)

OPEN DISCUSSION

Second day (3 hours: 9.00 – 12.20): Reading a Gait analysis report

1. Examples of reports and their clinical interpretation: Kinematics, kinetics and EMG – PART 1 (M. Galli, F. Camerota)

BREAK

2. Examples of reports and their clinical interpretation: Kinematics, kinetics and EMG – PART 2 (M. Galli, F. Camerota)

OPEN DISCUSSION

Third day (3 hours 9.00 – 12.20):

1. The advantage of motion analysis in different pathologies in adults : Parkinson Disease, Joint hypermobility syndrome (M. Galli, F. Camerota)

BREAK

2. The advantage of motion analysis in different pathologies in children: Cerebral palsy, Down syndrome (M. Galli, F. Camerota)
3. The use of Motion analysis in treatment outcomes evaluation in children and adults (M. Galli, F. Camerota)

OPEN DISCUSSION

After the lectures and prior registration there is a possibility to participate in the presentation of Academic Laboratory of Movement and Human Physical Performance “DynamoLab” of Medical University of Lodz.

Participation in lectures and DynamoLab presentation is free of charge. Event is sponsored by: DynamoLab, Medical University of Lodz, The City of Lodz, PHU Technomex Sp z o.o.

