

IAMMM Scientific Conference Committee

- •Prof. Dr. Jacob Patijn, MD, PhD, University Maastricht, Netherlands (Science Director IAMMM)
- •Prof. Dr. Carla Stecco, MD, PhD, University of Padova, Italy
- •Prof. Dr. Raffaele De Caro, MD, PhD, Faculty Dean, University of Padova, Italy
- Prof. Dr. Olavi Airaksinen, MD, PhD, University East Finland, Finland (Chairman IAMMM Board)

Officers Logistics Conference

- •Prof. Marinko Rade, MSc Orth Med, PhD, MBA, Croatia
- •Dr. Viktor Dvorak, MD, Switzerland

Welcome to the IAMMM Academy Conference in Padua, Italy.

We are happy that for the second time Prof. Dr. Raffaele De Caro and Prof. Dr. Carla Stecco of the University of Padova were prepared to oraganise in cooperation with the IAMMM the 12th IAMMM Academy Conference.

Dates

The two-day IAMMM Academy Conference will be held on November 12 & 13, 2021.

Aim

The main aim of the meeting is to provide an international discussion platform for educationalists, scientists and daily practitioners in the field of M/M Medicine (Manual/Musculoskeletal Medicine) and its related medical and non-medical disciplines. Therefore, the mutual discussion, in a friendly and safe envirement, is at the heart of the Academy Conferences. This is illustrated by the fact that the majority of the presentations comprises, beside protocol proposals, case-report and keynote lectures, preliminary results of recent research data.

Academy Member meeting

The Annual General Meeting of the Academy will take place (for Academy members only) on November 12 after Session IV.

Open policy of Academy Conference participation

The IAMMM Academy Conference is open to all colleagues in M/M Medicine and non-medical related disciplines. Conference participants, who are no Academy member (yet), automatically become Associate Member till the end of the year (2021).

Academy Conference room

On November 12 and 13, the Academy Conference will take place in the:

Anatomy Institute of Padova University, Via Gabriele Falloppio 50, 35127 Padova (Italy)



Social Events

•On November 11th you are invited to the Welcome drink from 18:30 till 19:30 at Hotel Majestic Toscanelli, Via dell'Arco 2, 35122 Padova, Italy.

•The Academy Dinner will be organized November 12th from 20:00 till 22:30 (location will be announced during the first day).

The members of the IAMMM Scientific Conference Committee and of the IAMMM Executive Board wish you a fruitful and pleasant conference.

VALIDATION OF THE PENDULUM TEST IN THE ASSESSMENT OF MUSCLE TONE IN PERSONS WITH CEREBRAL PALSY

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Introduction: Cerebral palsy (CP) is often accompanied by motor limitations, abnormal movements and spasticity. Precise and reproducible assessment of spasticity is essential for the selection and follow up of the therapeutic protocol. In clinics the spasticity is most often characterized with the estimate of resistance to a manual flexion and extension of a particular joint and use of a modified Ashworth scale (MAS). The MAS grading depends on the subjective assessment by the examiner.

Aim: The possible alternative is to use the pendulum test (PT) determined parameters for the quantitative assessment of the spasticity.

Material and Methods: We used a new instrument from the company 3F - Fit Fabricando Faber comprising inertial measurement units at the shank and thigh, and two EMG recording units to record electromyographic signals from the hamstrings and quadriceps muscles. The study included 48 subjects diagnosed with cerebral palsy.

Results: The analysis of results showed that the new measure based on the PT recordings is highly corelated with the muscle tone in CP patients, and automatically distinguishes the type of spasticity (flexion or extension), relaxation rate and spasticity strength.

Conclusion: The new measure showed sensitivity of the PT and indicates great potential of using the PT in the protocols for better control of spasticity in CP patients.

Keywords: cerebral palsy (CP), pendulum test (PT), modified Ashworth scale (MAS), spasticity