



**Europe-Middle East-Africa Chapter (EMEAC)**  
**Quantitative EMG and Neuromuscular Ultrasonography**  
**Teaching Course 14-16, June 2024**

**Venue: Aarhus University Hospital**

**Faculty (International):** Erik Stålberg, Antonin Gechev, Björn Falck, Eman A. Tawfik.

**Faculty (Local):** Hatice Tankisi, Erisela Qerama, Christian Krarup.

**Program**

**Friday, 14<sup>th</sup> June, 2024**

08.00 – 08.15: Registration and welcome

08.15 – 9.00: The motor unit, anatomy and physiology - **Erik Stålberg**

09.00 – 9.30: Basic EMG- Spontaneous activity – **Björn Falck**

09.30 – 10.00: Basic EMG and signs of de- and re-reinnervation - **Erik Stålberg**

10.00 – 10.30: Coffee break

10.30 – 11.30: Quantitative EMG + DEMO - **Erik Stålberg**

11.30 – 12.00: Electrodiagnosis of amyotrophic lateral sclerosis – **Christian Krarup**

12.00 – 12.30: Electrodiagnosis of radiculopathies - **Antonin Gechev**

12.30 – 13.30: Lunch break

13.30 – 14.15: Basics of Neuromuscular Ultrasound - **Eman A. Tawfik and Erisela Qerama**

14.15 – 15.00: Muscle ultrasonography as a supplementary test to EMG - **Erisela Qerama**

15.00 – 15.30: Coffee break

15.30 – 16.30: Muscle ultrasonography- DEMO – **Erisela Qerama and Eman A. Tawfik**

16.30 – 18.00: Hands-on sessions on quantitative EMG and muscle ultrasonography in 6 groups- 5 participants in each group

**Saturday, 15<sup>th</sup> June, 2024**

08.30 – 09.15: Nerve Conduction Studies- an update - **Erik Stålberg**

09.15 – 10.00: NCS of uncommon nerves and non-conventional techniques - **Björn Falck**

10.00 – 10.30: Coffee break

10.00 – 10.30: Electrodiagnosis of polyneuropathy – **Hatice Tankisi**

10.30 – 11.00: Electrodiagnosis of entrapment neuropathies – **Antonin Gechev**

11.00 – 11.30: The role of nerve ultrasonography as a supplementary tool to NCS for polyneuropathy and entrapment neuropathy diagnoses – **Eman A. Tawfik**

11.30 – 12.30: DEMO Nerve Ultrasonography - **Eman A. Tawfik and Erisela Qerama**

12.30 – 13.30 Lunch break

13.30-14.00: Electrodiagnosis of plexus brachialis - **Erisela Qerama**

14.00 – 14.30: Ultrasonography as a supplementary test for diagnosis of brachial plexus lesion – **Eman A. Tawfik**

14.30 – 15.30: Ultrasonography of brachial plexus and roots– DEMO – **Eman A. Tawfik and Erisela Qerama**

15.30 – 16.00: Coffee break

16.00 – 18.00: Hands-on sessions on nerve conduction studies and neuromuscular ultrasonography in 6 groups- 5 participants in each group

**Sunday, 16<sup>th</sup> June, 2024**

08.30 – 09.15: New neurophysiological techniques - Nerve excitability testing and MScanFit motor unit estimation and DEMO – **Hatice Tankisi**

09.15 – 10.00: Repetitive nerve stimulation including DEMO – **Björn Falck**

10.00 – 10.30: Coffee break

10.30 – 11.15: Single fibre EMG and concentric needle electrode jitter - **Erik Stålberg**

11.15 – 12.00: Concentric electrode jitter – DEMO - **Erik Stålberg**

12.00 – 12.30: Closing remarks and feedback from participants

12.30 – 13.30 Lunch break

13.30 – 15.00: Hands-on session on NCS, EMG, ultrasonography and new techniques

15.00 – 15.30: Coffee break

15.30 – 17.00: Hands-on session on NCS, EMG, ultrasonography and new techniques