Shiraz Annual Epilepsy School (Semiology-EEG)-2023

Organizer: Epilepsy Research Center & Vice-Chancellor for Global Strategies and International Affairs, Shiraz University of Medical Sciences, Shiraz, Iran

Endorsed by: The International League Against Epilepsy (ILAE)

Moderator: Prof. Ali A. Asadi-Pooya, M.D. (aliasadipooya@yahoo.com)

Date: 18-20 October 2023

List of faculty:

1. Ali A. Asadi-Pooya, M.D., Professor of Epileptology, Iran
2. Mohsen Farazdaghi, M.D., Neurologist with epilepsy fellowship, Iran
3. Hamid Nemati, M.D., Pediatric neurologist with epilepsy training, Iran
4. Sofia Kasradze, M.D., Ph.D., Professor of Epileptology, Georgia

The EEG/Epilepsy school at Epilepsy Research Center, Shiraz University of Medical Sciences is an intensive, 3-day course designed to instruct in core competencies related to epilepsy classifications and semiology and also electroencephalography of adults and children. The learning objectives and the program of the course are shown below.

Learning objectives (based on the ILAE LOs):

1.3. Identify and describe seizure semiology using standardized ILAE terminology and classification systems

1.3.1	Learn and recognize the seizure semiology and distinguish it from other non-epileptic manifestations
1.3.2	Extract semiology information from patient history
1.3.3	Extract semiology information from video recordings
1.3.4	Interpret semiological signs and symptoms allowing hypotheses on the localization of focal seizures
1.3.5	Interpret semiological signs and symptoms suggesting focal vs. generalized onset
1.3.6	Classify seizures according to the ILAE classification

1.4. Interpret EEG and describe common EEG patterns in children and adults

1.4.1	Determine whom should receive EEGs, be familiar with sensitivity and specificity, and how to interpret the report in the clinical context
1.4.3	Demonstrate knowledge of montages - advantages and disadvantages

1.4.7 Recognize and describe background activity and sleep patterns in all age groups
1.4.8 Recognize and distinguish artifacts and normal variants from abnormal EEG patterns, and take actions necessary for eliminating artifacts
1.4.9 Recognize and describe interictal abnormalities
1.4.10 Recognize and describe ictal patterns

Day 1.

    Epilepsy Semiology (4 Hrs):

        1. Glossary and medical terminology (1 Hr): Ali A. Asadi-Pooya

        2. Classification of epilepsies and seizure semiology (2 Hrs): Ali A. Asadi-Pooya

        3. Case presentation and group discussions (1 Hr): Ali A. Asadi-Pooya & Mohsen Farazdaghi

Day 2.

    EEG in children and adults (4 Hrs):

        1. Background Rhythms (30 min): Sofia Kasradze

        2. Normal EEG in wakefulness & sleep (30 min): Sofia Kasradze

        3. Artifacts (30 min): Mohsen Farazdaghi

        4. Normal EEG variants (30 min): Mohsen Farazdaghi

        5. Activation Methods (30 min): Mohsen Farazdaghi

        6. Epileptiform EEG Abnormalities (interictal) (1.5 Hr): Hamid Nemati

Day 3.

    EEG in children and adults (4 Hrs):

        1. Epileptiform EEG Abnormalities: ictal (1 Hr): Mohsen Farazdaghi

        2. Generating an EEG report (1 Hr): Hamid Nemati

        3. Case presentation and group discussions (2 Hrs): Sofia Kasradze & Hamid Nemati