



## Diagnostic value of long-term video-EEG monitoring in children with refractory absence epilepsy

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### Abstract:

**Objective:** Absence seizures are commonly seen in a few pediatric genetic generalized epilepsy syndromes including childhood and juvenile absence epilepsies (CAE, JAE), absence with eyelid myoclonias (EMA-EM or Jeavons syndrome), atypical absence seizures as a component of Lenox-Gastaut syndrome(LGS). Here, we report the clinical and electroencephalographic features of patients with refractory absence epilepsies.

**Methods:** Twenty-five children referred with refractory absence epilepsy were retrospectively enrolled from more than 1100. We have used tow digital VEEG instruments with the international 10-20 system and standard montages. Patients and their Clinical history and VEEG recordings were studied to find data including age, sex, seizure types, electrographic features, and family history of epilepsy.

**Results:** After using exclusion criteria, we had 16 patients that 4 patients had CAE and 2 had atypical absence epilepsy (AAE) and 10 had EMA-EM. Focal interictal SWD (spike-wave discharges) was seen in both atypical absence patients (100%), 2 (50%) patients of CAE, and 7 (70%) patients EMA-EM. Focal ictal onset was seen in 1 (25%) of CAE patients and one (10%) of EMA-EM patients.

**Conclusion:** EMA-EM should be considered in refractory childhood absence epilepsy and video-EEG recording is a useful method if EMA-EM is suspected. All EMA-EM and atypical absence patients were diagnosed after long-term EEG-monitoring(LTM).

**Significance:** Focal interictal and ictal onset might be recorded in generalized epilepsy especially in CAE which the importance of this issue should be considered in future investigations.

**Keywords:** absence epilepsy, Jeavons syndrome, atypical absence, focal seizure onset, focal interictal epileptic discharge, LTM, EEG monitoring, V-EEG



### Biography:

Alireza Rezaei is a child Neurologist & Clinical Neurophysiologist and specialized Epileptologist. Currently working in Tehran University of Medical sciences in Iran. He completed his education from Shahid Beheshti of Medical Sciences and Health sciences. He has a interest about Neurophysiology and refractory epilepsy so he started fellowship of clinical neurophysiology and epilepsy at children's medical hospital in Tehran.

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