

Short Report

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Ping-pong gaze in a refractory focal status epilepticus

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Abstract

An 83-year-old woman presented to emergency department with fever, low level of consciousness and right deviation in the conjugate gaze. Neurological examination revealed a spontaneous, slow, horizontal and continuous conjugate eye deviation alternating every 2 to 3 seconds. An electroencephalogram revealed periodic paroxysmal activity with a frequency of 2-3 Hz in left frontal hemispheric. Neuroimaging didn't show pathological findings. Polymorphonuclear leukocytes were observed in CSF without evidence of microorganisms.

Antiepileptic therapy was started without improvement. Finally, the patient died because of refractory focal status.

Ping Pong Gaze (PPG) is a slow and rhythmical horizontal abnormal eye movement with a fixed frequency that is observed in comatose states and indicates diffuse structural brain lesions with preserved brainstem functions. PPG presence is an indicator of bad prognosis.

We describe a PPG case with a synchronous eye movement with the electroencephalogram activity.

Keywords: Ping-pong gaze; status epilepticus; electroencephalography; epilepsy; seizure.

Short report

An 83-year-old woman with a history of multiple episodes of transient alteration of the speech, which was attributed to transient ischemic attacks was presented at emergency department because of low level of consciousness accompanied by right eye deviation, and fever. Neurological examination revealed bilateral unreactive mydriasis with spontaneous, slow, horizontal and continuous conjugate eye deviation alternating every 2 to 3 seconds (Supplementary file video 1). She also had left hemiparesis. The computed tomography scan showed global atrophy and multiples chronic lacunars strokes.

A non-convulsive status epilepticus was suspected and an Electroencephalogram (EEG) was requested. It showed a semi-periodic paroxysmal activity with a frequency of 2-3 Hertz in left frontal hemispheric (Figure 1). During the EEG recording, diazepam was administrated intravenously, which caused a change of the EEG pattern for 45 seconds. This change was linked to a suppression of the horizontal abnormal alternating ocular movement. After this transient period, the left frontal discharges were observed again.

