

**EEG Report  
Temporary Copy****Page 1 of 2**Case: EG-09-0002867  
Collected: 07/13/2009 11:14 EDT  
Ordered by: DARRAS MD, BASIL TPatient: VONTUNGELN, RACHEL  
ID: 425-37-28  
Location: CHB

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**EEG REPORT**

This procedure was requested by Dr. Basil T Darras at Children's Hospital Boston.

Rachel is a 9 year old right handed female who is developmentally delayed with characteristics of autism spectrum disorder, ADHD and anxiety. There are no clinical seizures. This EEG is being performed to evaluate for epileptiform activity.

Medications:None  
Previous EEGs:No  
Exam room:Lab 3

**PROCEDURE**

A 21 channel digital electroencephalogram was performed in the Clinical Neurophysiology Laboratory. The 10/20 International System of electrode placement was used and both bipolar and referential electrode montages were monitored. The patient was sleep deprived. No sedation was administered. The patient was recorded during the waking drowsy and sleep states. The recording time was 35 minutes.

**DESCRIPTION**

During the awake state with eyes closed, the background consists of a 7-8 Hz posterior dominant rhythm with an amplitude of 85 microvolts, which attenuates appropriately with eye opening. The posterior dominant rhythm is symmetric.

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There is a well developed anterior-posterior gradient.

This is a drowsy and sleep recording.

Hyperventilation was not performed.

Photic stimulation showed driving between 25-30 Hz.

During awake recording there was Fp2 sharp waves and spikes.

There are also generalized bifrontal spikes, left>right bifrontal spikes and intermittent left frontal 3 Hz rhythmic slowing.

A prolonged Lead I EKG rhythm strip revealed normal sinus rhythm at 90 beats/minute.

**INTERPRETATION**

This EEG is abnormal due to:

1. Frequent bifrontal independent spikes left>right.
2. Background is slow for this age.

**CLINICAL CORRELATION**

This EEG is suggestive of an active seizure disorder of generalized onset of mechanism. The background slowing is consistent with generalized encephalopathy.

Muruvet Elkay, M.D.  
Epilepsy Fellow

I, the teaching physician, have reviewed this EEG recording with the fellow and agree with the findings above.\_

William, Christine/CW  
07/14/09

BOURGEOIS MD, BLAISE  
(electronic signature)