

Routine EEG examination used in this study (without feedback).

Routine EEG Test

Introduction

You are being invited to participate in an EEG education study led by Fabio Nascimento, Roy Stroud, Samantha Yap, Rebecca Fasano, Stefan Rampp, William Tatum, and Sandor Beniczky whose purpose is to obtain a baseline knowledge about routine EEG (rEEG) findings among trainees. All information will be collected anonymously and cannot be linked back to you.

This rEEG test comprises 30 multiple choice question and contains both normal and abnormal EEG findings.

Please note that you may zoom in and out EEGs by using zoom settings in your web browser.

1. By clicking "I agree" below you are indicating that you have read and understood the instructions above and agree to participate in this educational program, whose anonymized findings will be analyzed and subsequently published.

I agree

I disagree

Routine EEG Test

* 2. What country are you from?

* 3. What is your profession?

Medical student

Adult neurology resident

Pediatric neurology resident

EEG/epilepsy clinical fellow

Other (please specify)

Routine EEG Test

Medical Student Year

4. What year of training are you in?

- 1st year (MS1)
- 2nd year (MS2)
- 3rd year (MS3)
- 4th year (MS4)
- 5th year (MS5)
- 6th year and above (MS6 and above)

Routine EEG Test

Adult or Pediatric Neurology Resident

5. What year of training are you in?

- Postgraduate year 1 (PGY1)
- Postgraduate year 2 (PGY2)
- Postgraduate year 3 (PGY3)
- Postgraduate year 4 (PGY4)
- Postgraduate year 5 (PGY5)
- Postgraduate year 6 and above (PGY6 and above)

6. How many weeks dedicated to EEG learning have you undergone in your training?

- 0
- 1-4
- 5-8
- 9-12
- >12

Routine EEG Test

Level of Confidence

* 7. What is your level of confidence identifying each of the findings on EEG independently/without supervision?

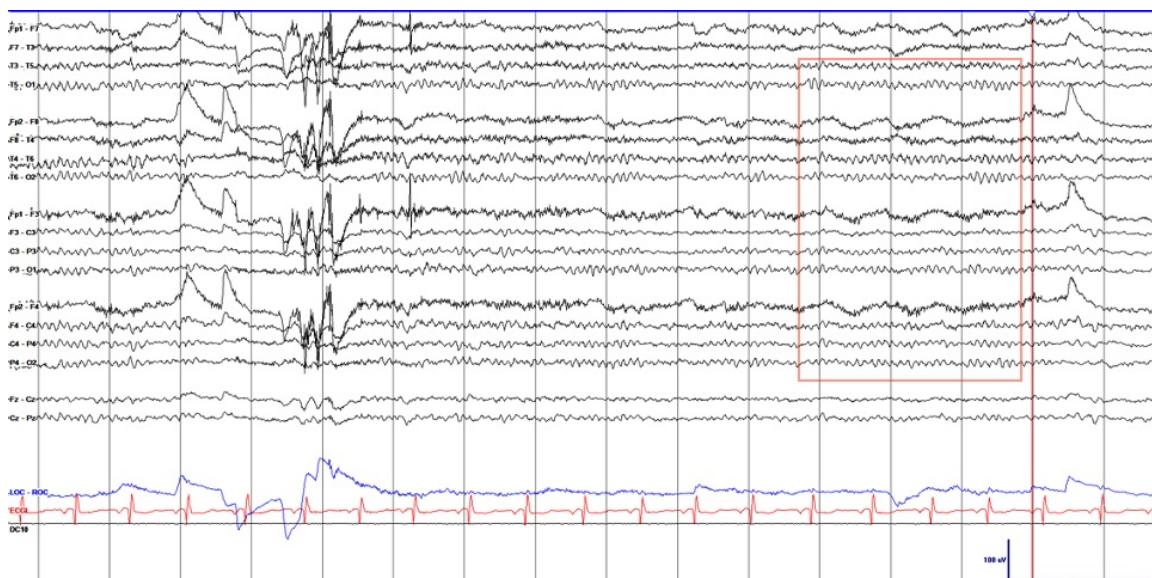
	Not at all confident	Only slightly confident	Somewhat confident	Moderately confident	Very confident
States of wakefulness and sleep	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sleep structures (such as vertex waves, sleep spindles, and K-complexes)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Normal variants (such as wickets, small sharp spikes, and posterior slow waves of youth)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Artifacts (such as EKG artifact, lateral rectus spikes, and electro pop)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Routine EEG Test

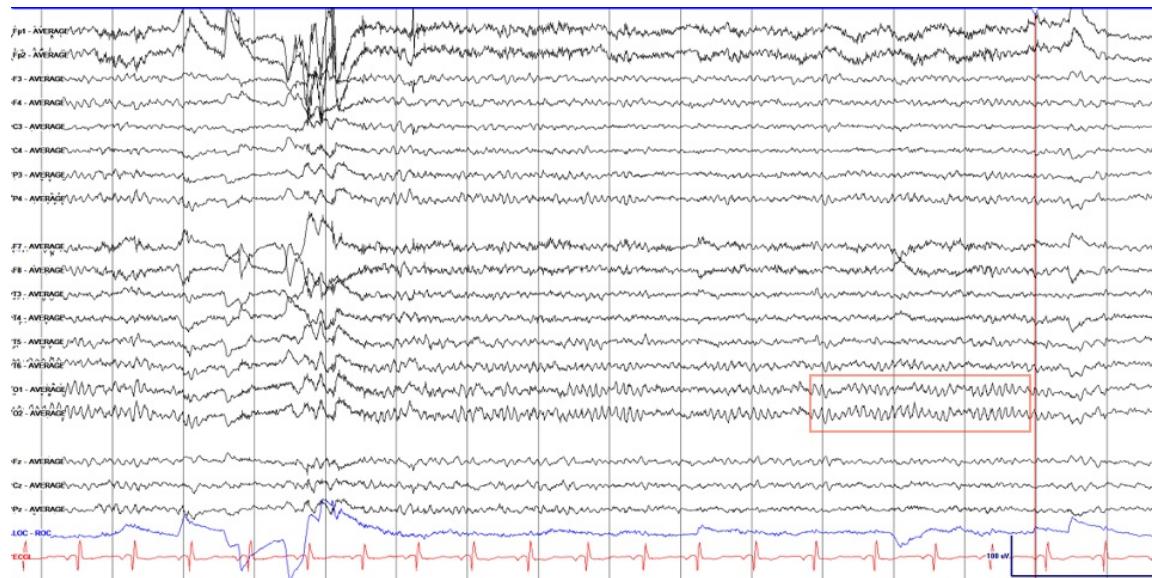
1) What finding/pattern is shown on the EEG below/within the red box?

This is an adult patient.

Bipolar



Average



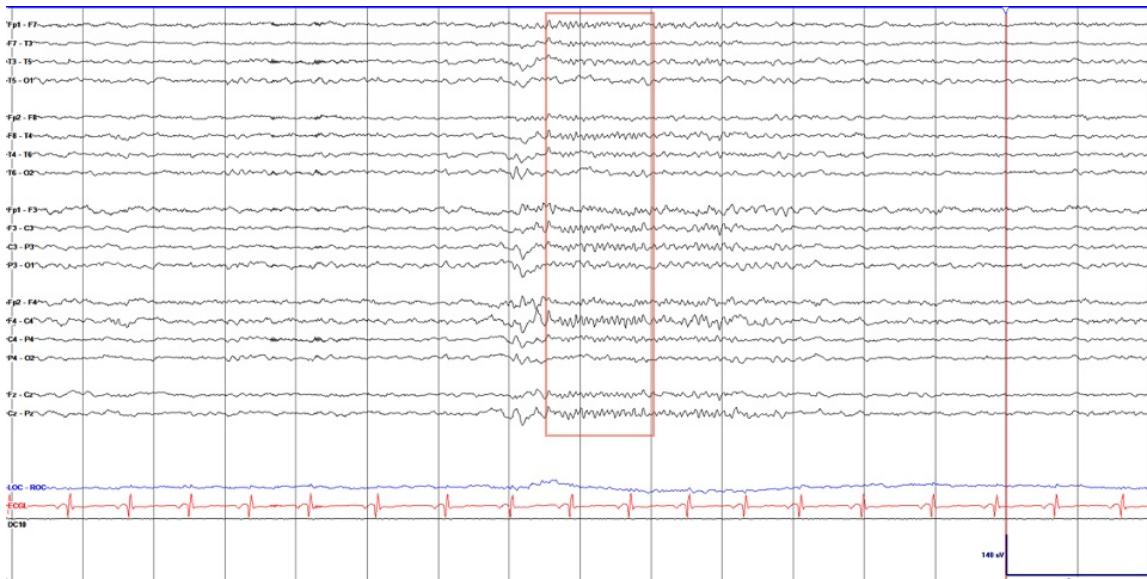
* 8. Please select correct answer.

- Normal posterior dominant rhythm (PDR)
- Mu ryhthm
- Posterior slow waves of youth
- Lambda waves
- Positive occipital sharp transients of sleep (POSTS)

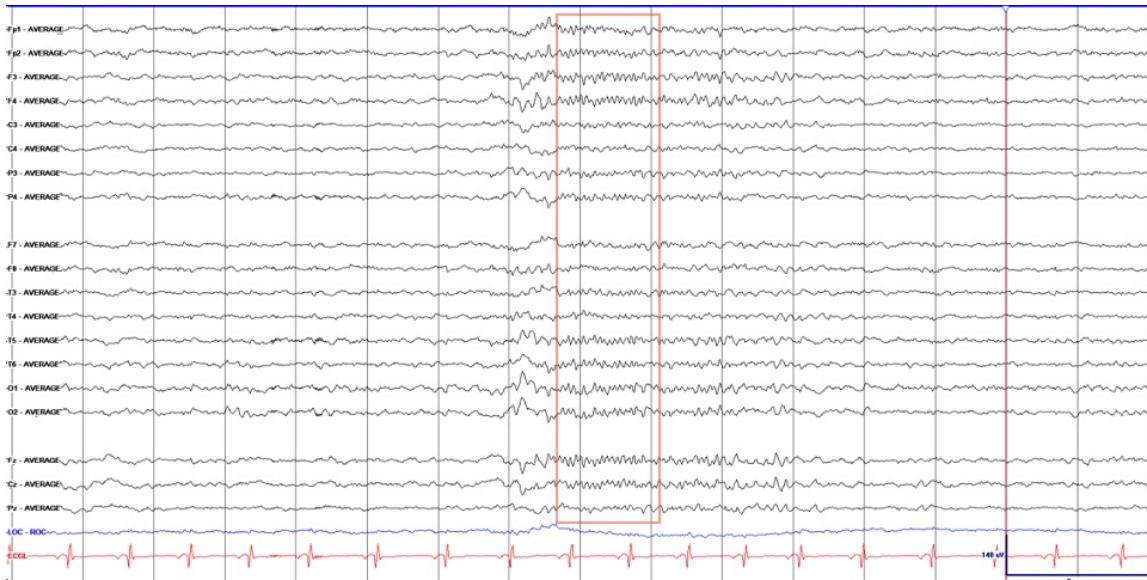
Routine EEG Test

2) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



* 9. Please select correct answer.

Generalized seizure

Sleep spindles

Mu rhythm

Breach rhyhtm

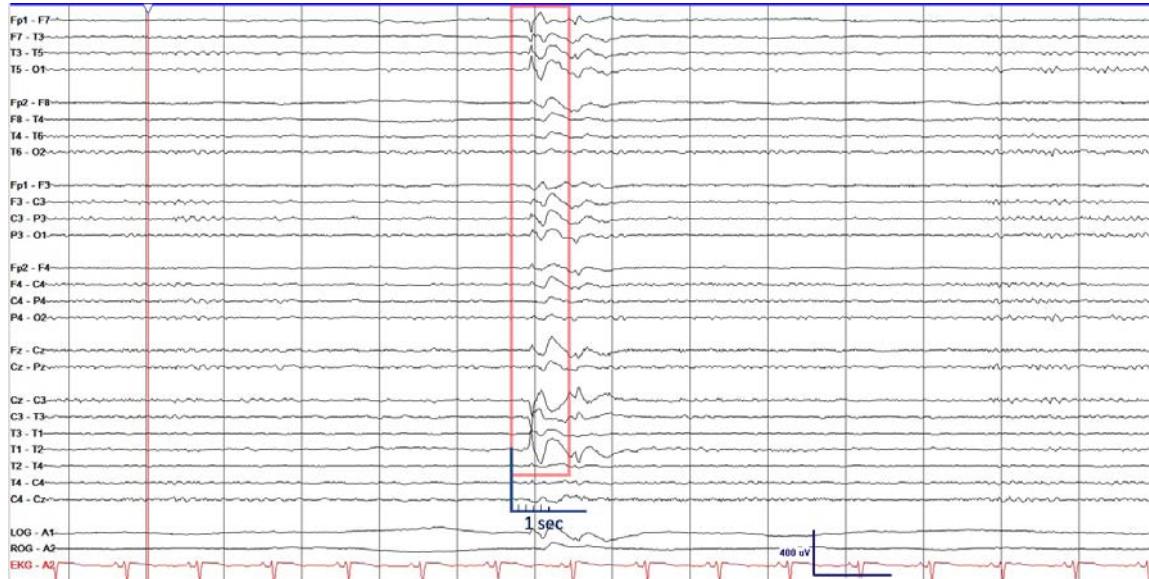
Focal seizure

Routine EEG Test

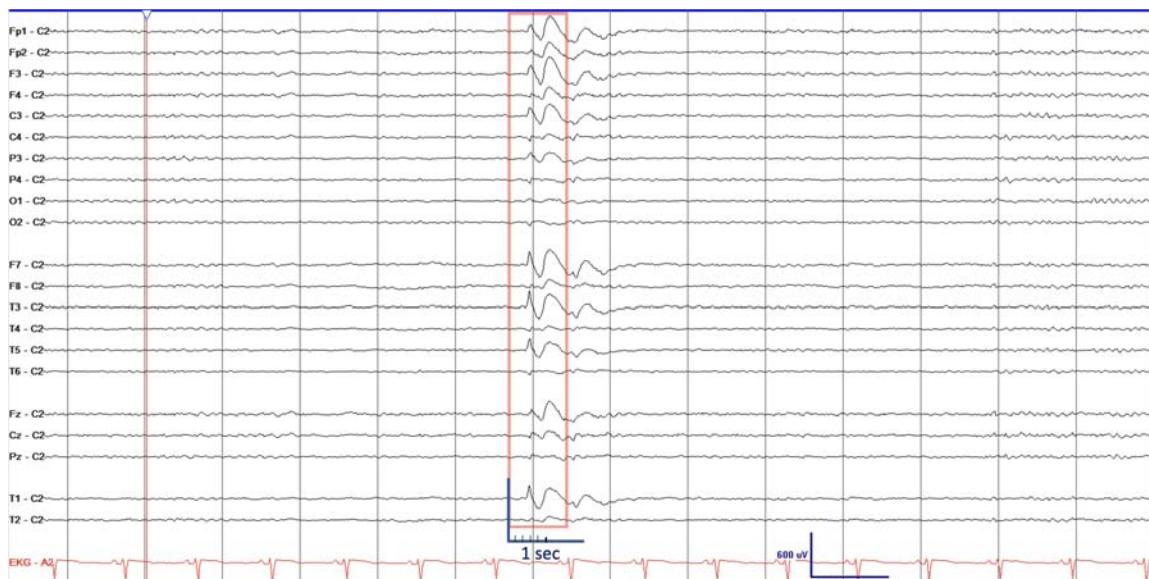
3) What finding/pattern is shown on the EEG below/within the red

box?

Bipolar



Average



* 10. Please select correct answer.

Myogenic artifact

Focal epileptiform discharges, spike

Wicket

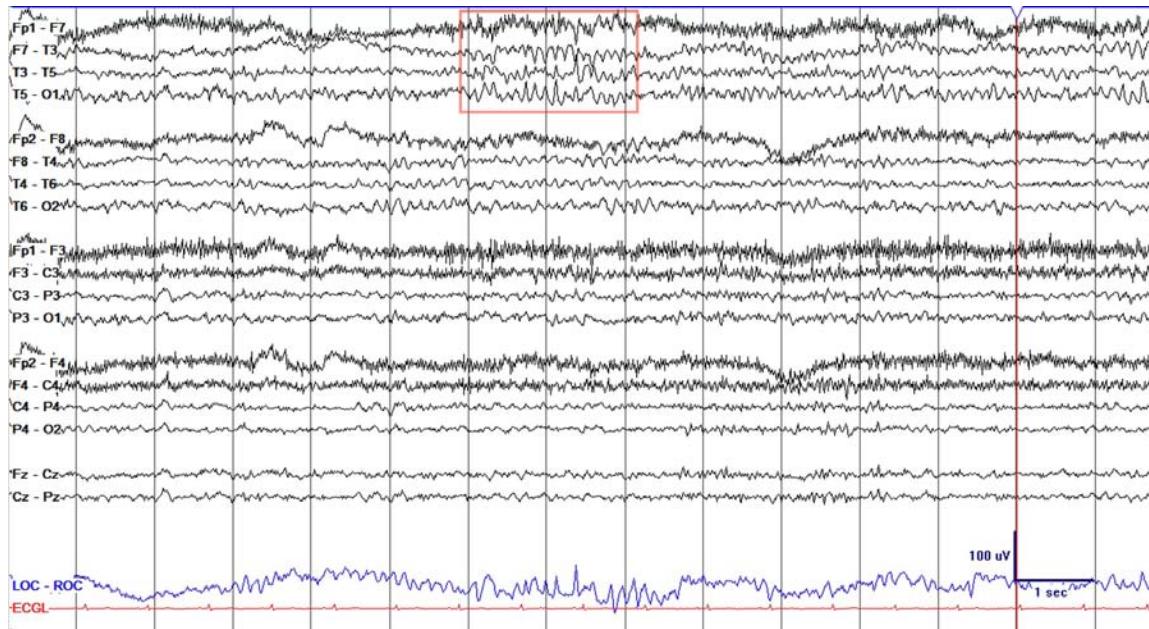
Focal epileptiform discharges, sharp

Sharp transient of the background/non-epileptiform

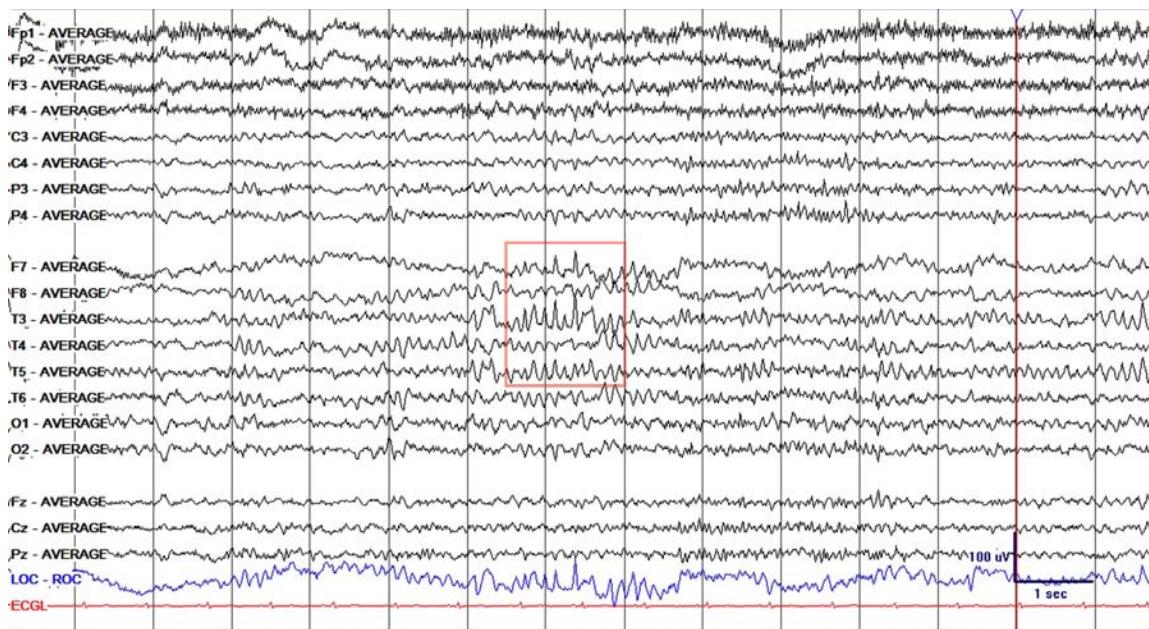
Routine EEG Test

4) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



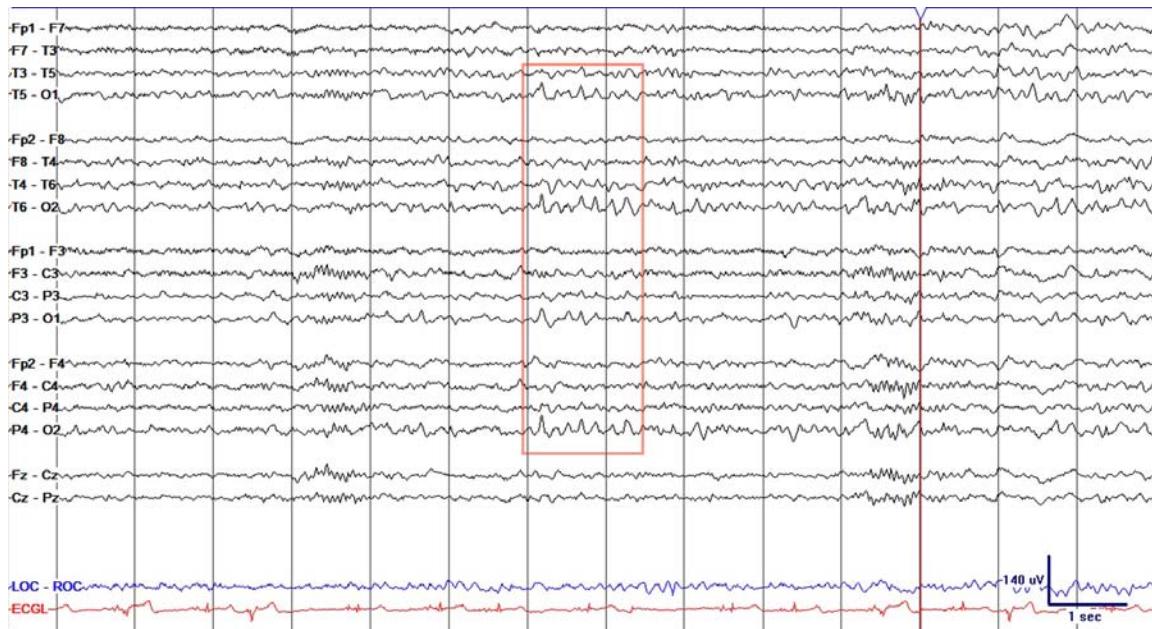
* 11. Please select correct answer.

- Focal epileptiform discharges, sharps
- Focal epileptiform discharges, spikes
- Wickets
- Focal seizure
- Mu rhythm

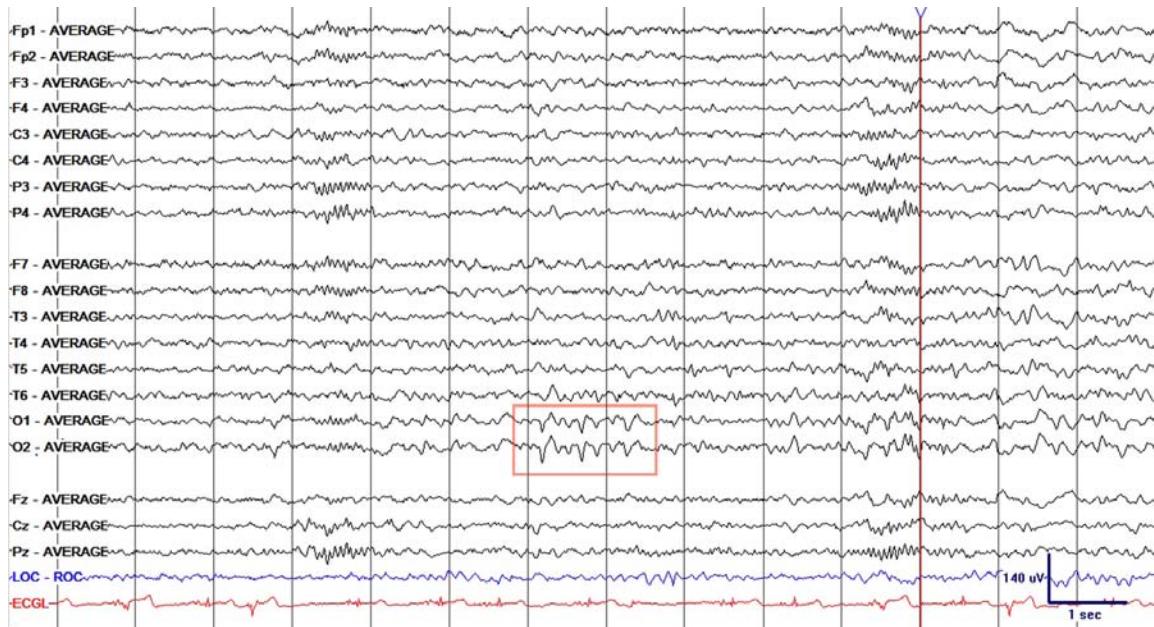
Routine EEG Test

5) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



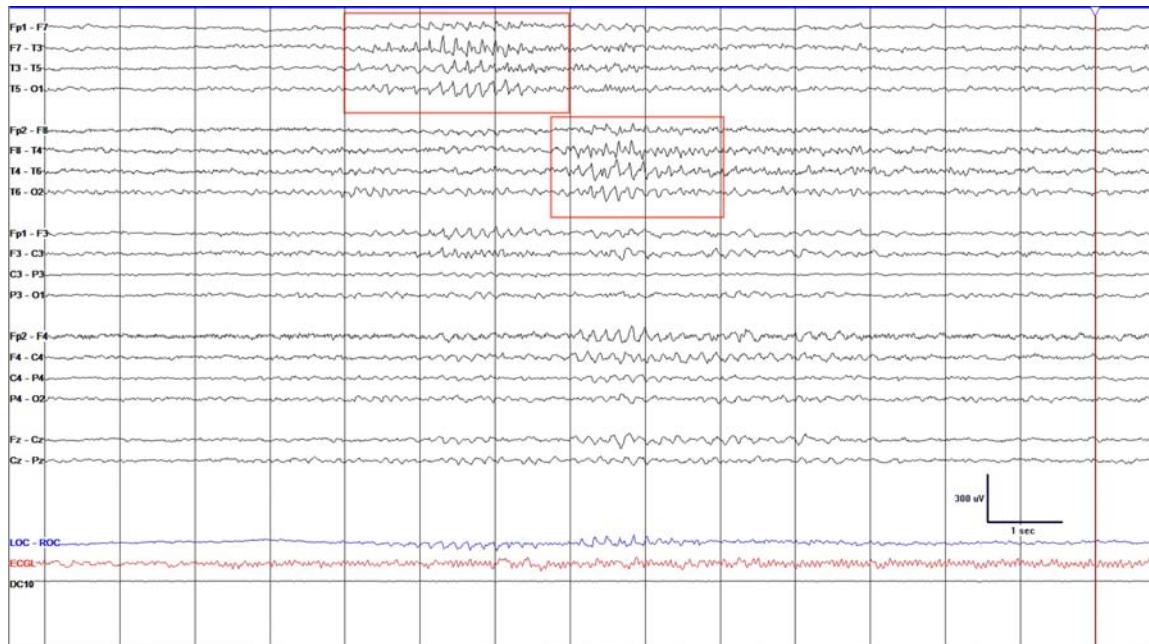
* 12. Please select correct answer.

- Vertex waves
- Positive occipital sharp transients of sleep (POSTS)
- Focal epileptiform discharges, spikes
- Lambda waves
- Occipital seizure

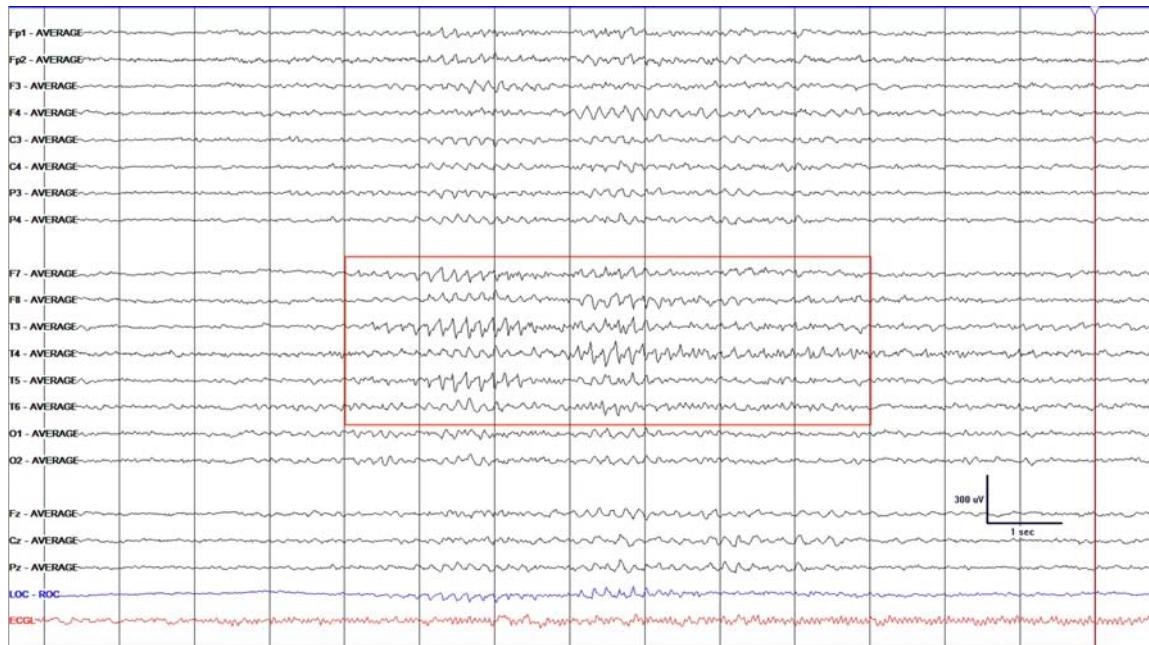
Routine EEG Test

6) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



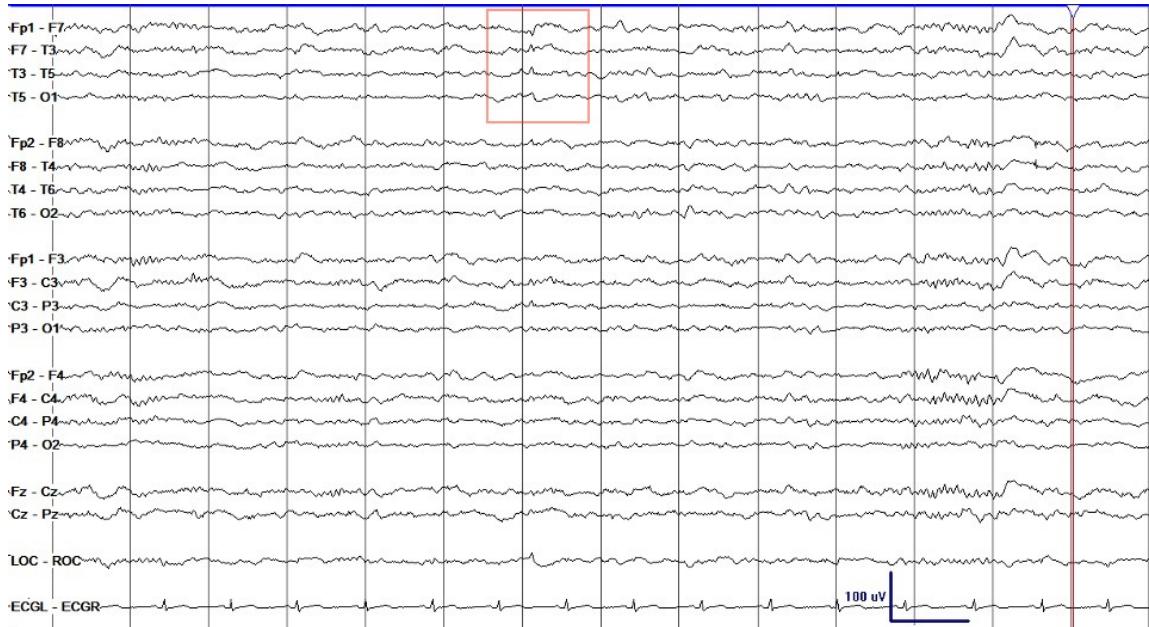
* 13. Please select correct answer.

- Midline theta rhythm (Ciganek rhythm)
- Myogenic artifact
- Mu rhythm
- Rhythmic mid-temporal theta of drowsiness (RMTD)
- Focal seizure

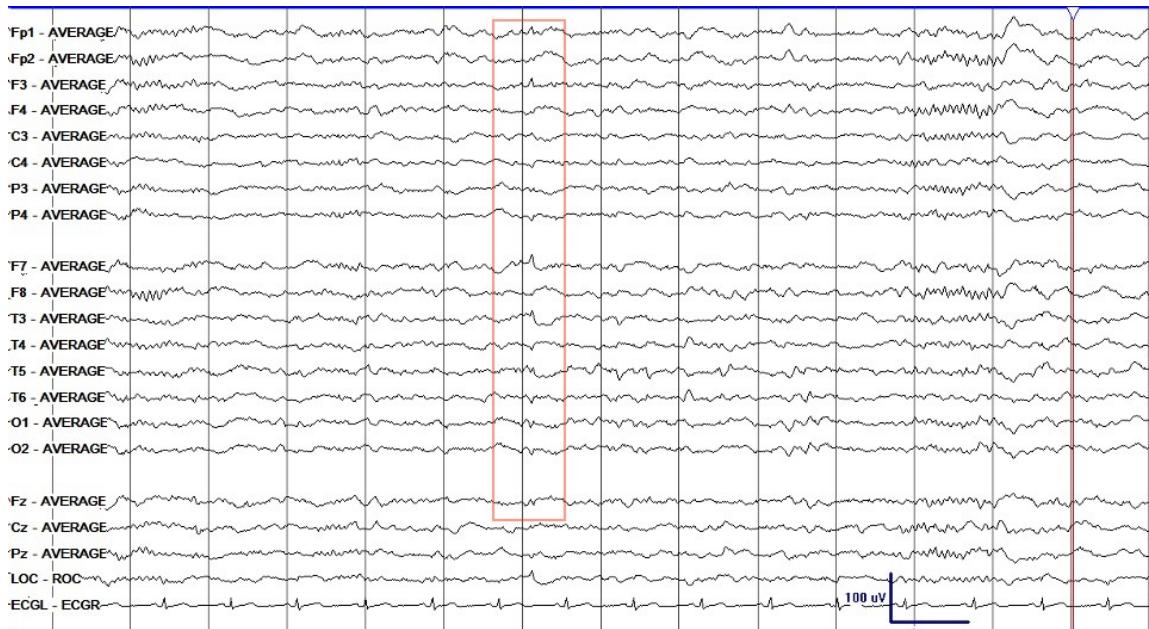
Routine EEG Test

7) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



* 14. Please select correct answer.

Lambda wave

Wicket

Myogenic artifact

EKG artifact

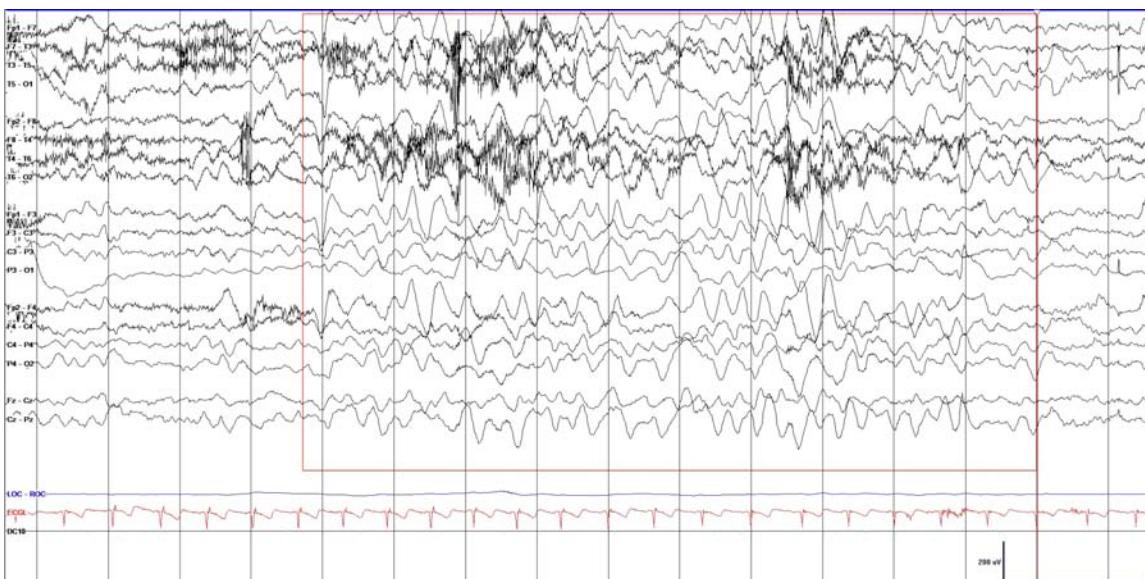
Small sharp spike

Routine EEG Test

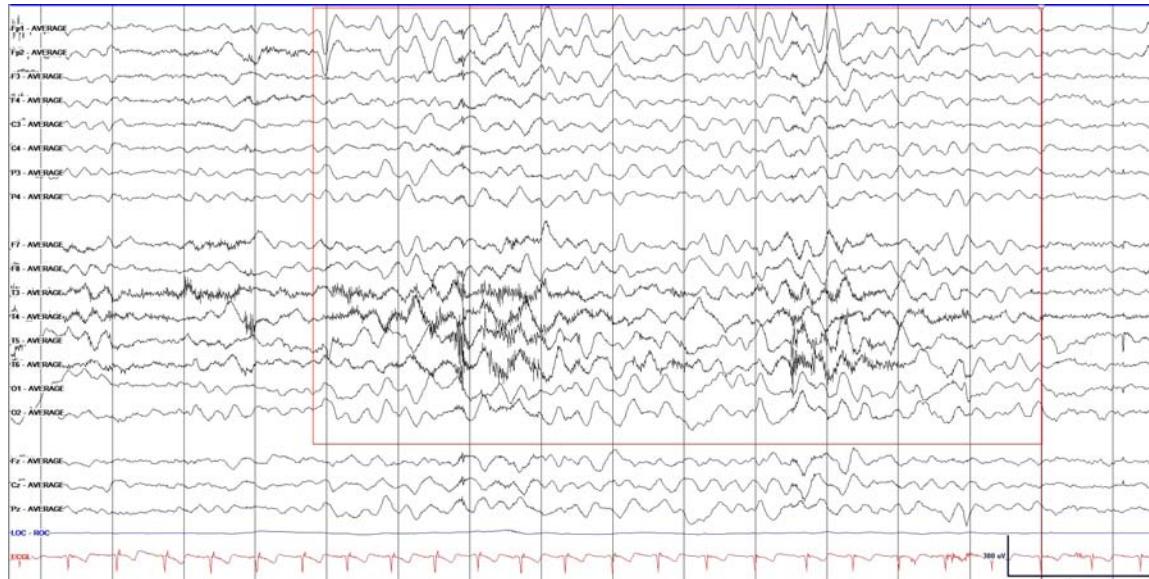
8) What finding/pattern is shown on the EEG below/within the red box?

Note: this pattern occurred 30-60 seconds after hyperventilation.

Bipolar



Average



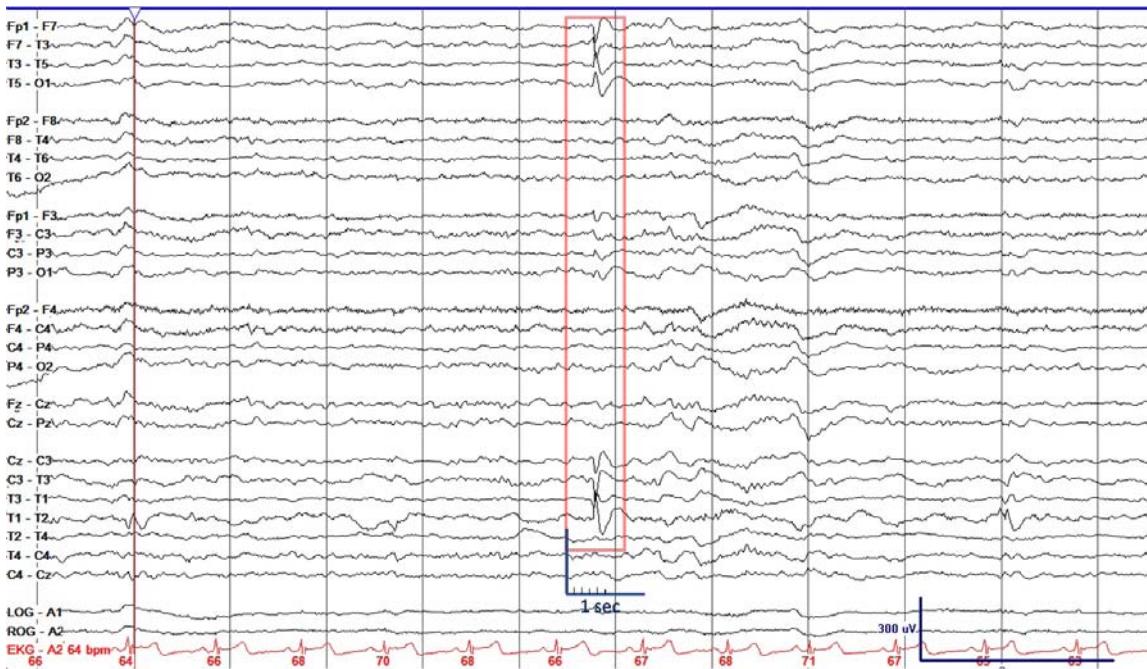
* 15. Please select correct answer.

- Photoparoxysmal response
- Hyperventilation-induced generalized slowing (normal pattern)
- K complexes
- Sweat artifact
- Myogenic artifact

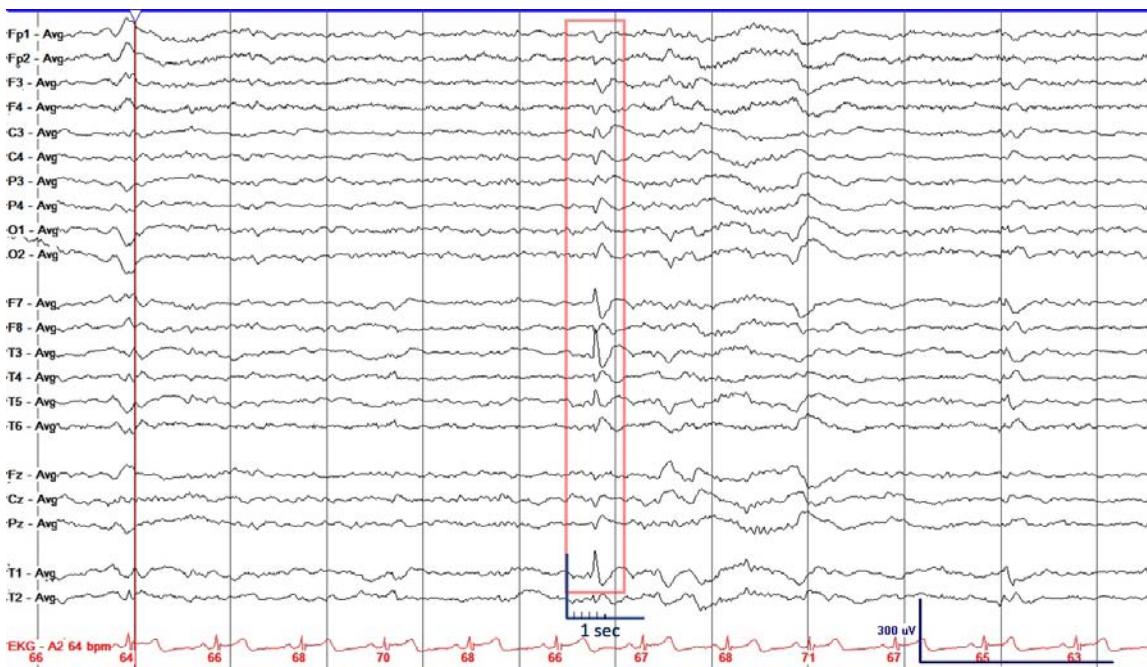
Routine EEG Test

9) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



* 16. Please select correct answer.

Wicket

Focal epileptiform discharge, sharp

Focal epileptiform discharge, spike

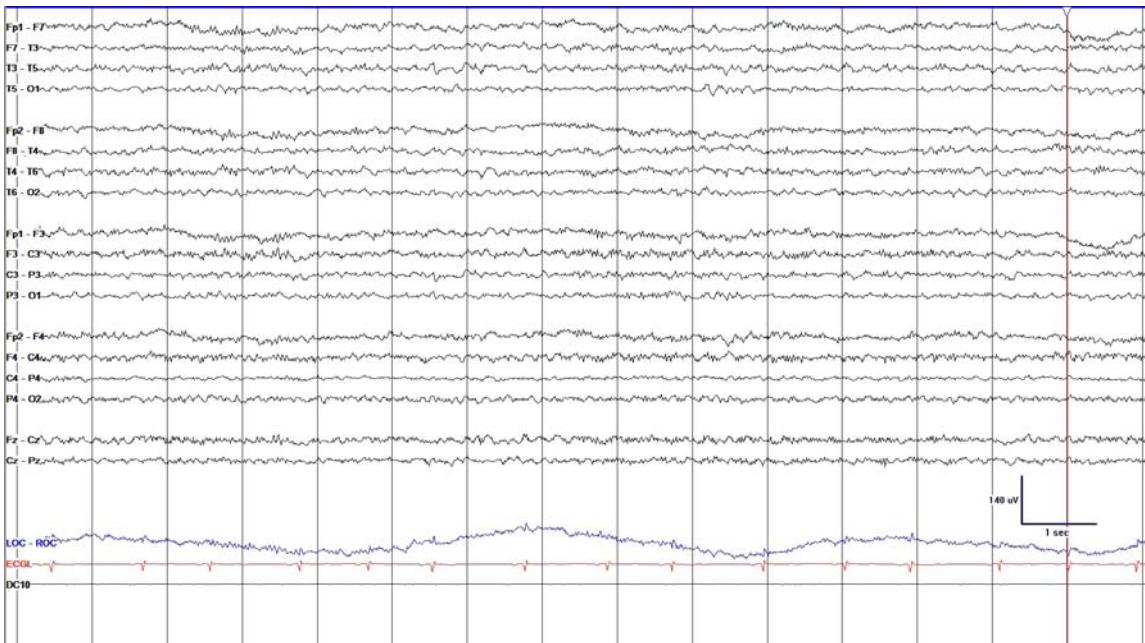
Myogenic artifact

Sharp transient of the background/non-epileptiform

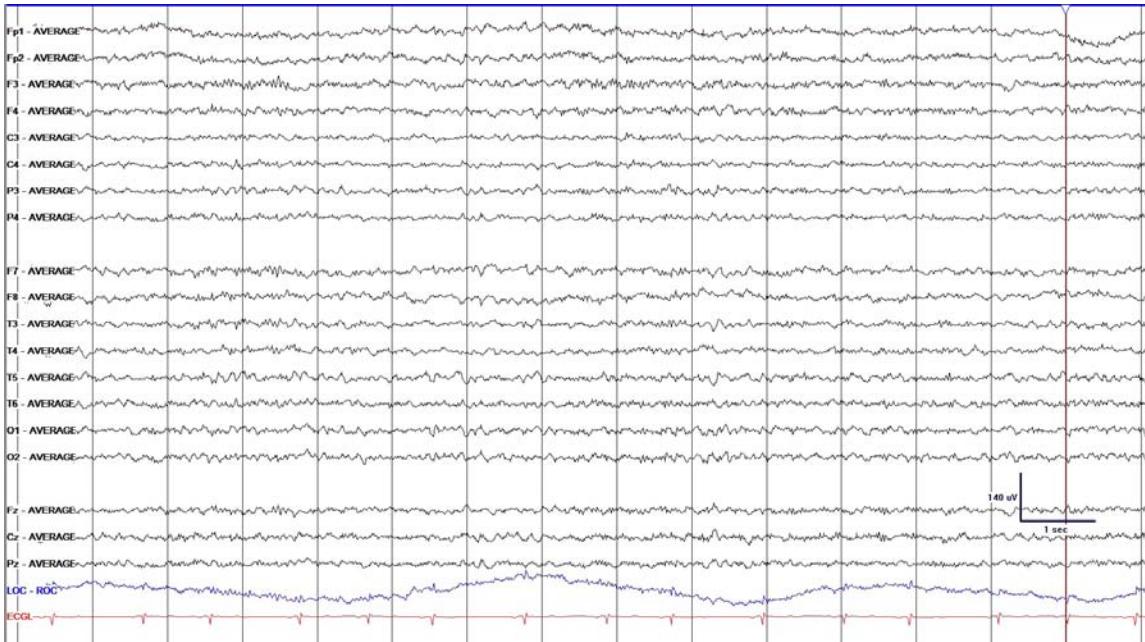
Routine EEG Test

10) What finding/pattern is shown on the EEG below?

Bipolar



Average



* 17. Please select correct answer.

Stage 3 sleep (NREM)

Drowsiness

Rapid eye movement (REM) sleep

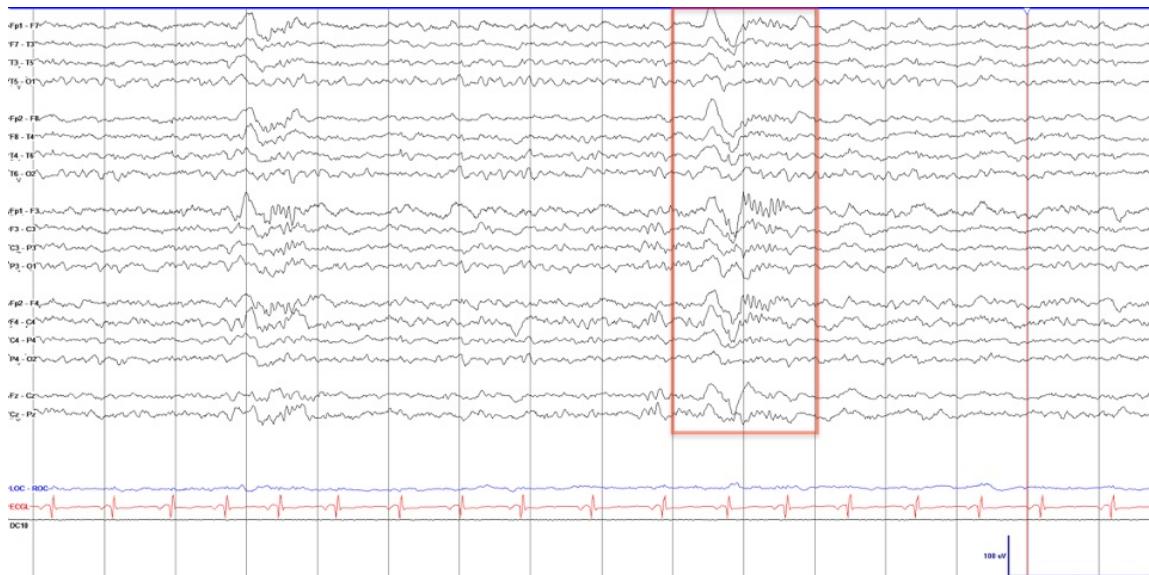
Wakefulness

Stage 2 sleep (NREM)

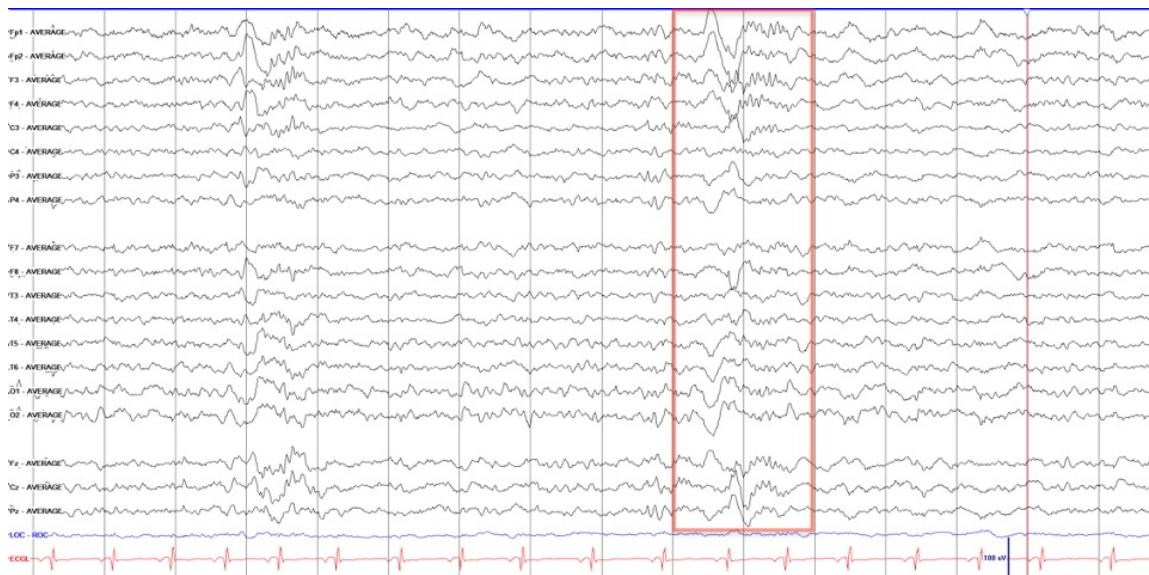
Routine EEG Test

11) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



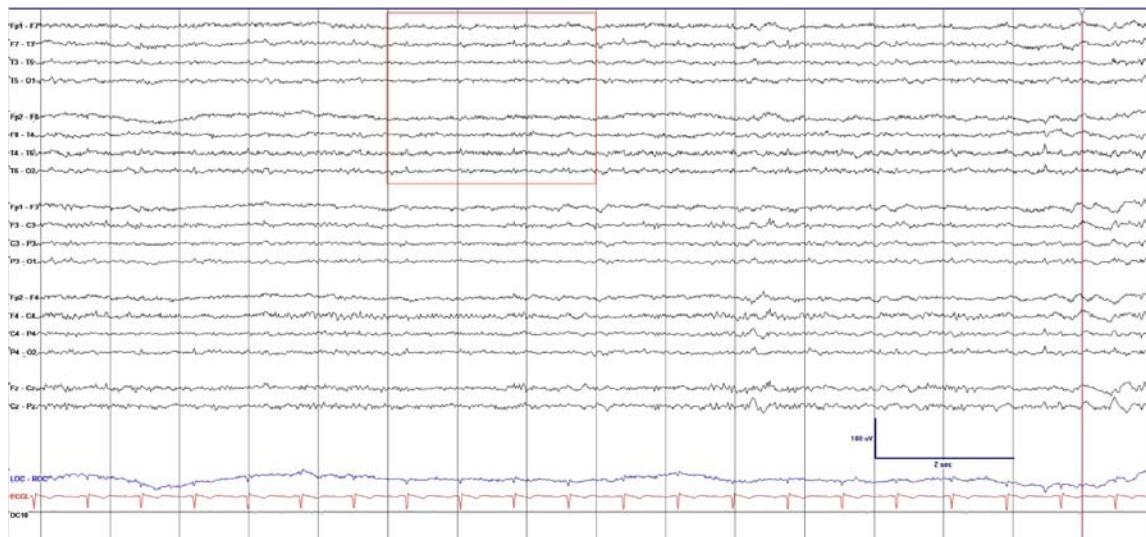
* 18. Please select correct answer.

- Generalized epileptiform discharge
- Vertex wave
- K complex
- Positive occipital sharp transient of sleep (POSTS)
- Generalized delta slowing

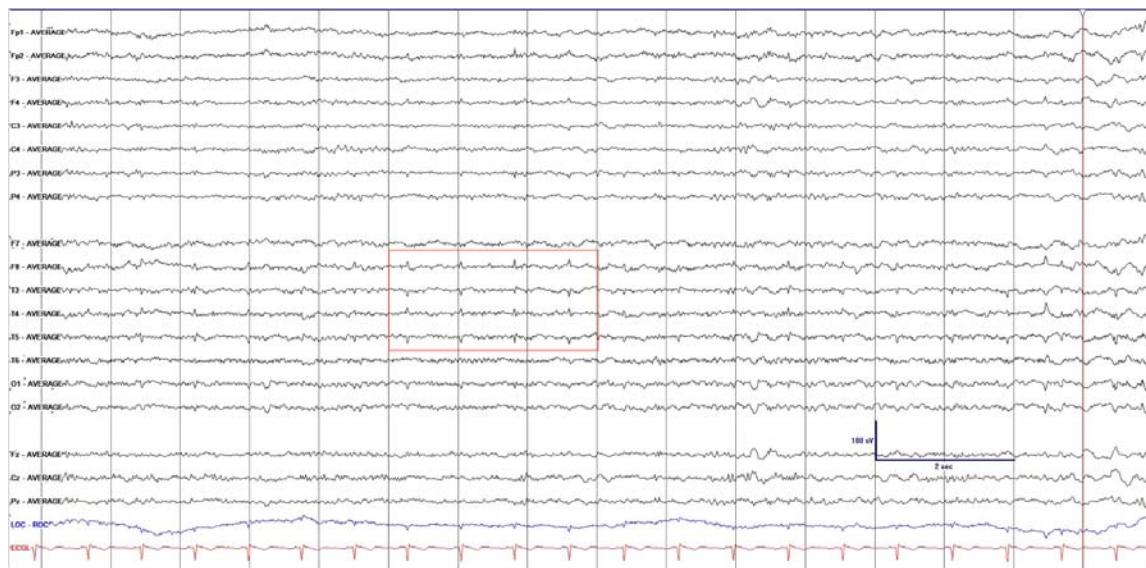
Routine EEG Test

12) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



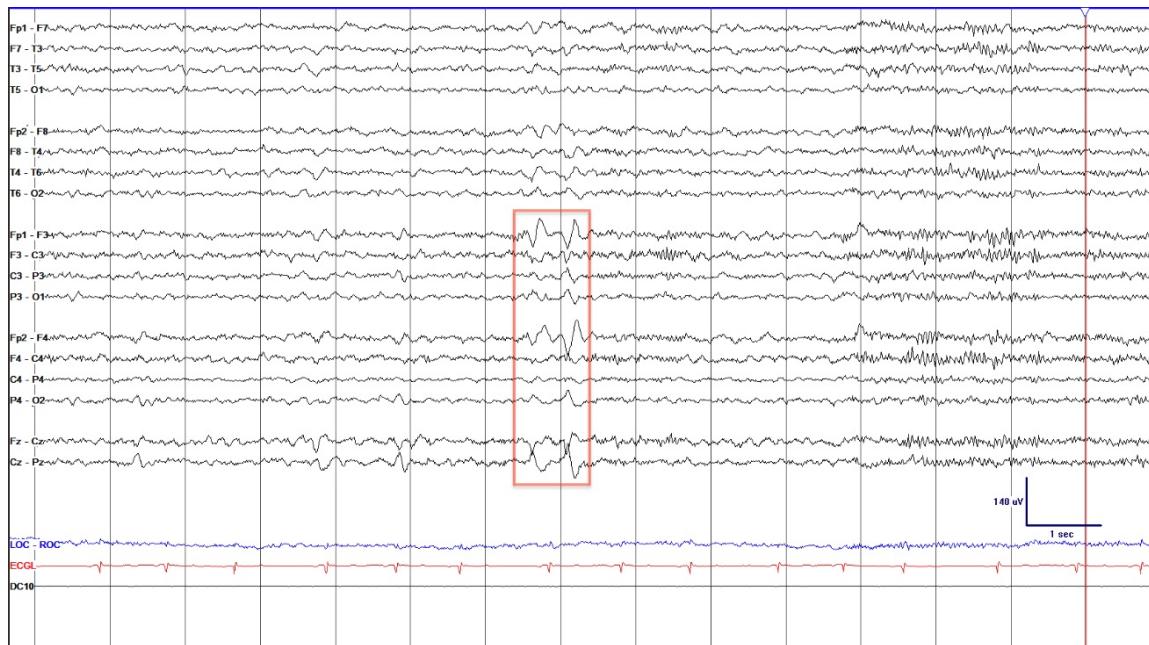
* 19. Please select correct answer.

- EKG artifact
- Focal seizure
- Focal epileptiform discharges, spikes
- Small sharp spikes
- Wickets

Routine EEG Test

13) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



* 20. Please select correct answer.

Vertex wave

Generalized epileptiform discharge

EKG artifact

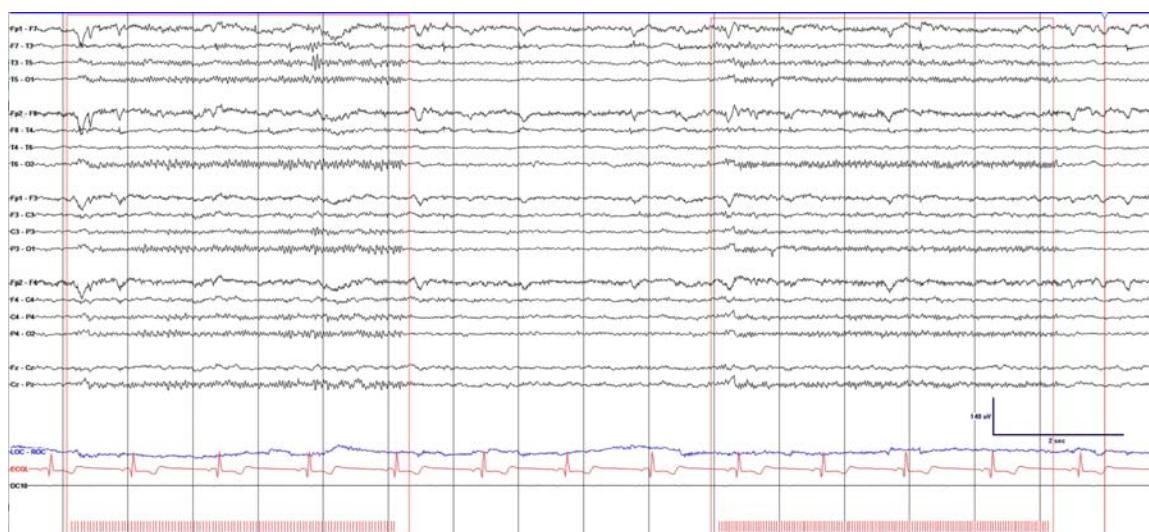
Focal epileptiform discharge, sharp

K complex

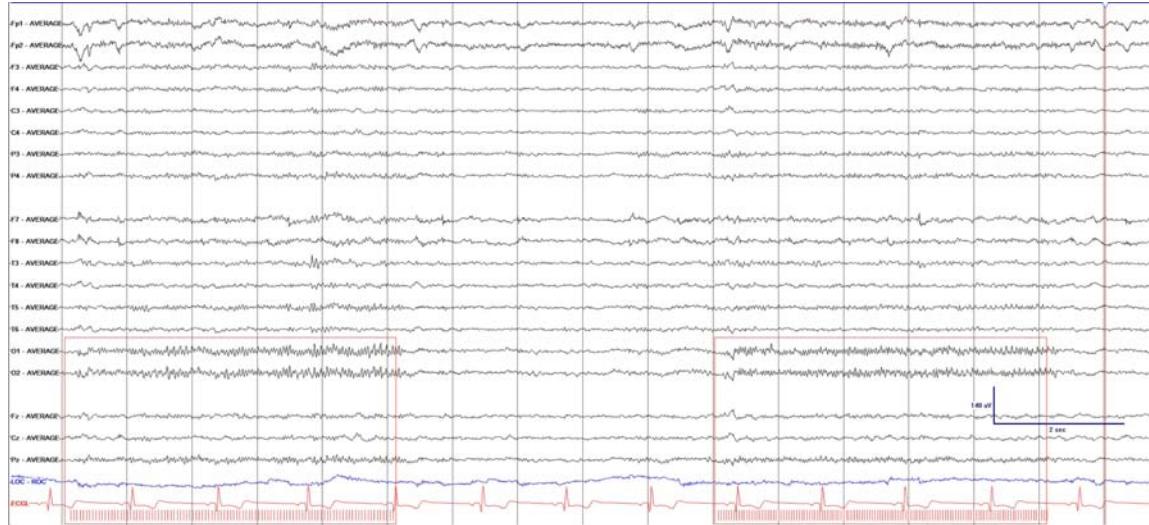
Routine EEG Test

14) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



* 21. Please select correct answer.

60 Hz artifact

Generalized epileptiform discharges

Generalized seizures

Focal epileptiform discharges, spikes

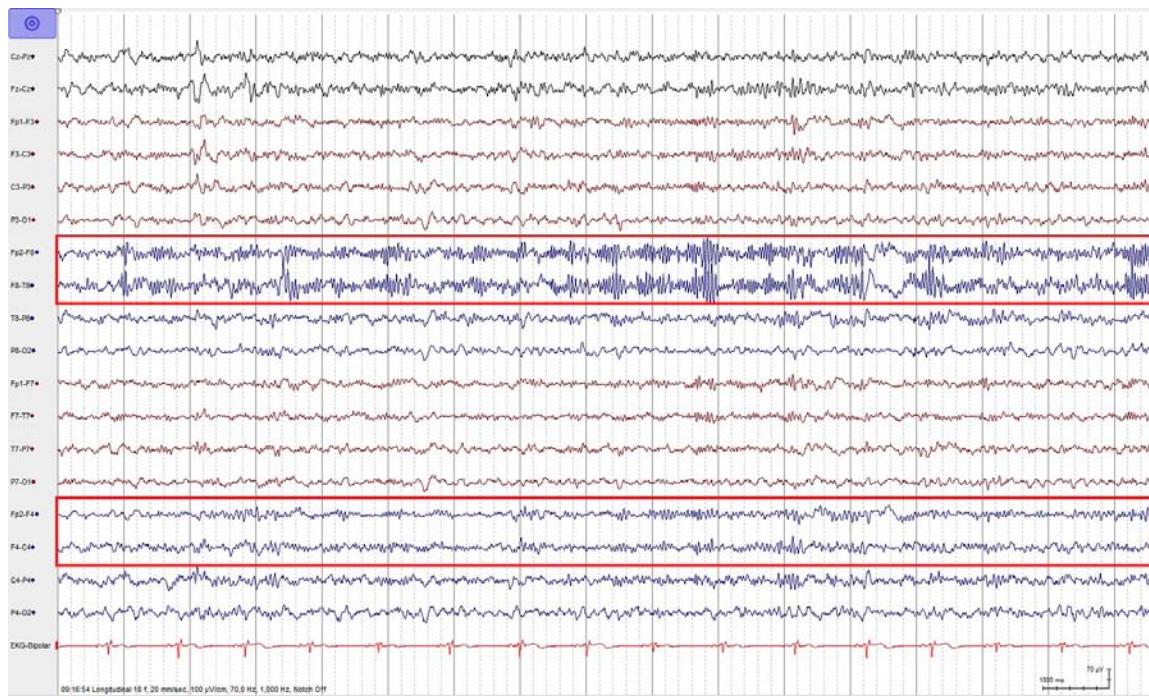
Photic driving

Routine EEG Test

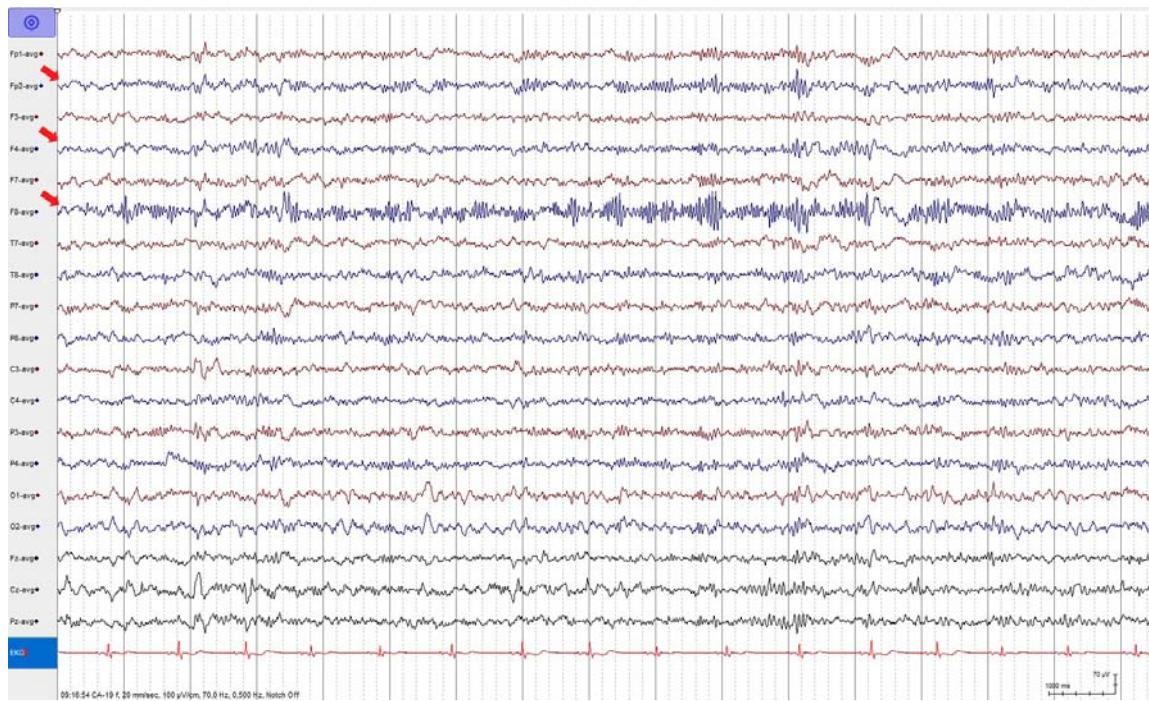
15) What finding/pattern is shown on the EEG below/within the red box?

This patient has a history of a prior craniotomy in the right anterior quadrant.

Bipolar



Average



* 22. Please select correct answer.

Myogenic artifact

Focal epileptiform discharges, spikes

Focal seizure

Breach

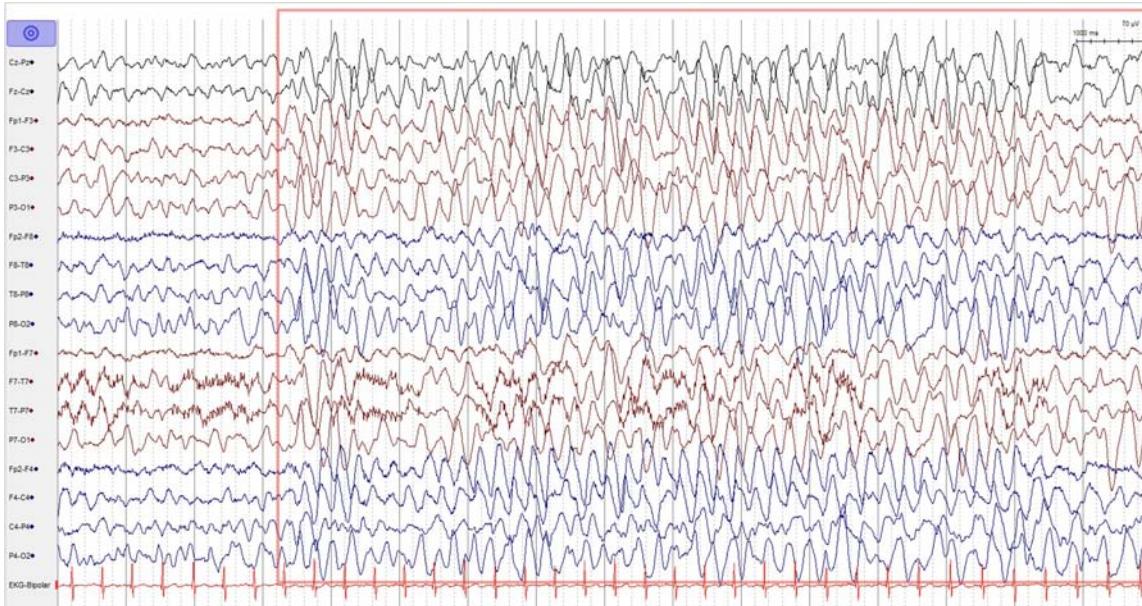
Focal epileptiform discharges, sharps

Routine EEG Test

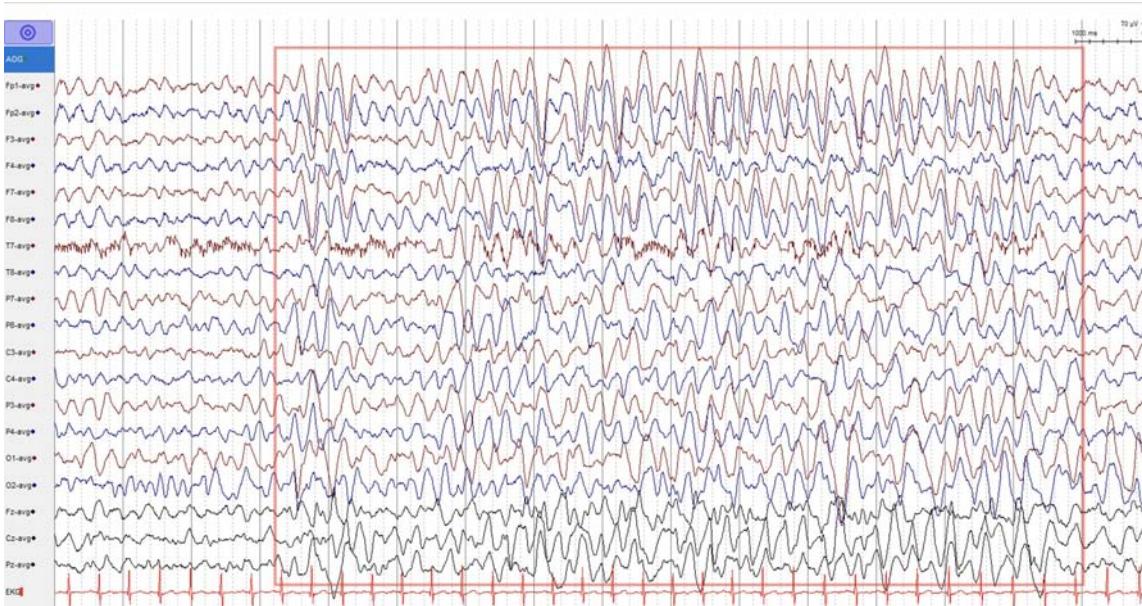
16) What finding/pattern is shown on the EEG below/within the red box?

This is a 6-year-old patient.

Bipolar



Average



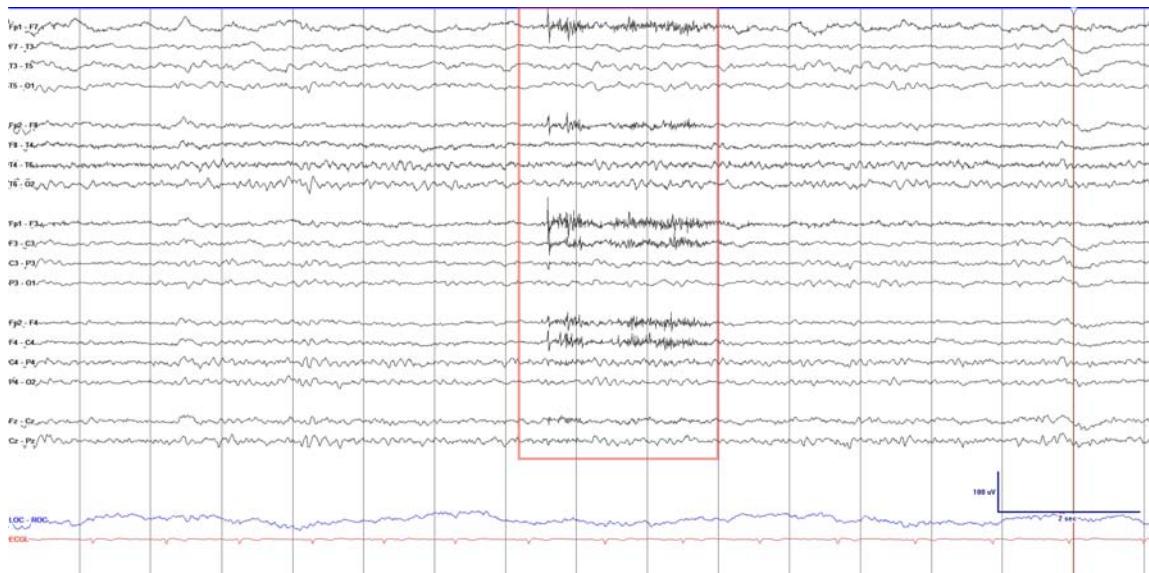
* 23. Please select correct answer.

- Patting artifact
- Hypnagogic hypersynchrony
- Excessive beta frequency
- Hypsarrhythmia
- Generalized seizure

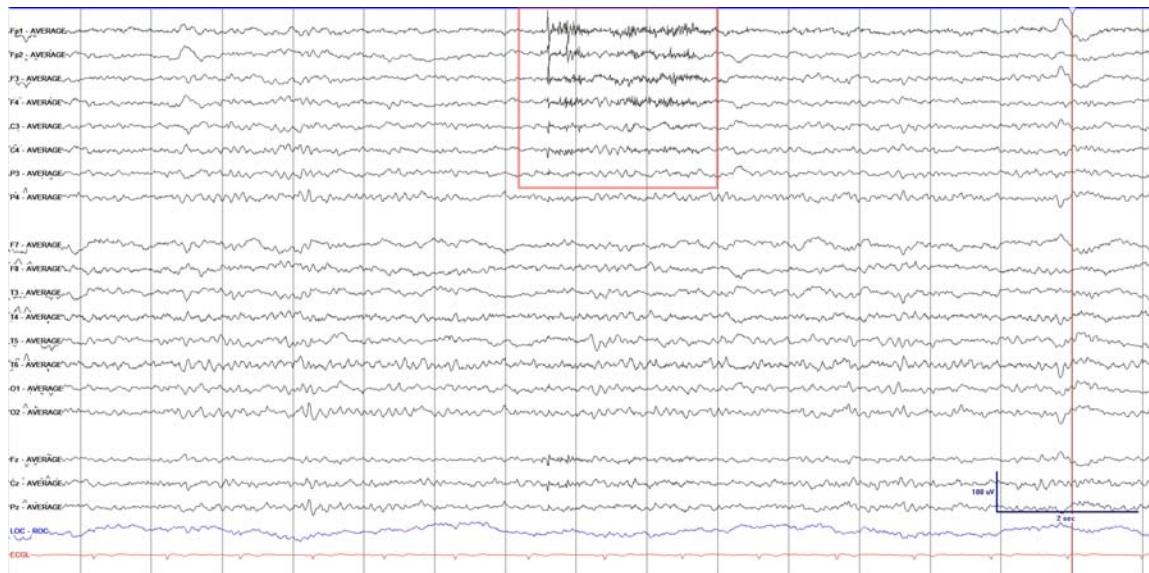
Routine EEG Test

17) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



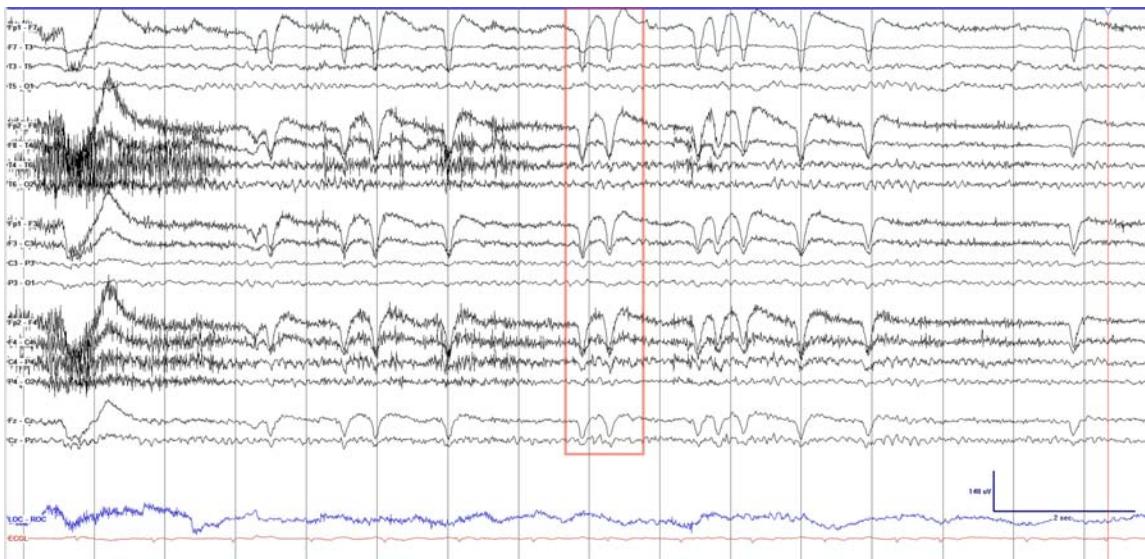
* 24. Please select correct answer.

- EKG artifact
- Generalized seizure
- Generalized polyspikes
- Wickets
- Myogenic artifact

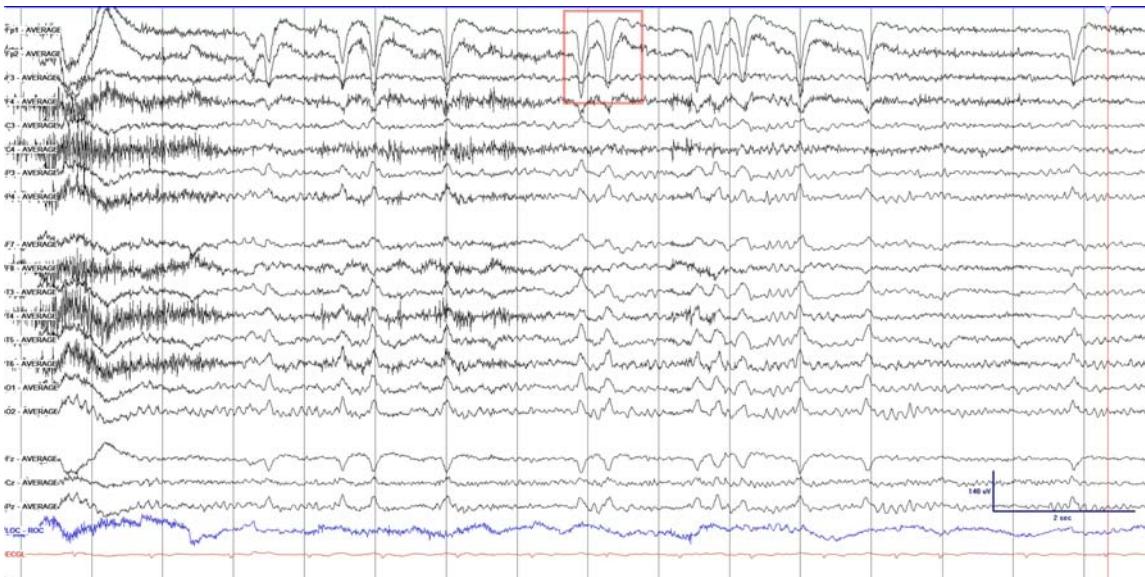
Routine EEG Test

18) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



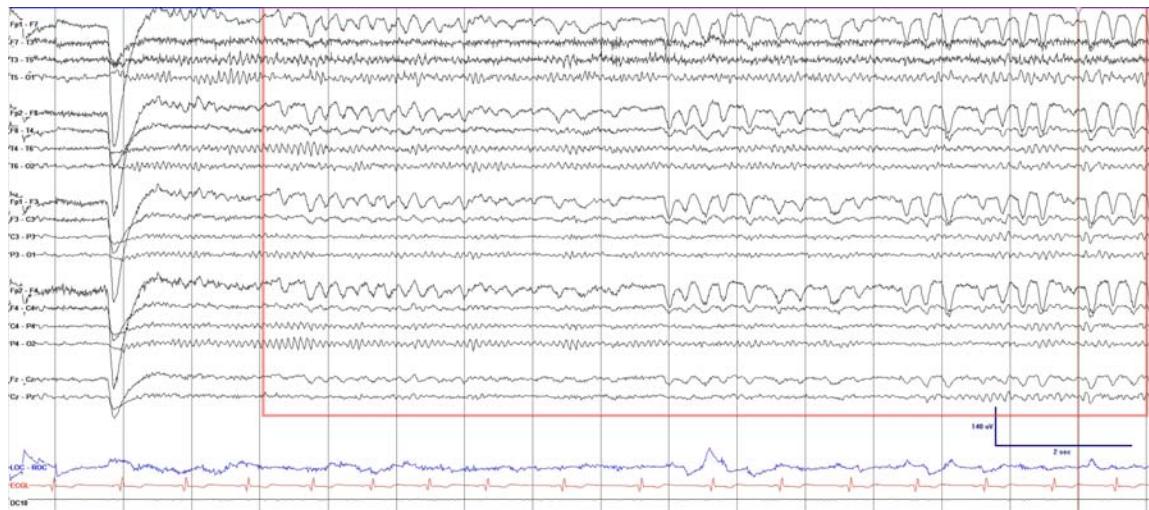
* 25. Please select correct answer.

- Eye blinks
- K complexes
- Generalized epileptiform discharges
- Vertex waves
- Generalized irregular delta slowing

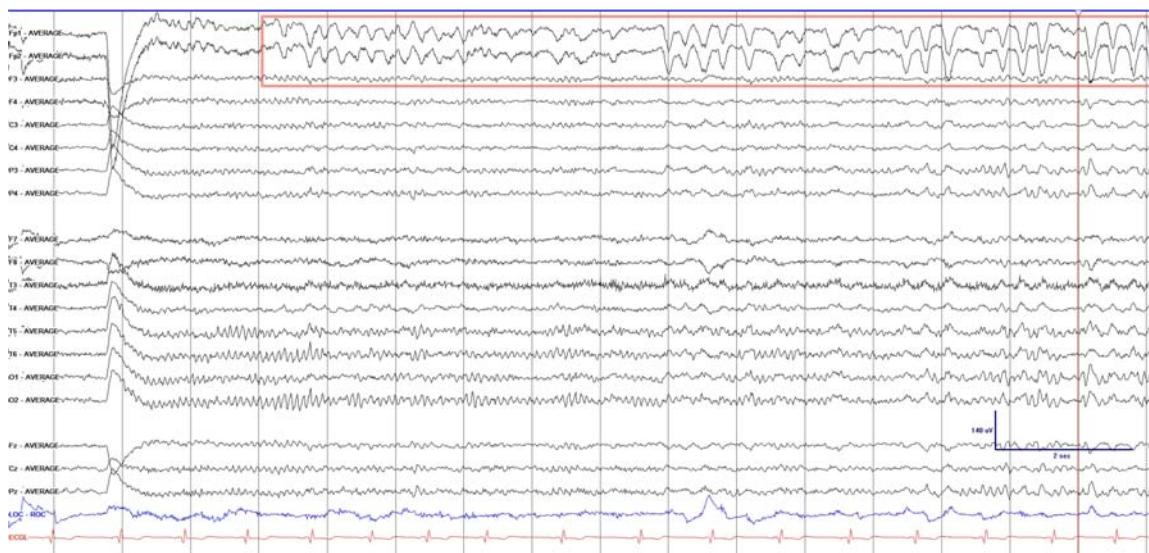
Routine EEG Test

19) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



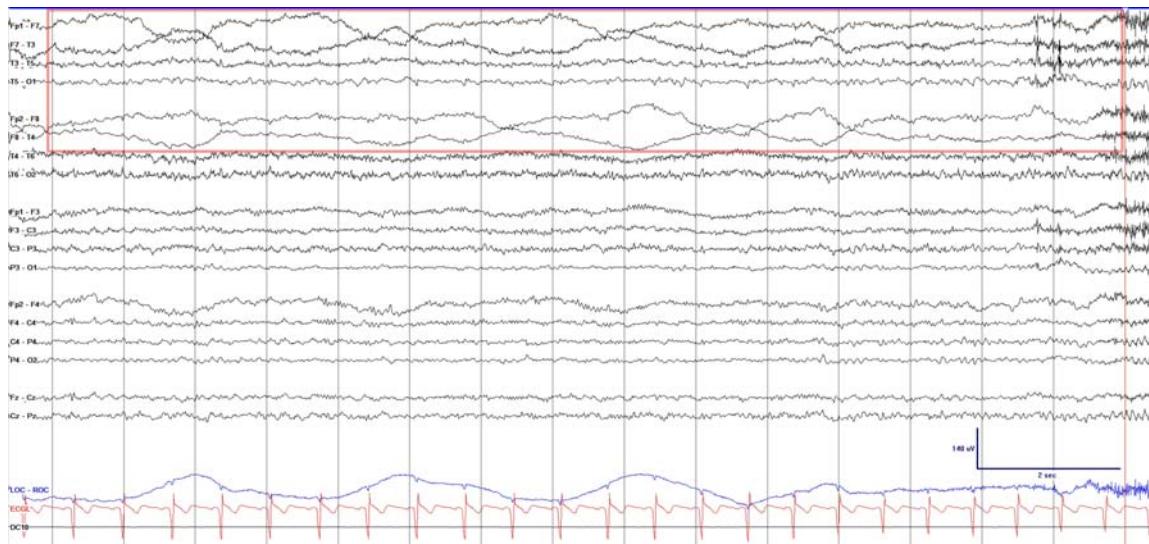
* 26. Please select correct answer.

- Eye fluttering
- Generalized seizure
- Photic driving
- Sweat artifact
- Generalized irregular delta slowing

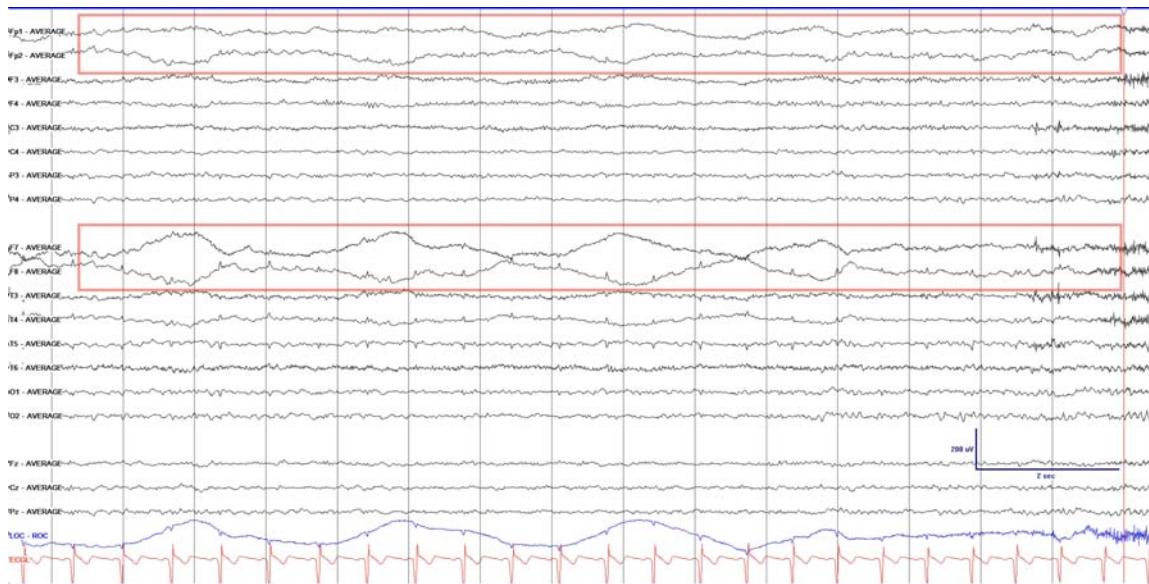
Routine EEG Test

20) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



* 27. Please select correct answer.

Sweat artifact

Generalized irregular delta slowing

Eye fluttering

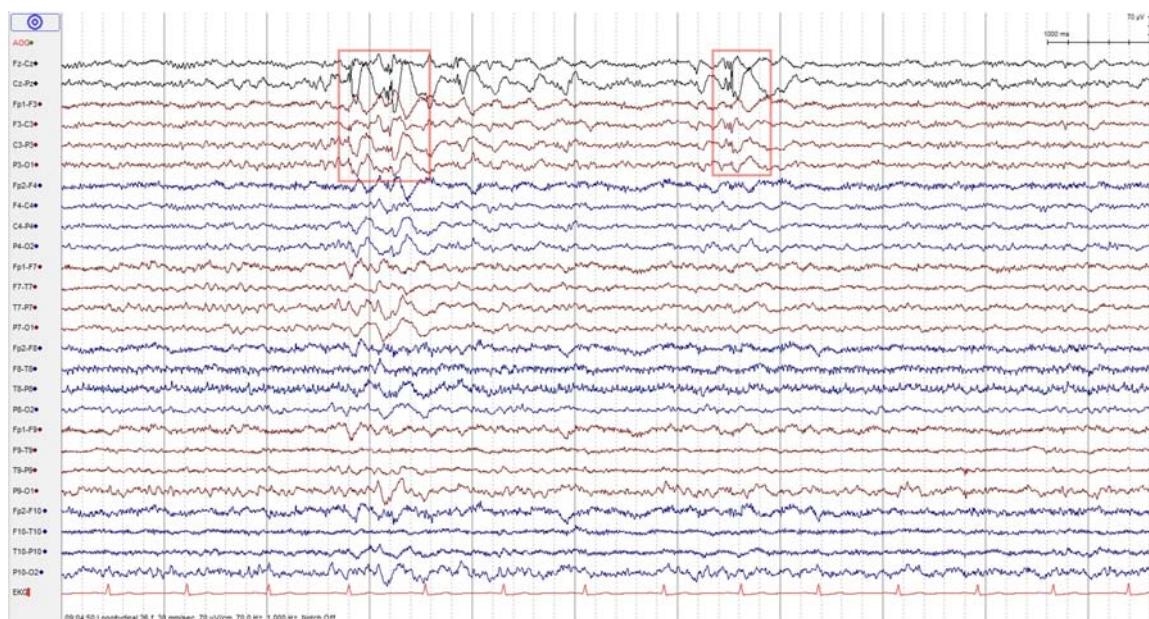
Eye blinks

Lateral eye movements

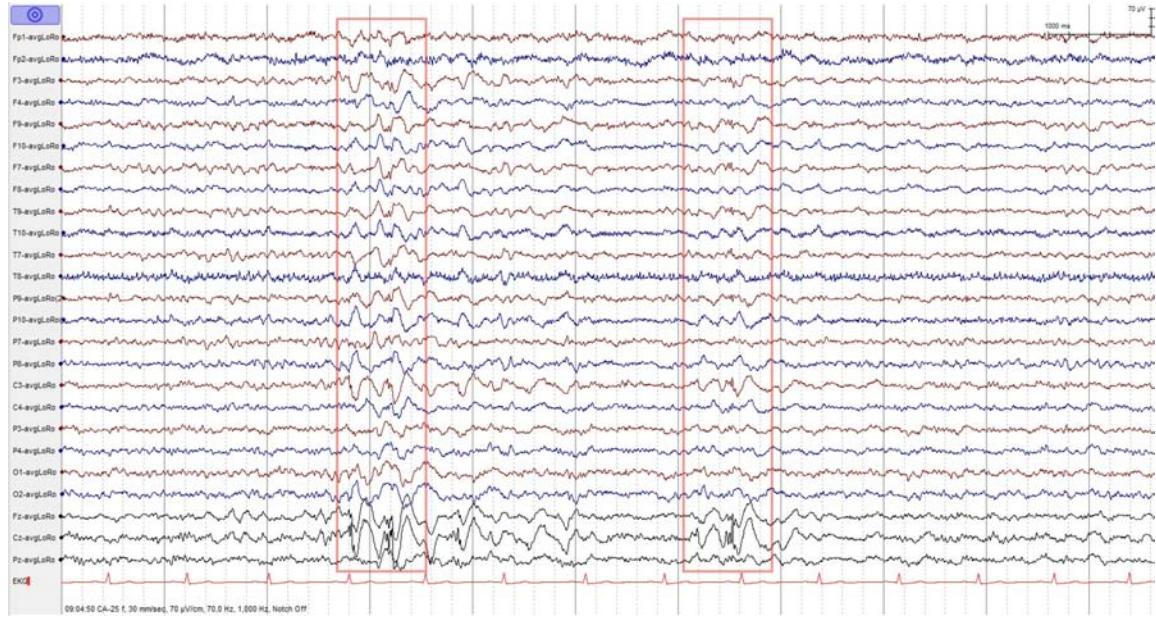
Routine EEG Test

21) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



* 28. Please select correct answer.

EKG artifact

Focal epileptiform discharges, sharps

Focal epileptiform discharges, polyspikes

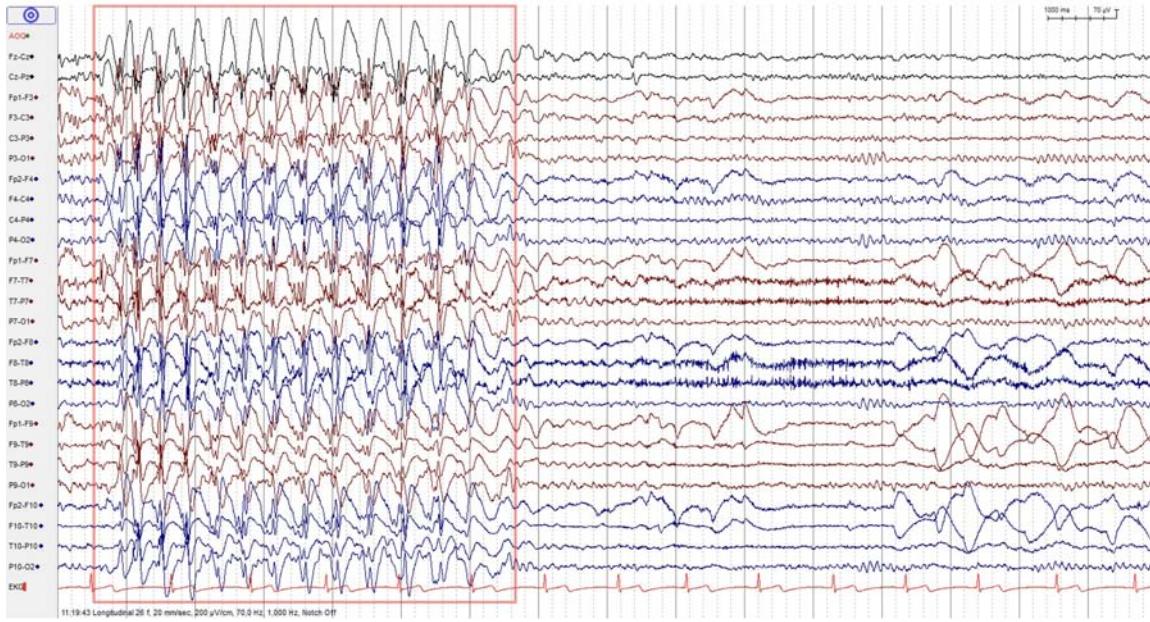
Eye blinks

Wicket spikes

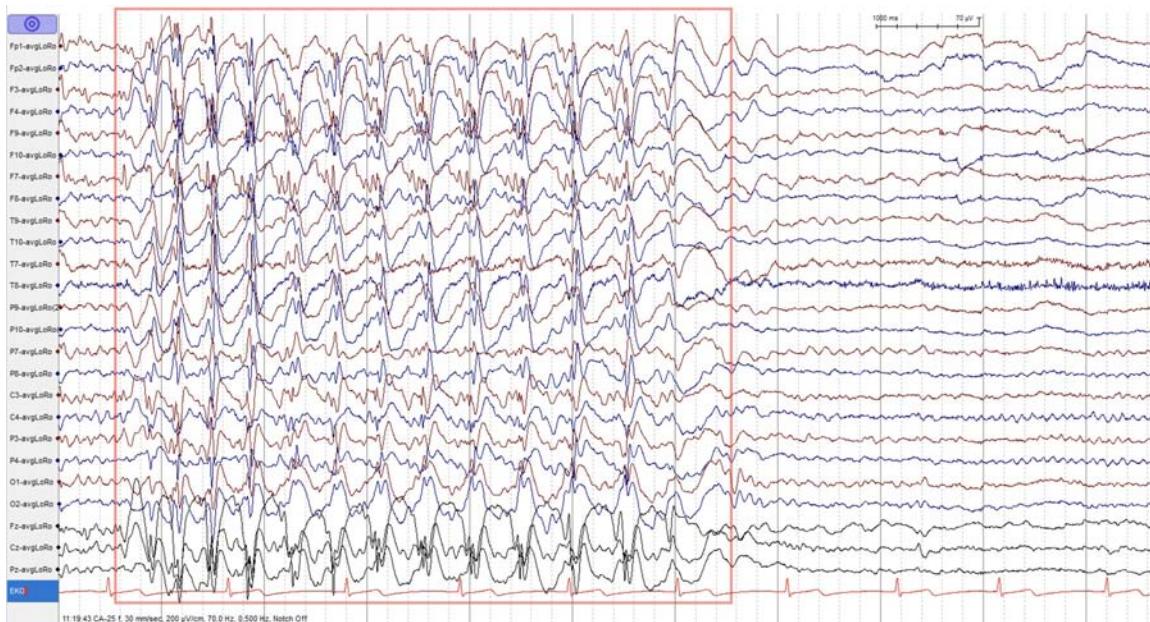
Routine EEG Test

22) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



* 29. Please select correct answer.

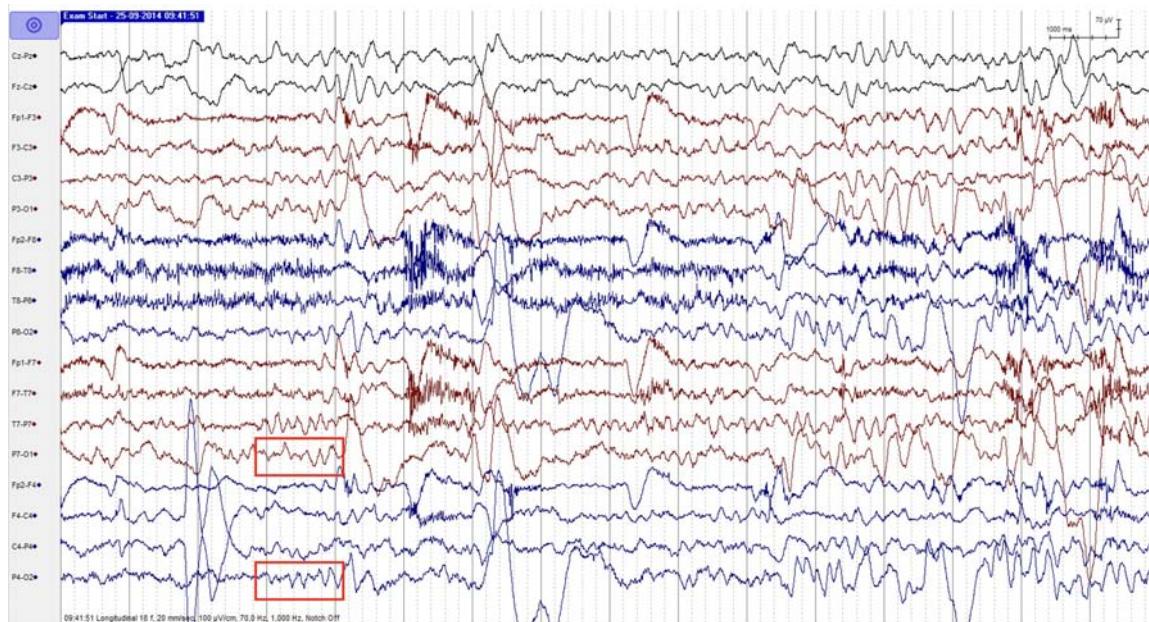
- Generalized regular/rhythmic delta slowing
- Eye fluttering
- Generalized epileptiform discharges, 3 Hz, spike-wave
- Generalized paroxysmal fast activity
- Generalized epileptiform discharges, 3 Hz, polyspike-wave

Routine EEG Test

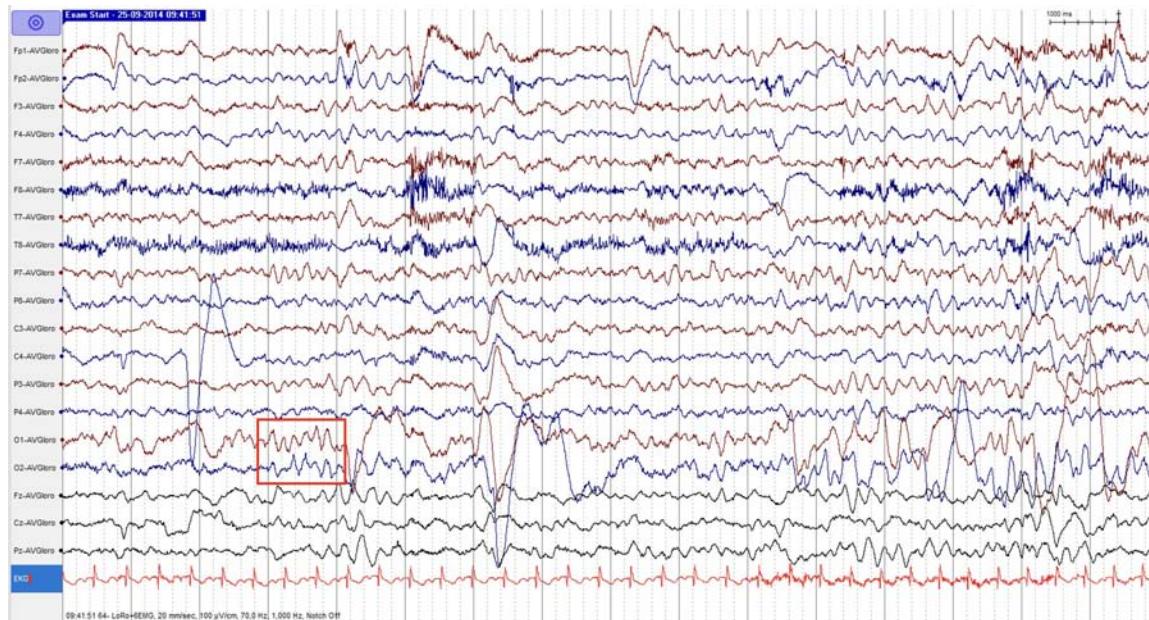
23) What finding/pattern is shown on the EEG below/within the red box?

This is a 6-year-old patient.

Bipolar



Average



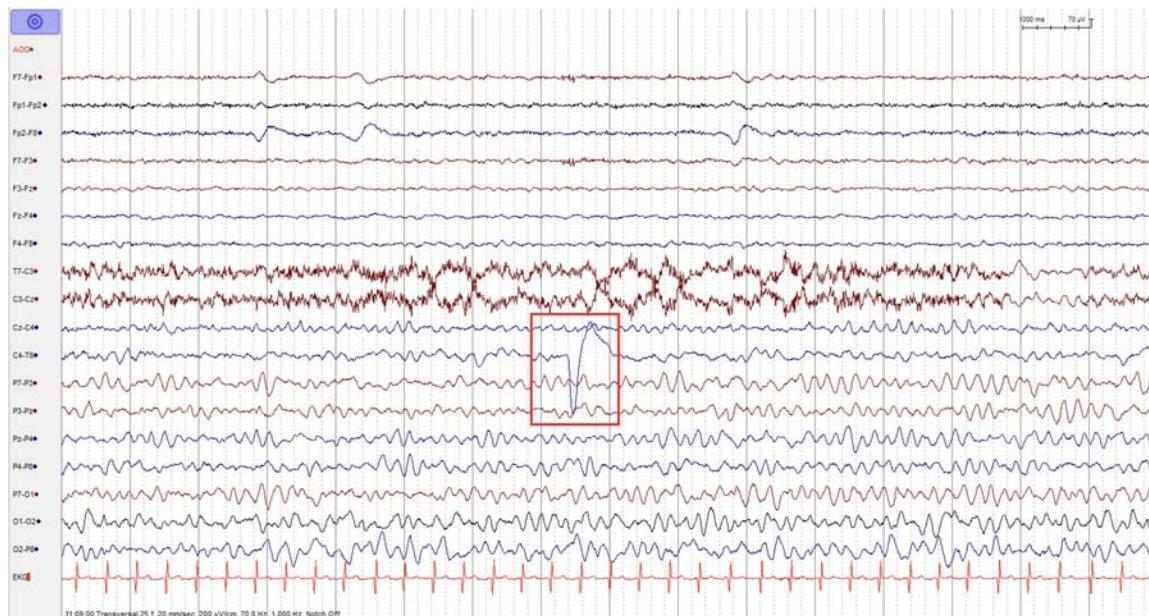
* 30. Please select correct answer.

- Normal posterior dominant rhythm (PDR)
- Mu rhythm
- Lambda waves
- Generalized irregular theta slowing
- Positive occipital sharp transients of sleep (POSTS)

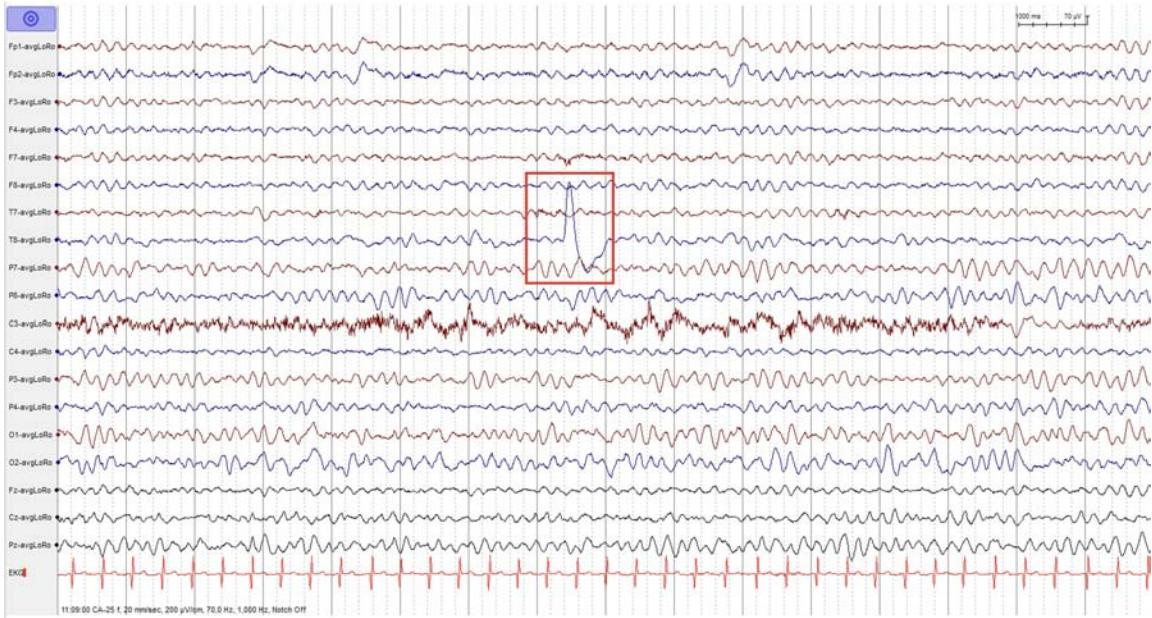
Routine EEG Test

24) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



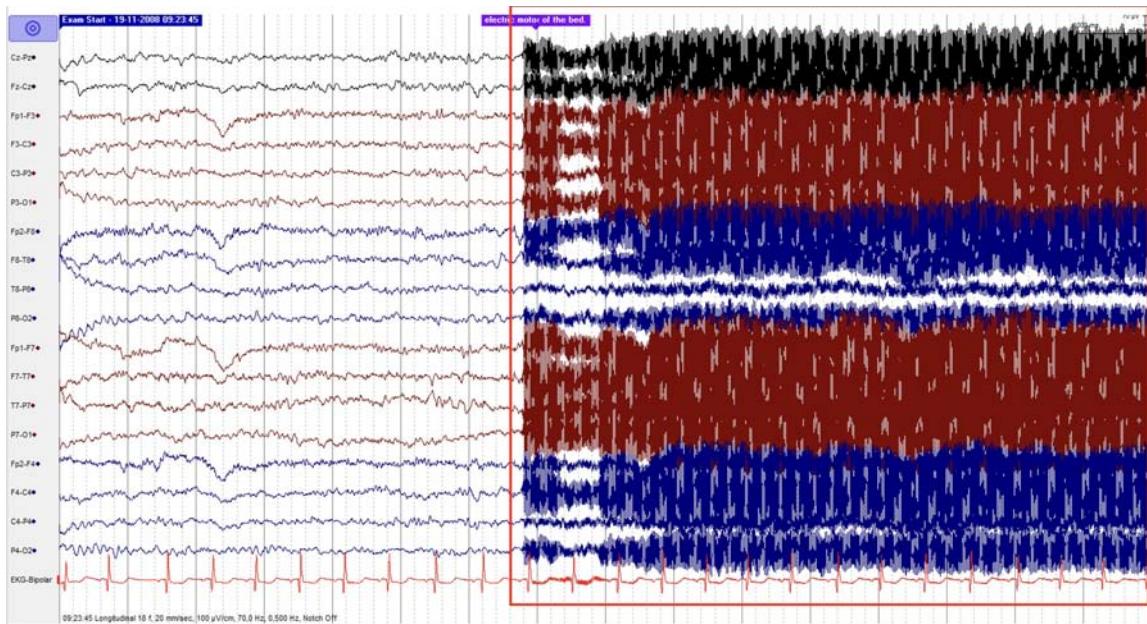
* 31. Please select correct answer.

- Focal irregular delta slowing
- Focal epileptiform discharge, sharp
- Focal epileptiform discharge, polyspike
- Electrode pop
- Focal epileptiform discharge, spike

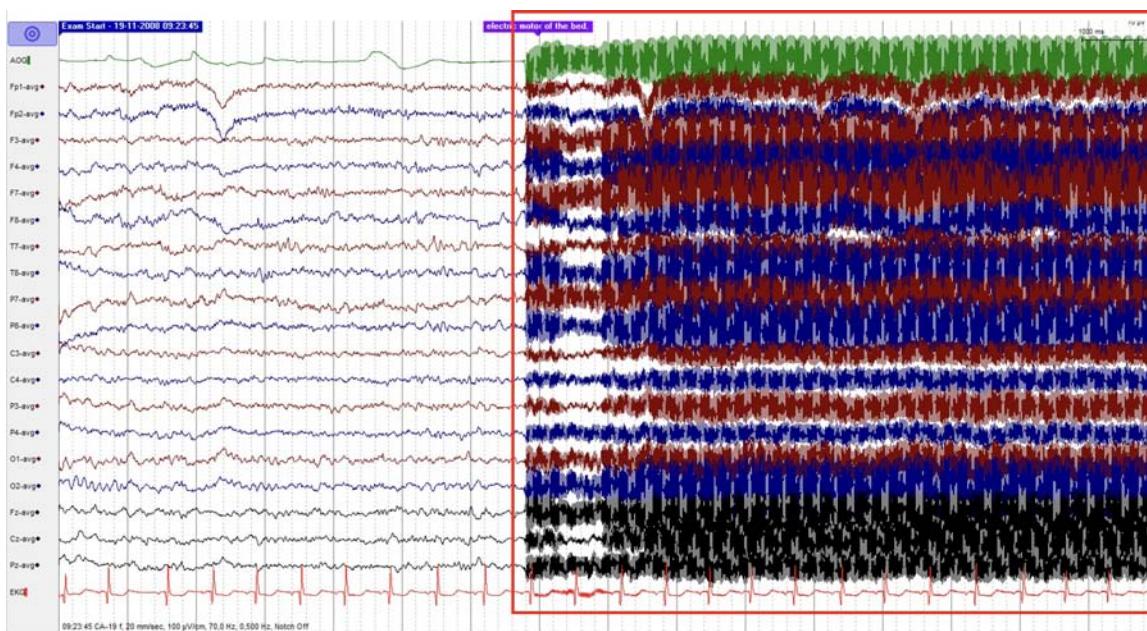
Routine EEG Test

25) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



* 32. Please select correct answer.

- Generalized seizure
- Electrode pop
- 50 Hz artifact
- Focal seizure
- Muscle artifact

Routine EEG Test

26) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



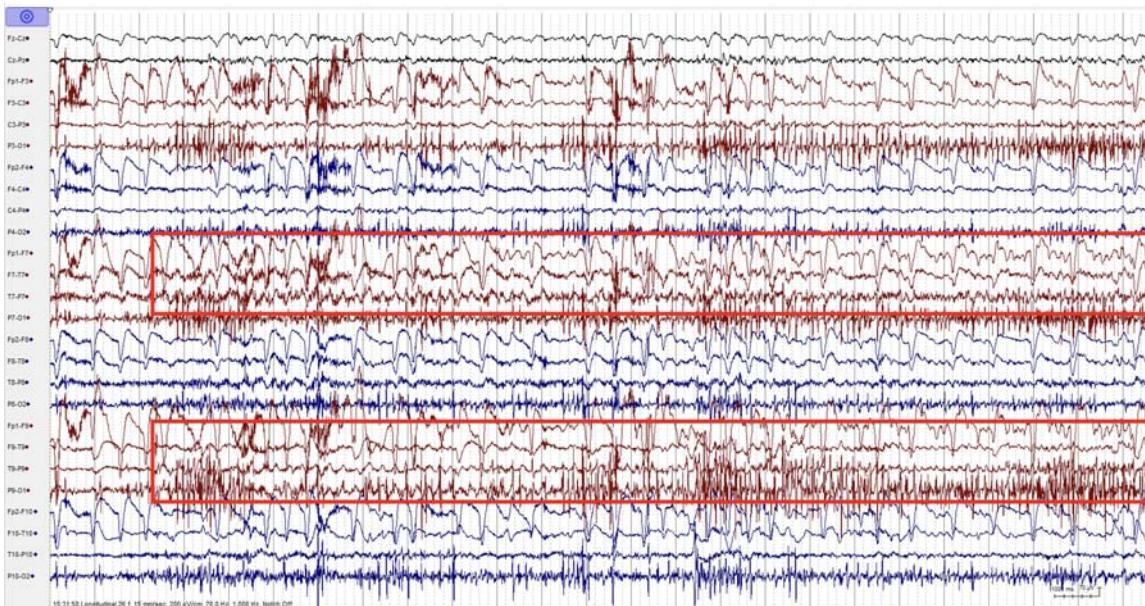
* 33. Please select correct answer.

- Focal seizure
- Generalized epileptiform discharges, <2.5 Hz
- Generalized epileptiform discharges, 3 Hz
- EKG artifact
- Eye fluttering

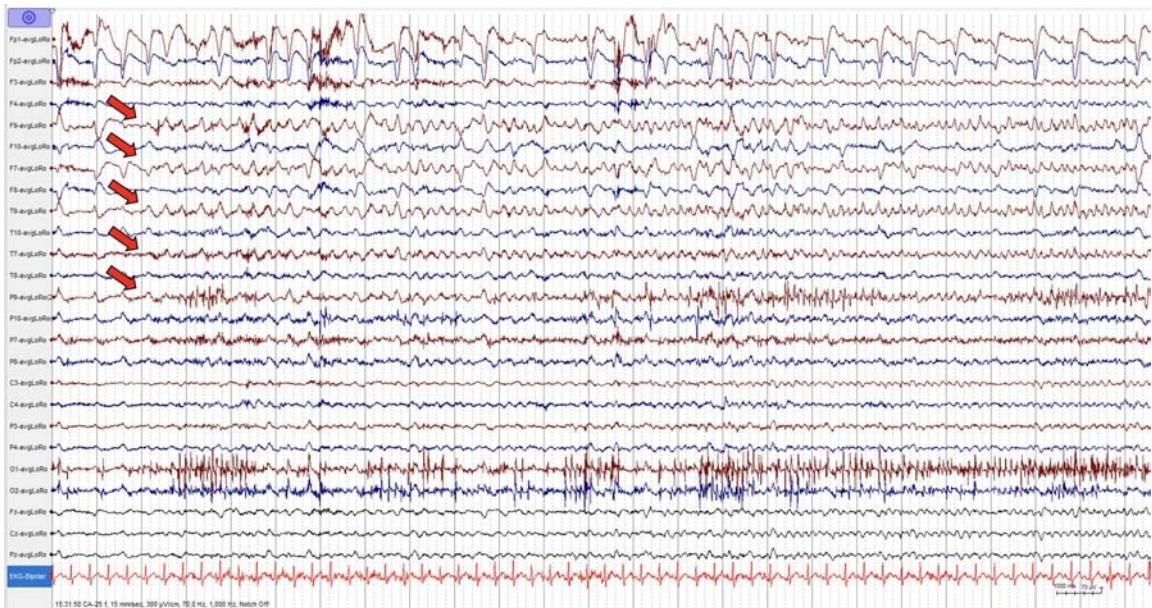
Routine EEG Test

27) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



* 34. Please select correct answer.

Focal seizure

EKG artifact

Generalized seizure

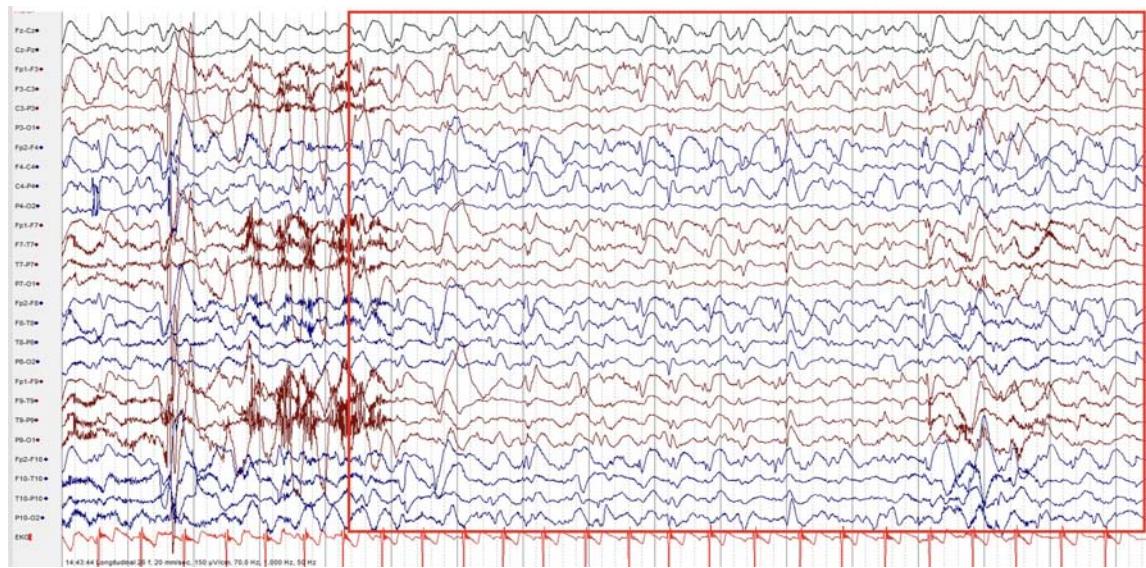
Breach rhythm

Posterior dominant rhythm (PDR),
asymmetric

Routine EEG Test

28) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



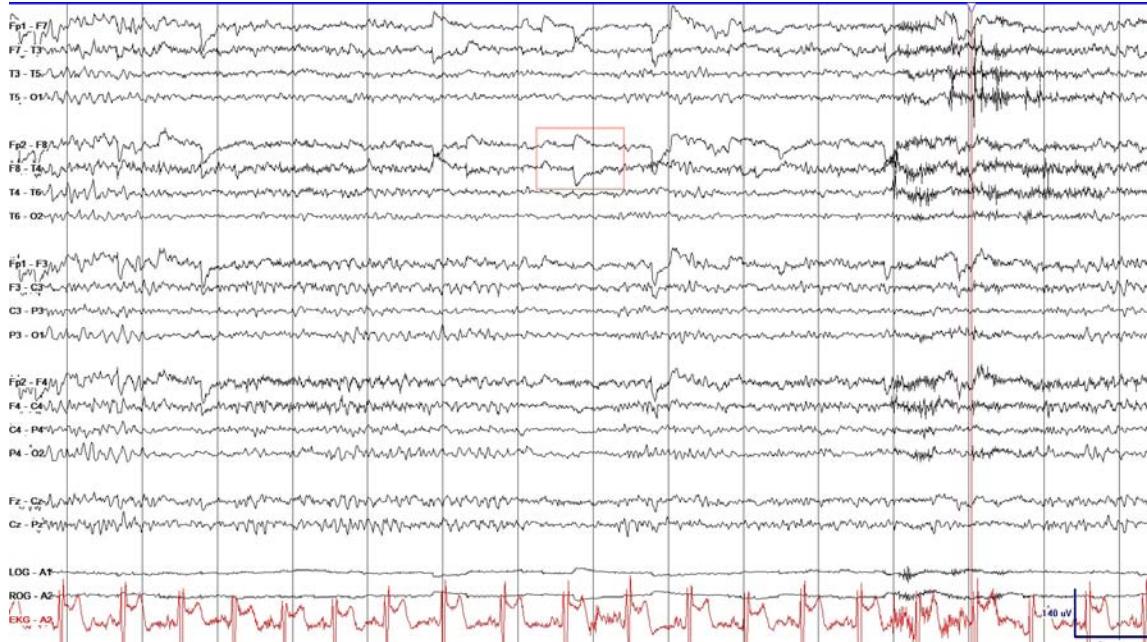
* 35. Please select correct answer.

- Generalized epileptiform discharges, 3-5 Hz
- Focal seizure
- EKG artifact
- Focal epileptiform discharges, 3-5 Hz
- Generalized epileptiform discharges, ≤ 2.5 Hz

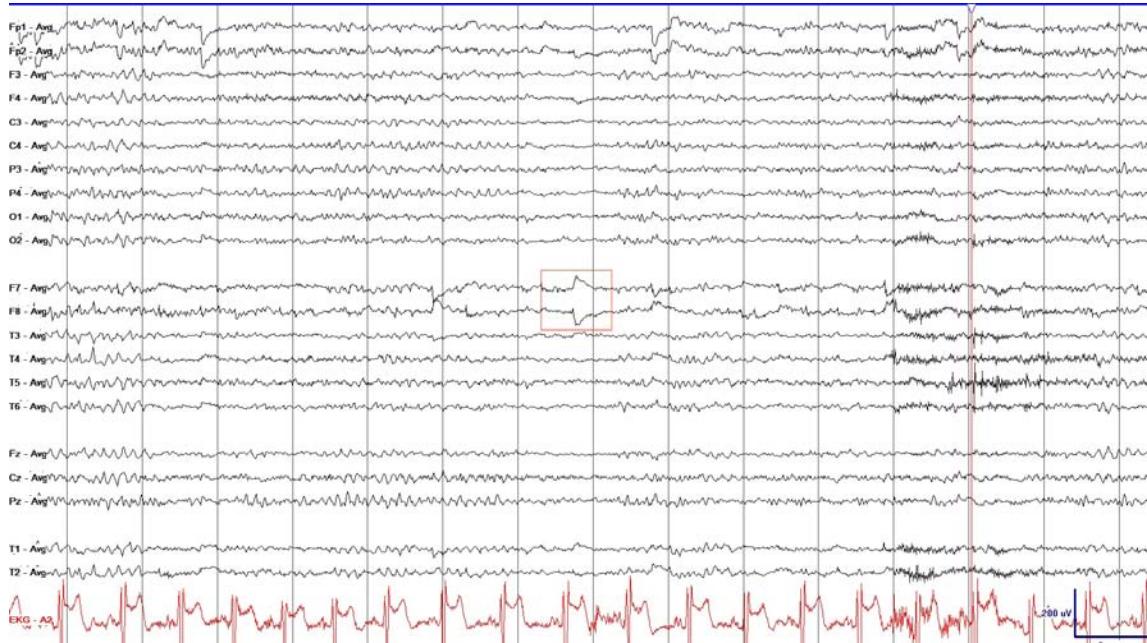
Routine EEG Test

29) What finding/pattern is shown on the EEG below/within the red box?

Bipolar



Average



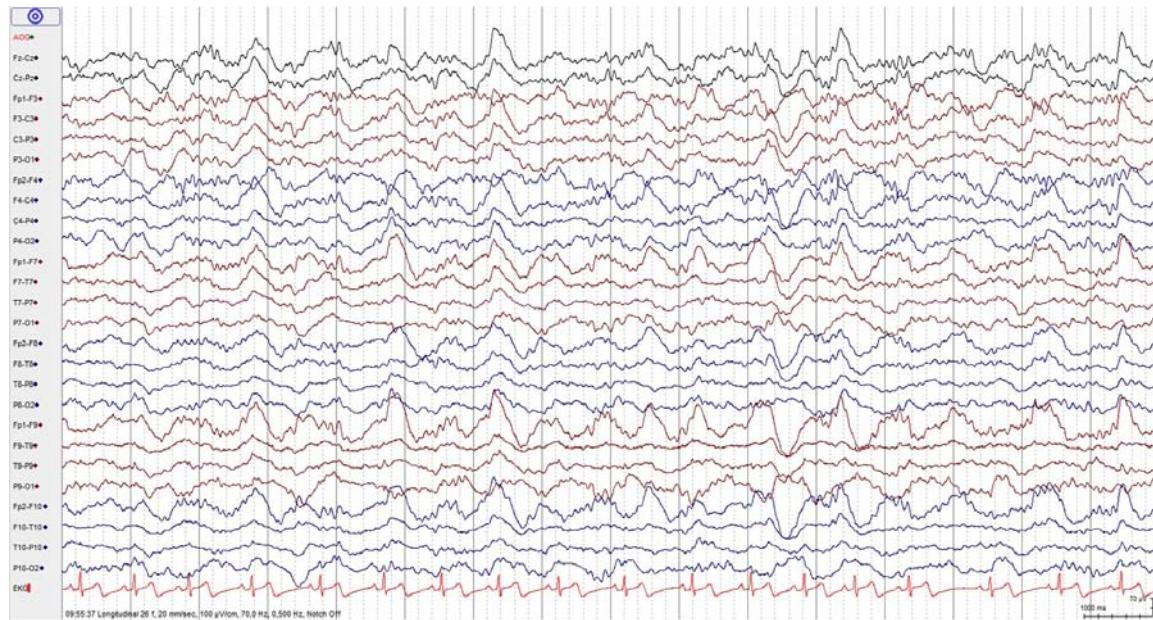
* 36. Please select correct answer.

- Electrode pop
- Lateral rectus spike
- Focal epileptiform discharge, spike
- EKG artifact
- Focal epileptiform discharge, sharp

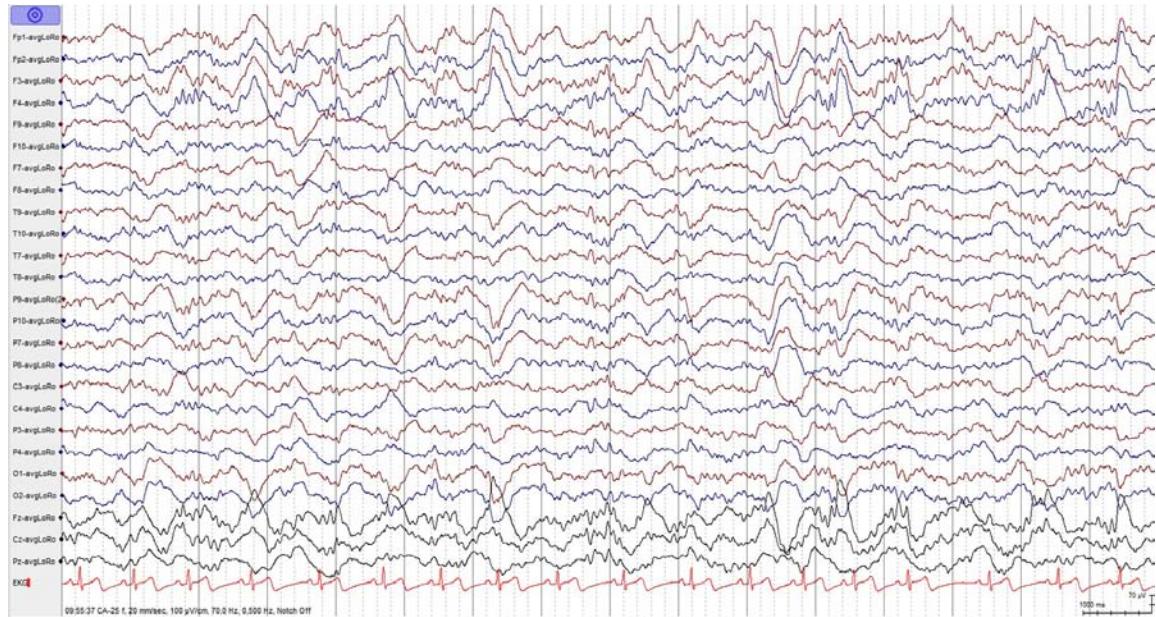
Routine EEG Test

30) What finding/pattern is shown on the EEG below?

Bipolar



Average



* 37. Please select correct answer.

- Generalized seizure
- Generalized regular/rhythmic delta slowing
- Sweat artifact
- Focal regular/rhythmic delta slowing
- Stage 3 sleep (NREM)