

## Flora

SA0000

Sex	Male <input checked="" type="checkbox"/> Female <input checked="" type="checkbox"/>	Handed	Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/>
Year of birth	1989	Patient state	Alert
Monitoring dates	23/04/2021 - 30/04/2021	Days monitored	7

Referring physician Dr Vivienne van Wyngaard

Indication for testing Episodes of possible neurological dysfunction with symptoms including: Impaired awareness / loss of consciousness.

Medication Nil AEDs

Clinical information Thank you for doing a prolonged EEG for Flora who presents with regular episodes of loss of awareness recently increased in frequency. It is unclear whether these episodes are epileptogenic in nature or possibly dissociative. The episodes are of short nature (minutes) where she loses time and is unable to respond to external stimuli. She sometimes has a vague experience of visual hallucinations but cannot describe these in detail.

## Conclusions

This is an abnormal record because of the clinical events and interictal abnormalities observed. The changes are consistent with a focal seizure disorder, with left posterior temporal focus.

15 events were reported during the recording period and appear to represent the patient's typical episodes. 10 of these relatively stereotyped episodes are described below. No unreported or unrecognised events were discovered on review of the trace.

Interictally, left anterior temporal sharp-and-slow-waves were observed frequently. This activity was observed exclusively during sleep. Phase reversal was observed in channels Fp1 and O1.

High amplitudes were observed in channels F7 and T3. In addition to this, right anterior temporal sharp-and-slow-waves were observed rarely. This activity was observed exclusively during sleep. Phase reversal was observed in channels Fp2 and O2. High amplitudes were observed in channels F8 and T4.

Left anterior temporal slowing was observed often. These occurred at a frequency of 2 Hz. This activity was observed more frequently in the awake trace. High amplitudes were observed in channels F7 and T3.

In the background, well-developed 10 Hz alpha activity is seen posteriorly bilaterally, and is symmetrical and reactive to eye-opening.

Sleep architecture is disturbed as sleep is fragmented by frequent arousals.

## Reported Events

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### EVENT 1

Patient description: Seizure, Aware, Yes, Non motor, Small. Felt like the beginning of a big "turn" but didn't eventuate into one.

Start time: 23rd April 2021 05:14:43 pm

Duration: 6.6 seconds

Patient state: Awake

Video: Yes

Clinical: The patient was laying on couch with baby on her lap. No clinical changes seen.

EEG: A normal awake stable background

ECG: Sinus rhythm

### EVENT 3

Patient description: Seizure, Impaired awareness, Non motor, Yes, Normal. I felt it as it came on. I moaned as it started and took the bottle out of my son's mouth as I was feeding him. I blacked out but remained conscious but not responsive.

Start time: 23rd April 2021 07:27:25 pm

Duration: 1 minute 24.4 seconds

Patient state: Awake

Video: Yes

Clinical: The patient was sitting on couch holding and feeding her baby. The patient made a groaning sound, leaned back slightly, stopped feeding, was seen to over breath, touched head with right hand, appeared unresponsive.

EEG: Blinking artefact on background of gradual build-up of poorly localised, moderate voltage 2-5Hz slow activity with left temporal post ictal slowing seen

ECG: Sinus rhythm/sinus tachycardia

### EVENT 2

Patient description: Non motor, Yes, Aware, Seizure, Small. Felt like the beginning of a big "turn" but didn't eventuate into one.

Start time: 23rd April 2021 05:55:11 pm

Duration: 8.7 seconds

Patient state: Awake

Video: Yes

Clinical: The patient was sitting on the couch no obvious clinical changes were seen.

EEG: A normal awake stable background

ECG: Sinus rhythm/sinus bradycardia

### EVENT 4

Patient description: Motor, Small, Yes, Seizure, Impaired awareness. I had a right hand tremor at the end of the turn/blackout. I felt it coming on and asked Sam to take over with feeding Noah because I felt funny. The turn then started after this. Little less severe than the usual turns. I came around a little quicker than usual.

Start time: 24th April 2021 01:10:39 am

Duration: 1 minute 21.2 seconds

Patient state: Awake

Video: Yes

Clinical: The patient was sitting on the bed with baby. The patient was heard to make grunting sounds. The patient touched partner, partner said "what" and the patient replied "I feel funny". The patient was seen to over breath, tuck hair behind ear with left hand, The patient appeared unresponsive and slightly confused.

EEG: A gradual build-up of poorly localised moderate voltage 2-5Hz slow activity with left hemisphere postictal slowing seen

ECG: Uninterpretable due to signal loss

**EVENT 5**

Patient description: Normal, Yes, Impaired awareness, Seizure. Was feeding my son on my lap. When it started I lent back to ensure he didn't fall. Felt as scary as any other turn.

Start time: 24th April 2021 08:58:31 am

Duration: 1 minute 9.9 seconds

Patient state: Awake

Video: Yes

Clinical: The patient was sitting on lounge feeding baby with bottle. Was then seen to over breath. The patient looked up uncrossed legs then crossed legs.- Awareness impaired. Towards the end of the event the patient wiped brow with right hand. Some post ictal confusion was apparent.

EEG: A poorly localised build-up of moderate voltage 3-5Hz slow activity with left postictal slowing

ECG: Sinus rhythm/sinus tachycardia. Ictal tachycardia with increase in HR from 66 to 150bpm

**EVENT 7**

Patient description: Yes, Big, Seizure, Impaired awareness. Was reading off the laptop and felt it come on. Had a normal turn but was very fidgety and panicked. Was very upset afterwards.

Start time: 24th April 2021 03:04:09 pm

Duration: 1 minute 28.5 seconds

Patient state: Awake

Video: Yes

Clinical: The patient was standing leaning on table near husband. Was seen to fall forward slightly, buckles at knees slightly, stands, unsteady on feet, left arm automatisms intermittently touching left side of head/face. Husband pulled chair out for patient to sit down. Patient sits.

EEG: Blinking artefact on a background of a build-up of moderate to high voltage poorly localised 2-5Hz slow activity

ECG: Sinus rhythm/sinus tachycardia. Increase in ictal HR to 156bpm.

**EVENT 6**

Patient description: Yes, Seizure, Non motor, Small, Aware.

Start time: 24th April 2021 01:55:56 pm

Duration: 29.2 seconds

Patient state: Awake

Video: Yes

Clinical: The patient was sitting on the couch and was seen to overbreath but no other obvious clinical correlate was observed.

EEG: A normal awake stable background

ECG: Sinus rhythm

**EVENT 8**

Patient description: Yes, Normal, Impaired awareness, Seizure. Was holding my son and one just came on. I don't remember anything else.

Start time: 24th April 2021 04:25:16 pm

Duration: 1 minute 19.2 seconds

Patient state: Awake

Video: Yes

Clinical: The patient was laying on the lounge with legs bent supporting her baby. She was then seen to lower her legs, over breath, baby was no longer supported. The patient then looked around non purposefully, wiped side of face with left hand, then with right hand, she then picked baby up again. There appears to be some loss or awareness.

EEG: Excessive blinking artefact on background of gradual build-up of moderate voltage 5-6Hz non localisable slow activity

ECG: Sinus rhythm/sinus tachycardia. Ictal tachycardia of 160bpm.

**EVENT 9**

Patient description: Yes, Non motor, Seizure, Normal, Impaired awareness. Appeared to be unaware of what was on my chest (EEG chest pack). Started just as I was getting up off the floor onto the couch.

Start time: 24th April 2021 09:19:00 pm

Duration: 1 minute 7.5 seconds

Patient state: Awake

Video: Yes

Clinical: The patient was sitting on the lounge holding baby, she was seen to over breath and look around. No other obvious clinical correlate is observed.

EEG: Blinking artefact on a background of a gradual build up of poorly localised moderate to high voltage 3-5Hz slow activity

ECG: Sinus rhythm/sinus tachycardia. Ictal tachycardia with an increase in HR from 72 to 150bpm.

**EVENT 10**

Patient description: Small, Seizure. I think I had a brief turn whilst on the couch after lunch. I'm not sure how long it lasted or what my actions were during it as I was home by myself. I do think it was smaller than others I've had before.

Start time: 25th April 2021 12:15:44 pm

Duration: 1 minute 19 seconds

Patient state: Awake

Video: Yes

Clinical: The patient was sitting on the couch watching TV with baby resting on left arm. Initial over breathing was seen with brief non purposeful movement of legs and right arm, the patient then looked around non purposefully. There appeared to be some loss of awareness.

EEG: A gradual build-up of moderate to high voltage, poorly localised 3-5Hz slow activity. Some left temporal slowing is seen post ictally

ECG: Sinus rhythm/sinus tachycardia. Ictal tachycardia with an increase in HR from 72 to 160 bpm during the event.

## Exemplar region identified

