

# 18 year old right handed female

PC

Loss of consciousness

#### HPC

- Witnessed blackout whilst at work
- No warning prior to blackout
- Came around with people around her, felt dazed and confused people told her she'd 'had a fit'
- Incontinent of urine, no tongue biting
- Can't recall the ambulance arriving but does recall being in ambulance on way to hospital
- Otherwise well, had been out evening before celebrating a friends birthday had 2 glasses of wine and went to bed at 3am
- Reports over last few years recurrent episodes where her arms will suddenly 'jump', particularly in morning and she has dropped her toothbrush secondary to this

PMHx PSHx - Nil - Nil
THx SHx

- Oral contraceptive pill

NKDA - Non-smoker

Examination

Appears well BP 110/68 HR54

1+11+0

Afebrile Sats 99% o/a RR 14



R

5

5 5 5 L N

5

5 5

Works as a hairdresser

Cranial Nerves			Upper Limb		Lower Limb		
	R	L		R	L		R
1	N	N	Tone	N	N	Tone	Ν
11	N	N	Sh Ab	5	5	HF	5
III, IV, VI	N	N	EF	5	5	HE	5
V	N	N	EE	5	5	KF	5
VII	N	N	WE	5	5	KE	5
VIII	N	N	FE	5	5	APF	5
1X,X,XI	N	N	FDI	5	5	ADF	5
XII	N	N	APB	5	5	Al	5
	R	L	Biceps	++	++	Knee	++
Cerebellar	N	N	Triceps	++	++	Ankle	++
Pin Prick	N	N	Supinator	++	++	Plantar	1
JPS	N	N					
Vib	Ν	N					



# Witness account provided by colleague:

I first became aware of problem when she had fallen to the floor making a load bang. She fell on her side and went stiff and then started to shake, both of her arms and legs were shaking together. She was making a grunting sound and I was concerned and her lips were turning blue. She was shaking for about 2 minutes before she stopped but we couldn't get any response from her for at least 10 minutes as she was sleeping.

#### Stop and think

- 1. What is the differential diagnosis of transient loss of consciousness and what clinical features can help distinguish between them? Based on the available information what is your suspected diagnosis?
- 2. What investigations should you consider when assessing this patient in the Emergency department?

# Investigations

### Bloods

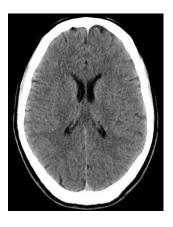
Hb	141
MCV	85
WC	6.2
Plt	189

Na	141
K	4.5
Ur	4.1
Creat	52
CRP	5

ALT	26
Alk	65
Р	
Bili	4
Alb	39
INR	1.0

Calcium	Z
Magnesium	Ν

### Radiology



Normal CT unenhanced CT head scan

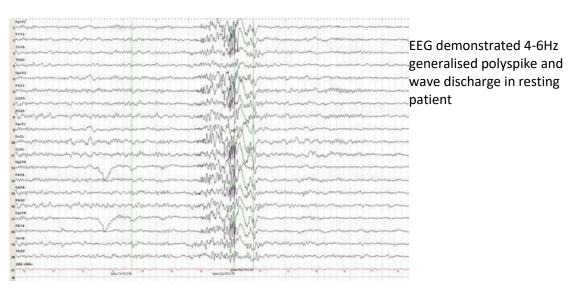
### Stop and think

3. Based on your suspected diagnosis what advice would you give the patient with regards to driving and safety?



- 4. What is the role of EEG in this case?
- 5. Are there any treatment considerations at this stage?

# **Neurophysiology**



Diagnosis: Presentation of tonic clonic seizure, diagnosis of Juvenile myoclonic epilepsy