

<b>GENERAL ICTAL FEATURES &amp; OUTCOME</b>  Ictal or post-ictal dysphasia usually reflects abnormality in language hemisphere. Epigastric sensations associated with medial temporal lobe epilepsy	<b>Good Surgery Outcome</b> - Febrile seizures - Hippocampal sclerosis - Tumours. No sec gen seiz. - Abnormal MR scan - EEG-MR concordance - Extensive resection - no seizures in 1 <sup>st</sup> post-op year	<b>Good Surgery Outcome-2</b> - Absence of bilateral EEG abnormalities. - Absence of ictal contralateral propagation	<b>Good Surgery Outcome-3</b> - No evidence of cortical dysplasia.	<b>COGNITIVE &amp; EMOTIONAL</b> Well-formed ictal visual hallucinations usually imply temporal lobe involvement, fragmentary ones – occipital involvement.	Transient epileptic amnesia associated with early morning attacks, long-term autobiographical memory loss, cardiac dysfunction, and patchy anterograde memory impairment	Déjà vu and similar experiential phenomena occasionally diagnostic of temporal lobe epilepsy, but also found in psychiatric conditions and in normal individuals. Ictal déjâ vu specific to words or faces may lateralise
	<b>Poor memory post-surgery</b> - Normal MRI, Bilateral path., Good pre-op memory perf., Low general cognitive perf., Late ep onset, Poor seizure control post-surgery, Discordant Wada, Extensive temporal lobe resection, Older age, L (lang) side surgery. <b>Mood, etc post-surgery</b> - 3% incidence of <i>de novo</i> psychosis post t. lobectomy. Usually in first year. Pre-op bilat. EEG abnormality, path. other than HS in tissue, small contralateral amygdala. 10% incidence of <i>de novo</i> depression post surg.					
<b>HISTORY:</b> Family History -	Febrile Convulsions, Encephalitis/Meningitis -			Seizure Types -		<b>FRONTAL SEIZURES</b>
First Onset -	Fit Free Period -			Habitual Onset -		Subsequent memory for absence episode more closely associated with frontal rather than temporal lobe involvement.
<b>Frequency-</b>				<b>Time of day/month</b>		
<b>Precipitating/Alleviating Factors -</b>			<b>Self-control measures -</b>			
<b>SEIZURE - Checklist</b>			<b>Spontaneous Account from Patient</b>			
<b>WARNING -</b>						
Epigastric						
Fear or other mood changes						
Auditory Experience from past						
Visual Experience from past						
Memory Experience from past						
Olfactory/Gustatory						
<b>ICTAL -</b>						
Oral Automatism						
<b>SYNCOPE</b> Circumstances of the attack are more important. The patient is usually flaccid, but myoclonus can sometimes occur. There is usually more rapid recovery after syncope, without significant post-ictal confusion. Pallor / sweat more often in cardiac.	Manual Automatism					Head-turning contralateral to side of lesion, especially early in the phase of the seizure.
Limb Automatism						
Orientation						
Shorter-term Memory			<b>Spontaneous Account from Observer</b>			
Longer-term Memory						<b>OTHER SEIZURES</b>
<b>PSYCHOGENIC SEIZURES</b>  More common in women. Less common in older individuals (> 40yrs). Triggered by emotional event, pain, sounds, lights, movements. Presence of others can precipitate, alleviate or intensify. May be unusually frequent (several a day). Headache, pain common. Psychiatric history. Thrashing movements, pelvic thrusting, side-to-side head movements. Eyes closed / fluttering. Primary seizure event lasts > 5 mins. Fluctuating course – Stop-Start. Rapid breathing during attack. Gradual onset. Rapid recovery. No post-ictal fatigue / sleep. Pleasant or variable smell as aura. Oral automatisms rare; Clear memory for 'fit'. Before/After seizure – weepy, upset. Consciousness may be preserved; Post-ictal prosopagnosia. Goal-directed activity during seizure.	Absent Speech					Ictal smiling associated with right hemisphere focus
Involuntary Speech						
Abnormal Movements						Cephalic (head sensations) and autonomic seizures tend to be more left-lateralised.
Anomia						
Behavioural Disturbance						
Hallucination						Post-ictal nose wiping ipsilateral to seizure locus.
Compulsive Behaviour						
Mood Disturbance						Post-ictal headache in TLE ipsilateral to seizure locus.
Post Ictal Features						
Post Recovery Features						Ictal vomiting & spitting associated with right TLE, though a few discordant cases reported.
<b>PSYCHOGENIC ➔</b> Eye roll up – psychogenic Psychogenic seldom in sleep. Sympathetic system symptoms – usually non-epileptic.	Bilateral movements without loss of awareness usually psychogenic. Psychogenic seizures more variable in presentation...short, stereotyped more likely to be epileptic. Vocalisation during tonic-clonic seizure more common in psychogenic.		Bizarre movements, such as pelvic thrusts, more common in psychogenic attacks. Tongue biting (side of tongue rather than tip in organic) and incontinence less common in psychogenic seizures, though bruises and carpet burns may occur.			
Affective and visceral auras more common in epilepsy that originates from medial temporal lobe structures than from lateral temporal lobe structures	Olfactory hallucinations in medial TLE, often R-sided.	Gustatory halluc. associated with lesion of parietal operculum and insula.	Oral automatism associated with TLE.	As reference for Wada testing - Left-handers – 85-10-5% have left hemisphere, bilateral, and right hemisphere language representation		Aura of urinary urgency associated with R-hem focus
Visual auras usually contralateral, but complex visual phenomena may be right hemisphere-based.	Orgasmic auras - more R focus		Fear aura – amygdala involvement	Verbal auditory hallucinations – left superior temporal gyrus.	Musical auditory hallucinations - right superior temporal gyrus.	Piloerection – medial temporal, ipsilateral to seizure focus.

