

GENERAL ICTAL FEATURES & OUTCOME	Good Surgery Outcome - Febrile seizures - Hippocampal sclerosis - Tumours. No sec gen seiz. - Abnormal MR scan - EEG-MR concordance - Extensive resection - no seizures in 1 st post-op year	Good Surgery Outcome-2 - Absence of bilateral EEG abnormalities. - Absence of ictal contralateral propagation	Good Surgery Outcome-3 - No evidence of cortical dysplasia.	COGNITIVE & EMOTIONAL 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 déjà vu specific to words or faces may lateralise
Ictal or post-ictal dysphasia usually reflects abnormality in language hemisphere. Epigastric sensations associated with medial temporal lobe epilepsy	Poor memory post-surgery - 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. Mood, etc post-surgery - 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.					
Ictal involuntary speech and other automatic oral activity (whistling, spitting, smiling) usually reflects operation of non-language hemisphere	HISTORY: Family History - Febrile Convulsions, Encephalitis/Meningitis - Seizure Types -			FRONTAL SEIZURES Subsequent memory for absence episode more closely associated with frontal rather than temporal lobe involvement.		
Manual automatisms generally ipsilateral to side of lesion in medial TLE, but contralateral in neocortical TLE. In TLE, head turning usually ipsilateral to lesion. There may be contralateral head turning later in the seizure.	Frequency-		Time of day/month			
Automatisms with preserved responsiveness may occur in frontal lobe seizures. In TLE they are more likely to occur with right temporal foci. Contralateral dystonia with ipsilateral automatisms seems to be specific to mesial TLE.	Precipitating/Alleviating Factors -		Self-control measures -			
Seizure outcome after surgery – temporal > occipital > frontal	SEIZURE - Checklist		<i>Spontaneous Account from Patient</i>			
	WARNING -					
	Epigastric					
	Fear or other mood changes					
	Auditory Experience from past					
	Visual Experience from past					
	Memory Experience from past					
	Olfactory/Gustatory					
	ICTAL -					
	Oral Automatism					
SYNCOPE 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					
	Limb Automatism					
	Orientation					
	Shorter-term Memory		<i>Spontaneous Account from Observer</i>			
	Longer-term Memory					
PSYCHOGENIC SEIZURES <i>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.</i>	Absent Speech					
	Involuntary Speech					
	Abnormal Movements					
	Anomia					
	Behavioural Disturbance					
	Hallucination					
	Compulsive Behaviour					
	Mood Disturbance					
	Post Ictal Features					
	Post Recovery Features					
	PSYCHOGENIC → <i>Eye roll up – psychogenic. Psychogenic seldom in sleep. Sympathetic system symptoms – usually non-epileptic.</i>	<i>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.</i>	<i>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.</i>			
	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	
	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.	
					Ictal smiling associated with right hemisphere focus Cephalic (head sensations) and autonomic seizures tend to be more left-lateralised. Post-ictal nose wiping ipsilateral to seizure locus. Post-ictal headache in TLE ipsilateral to seizure locus. Ictal vomiting & spitting associated with right TLE, though a few discordant cases reported. Aura of urinary urgency associated with R-hem focus Piloerection – medial temporal, ipsilateral to seizure focus.	

