locus coeruleus. These data suggest complex MOA of VNS in both acute and chronic phases.

In recent years, we have studied the combination of VNS and corpus callosotomy, and found the combination of both techniques in selected patients achieves better results than both techniques separately. In this paper we would discuss our tentative experience and indications.

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Experience with short video EEG in small town (yield and cost effectiveness)



Nashik Anand Diwan

Background: Semiology, type of seizure, true or pseudoseizure (PNES – psychogenic non epileptic seizures) are often hard to differentiate clinically. Accurate diagnosis is essential for the optimum medical or surgical treatment and outcome for the patient. Most of the times, diagnosis requires inpatient video telemetry, which is both time consuming and expensive. Short video electroencephalography (SV-EEG) has been described previously and was shown to be a useful diagnostic tool in other specialist centres.

Objective: To determine the usefulness of SV-EEG in the diagnosis and management of various seizure types.

Method: After start of SV-EEG facility in Nashik, first 100 cases were selected, 1–55 years done over last 15 months.

Results: SV-EEG done on OPD basis for period of 1–8 h. Age – 1–62 years, M = 64:F = 36. Abnormal SV-EEG was reported in 75 patients. A positive SV-EEG supporting a diagnosis of true seizures occurred in 62 of patients (generalised epilepsy = 15, focal epilepsy = 47). PNES was diagnosed in 13 pts. Attacks recorded in these patients were 1–14. No attack or no interictal abnormality was noted in 25% of patients (n = 25), resulting in an inconclusive SV-EEG. One patient had undergone anterior temporal lobectomy surgery based on this SV-EEG.

Conclusion: The positive rates of attacks from SV-EEG were comparable and even better to previously published results and show that SV-EEG is easily implemented in small town centres. It is cost effective method with very good diagnostic yield.

No	-	niti As	Age	Sex	VEEG durati on (hrs)	Abnormality	No of events	No	initi als	Age	Sex	VEEG duration (hrs)	Abnormality	No of events
	15	0	10	- 14	- 2	Normal	Nil	52	VP	3.3	٠	×.	PNES	1
	2 A	VG .		M	2	Normal	NUT	53	AS	14	M	6	RT hemispehric dysfunction	1
	3.5	₽	Imth		6	Left MTS	- INIT	54	JG	18	64	6.5	Rt Post Quadrant Epielpsy	1
	4.4	NN.	2	M	6	Westsyndrome	PALE	55	SA	7.5	M	4.5	Left Frontal-SMA Sx	3
	5.9	4C	- 25	. M	6	Normal	- PAIR	.56	SK	31	M	7.5	Rt Ant Temp. Epielpsy	NU
	6 A	٧V.	1.6	F	6	Normal	NUL	57	SP	31		7	Left MTLE	
	7 V	5	15		5	Normal	- NEW	58	SN	56	F	6	Loft MTLE	3
	8.8	IC .	55	6.4	8	Left MITLE	INC. I	5.9	1.23	12		- 4	PNES	3
	9 V	15	37	*	8	Normal	nil	60	43	- 29	1.1	4.5	PNES	-4
	10 T	°D	15			Bil PO epitepty	2	61	vv	32	•••		PNES	2
	11 A	ыK	27	F		Normal	NU	62	vw	24	M	7	RT Occital Epilepsy	nit
	12 V	~	13	M	25	PNES	2	63	AP	30	1.1	7	PNES	4
	13.5	a	.30	. #	8	RUMTS	3	64	KC	18	14	5.5	Normal	Nill
	34 0	15	12	F.	6	Rt MTLE	2	65	AP	3.4	M	6	Left Centro-Temporal Epilepsy	9
	15 0	C D	14	. 64	- 6	Normal	0	66	00	28	M	7	Rt Post Quadrant Epielpsy	NIE
	16 P	۹K	16		7	Normal	PART.	67	OB.	28	64	5	Rt Post Quadrant Epielpsy	Nill
	17 K	D.		F	4	MisF	5	68	OA.	3.5	14	3.5	Secondary LGS	22
	18.5	8	2.4	14	7	Typical absence	5	69	RB	27	- 14	6	Normal	NUT
	19 A	AT .	20	M	6	Normal	NUT	70	RB	27	M	-4	Loft > Rt MTLE	2
	20.5	a l	33		7	Rt Temporal Epilepsy	PRH	71	PA	21	F.	7.5	Pri Gen epielpsy	NI
	21 H	G) -	55		4	PNES	8	72	TS .	16	Pv7	4.5	PNES	- 8
	22 C	P	-60	÷		Normal	PAIR	73	SK	18	M	1	Gen Tonic	1.4
	23 N	AK.	35	. N/	5	PNES	3	76	RH	14	M	7.3	RT hemispehric Seizures	2
	24.5	5	9	*	6	Rt Post Qudrant Epilepp	14	75	PA	21	F	7.	PGE	mil
	25.5	ж	6	M	5	Rt Post Qudrant Epileps	NI	76	AA	3.2	F.	7	RT hemispehric Seizures	PAUL.
	26 K	A	. 2	- 84	5.5	Symptomatic Generalise	NU	77	AP.	24	M	7	Sec LG5	NIL
	27.0	40	15		2	PNES	2	78	AD	15		- 6	Pri gen Epilepsy-Absence	NIE
	28 V	rs.	54	1.1	6	PNES		.79	AS.	35	M	2.5	Normal	nil
	29 P	P	51	6.4	5	PNES	2	80	KU	3.0	5.4	7	Gen Tonic-Symptomatic generalis	- 1
	30 P	HG	34	M	6.5	Normal	Petit	81	RS	38	M	5	BE MILE	5
	31.0	164	24	M	7	Left MTLE	1	82	LG.	61	M	7	Normal	NIE
	32 1	15	4	8.4	6	WS-LGS	2	83	LG	61	P.1	7	Normal	NU
	33 A	AP.	21	5.4	8	RT Parieto-Temporal	3	84	MR	20	M		No localization/laterlization	1
	34 V	es -	24	M	6.25	Rt Post Qudrant Epileps	- Nell	85	NA	21		7.5	Left MTLE	PAUR .
	35.0	iK .	44	14	4.5	Left P-T Epilepsy		86	AK	37	14	7	Left MTLE	0
	36 N	6P	11		- 6	Normal	INIT.	87	AK	17	M	7	Left MTLE	1
	32.7	1	6		6	Rt Frontoploar	PAUL	88	55	42	M	6.5	Left Post temporal	
	38.9	íM.	40	M	5	Left MITLE	1411	89	SN	25	M	7	Normal	NUL
	39 A	s.	5	M		Rt F-C, Left Ant Temoral	NUI	90	SW.		M	6	MisF (left=rt)	NUL
	40 V	ne .	16	8.4	5.5	Pri Gen epielpsy-IME	3	91	15	28		8.5	PGE (JME)	NIE
	41 5	AK.	5	2.4	5.5	LOS	mit	92	BA.	62	1.1	7.5	Left Frontal	1
	42 0	w	12	5.4	7	Normal	PALIN.	93	AN	3.5	5.5		Post quadrant-sec generalised	
	43 0	w	12	14	7	Rt Frontopolar epielpsy	1	-94	A-L	42		7	Left MTLE	NI
	44.5		17			BI MTLE		05	641	42		7	Left MTLE	NU
	45.7	D	51		6	PNES	Multiple	96	PA	11	14		Misf	Not
	46.5	ñ.	3.5	÷.	5	Normal	NI	97	AM	12	1.1	7.5	Rt Post Quadrant Epielpsy	No
	67.6	UP.	Lenth	14	2	Normal	NUT	0.0	545	45	12	7.5	Normal	mil
	48.5		12	64	7.5	BT Frontal-Sec sen	NU	- 99	AD	22	14		PGE (absence)	Nil
	49.5	n	35	1.4	7.5	Normal	Petit.	100	844	17		7.5	Left F-C Enjelowy	
		<u> </u>				the second second						1.00	PROFESSION AND ADDRESS OF ADDRESS	

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Uncommon lesions in the medial temporal lobe presenting with intractable epilepsy



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Introduction: Medial temporal lobe is a major site of seizure origin. Lesions present in the medial temporal lobe might predominantly present with epilepsy which might even be refractory to anti-epileptic drugs. We describe 8 uncommon lesions involving the medial temporal lobe which presented with intractable seizures.

Material and methods: 8 patients were included in the study from July, 2014 to July, 2015 who had presented to a tertiary care centre with seizures which were not controlled on medications. Complete clinical and radiological assessment of these cases was done. Treatment received and the seizure outcome (Engel's grade) were also noted.

Results: 6 cases presented with complex partial seizures out of which 5 had olfactory auras. 5 patients had right sided lesions and remaining 3 had left sided lesions. Among these 8 cases, 2 were tuberculomas and cavernomas each, 1 was epidermoid, 1 was ganglioglioma and 1 was a low grade glioma. All patients had a complete excision of the concerned lesion. Anterior medial temporal lobe resection (including amygdale and hippocampal resection) was performed in all these cases. 7 cases had Engel grade 1 seizure control and 1 had Engel grade 2 seizure control. No significant post-operative complication occurred in any of the patients.

Conclusion: Medial temporal lobe may harbour various pathologies and due to its location, it predisposes the patient for seizures. Lesionectomy when combined with AMTR gives good seizure control.

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RNA-Seq analysis of hippocampal tissues reveals novel candidate genes for drug refractory epilepsy in patients with MTLE-HS



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Array-based profiling studies shows aberrant gene expression patterns during epileptogenesis. We have performed RNAseq analysis of the hippocampal tissues resected from the patients with MTLE-HS to investigate the molecular basis of epileptogenicity and/or pharmacoresistance in MTLE. For non-epileptic control experiments, healthy tissues from tumour margins obtained during tumour surgeries were used. RNA sequencing was performed using standard protocols on Illumina HiSeq 2500 platform. Differential gene expression