	A O	ge of D Inset of (vr)	uration f Illness (vr)	Hvnothesis	PET/CT/MRI	Expert Consensus Epilepsy Surgery Case Conference	Intracranial FFG	Surgerv	Outcome after Surgerv	Seizure-Free H Duration	distopathologic Findings	Neuropsychological Assessment	Noninvasive Video-FFG Monitorine
	2		25	R-F	Hypometabolism	Concordant hypothesis,	R-F	Yes	Seizure-free	12 mo (Engel I)	Unremarkable	L/R-F	Interictal: rare sharp waves
8	00		42	R-T	к-г Unremarkable	Intracranial EEG indicated Concordant hypothesis, intracranial EEG indicated	R-T	Yes	Not seizure- free	1 mo (Engel II)	Hippocampal sclerosis	R-F/T	L-F/ 1; Ictal: K-F/ C Interictal: R-F and L-T; ictal: R-F/T
F 10	10		21	R-F/T	Unremarkable	Concordant hypothesis, intracranial EEG indicated	I	I	I	I	I	R-F/T	Interictal: spikes and focal slowing R-F/T
г	0	-	38	R-F	Unremarkable	Concordant hypothesis, intracranial EEG indicated	Multifocal, core area R-F	I	I	I	I	R-F	Interictal: spikes R-F/C and R-F/T; ictal: R-F/C
M 38	38		4	L/R-T	I	Concordant hypothesis, intracranial EEG indicated	I	I	I	I	I	No localization possible	Interictal: spikes and focal slowing L/R-F/T; ictal: L/R-F/T
ц	0.	•	27	L-T/P/O	Unremarkable	Concordant hypothesis, intracranial EEG indicated	L-T/P/O	Yes	Not seizure- free	12 mo (Engel I)	Unremarkable CNS tissue	No localization possible	Interictal: spikes L-O and L-T/P/O; ictal: L-T/P/O
Σ Σ	12		-	L-F	1	Concordant hypothesis due to eventual medical seizure freedom, no further diagnostics indicated	1	I	1	I	I	1	Interictal: spikes L-F/C; ictal: L-F/C
Σ Σ	ñ	0	4	L-F/T	I	Concordant hypothesis due to eventual medical seizure freedom, no further diagnostics indicated	1	I	I	I	I	L-F/T	Interictal: unremarkable; ictal: L-F/T
Σ	-	5	8	L-T	I	Concordant hypothesis due to eventual medical seizure freedom, no further diagnostics indicated	I	I	I	I	I	No localization possible	Interictal: spikes and slowing L-F/T; ictal: L-F/T
щ		00	34	R-F/T	I	Concordant hypothesis due to medical seizure reduction, no further diagnostics indicated	I	I	I	I		No localization possible	Interictal: unremarkable; ictal: R-F/T
L L	-	0	4	L/R-T	Unremarkable	Concordant hypothesis, intracranial EEG indicated	L/R-T (bilateral)	I	I	I	I	L/R-F/T	Interictal: spikes and slowing L/R-F/T; ictal: L/R-F/T
Σ	-	œ	15	L-T	I	Concordant hypothesis, intracranial EEG indicated, patient declined	Offered	I	I	I	I	L-F/T	Interictal: spikes L/R-F/T; ictal: L-F/T
Σ	-	4	29	L/R-T	I	Concordant hypothesis, intracranial EEG indicated, patient declined	Offered	I	I	I	I	L-F/T	Interictal: spikes R-T; ictal: spikes L/R-T

On-line Table 1: The clinical details of patients with cryptogenic epilepsv

Note:—L/R indicates left/right; F/T/P/O/C, frontal/temporal/parietal/central; —, was not done/not available. ^a Clinical details of the patients comprising patient No., age, sex, age of onset, duration of illness, PET/CT/MRI availability, expert consensus, availability of intracranial EEG data, surgery, outcome after surgery, seizure-free duration, histopathologic findings, neuropsychological assessment, and noninvasive video-EEG monitoring are shown.

On-line Table 2: AUC values for all VBM models at different smoothing levels^a

VBM	4 mm	6 mm	8 mm	10 mm	12 mm	14 mm	16 mm
GMC							
TI	0.09	0.11	0.17	0.26	0.35	0.34	0.30
T1+T2	0.07	0.10	0.16	0.24	0.29	0.23	0.15
T1+FLAIR	0.05	0.10	0.21	0.33	0.42	0.41	0.35
T1+T2+FLAIR	0.09	0.11	0.22	0.30	0.36	0.35	0.29
GMV							
TI	0.08	0.08	0.08	0.12	0.12	0.08	0.04
T1+T2	0.10	0.11	0.11	0.06	0.05	0.02	0.0
T1+FLAIR	0.12	0.05	0.09	0.8	0.12	0.11	0.09
T1+T2+FLAIR	0.15	0.08	0.12	0.11	0.11	0.09	0.06

^a All the AUC values across statistical cutoffs (2.5–6 in a step size of 0.1) are shown for each smoothing level from 4 to 16 mm for all VBM models.

On-line Table 3: VBM findings rated as potentially epileptogenic stratified in concordant and discordant lobes for all models^a

		Co	ncordant Lobe			Di	scordant Lobe	
Case No.	T1	T1+T2	T1+FLAIR	T1+T2+FLAIR	T1	T1+T2	T1+FLAIR	T1+T2+FLAIR
3	-	_	Yes	Yes	Yes	Yes	Yes	Yes
4	Yes	Yes	Yes	Yes	Yes	-	Yes	-
5	Yes	Yes	Yes	Yes	Yes	-	-	-
6	Yes	-	Yes	Yes	_	-	-	-
7	Yes	-	Yes	-	_	-	-	-
9	-	-	-	-	_	Yes	Yes	Yes
10	-	-	-	-	Yes	-	-	-
12	-	-	-	-	Yes	Yes	Yes	Yes
13	-	-	Yes	-	Yes	Yes	Yes	Yes

Note:— - indicates that finding was not present.

^a VBM findings in patients confirmed as potentially epileptogenic across all models for concordant and discordant lobes are presented.



ON-LINE FIG 1. Concordant rate and specificity for TI VBM at variable statistical cutoffs and smoothing levels. Concordant rate and specificity for increasing smoothing levels from 4 to 16 mm are plotted for GMC analysis. As the smoothing level increases, the intersection point moves toward the left (lower T-threshold). FWHM indicates full width at half maximum.



ON-LINE FIG 2. Diagnostic performance for different VBM models. The plots show the concordant rate and specificity for different T-thresholds at 12-mm smoothing for all VBM models (*upper panel*). The *lower panel* shows receiver operating characteristic curves for all VBM models at 12-mm smoothing.