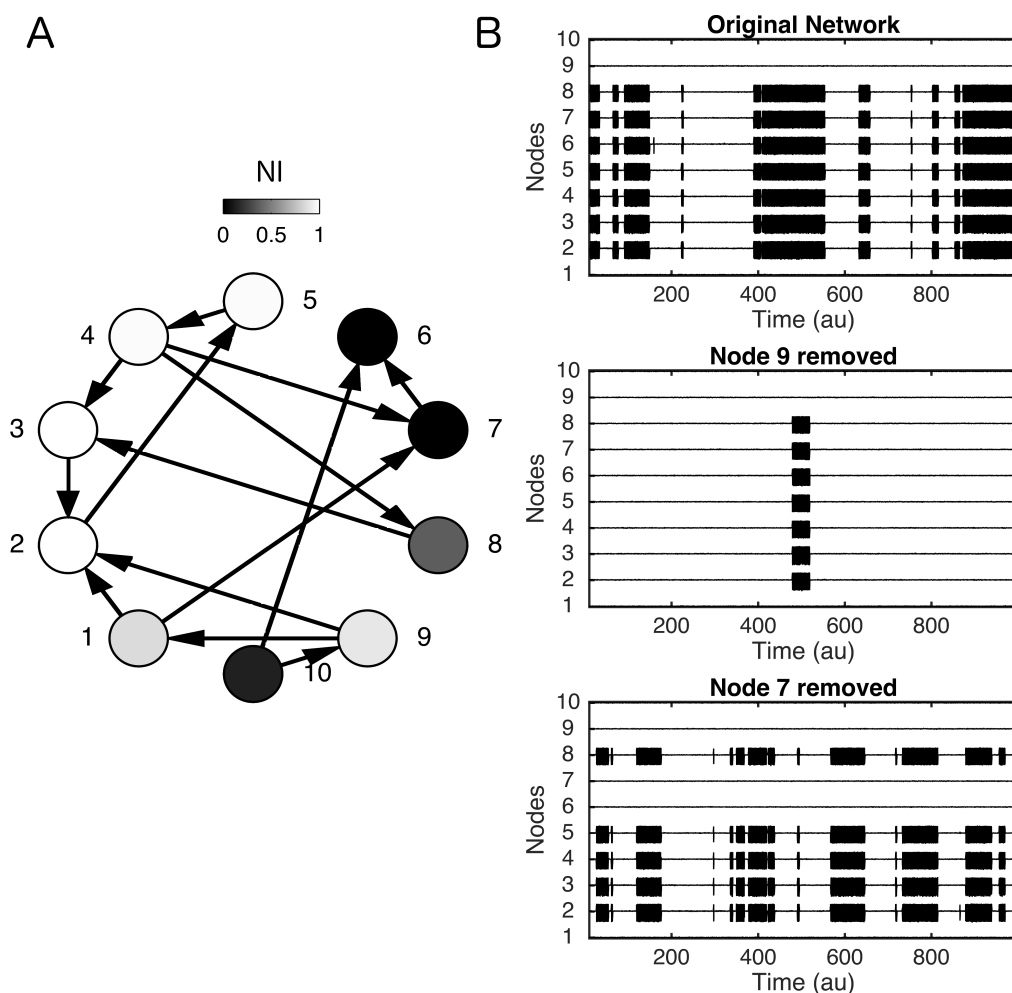


Supplementary Information: Estimation of brain network ictogenicity predicts outcome from epilepsy surgery

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Exemplar ten node network

In order to demonstrate the application of our methods to larger artificial networks, the distribution of NI for a ten node network is shown in Supplementary Figure S1. This larger network serves as an additional example of the potential lack of correspondence between the presence of epileptiform activity and high NI (compare Fig. 3B in the main text).



Supplementary Figure S1: Example of NI calculation in a ten node network. (A) Network structure with grey-scale coded NI. (B) Example model dynamics in the intact network (top) and upon removal of nodes 9 (middle) and 7 (bottom).

Supplementary Table 1: Detailed patient information

Patient	Engel class	Gender	Age (y)	Syn-drome	Hemi-sphere	Lesion MRI visible	Total No. of iEEG channels	No. of artifact free iEEG channels	No. of resected iEEG channels	Resection type	Follow up (y)
1	I	F	26	MTLE	R	y (hippocampal sclerosis)	64	64	20	amygdalo-hippocampectomy	3
2	I	F	48	MTLE	L	y (hippocampal sclerosis)	64	64	13	amygdalo-hippocampectomy	3
3	I	M	27	LTLE	L	n	56	56	5	temporo-lateral resection	1
4	I	M	36	PLE	L	y (pilocytic astrocytoma)	77	74	6	lesionectomy	5
5	I	F	19	MTLE	L	y (hippocampal sclerosis)	44	40	11	amygdalo-hippocampectomy	5
6	I	F	25	FLE/TLE	R	n	104	99	11	temporo-polar resection	4
7	II	F	49	FLE	R	y (focal cortical dysplasia)	102	92	8	lesionectomy	4
8	II	F	46	LTLE	R	n	102	100	13	amygdalo-hippocampektomie	3
9	II	M	20	LTLE	R	n	79	54	14	temporo-polar resection	3
10	II	M	31	LTLE	L	y (hippocampal sclerosis)	74	59	17	temporo-lateral	3
11	II	F	24	LTLE	L	n	50	47	24	temporo-polar resection	3
12	IV	F	38	LTLE	L	n	62	59	2	temporo-lateral resection	4
13	IV	F	23	LTLE	L	n	63	61	10	temporo-lateral resection	2
14	IV	F	59	MTLE	L	y (space occupying amygdala)	52	49	8	lesionectomy	4
15	IV	M	32	PLE	L	y (focal cortical dysplasia)	98	96	4	lesionectomy	2
16	IV	F	31	FLE	R	y (tuberous sclerosis)	37	32	3	lesionectomy	2