

A comparison of evoked and non-evoked functional networks

Supplementary material 2: Results in other patients

Jurgen Hebbink^{1,2}, Dorien van Blooijis¹, Geertjan Huiskamp¹,
Frans S.S. Leijten¹, Stephan A. van Gils² and Hil G.E. Meijer²

¹Department of Neurology and Neurosurgery, Brain Center Rudolf Magnus, University Medical Centre Utrecht, Heidelberglaan 100, 3584 CX Utrecht, The Netherlands

²Department of Applied Mathematics, MIRA Institute for Biomedical Engineering and Technical Medicine, University of Twente, Drienerlolaan 5, 7500 AE Enschede, The Netherlands

October 4, 2018

1 Detailed results of other patients

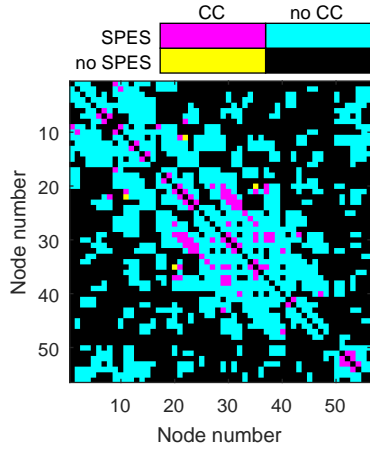
In this appendix we show detailed results of comparing SPES to cross-correlation (CC) and Granger Causality (GC) for patients 1 and 3-6. Figures 1-5 show for each patient the schematic layout of the electrode configuration as well as the comparison between SPES and CC and SPES and GC in the same way as Figures 1 and 3 of the main text. The results in these patients are similar to those of patient 2, which are presented in the main part of our work.

Patient 1

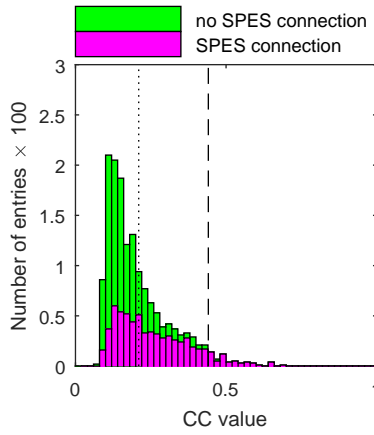
(a) Electrode configuration

56	55	54	53	52	51	50	49
1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48

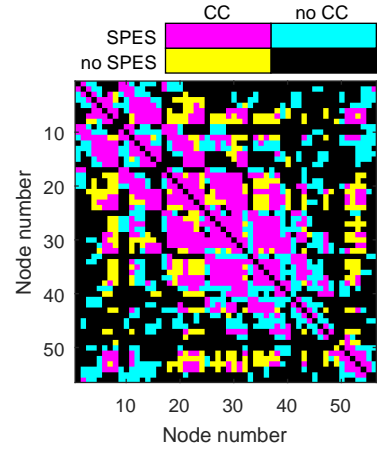
(b) CC: Agreement at h^*



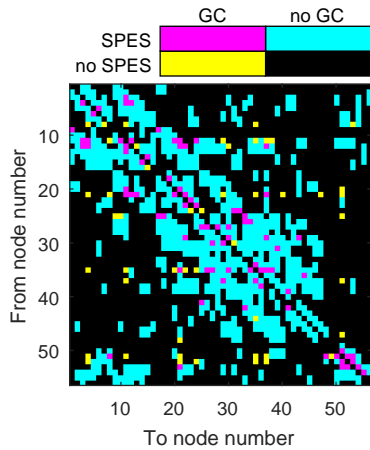
(c) CC: Histogram



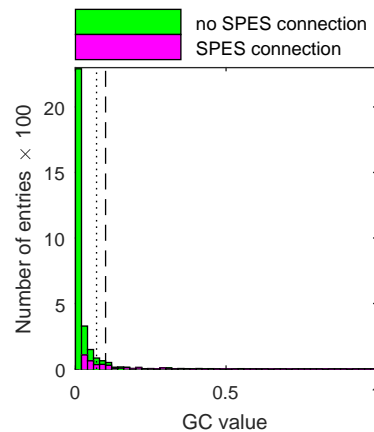
(d) CC: Agreement at h_{ma}



(e) GC: Agreement at h^*



(f) GC: Histogram



(g) GC: Agreement at h_{ma}

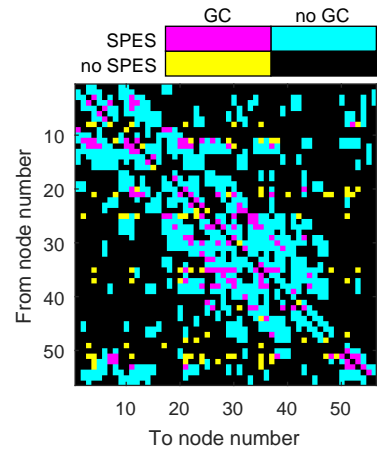
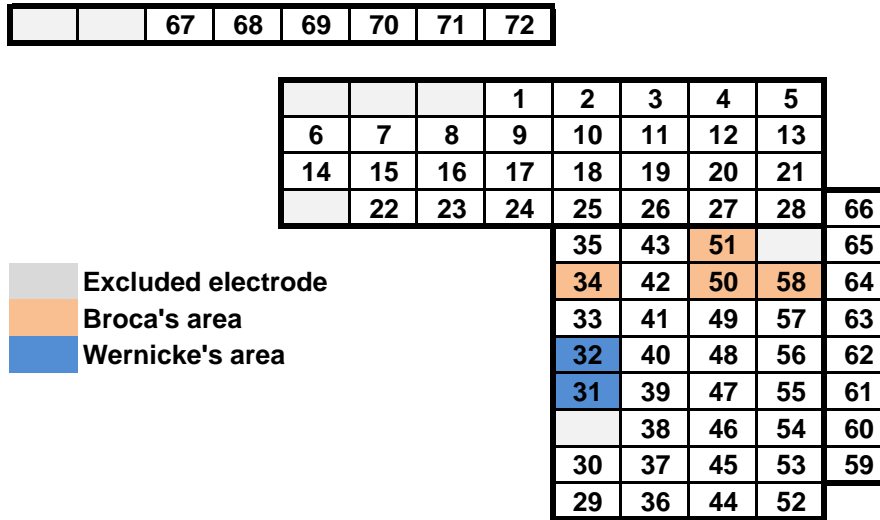


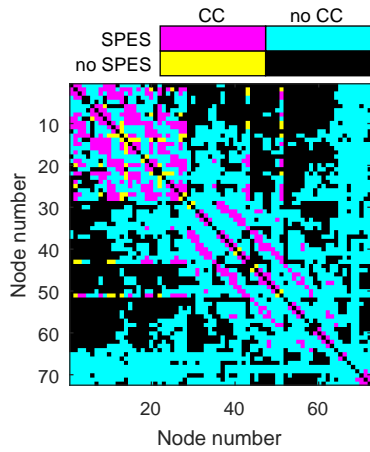
Figure 1: Results for patient 1.

Patient 3

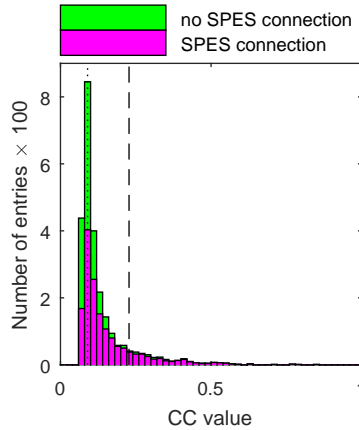
(a) Electrode configuration



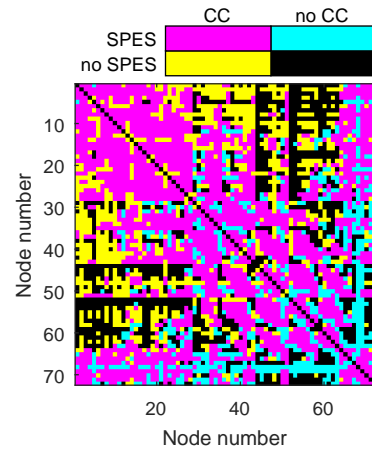
(b) CC: Agreement at h^*



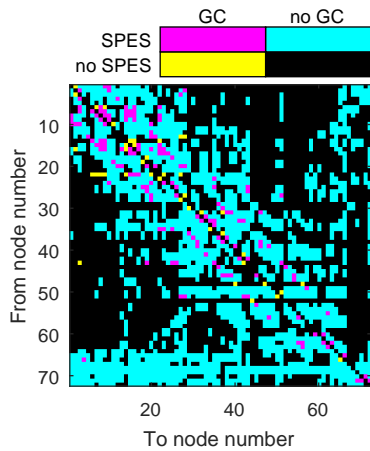
(c) CC: Histogram



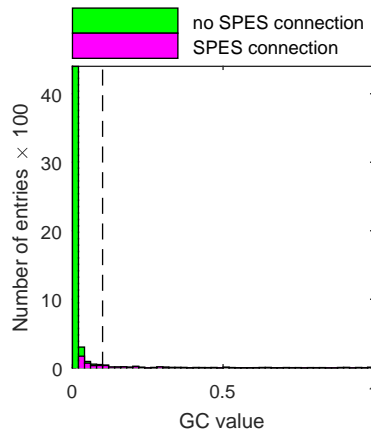
(d) CC: Agreement at h_{ma}



(e) GC: Agreement at h^*



(f) GC: Histogram



(g) GC: Agreement at h_{ma}

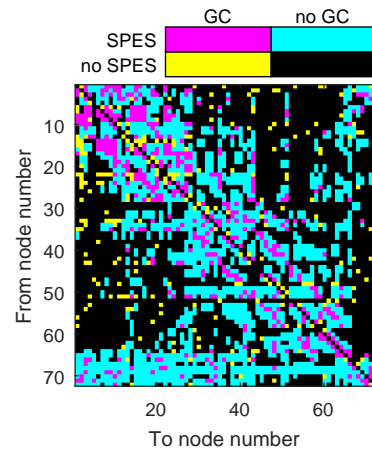
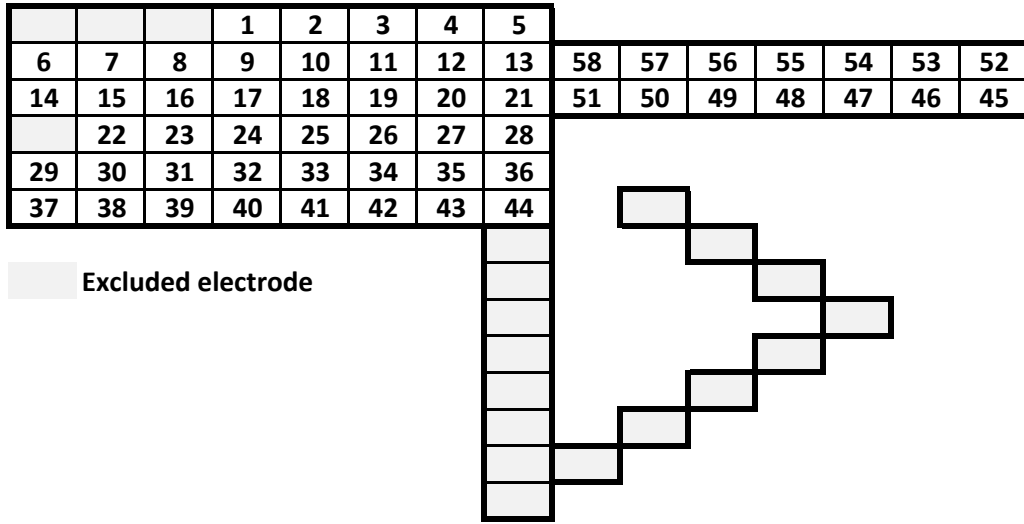


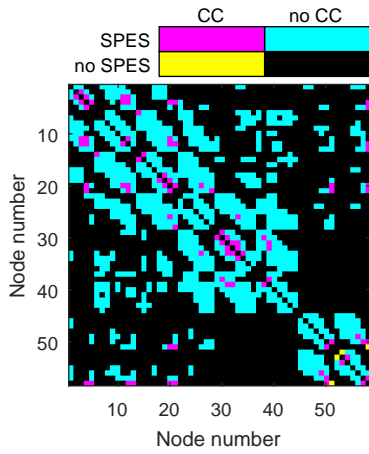
Figure 2: Results for patient 3.

Patient 4

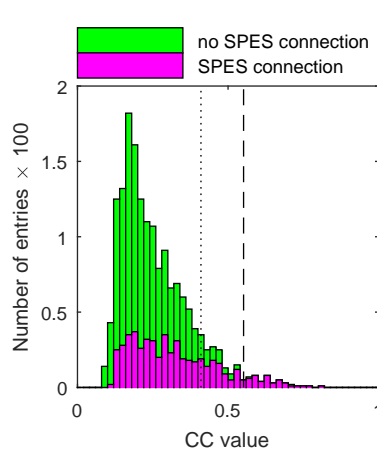
(a) Electrode configuration



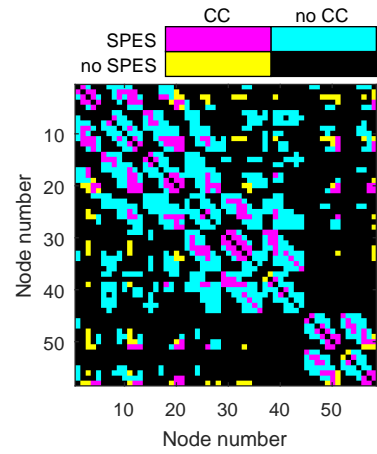
(b) CC: Agreement at h^*



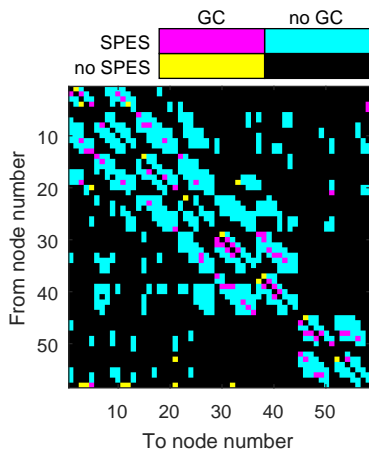
(c) CC: Histogram



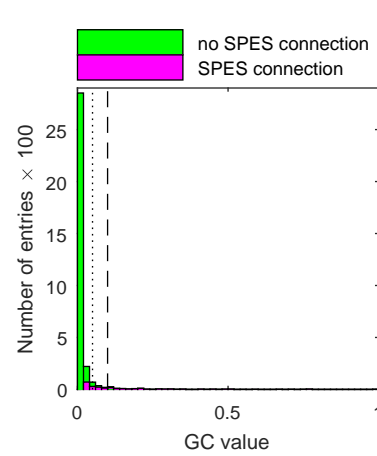
(d) CC: Agreement at h_{ma}



(e) GC: Agreement at h^*



(f) GC: Histogram



(g) GC: Agreement at h_{ma}

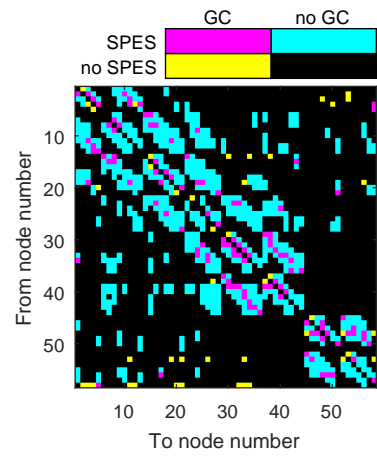
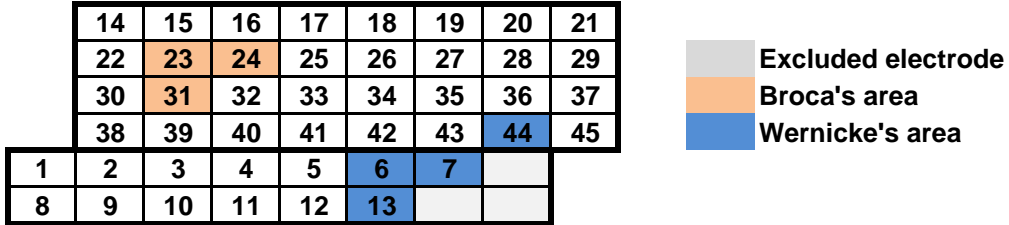


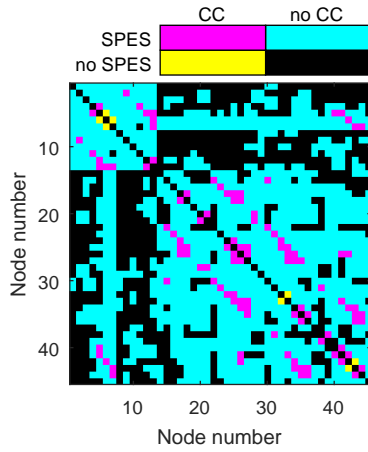
Figure 3: Results for patient 4.

Patient 5

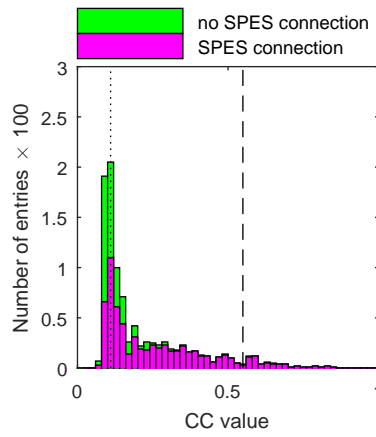
(a) Electrode configuration



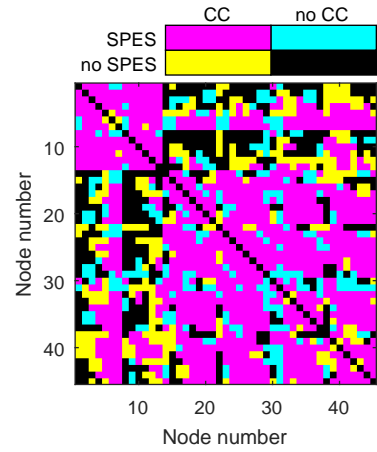
(b) CC: Agreement at h^*



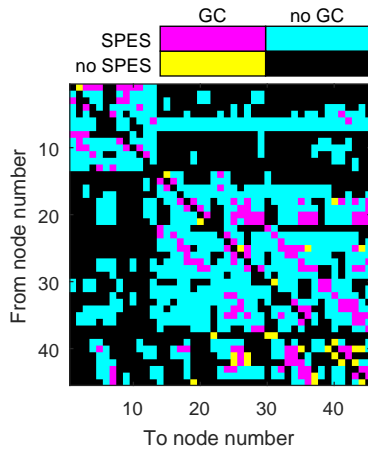
(c) CC: Histogram



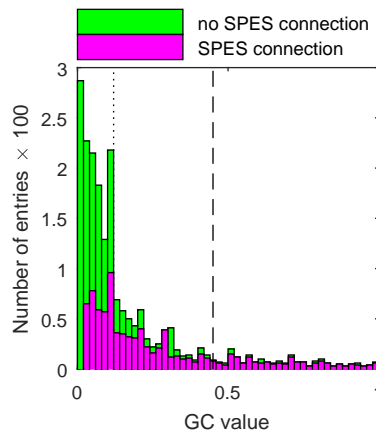
(d) CC: Agreement at h_{ma}



(e) GC: Agreement at h^*



(f) GC: Histogram



(g) GC: Agreement at h_{ma}

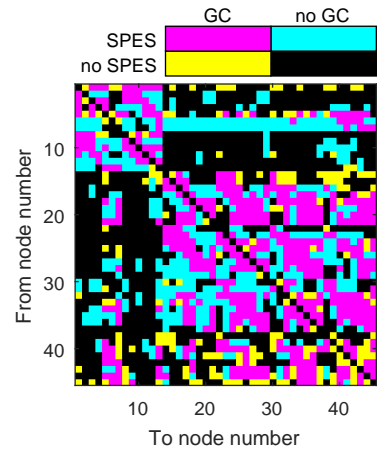
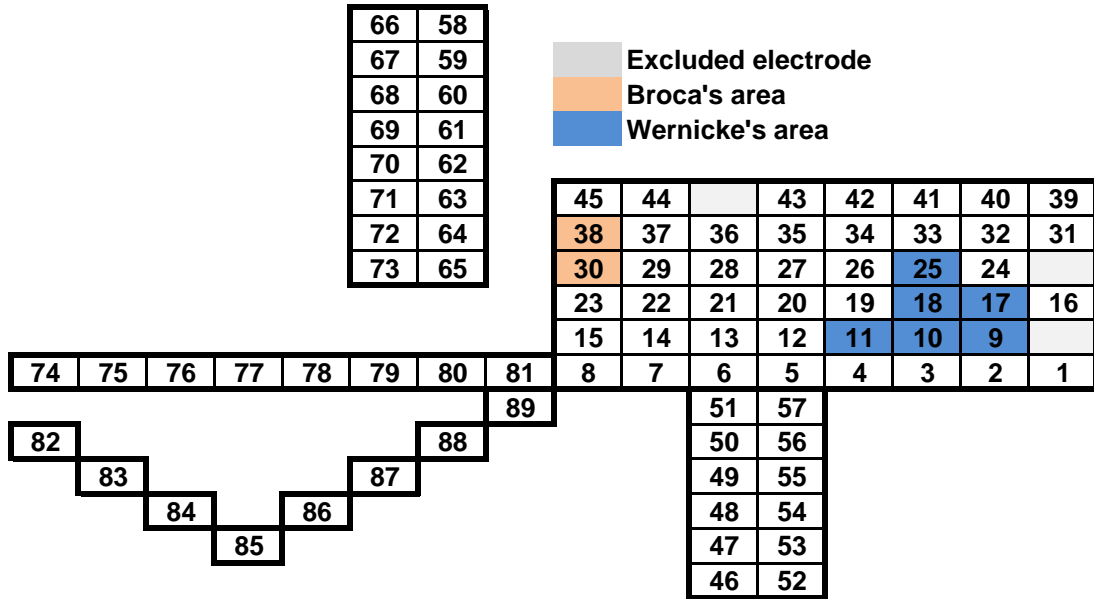


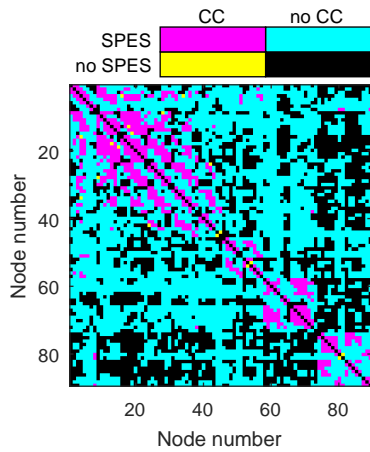
Figure 4: Results for patient 5.

Patient 6

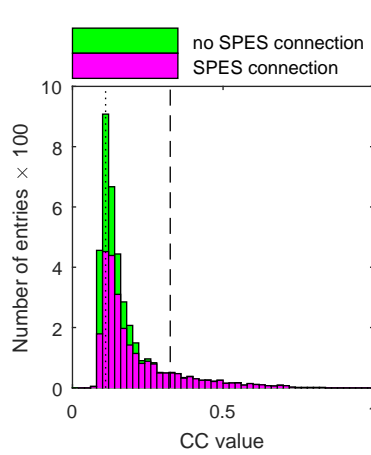
(a) Electrode configuration



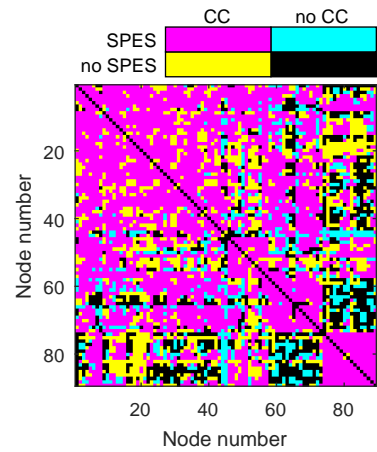
(b) CC: Agreement at h^*



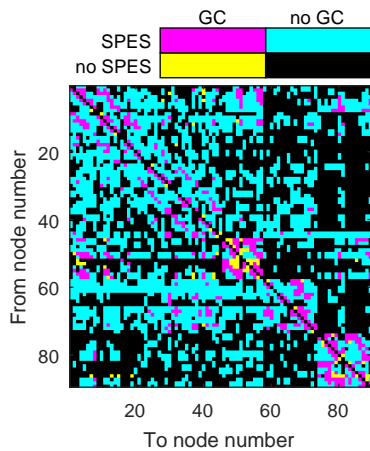
(c) CC: Histogram



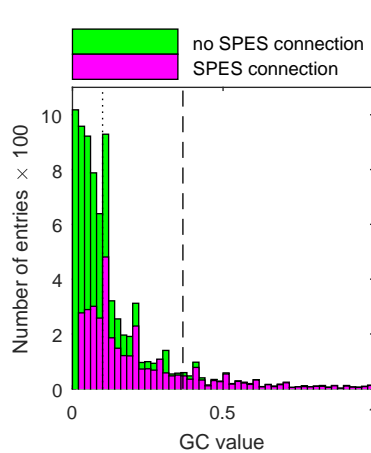
(d) CC: Agreement at h_{ma}



(e) GC: Agreement at h^*



(f) GC: Histogram



(g) GC: Agreement at h_{ma}

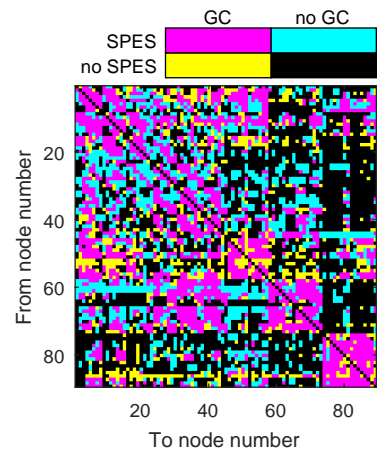


Figure 5: Results for patient 6.