

Appendix 1 to Sierk A, Daniels JK, Manthey A, et al. White matter network alterations in patients with depersonalization/derealization disorder. J Psychiatry Neurosci 2018.

DOI: 10.1503/jpn.170110

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**Table S1**

Intercorrelations between questionnaire scores.

Questionnaire	BDI	CDS_30	CTQ sum	DES	LSAS	STAI-T	DFS functional	DFS dysfunction:	ERQ appraisal	ERQ suppressio n	KIMS	TAS-20
BDI	1	.648**	.166	.650**	.448**	.768**	.723**	-.725**	.435**	-.441**	-.719**	.638**
CDS_30	.648**	1	.303*	.878**	.490**	.616**	.530**	-.456**	.431**	-.389**	-.742**	.665**
CTQ sum	.166	.303*	1	.319*	.537**	.391**	.379*	-.159	.077	-.256	-.455**	.328*
DES	.650**	.878**	.319*	1	.547**	.665**	.544**	-.496**	.397**	-.516**	-.735**	.655**
LSAS	.448**	.490**	.537**	.547**	1	.631**	.488**	-.473**	.210	-.492**	-.674**	.680**
STAI-T	.768**	.616**	.391**	.665**	.631**	1	.853**	-.659**	.447**	-.509**	-.817**	.629**
DFS functional	.723**	.530**	.379*	.544**	.488**	.853**	1	-.655**	.346*	-.365*	-.702**	.493**
DFS dysfunctional	-.725**	-.456**	-.159	-.496**	-.473**	-.659**	-.655**	1	-.409**	.402**	.648**	-.513**
ERQ appraisal	.435**	.431**	.077	.397**	.210	.447**	.346*	-.409**	1	-.123	-.409**	.253

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ERQ suppression	-.441**	-.389**	-.256	-.516**	-.492**	-.509**	-.365*	.402**	-.123	1	.517**	-.549**
KIMS	-.719**	-.742**	-.455**	-.735**	-.674**	-.817**	-.702**	.648**	-.409**	.517**	1	-.795**
TAS-20	.638**	.665**	.328*	.655**	.680**	.629**	.493**	-.513**	.253	-.549**	-.795**	1

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BDI=Beck Depression Inventory; CDS-30=Cambridge Depersonalization Scale; CTQ=Childhood Trauma Questionnaire; DES=Dissociative Experiences Scale; DFS=Questionnaire

for functional and dysfunctional self-focused attention; ERQ=Emotion Regulation Questionnaire; KIMS=Kentucky Inventory of Mindfulness Skills; LSAS=Liebowitz Social

Anxiety Scale; PN=physical neglect score; STAI-T=State-Trait Anxiety Scale, trait version; sum=sum scores; TAS-20=Toronto Alexithymia Scale.

\*p<.05 (2-tailed).

\*\*p<.01 (2-tailed).

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**Table S2**

Results of the partial correlation analysis between mean FA and dissociative severity when using link-based analysis (controlling for age, sex, and handedness). Mean FA of the components significantly correlated negatively with dissociative symptom severity, as measured by the CDS-30.

Components	<i>p</i> <sub>FDR</sub>
Brain stem -- Left caudate	<.001
Right middle temporal gyrus -- Right supramarginal gyrus	<.001
Right medial OFC -- Right caudal ACC	<.001
Left temporal pole -- Left superior temporal gyrus	.002
Left medial OFC -- Left caudal ACC -- Left accumbens area	<.05

ACC=anterior cingulate cortex; CDS=Cambridge Depersonalization Scale;  
DPD=depersonalization/derealization disorder; FDR=false discovery rate;  
OFC=orbitofrontal cortex.

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**Table S3.**

Results of the group comparison when using network-based statistics and controlling for medication effects (in addition to age, sex, and handedness). At an initial-link threshold of  $p_{li}=0.005$ , one sub-network was found comprising 8 nodes (brain regions) and 7 edges (links), for which patients with DPD displayed altered FA values compared to healthy controls ( $p_{FWER}=0.08$ , on a network level).

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Significant sub-network DPD $\neq$ HC
Left superior frontal gyrus ++ Right medial OFC
Right medial OFC ++ Right amygdala
Right amygdala -- Brain stem
Right medial OFC -- Right putamen
Right medial OFC -- Left lateral OFC
Right putamen -- Left medial OFC
Left lateral OFC -- Left pars triangularis

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Minus signs between brain regions (--) represent connections for which patients with DPD displayed lower FA values compared to healthy controls; plus signs between regions (++) represent connections for which patients displayed higher FA values compared to controls; DPD=depersonalization/derealization disorder; FA=fractional anisotropy; FWER=family wise error rate; OFC=orbitofrontal cortex.

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**Table S4.**

Results of the group comparison when using link-based controlling procedure and controlling for medication effects (in addition to age, sex, and handedness). Eight components were found for which patients with DPD displayed significantly different FA values compared to healthy controls (all components significant at  $p_{FDR} < .01$ ).

Size of component	Significant components DPD $\neq$ HC
2 nodes, 1 edge	Left temporal pole -- Left superior temporal gyrus
2 nodes, 1 edge	Right middle temporal gyrus -- Right supramarginal gyrus
2 nodes, 1 edge	Right amygdala -- Brain stem
2 nodes, 1 edge	Right precuneus -- Left lingual gyrus
2 nodes, 1 edge	Right lingual gyrus -- Left fusiform gyrus
2 nodes, 1 edge	Right lateral occipital gyrus -- Left pericalcarine cortex
2 nodes, 1 edge	Left lateral occipital gyrus ++ Left cuneus
8 nodes, 7 edges	Right superior frontal gyrus ++ Left medial OFC
	Left medial OFC -- Right putamen
	Left medial OFC -- Left caudal ACC
	Right putamen -- Right medial OFC
	Right medial OFC -- Left lateral OFC
	Left lateral OFC -- Left pars triangularis
	Left pars triangularis -- Left insula

Minus signs between brain regions ( -- ) represent connections for which patients with DPD displayed lower FA values compared to healthy controls; plus signs between regions ( ++ ) represent connections for which patients displayed higher FA values compared to controls; DPD=depersonalization/derealization disorder; FA=fractional anisotropy; FDR=false discovery rate; HC=healthy controls; OFC=orbitofrontal cortex.