

Table S2: Regions with significant group effects on basic and topological graph properties (uncorrected, $p < 0.05$). Bold indicates significance at $p < 1/N$.

Brain regions		Subacute phase			Late phase		
		PCS-/ctr	PCS+/ctr	PCS+/PCS-	PCS-/ctr	PCS+/ctr	PCS+/PCS-
Frontal	Inferior frontal triangular, R		E_i 0.624				
	Inferior frontal opercular, R				s 0.525 k 0.508 bc 0.492		
	Middle frontal, R		d_e 0.652 E_i 0.999			E_i 0.647	
	Middle frontal orbital, L					E_i 0.871	
	Middle frontal orbital, R	k 0.460	E_n 0.639				
	Superior frontal, L	k -0.473 bc -0.491			k -0.597 E_n -0.697		k 0.659 E_i 0.842 E_n 0.736
	Superior frontal, R					E_i 0.836	s 0.638 k 0.680 E_i 0.731 E_n 0.735
	Superior frontal orbital, R		E_n 0.639				
	Precentral, L					bc -0.699	s -0.664 k -0.762 E_n -0.634
	Rolandic operculum, L		k -0.708 E_n -0.619	E_n -0.619			
Rolandic operculum, R		s -0.804 k -1.041 E_n -1.013 bc -0.857	s -0.592 k -0.775 E_n -0.771 bc -0.637	E_n -0.493		E_i 0.698	
Limbic	Amygdala, R		bc 0.603	bc 0.607			
	Anterior cingulum, R						E_i 0.673
	Middle cingulum, L				bc -0.474	bc -0.873	
	Middle cingulum, R		E_i 0.582	k 0.586			k -0.606
	Hippocampus, L				s -0.492 k -0.540 E_n -0.580		bc 0.586
	Parahippocampus, L		s -0.618 k -0.593 E_n -0.561		s -0.476 E_n -0.509		
	Parahippocampus, R				s -0.634 k -0.567 E_n -0.596		
Temporal	Heschl, R	k -0.476			k -0.556 E_i -0.606 E_n -0.528		
	Superior temporal, L		k -0.686 E_n -0.734	k -0.724 E_n -0.814			
	Superior temporal, R		E_i -0.663				
	Superior temporal pole, L			d_e -0.597 k -0.696 E_i -0.679 E_n -0.574			
	Middle temporal, L						bc 0.604
	Middle temporal, R						ed -0.765 k -0.600
Parietal	Postcentral, L		E_i -0.652	E_i -0.512			
Occipital	Cuneus, R		k 0.670	k 0.605 bc 0.576			
	Lingual, L		s 0.654 k 0.664 bc 0.777	s 0.581 k 0.619 E_i 0.713 bc 0.570	E_i -0.506		E_i 0.628
	Lingual, R		s 0.649 k 0.642				
Subcortical	Thalamus, L		E_i 0.823 E_n 0.795		E_n 0.466		
	Thalamus, R	E_i 0.612 E_n 0.509	s 0.666 k 0.774 E_i 0.927 E_n 0.939		s 0.473 k 0.560 E_n 0.519		

Abbreviations: ctr, controls; d_e , edge diversity; E_i , local efficiency; E_n , nodal efficiency; k , degree; L, left; PCS, post-concussion syndrome; R, right; s , strength. Definition of basic (s and d_e) and topographic (k , E_i , E_n and bc) measures can be found in the subsection "Characteristics of brain network organization using graph theory" of the Materials and Methods section and in the supplementary information section, respectively.