

Network Density=0.15	BDI unadjusted			BDI adjusted		
	mDFC vs DFC	mDFC vs siGGM	DFC vs siGGM	mDFC vs DFC	mDFC vs siGGM	DFC vs siGGM
Global Efficiency (GE)	< 0.0001	0.0003	0.0112	0.1603	0.0063	0.0087
Clustering Coefficient (CC)	< 0.0001	< 0.0001	0.002	0.6287	0.0342	0.0303
Local CC for Visual+Salience	< 0.0001	0.0084	0.0303	< 0.0001	0.0057	0.0238
Local CC for Visual+Subcortical	< 0.0001	< 0.0001	0.0942	0.8142	0.125	0.1313
Local CC for Visual+VAN	< 0.0001	< 0.0001	0.0272	< 0.0001	< 0.0001	0.0659
Local CC for Visual+DAN	< 0.0001	< 0.0001	0.0056	< 0.0001	0.0018	0.9271
Local efficiency (LE) subcortical	< 0.0001	0.0012	0.7129	< 0.0001	0.0001	0.0096
LE for VAN	< 0.0001	< 0.0001	0.0569	< 0.0001	0.0002	0.0517
LE for DAN	< 0.0001	< 0.0001	0.7499	< 0.0001	0.8618	0.0351
LE for Visual+Subcortical	< 0.0001	< 0.0001	0.6393	< 0.0001	0.0002	0.0897
LE for Visual+VAN	< 0.0001	< 0.0001	0.0131	< 0.0001	0.0006	0.1064
LE for Visual+DAN	< 0.0001	< 0.0001	0.2579	< 0.0001	0.0075	0.1727
Network Density=0.10	BDI unadjusted			BDI adjusted		
	mDFC vs DFC	mDFC vs siGGM	DFC vs siGGM	mDFC vs DFC	mDFC vs siGGM	DFC vs siGGM
Global Efficiency(GE)	< 0.0001	0.0557	0.0141	< 0.0001	0.0223	0.0022
Clustering Coefficient(CC)	< 0.0001	0.0443	0.0442	< 0.0001	0.691	0.0352
Local CC for Visual+Salience	< 0.0001	< 0.0001	0.0001	< 0.0001	0.0014	0.3601
Local CC for Visual+Subcortical	< 0.0001	< 0.0001	0.0119	< 0.0001	0.0001	0.0098
Local CC for Visual+VAN	< 0.0001	< 0.0001	0.0026	< 0.0001	0.0001	0.0529
Local CC for Visual+DAN	< 0.0001	< 0.0001	0.0009	< 0.0001	0.0001	0.1005
Local efficiency(LE) Subcortical	< 0.0001	0.0012	0.0023	< 0.0001	0.0003	0.0181
LE for VAN	< 0.0001	< 0.0001	0.0334	< 0.0001	0.0008	0.002
LE for DAN	< 0.0001	0.0053	0.1102	< 0.0001	0.0006	0.0089
LE for Visual+Subcortical	< 0.0001	0.0023	0.5188	< 0.0001	0.0018	0.2093
LE for Visual+VAN	< 0.0001	0.002	0.4319	< 0.0001	0.0025	0.0348
LE for Visual+DAN	< 0.0001	0.0003	0.0726	< 0.0001	0.0009	0.0346
Network Density=0.05	BDI unadjusted			BDI adjusted		
	mDFC vs DFC	mDFC vs siGGM	DFC vs siGGM	mDFC vs DFC	mDFC vs siGGM	DFC vs siGGM
Global Efficiency(GE)	0.0136	0.0252	0.0198	< 0.0001	0.0056	0.0016
Clustering Coefficient(CC)	0.0052	0.1149	0.1156	< 0.0001	0.3085	0.3039
Local CC for Visual+Salience	< 0.0001	0.0248	0.9396	0.0014	0.0116	0.0329
Local CC for Visual+Subcortical	< 0.0001	0.0154	0.753	0.0039	0.0518	0.1149
Local CC for Visual+VAN	< 0.0001	0.0017	0.1556	< 0.0001	0.0007	0.0045
Local CC for Visual+DAN	< 0.0001	0.017	0.5001	< 0.0001	0.0827	0.2382
Local efficiency(LE) subcortical	< 0.0001	0.0016	0.1679	< 0.0001	0.0003	0.0031
LE for VAN	< 0.0001	< 0.0001	0.0008	0.4029	0.0931	0.0733
LE for DAN	< 0.0001	0.001	0.0516	< 0.0001	0.0001	0.0011
LE for Visual+Subcortical	< 0.0001	< 0.0001	0.0015	< 0.0001	0.0004	0.0464
LE for Visual+VAN	< 0.0001	0.0003	0.3401	< 0.0001	0.0002	0.0149
LE for Visual+DAN	< 0.0001	< 0.0001	0.001	< 0.0001	< 0.0001	0.0024

**Table 1.** Reported p-values for testing significant differences in predictive accuracy under the proposed mDFC approach and alternative approaches without adjusting for BDI (columns 2-4) and incorporating BDI (columns 5-7), under the scalar-on-function regression with dynamic network density=0.15, 0.10, and 0.05. The proposed mDFC approach results in dynamic networks that leads to significant improvements in predictive accuracy for both BDI adjusted and unadjusted analyses.