

Supplementary Materials

A. Pre-post changes in network connectivity: results when using stricter inclusion criteria for head motion

Excluding any scan in which greater than 25% of the volumes had a Framewise Displacement (FD) > 0.2mm (N = 33)

Pre-Post (Pooled Groups)

Network Pair	t	df	Mean Diff	95% CI Lower	95% CI Upper	p	p-adj
Control–Default	-2.840	32	-0.011	-0.018	-0.003	0.008**	0.047*
Control–Limbic	-2.681	32	-0.013	-0.023	-0.003	0.012*	0.058.
Default–Salience	-2.506	32	-0.008	-0.015	-0.002	0.018*	0.070.
Default–Limbic	-1.485	32	-0.010	-0.023	0.004	0.147	0.442
Control–Salience	-1.013	32	-0.005	-0.016	0.006	0.319	0.637
Salience–Limbic	-0.298	32	-0.001	-0.011	0.008	0.768	0.768

Paired *t*-tests assessed pre–post changes pooled across groups. *p*-values were adjusted using the Hochberg procedure. *p* < 0.05 (*), *p* < 0.01 (**); trend-level *p* < 0.1 (.)

Active vs Waitlist (Two-Sample t-Tests)

Network Pair	<i>t</i>	<i>df</i>	N Active	N Waitlist	Mean Active	Mean Waitlist	95% CI Lower	95% CI Upper	<i>p</i>	<i>p</i> -adj
Control–Default	1.440	28.938	18	13	0.010	-0.001	-0.005	0.027	0.161	0.321
Default–Salience	3.256	27.063	18	13	0.012	-0.006	0.006	0.028	0.003**	0.018*
Control–Limbic	2.112	21.157	18	13	0.013	-0.005	0.000	0.036	0.047*	0.140
Default–Limbic	0.333	26.230	18	13	0.006	0.002	-0.021	0.029	0.742	0.742
Control–Salience	1.127	23.795	18	13	0.006	-0.007	-0.011	0.037	0.271	0.362
Salience–Limbic	1.052	28.884	18	13	0.008	-0.000	-0.008	0.024	0.301	0.362

Group differences were tested using two-sample *t*-tests comparing Active and Waitlist groups. *p*-values were adjusted using the Hochberg procedure.

p < 0.05 (*), *p* < 0.01 (**); trend-level *p* < 0.1 (.)

Excluding any scan in which greater than 20% of the volumes had FD>0.2mm (N = 31)

Pre-Post (Pooled Groups)

Network Pair	<i>t</i>	<i>df</i>	Mean Diff	95% CI Lower	95% CI Upper	<i>p</i>	<i>p</i> -adj
Control–Default	-2.612	30	-0.010	-0.018	-0.002	0.014*	0.070.
Control–Limbic	-2.458	30	-0.013	-0.023	-0.002	0.020*	0.080.
Default–Salience	-2.716	30	-0.008	-0.014	-0.002	0.011*	0.065.
Default–Limbic	-1.436	30	-0.010	-0.023	0.004	0.161	0.434
Control–Salience	-1.005	30	-0.006	-0.017	0.006	0.323	0.434
Salience–Limbic	-0.794	30	-0.004	-0.013	0.006	0.434	0.434

Active vs Waitlist (Two-Sample t-Tests)

Network Pair	<i>t</i>	<i>df</i>	N Active	N Waitlist	Mean Active	Mean Waitlist	95% CI Lower	95% CI Upper	<i>p</i>	<i>p</i> -adj
Control–Default	1.034	26.967	17	12	0.009	0.001	-0.008	0.025	0.310	0.372
Default–Salience	2.792	25.950	17	12	0.010	-0.005	0.004	0.026	0.010**	0.058.
Control–Limbic	1.789	20.047	17	12	0.012	-0.004	-0.003	0.035	0.089.	0.266
Default–Limbic	0.313	23.618	17	12	0.003	-0.001	-0.022	0.030	0.757	0.757
Control–Salience	1.266	22.300	17	12	0.005	-0.010	-0.010	0.040	0.219	0.333
Salience–Limbic	1.251	26.433	17	12	0.010	-0.001	-0.007	0.027	0.222	0.333

B. Linear regression results testing relationships between pre-to-post changes in between-network connectivity and pre-to-post changes in depressive symptoms (CDI Child and CDI Parent), controlling for baseline CDI scores. While none of the relationships were statistically significant (with p values shown both before and after adjustment using the Benjamini-Hochberg procedure), effect sizes vary from small to medium, with stronger effects that are more consistently negative in directionality for the parent-reported depression scores.

Outcome	Connectivity Change	Estimate	Std. Error	t	$Cohen's d$	p	p -adj
CDI Child	Default–Control	27.08	40.43	0.67	0.24	0.508	0.592
	Limbic–Control	-39.57	30.43	-1.30	0.46	0.203	0.330
	Salience–Default	-27.36	45.32	-0.60	0.21	0.550	0.616
	Limbic–Default	-18.19	20.91	-0.87	0.31	0.391	0.500
	Salience–Control	14.57	26.41	0.55	0.19	0.585	0.638
	Limbic–Salience	33.62	31.63	1.06	0.37	0.296	0.414
CDI Parent	Default–Control	-44.20	40.37	-1.09	0.39	0.282	0.408
	Limbic–Control	-29.99	31.81	-0.94	0.34	0.353	0.456
	Salience–Default	-64.13	48.64	-1.32	0.47	0.197	0.394
	Limbic–Default	-2.23	23.57	-0.09	0.03	0.925	0.948
	Salience–Control	-43.54	27.29	-1.60	0.57	0.121	0.327
	Limbic–Salience	-55.05	33.26	-1.66	0.60	0.108	0.302

C. Means and standard deviations for CDI child and parent reports at each time point.

		Timepoint				
		2-week pre-camp	Pre-camp	Post-camp	2-week post-camp	6-month follow-up
CDI Child	N	18	39	39	19	37
	Mean (SD)	20.72 (6.98)	22.03 (10.41)	18.95 (9.15)	20.74 (11.30)	20.62 (9.55)
CDI Parent	N	18	38	39	19	37
	Mean (SD)	22.33 (5.73)	23.24 (6.06)	18.92 (6.77)	17.74 (4.68)	19.24 (6.50)

D. Results using connectivity change when focusing on negatively-weighted edges

Network Pair	Pre-Post Camp (N = 35)				Active (N = 18) vs Waitlist (N = 15)			
	<i>t</i>	<i>p</i>	<i>p-adj</i>	95% CI	<i>t</i>	<i>p</i>	<i>p-adj</i>	95% CI
Default–Control	-1.392	0.173	0.864	[-0.017, 0.003]	0.287	0.776	0.930	[-0.021, 0.028]
Limbic–Control	-0.800	0.429	0.960	[-0.016, 0.007]	0.623	0.538	0.930	[-0.015, 0.027]
Default–Salience	0.441	0.662	0.960	[-0.015, 0.023]	0.089	0.930	0.930	[-0.044, 0.047]
Default–Limbic	0.051	0.960	0.960	[-0.007, 0.008]	0.438	0.664	0.930	[-0.012, 0.019]
Control–Salience	0.796	0.431	0.960	[-0.008, 0.019]	-0.711	0.482	0.930	[-0.036, 0.017]
Salience–Limbic	1.661	0.106	0.636	[-0.003, 0.030]	-0.906	0.372	0.930	[-0.046, 0.018]

E. Means and standard deviations of between network connectivity per visit, per group

Network Pair	Time Point	Group	N	Mean connectivity	Standard deviation
Control–Default	Pre-camp	Active	20	0.125	0.020
Control–Default	Pre-camp	Waitlist	18	0.121	0.022
Control–Default	Post-camp	Active	18	0.133	0.026
Control–Default	Post-camp	Waitlist	17	0.132	0.022
Control–Limbic	Pre-camp	Active	20	0.084	0.019
Control–Limbic	Pre-camp	Waitlist	18	0.081	0.016
Control–Limbic	Post-camp	Active	18	0.098	0.033
Control–Limbic	Post-camp	Waitlist	17	0.095	0.021
Default–Salience	Pre-camp	Active	20	0.149	0.032
Default–Salience	Pre-camp	Waitlist	18	0.146	0.026
Default–Salience	Post-camp	Active	18	0.157	0.031
Default–Salience	Post-camp	Waitlist	17	0.164	0.035
Default–Limbic	Pre-camp	Active	20	0.135	0.032

Default–Limbic	Pre-camp	Waitlist	18	0.112	0.031
Default–Limbic	Post-camp	Active	18	0.138	0.046
Default–Limbic	Post-camp	Waitlist	17	0.121	0.026
Control–Salience	Pre-camp	Active	20	0.068	0.026
Control–Salience	Pre-camp	Waitlist	18	0.065	0.016
Control–Salience	Post-camp	Active	18	0.076	0.025
Control–Salience	Post-camp	Waitlist	17	0.070	0.020
Salience–Limbic	Pre-camp	Active	20	0.056	0.021
Salience–Limbic	Pre-camp	Waitlist	18	0.062	0.024
Salience–Limbic	Post-camp	Active	18	0.063	0.024
Salience–Limbic	Post-camp	Waitlist	17	0.057	0.018