

Supplementary Table 1. Brain Regions Showing Significant Correlations with Significantly Abnormal T-Scores on the NIHTB Batteries, PROMIS, and with Days since Diagnosis

Brain Regions in Cluster	MNI	Cluster Level		Voxel level
	Coordinates (x,y,z)	<i>p</i> -value (FDR-corrected)	Cluster size (k)	(<i>T</i> -value)
Correlations with Abnormal T-Scores on NIHTB – Emotion Battery				
General_Life_Satisfaction_T ~ Group*BOLD				
Medial Frontal Gyrus	(-6, -12, 64)			4.68
Medial Frontal Gyrus	(-14, -6, 56)	<0.0001	17709	4.65
Superior Frontal Gyrus	(20, -6, 74)			4.12
Fear_Affect_T ~ Group*BOLD				
Sub-Gyral	(38, -62, -2)			3.83
Sub-Gyral	(44, -58, 2)	0.023	5761	3.51
Superior Temporal Gyrus	(56, -42, 14)			3.32
Sadness_T ~ Group*BOLD				
Superior Temporal Gyrus	(56, 0, -4)	<0.0001	11776	4.12
Sub-Gyral	(16, -6, 76)			3.83
Sub-Gyral	(-30, -10, 32)			3.80
Anger_Affect_T ~ Group*BOLD				
Extra-Nuclear	(28, 10, 12)			4.30
Middle Frontal Gyrus	(48, 22, 38)	0.008	6759	4.18
Extra-Nuclear	(38, -14, -4)			3.84
Psychological_WellBeing ~ Group*BOLD				
Sub-Gyral	(-16, -4, 56)			4.74
Medial Frontal Gyrus	(2, -6, 72)	0.001	9918	4.25
Medial Frontal Gyrus	(16, 0, 64)			3.96
Positive_Affect_T Main Effect				
Cingulate Gyrus	(2, -6, 40)			4.39
Superior Frontal Gyrus	(6, 20, 62)	<0.0001	26052	4.35
Sub-Gyral	(22, -14, 66)			4.32
Perceived_Stress_T Main Effect				
Superior Frontal Gyrus	(4, 14, 64)			4.35
Sub-Gyral	(34, -50, 30)	<0.0001	26758	4.19
Sub-Gyral	(-16, -26, 64)			3.95
Correlations with Abnormal T-Scores in NIHTB-Motor Battery				
Peg_Board_Dominant_T ~ Group*BOLD				
Precentral Gyrus	(-20, -18, 76)			4.94
Postcentral Gyrus	(-28, -32, 72)	0.001	9664	4.39
Precentral Gyrus	(46, -10, 34)			4.20
2_mins_Walking_T Main Effect				
Sub-Gyral	(-26, 2, 42)			4.18
Superior Temporal Gyrus	(-58, -14, 4)	0.013	6133	3.78
Postcentral Gyrus	(-60, -8, 18)			3.74
Correlations with Abnormal T-Scores from PROMIS				
Depression_T ~ Group*BOLD				
Insula	(-40, -4, 12)			4.03
Sub-Gyral	(-30, -10, 34)	0.004	7821	3.85
Inferior Parietal Lobule	(-42, -50, 48)			3.84
Anxiety_T Main Effect				
Anterior Cingulate	(-12, 40, 8)			4.47
Extra-Nuclear	(-22, -6, 18)	<0.0001	25298	4.46
Extra-Nuclear	(-22, 4, 18)			4.44
Pain_Interference_T Main Effect				
Precentral Gyrus	(-52, 8, 2)			5.14
Sub-Gyral	(-32, 26, 28)	0.010	6743	4.42
Insula	(-42, 4, 14)			4.34
Pain_Behavior_T Main Effect				
Precentral Gyrus	(-52, 8, 2)			4.40
Middle Frontal Gyrus	(-36, 24, 26)	0.047	4982	4.14
Precentral Gyrus	(-36, -2, 52)			3.61
Global_Mental_Health_T Main Effect				
Sub-Gyral	(-32, -8, 38)			5.27
Medial Frontal Gyrus	(-4, 58, 2)	<0.0001	30384	4.29
Inferior Frontal Gyrus	(-44, 30, -4)			4.26
Correlations with Days since COVID diagnosis				
Cingulate Gyrus	(2, 6, 38)			5.25
Postcentral Gyrus	(22, -42, 74)	<0.0001	11081	4.30
Precuneus	(-18, -42, 62)			4.22