

Table 1

		COVID Positive			
		No		Yes	
		Count	Mean	Count	Mean
Age		25	44.00	76	44.70
Sex	Male	11		22	
	Female	14		54	
Fever	No	0		22	
	Yes	0		36	
Cough	No	0		15	
	Yes	0		45	
Dyspnoea	No	0		15	
	Yes	0		47	
Headache	No	0		18	
	Yes	0		36	
Brain Fog	No	25		62	
	Yes	0		14	
Loss Of Taste	No	0		12	
	Yes	0		46	
Fatigue	No	0		16	
	Yes	0		40	
Supplemental Oxygen	No	0		59	
	Yes	0		17	
Hospitalisation	No	0		47	
	Yes	0		29	

Table 2

		Recovered		COVID Status Long Covid		Unaffected	
		Mean	Count	Mean	Count	Mean	Count
Age		40	10.00	42	22.00	40	60.00
Sex	Male		4		2		15
	Female		6		20		45
Covid+ to scan (days)		46.60		190.77		.	
Brain Fog			0		11		0
Anosmia			0		16		0
QSIT			3		1		NA
Anosmia duration (days)		0		116		.	

Table 3

Region	Unaffected	Recovered	Brain Fog (-)	Brain Fog (+)	P-value	Q-value	Discovery?
PercentBrainRatio	86.976	84.749	86.775	84.069	0.00322876	0.00834107	Yes
Cerebrumrightvolume	38.396	37.007	38.265	37.085	0.0017378	0.00538718	Yes
Cerebrumleftvolume	38.406	37.237	38.301	37.072	0.00232802	0.00656073	Yes
CerebrumWMrightvolume	17.895	15.987	17.187	16.376	0.00000364	0.00003761	Yes
CerebrumWMleftvolume	17.899	16.082	17.234	16.441	0.00000867	0.00005375	Yes
CerebrumGMrightvolume	20.5	21.02	21.078	20.709	0.08808209	0.13652726	No
CerebrumGMleftvolume	20.506	21.155	21.066	20.631	0.04816969	0.08295893	No
Cerebellumrightvolume	4.777	4.657	4.742	4.586	0.31647695	0.40878279	No
Cerebellumleftvolume	4.758	4.7	4.799	4.629	0.57643941	0.63820076	No
CerebellumWMrightvolume	1.257	1.077	1.096	1.018	0.00000007	0.00000217	Yes
CerebellumWMleftvolume	1.245	1.086	1.111	1.032	0.00000715	0.00005375	Yes
CerebellumGMrightvolume	3.52	3.58	3.645	3.568	0.57332507	0.63820076	No
CerebellumGMleftvolume	3.512	3.614	3.688	3.597	0.19031807	0.2681755	No
Brainstemvolumeccm3	20.009	18.676	20.228	18.267	0.02326205	0.04507032	Yes
Amygdalavolumeccm3	1.975	1.993	2.024	2.024	0.75259271	0.7767759	No
Hippocampustotalvolumeccm3	8.008	7.594	7.871	7.716	0.36623584	0.45177981	No
CerebroSpinalFluidvolume	11.529	14.321	11.761	14.567	0.00084	0.00316476	Yes
Frontalrightthicknessmm	2.349	2.281	2.243	2.194	0.064730096	0.10561227	No
Frontalleftthicknessmm	2.287	2.179	2.146	2.105	0.015352039	0.03172747	Yes
Temporalrightthicknessmm	2.998	3.025	3.028a	2.928	0.701418095	0.74979176	No
Temporalleftthicknessmm	3.058	3.138	3.073	2.973	0.378912071	0.45177981	No
Parietalrightthicknessmm	1.882	1.798	1.875	1.76	0.204459621	0.27557598	No
Parietalleftthicknessmm	1.921	1.859	1.934	1.775	0.152330209	0.22486839	No
Occipitalrightthicknessmm	1.987	2.173	2.232	2.079	0.00091885	0.00316476	Yes
Occipitalleftthicknessmm	2.009	2.201	2.228	2.121	0.003529826	0.00841722	Yes
Frontalpoletotalthicknessmm	2.420	2.035	2.042	1.998	0.0000023	0.00003565	Yes
Superiorfrontalgyrusmm	2.132	1.932	1.871	1.87	0.0000389	0.00020098	Yes
Inferiortemporalgyrusmm	3.210	3.516	3.384	3.361	0.0044412	0.00983409	Yes
Middletemporalgyrusmm	3.025	2.99	2.983	2.785	0.0274705	0.05009326	No
Superiortemporalgyrusmm	2.488	2.302	2.425	2.181	0.0000881	0.00039016	Yes
Temporalpolemm	3.536	3.605	3.485	3.592	0.7767759	0.7767759	No

Table 4

Gene	Forward (5'-3')	Reverse (5'-3')
<i>TNF</i>	CTGGGCAGGTCTACTTTGGG	CTGGAGGCCCCAGTTTGAAT
<i>IL8</i>	CTCTGTGTGAAGGTGCAGTTTG	TTCCTTGGGGTCCAGACAGA
<i>IFNA</i>	TGAAGGACAGACATGACTTTGG	TCCTTTGTGCTGAAGAGATTGA
<i>IFNB</i>	GCGACACTGGTCGTGTTGTTG	GCTGTCGTGGAGAAGCACAA
<i>ICAM1</i>	CGACTGGACGAGAGGGATTG	GATAGGTTGAGGGAGGCGTG
<i>VCAM1</i>	ACGCTGACAATGAATCCTGTT	AATCTGAGCAGCAATCCGGG
<i>ACTIN</i>	GGGAAATCGTGCGTGACAT	GTGATGACCTGGCGTCAG