Supplementary Table 1: Brain Involvement and Vitamin D Level Characteristics

Subject ID	Race/ Ethnicity	Age at most recent visit (years)	Brain*	MRI extent (1-8)	MRI severity (8-32)	Lowest Level (ng/mL)	Offset between lowest level and NS (days)**	Total Neuroscore at lowest level (0-15)	Highest-level (ng/mL)	Offset between lowest level and NS (days)**	Total Neuroscore at highest level (0-15)
1	Black	15.03	B	4	10	6.3	16	5	53.2	86	2
2	White	19.89	U	5	21	28.0	0	8	62.7	24	9
3	Asian	14.28	U	4	16	27.0	0	5	38.0	6	5
4	Black	6.68	B	6	18	31.8	20	10	44.9	48	8
5	White	9.16	U	-	-	26.2	-7	4	47.0	-43	6
6	Black	1.93	B	-	-	26.0	14	6	36.0	0	7
7	White	4.93	U	2	11	46.9	-7	4	52.0	0	2
8	White	2.33	B	6	15	38.0	49	0	52.0	-13	1
9	White	7.87	U	-	-	23.0	0	3	43.3	49	4
10	Black	7.87	B	-	-	27.6	6	7	38.0	43	7
11	Mixed	15.75	U	1	9	25.5	-4	2	76.8	80	2
12	White	17.17	U	4	16	23.0	13	5	49.5	30	5
13	White	12.89	U	5	15	33.0	0	3	60.0	-3	4
14	White	3.22	U	5	12	39.1	-5	0	45.0	87	2
15	Asian	5.69	U	-	-	19.0	52	3	50.6	12	3
16	White	3.29	U	2	10	33.0	11	0	37.9	17	0
17	His/Lat	14.01	U	-	-	17.8	8	8	22.7	6	8
18	White	14.67	U	4	13	40.0	-8	3	41.0	-49	4
19	White	12.27	U	4	19	24.0	57	9	35.1	3	9
20	His/Lat	1.36	B	-	-	34.1	34	15	38.3	16	15
21	Black	6.62	U	7	23	28.0	2	9	39.0	-15	8
22	White	8.95	U	-	-	37.0	-35	7	42.0	76	8
23	Black	17.94	U	2	10	17.0	0	4	31.0	0	2
24	White	5.46	U	2	13	27.0	-38	4	37.0	67	4
25	Black	14.75	B	8	26	16.0	0	8	73.0	-67	5
26	Asian	13.05	U	4	19	28.4	56	7	34.4	-16	6
27	Black	3.42	U	4	16	38.4	17	5	47.8	13	5
28	Asian	4.2	B	4	20	18.0	12	6	22.0	-24	5
29	Black	19.52	U	2	11	20.1	-10	5	30.0	-19	4

*Where B= bilateral brain involvement and U= unilateral brain involvement
His/Lat= Hispanic or Latino
"- "= missing
**Where negative values indicate the neuroscore was completed before the vitamin D level, and positive values indicate the neuroscore was completed after the vitamin D level.