

Table e-1: Correlation matrix in full cohort.

| | Nodular count | Spread/fill-sulcal | Spread/fill-gyral | Spread/fill-infratentorial | Spread/fill count | LME - Any count |
|-------------------------|----------------------|---------------------------|--------------------------|-----------------------------------|--------------------------|------------------------|
| Leukocortical CL Count | 0.02 | 0.28 | -0.07 | -0.04 | 0.11 | 0.09 |
| Leukocortical CL Volume | 0.14 | 0.16 | -0.02 | -0.11 | 0.08 | 0.11 |
| Intracortical CL Count | -0.05 | 0.22 | -0.08 | -0.15 | 0.08 | 0.04 |
| Intracortical CL Volume | 0.02 | 0.12 | -0.11 | -0.21 | <0.01 | -0.01 |
| Subpial CL Count | <-0.01 | -0.03 | -0.12 | -0.20 | -0.09 | -0.10 |
| Subpial CL Volume | -0.02 | -0.01 | -0.01 | -0.20 | -0.03 | -0.03 |
| Hippocampal CL Count | -0.02 | 0.32* | 0.11 | 0.08 | 0.21 | 0.17 |
| Hippocampal CL Volume | -0.02 | 0.27 | 0.10 | 0.05 | 0.17 | 0.14 |
| Total CL Count | <0.01 | 0.27 | -0.06 | -0.08 | 0.11 | 0.09 |
| Total CL Volume | 0.05 | 0.17 | 0.03 | -0.16 | 0.11 | 0.11 |
| Cortical GM Volume | -0.18 | -0.27 | -0.06 | -0.23 | -0.20 | -0.23 |
| Mean Cortical Thickness | 0.19 | -0.39* | -0.37* | -0.29 | -0.51** | -0.43** |
| Cerebral WM Volume | 0.03 | 0.11 | 0.24 | 0.38* | 0.24 | 0.24 |
| WM Lesion Volume | 0.14 | 0.22 | 0.07 | 0.06 | 0.13 | 0.16 |

Spearman correlation ρ value shown. All volumes were normalized to intracranial volume to adjust for head size prior to performing correlation testing. CL = cortical lesion. GM = gray matter. WM = white matter. LME = leptomeningeal enhancement. * = $p < 0.05$. ** = $p < 0.01$.

Table e-2: Comparison of CLs and segmented volumes in those with > 1 foci versus ≤ 1 foci of LME in full cohort.

| | Nodular | | Spread/fill-sulcal | | Spread/fill-gyral | | Spread/fill-infratentorial | | Spread/fill-All | | Any LME | |
|-------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|----------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| | > 1 | ≤ 1 | > 1 | ≤ 1 | > 1 | ≤ 1 | > 1 | ≤ 1 | > 1 | ≤ 1 | > 1 | ≤ 1 |
| Leukocortical Count | 16 (6 – 69) | 17 (2 – 69) | 19 (6 – 69) | 16 (2 – 39) | 15.5 (2 – 69) | 19 (2 – 39) | N/A | 17 (2 – 69) | 16 (2 – 69) | 17.5 (2 – 39) | 16 (2 – 69) | 19.5 (2 – 39) |
| Leukocortical CL Volume | 254.1 (100.7 – 350.9) | 181.2 (18.2 – 515.6) | 213.2 (56.0 – 503.6) | 182.6 (18.2 – 515.6) | 179.9 (18.2 – 429.1) | 183.6 (36.1 – 515.6) | N/A | 183.6 (18.2 – 515.6) | 198.1 (18.2 – 503.6) | 181.2 (36.1 – 515.6) | 198.1 (18.2 – 503.6) | 181.2 (36.1 – 515.6) |
| Intracortical CL Count | 4 (0 – 10) | 4 (0 – 130) | 5.5 (0 – 13) | 4 (0 – 12) | 3.5 (0 – 13) | 5 (0 – 12) | N/A | 4 (0 – 13) | 4 (0 – 13) | 4.5 (0 – 12) | 4 (0 – 13) | 5 (0 – 12) |
| Intracortical CL Volume | 33.5 (0 – 52.7) | 21.7 (0 – 91.1) | 24.5 (0 – 91.1) | 22.5 (0 – 70.9) | 20.4 (0 – 91.1) | 27.2 (0 – 58.3) | N/A | 22.5 (0 – 91.1) | 22.5 (0 – 91.1) | 24.7 (0 – 57.0) | 22.5 (0 – 91.1) | 24.7 (0 – 57.0) |
| Subpial CL Count | 2 (0 – 6) | 2 (0 – 7) | 1.5 (0 – 6) | 2 (0 – 7) | 1.5 (0 – 6) | 2 (0 – 7) | N/A | 2 (0 – 7) | 1 (0 – 6) | 3 (0 – 7) | 1 (0 – 6) | 3 (0 – 7) |
| Subpial CL Volume | 97.4 (0 – 148.8) | 47.7 (0 – 708.70) | 63.5 (0 – 215.4) | 45.4 (0 – 708.7) | 63.5 (0 – 215.4) | 45.4 (0 – 708.7) | N/A | 50.0 (0 – 708.7) | 18.9 (0 – 215.4) | 71.6 (0 – 708.7) | 18.9 (0 – 215.4) | 71.6 (0 – 708.7) |
| Hippocampal CL Count | 0 (0 – 2) | 1 (0 – 7) | 1.5 (0 – 7) | 1 (0 – 6) | 1.5 (0 – 7) | 1 (0 – 6) | N/A | 1 (0 – 7) | 1 (0 – 7) | 1 (0 – 5) | 1 (0 – 7) | 1 (0 – 5) |
| Hippocampal CL Volume | 0 (0 – 13.9) | 0 (0 – 1) | 21.2 (0 – 99.1) | 7.3 (0 – 172.0) | 15.7 (0 – 155.7) | 6.6 (0 – 172.0) | N/A | 9.3 (0 – 172.0) | 13.9 (0 – 155.7) | 7.0 (0 – 172.0) | 9.6 (0 – 155.7) | 7.0 (0 – 172.0) |
| Total CL Count | 24 (8 – 69) | 23 (2 – 82) | 27 (6 – 82) | 23 (2 – 54) | 22.5 (2 – 82) | 25 (2 – 54) | N/A | 23 (2 – 82) | 23 (2 – 82) | 23.5 (2 – 54) | 23 (2 – 82) | 25 (2 – 54) |
| Total CL Volume | 373.4 (114.6 – 529.5) | 299.9 (18.2 – 1356.5) | 367.8 (56.0 – 641.1) | 290.3 (18.2 – 1356.5) | 350.4 (18.2 – 641.1) | 296.2 (36.1 – 1356.5) | N/A | 323.7 (18.2 – 1356.5) | 367.1 (18.2 – 641.1) | 285.8 (36.1 – 1356.5) | 367.1 (18.2 – 641.1) | 285.8 (36.1 – 1356.5) |
| Cortical GM Volume | 475671.6 (427561.5 – 519537.1) | 471702.3 (400895.9 – 555095.6) | 468096.8 (400895.9 – 555095.6) | 471934.3 (425828.3 – 425828.3) | 464201.4 (400895.9 – 507250.3) | 486036.3 (425828.3 – 555095.6) | N/A | 471934.3 (400895.9 – 555095.6) | 471934.3 (400895.9 – 555095.6) | 478753.2 (425828.3 – 523555.3) | 471934.3 (400895.9 – 555095.6) | 478753.2 (425828.3 – 523555.3) |
| Mean Cortical Thickness | 3.42 (3.27 –) | 3.41 (3.09 –) | 3.30 (3.11 –) | 3.43* (3.09 –) | 3.35 (3.12 –) | 3.46* (3.09 –) | N/A | 3.41 (3.09 –) | 3.36 (3.11 –) | 3.47* (3.09 –) | 3.39 (3.11 –) | 3.47 (3.09 –) |

| | 3.47) | 3.65) | 3.54) | 3.65) | 3.54) | 3.65) | | 3.65) | 3.56) | 3.65) | 3.56) | 3.65) |
|--------------------|---------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Cerebral WM Volume | 430617.5 (376683.5 – 533693) | 445930.8 (373890.3 – 544424.1) | 450680.2 (378126.2 – 544424.1) | 445505.9 (373890.3 – 540483.4) | 444209.8 (373890.3 – 544424.1) | 446208.8 (381180.8 – 528407.4) | N/A | 445652.8 (373890.3 – 544424.1) | 445652.8 (373890.3 – 544424.1) | 450383.1 (381180.8 – 528407.4) | 446208.8 (373890.3 – 544424.1) | 444363.8 (381180.8 – 528407.4) |
| WM Lesion Volume | 5320.0 (2091.8 – 18380.5) | 2771.7 (51.7 – 19385.8) | 4955.4 (1007.3 – 19175.7) | 2747.5 (51.7 – 19385.8) | 4569.0 (175.3 – 19175.7) | 2747.5 (51.7 – 19385.8) | N/A | 2821.4 (51.7 – 19385.8) | 3332.3 (175.3 – 19175.7) | 2753.6 (51.7 – 19385.8) | 3332.3 (175.3 – 19175.7) | 2717.2 (51.7 – 19385.8) |

Median (range) values shown. Raw volumes (mm³) shown, but normalized values used for statistical comparisons. Mean cortical thickness in mm. Wilcoxon rank sum testing for comparisons between groups. CL = cortical lesion. GM = gray matter. WM = white matter. LME = leptomenigeal enhancement. N/A = not applicable (no participants had > 1 spread/fill-infratentorial foci). * = p < 0.05. ** = p < 0.01.