

Supplement S2: Brain, lesion, hippocampal and dentate gyrus volumes

Statistical differences between sham and MCAO groups

Brain volume

6 month group:

sham Mdn = 203 mm³; IqR = 38.50

MCAO Mdn = 194 mm³; IqR = 33.50; U = 29.50; n = 16; p = 0.235

7.5 month group:

sham Mdn = 192 mm³; IqR = 30.50

MCAO Mdn = 192 mm³; IqR = 44.00; U = 41.00; n = 16; p = 0.780

9 month group:

sham Mdn = 215 mm³; IqR = 21.75

MCAO Mdn = 143 mm³; IqR = 74.00; U = 6.00; n = 12 ; p = 0.109

20 month group:

sham Mdn = 204 mm³; IqR = 9.91

MCAO Mdn = 195 mm³; IqR = 16.86; U = 25.00; n = 17; p = 0.113

Hippocampal volume

6 month group:

sham Mdn = 6.1 mm³; IqR = 22.50

MCAO Mdn = 5.2 mm³; IqR = 16.00; U = 6.50; n = 10; p = 0.222

7.5 month group:

sham Mdn = 5.4 mm³; IqR = 21.25

MCAO Mdn = 5.1 mm³; IqR = 19.25; U = 8.00; n = 11; p = 0.247

9 month group:

sham Mdn = 5.7 mm³; IqR = 13.25

MCAO Mdn = 3.5 mm³; IqR = 28.25; U = 4.00; n = 10; p = 0.114

Dentate gyrus volume

6 month group:

sham Mdn = 0.67 mm³; IqR = 0.18

MCAO Mdn = 0.65 mm³; IqR = 0.13; U = 27.00; n = 16; p = 0.500

7.5 month group:

sham Mdn = 0.55 mm³; IqR = 0.13

MCAO Mdn = 0.72 mm³; IqR = 0.39; U = 11.00; n = 13; p = 0.222

9 month group:

sham Mdn = 0.58 mm³; IqR = 0.05

MCAO Mdn = 0.45 mm³; IqR = 0.28; U = 8.00; n = 12; p = 0.214

20 month group:

sham Mdn = 0.60 mm³; IqR = 0.07

MCAO Mdn = 0.62 mm³; IqR = 0.17; U = 6.00; n = 10; p = 0.172

Statistical differences within the MCAO groups

Brain volume

6m *versus* 7.5m: U = 25.50, n = 15, p = 0.635

6m *versus* 9m: U = 6.00, n = 10, p = 0.257

7.5m *versus* 9m: U = 6.00, n = 10, p = 0.257

6m *versus* 20m: U = 23.00, n = 16, p = 0.492

7.5m *versus* 20m: U = 45.00, n = 20, p = 0.739

9m *versus* 20m: U = 10.00, n = 14, p = 0.188

Lesion volume

6 month group: Mdn = 2.9 mm³; IqR = 1.25

7.5 month group: Mdn = 2.1 mm³; IqR = 0.50

9 month group: Mdn = 2.4 mm³; IqR = 1.00

20 month group: Mdn = 1.89 m³; IqR = 0.82

6m *versus* 7.5m: U = 18.00, n = 15, p = 0.220

7.5m *versus* 9m: U = 15.00, n = 10, p = 0.539

6m *versus* 9m: U = 9.00, n = 10, p = 0.610

6m *versus* 20m: U = 4.00, n = 12, p = 0.024

7.5m *versus* 20m: U = 20.00, n = 16, p = 0.313

9m *versus* 20m: U = 20.00, n = 16, p = 0.257

Statistical differences within the sham groups

Brain volume

6m *versus* 7.5m: U = 56.00, n = 24, p = 0.519

7.5m *versus* 9m: U = 6.50, n = 17, p = 0.002

6m *versus* 9m: U = 25.00, n = 23, p = 0.024

6m *versus* 20m: U = 65.00, n = 24, p = 0.907

7.5m *versus* 20m: U = 29.00, n = 18, p = 0.340

9m *versus* 20m: U = 7.00, n = 17, p = 0.004