

The Alteration of Brain Interstitial Fluid Drainage with Myelination Development

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SUPPLEMENTARY DATA

Supplementary Table 1. Thickness and maturity of myelin

	10day	20day	30day	40day	60day	80day
MSTHMD (μm)	0.14 \pm 0.07	0.15 \pm 0.05	0.18 \pm 0.05	0.24 \pm 0.07	0.32 \pm 0.10	0.32 \pm 0.09
MSTHED (μm)	0.15 \pm 0.05	0.16 \pm 0.04	0.20 \pm 0.05	0.23 \pm 0.05	0.32 \pm 0.09	0.31 \pm 0.06
G-ratio	0.83 \pm 0.06	0.78 \pm 0.05	0.69 \pm 0.06	0.67 \pm 0.07	0.65 \pm 0.07	0.65 \pm 0.06

Supplement Table 2. Parameters of ECS structure and ISF drainage.

	10day	20day	30day	40day	60day	80day
$T_{1/2}$	45.39 \pm 9.78	40.90 \pm 7.54	61.07 \pm 8.12	75.40 \pm 17.00	84.01 \pm 22.85	102.15 \pm 23.07
α (%)	1.73 \pm 0.03	1.80 \pm 0.03	1.76 \pm 0.03	1.74 \pm 0.04	1.73 \pm 0.02	1.73 \pm 0.02
λ	1.74 \pm 0.09	1.61 \pm 0.05	1.69 \pm 0.05	1.71 \pm 0.06	1.74 \pm 0.04	1.82 \pm 0.08
D ($\times 10^{-4} \text{mm}^2/\text{s}$)	3.34 \pm 0.33	3.90 \pm 0.46	3.73 \pm 0.23	3.62 \pm 0.26	3.41 \pm 0.23	3.2 \pm 0.278
k ($\times 10^{-4} \text{mm}^2/\text{s}$)	5.90 \pm 2.14	5.73 \pm 0.57	4.15 \pm 0.20	3.53 \pm 0.26	3.18 \pm 0.57	2.78 \pm 0.28

Supplement Table 3. Morris Maze.

	20day	30day	40day	60day	80day
Escape Latency(s)	17.82 \pm 5.23	12.80 \pm 2.11	10.32 \pm 2.19	9.89 \pm 3.27	8.19 \pm 2.42
Passing Times	0.50 \pm 0.39	0.38 \pm 0.38	0.75 \pm 0.47	1.20 \pm 0.41	1.05 \pm 0.69

Supplement Table 4. Barnes Maze.

	20day	30day	40day	60day	80day
Latency(s)	140.56 \pm 54.72	108.19 \pm 141.40	25.89 \pm 19.91	23.42 \pm 13.89	13.41 \pm 6.98
Error	45.00 \pm 40.91	8.33 \pm 5.77	7.33 \pm 6.71	5.80 \pm 4.71	3.33 \pm 3.08

Supplement Table 5. T Maze.

	20day	30day	40day	60day	80day
Correct ratio	33.3%	50.0%	58.3%	83.3%	91.7%

Supplement Table 6. 3-Chambered Social Test

	20day	30day	40day	60day	80day
Time close to the strange rat (s)	9.88 \pm 20.37	53.55 \pm 29.16	95.34 \pm 76.69	70.78 \pm 22.41	80.84 \pm 78.76
Numbers close to the strange rat	3.20 \pm 4.09	12.20 \pm 6.06	17.00 \pm 7.31	14.67 \pm 7.23	12.80 \pm 9.58

SUPPLEMENTARY DATA

Supplement Table 7. Grip strength test.

	20day	30day	40day	60day	80day
Grip strength (N)	0.31±0.04	0.42±0.03	0.64±0.07	1.49±0.10	1.83±0.11

Supplement Table 8. Limb-placement test score.

	20day	30day	40day	60day	80day
Touch	1.00±0.89	0	0	0	0
Vision	1.33±1.37	0	0	0	0
Proprioception	0	0	0	0	0