

Estimated tissue parameters using different modelling techniques

Table 1 Mean and standard deviation of myelin water fraction across 10 participants obtained using 2COMP, 3COMP, SATI, NAM and THAPALIYA

<i>Regions/methods</i>	<i>2COMP</i>	<i>3COMP</i>	<i>SATI</i>	<i>NAM</i>	<i>THAPALIYA</i>
<i>Genu</i>	0.15 (0.07)	0.13 (0.07)	0.18 (0.11)	0.18 (0.1)	0.25 (0.07)
<i>Rostral</i>	0.18 (0.09)	0.23 (0.05)	0.23 (0.03)	0.23 (0.03)	0.27 (0.02)
<i>Anterior mid-body</i>	0.29 (0.07)	0.26 (0.07)	0.23 (0.04)	0.23 (0.04)	0.27 (0.06)
<i>Posterior mid-body</i>	0.3 (0.07)	0.27 (0.08)	0.27 (0.04)	0.25 (0.04)	0.29 (0.07)
<i>Isthmus</i>	0.23 (0.06)	0.24 (0.09)	0.24 (0.07)	0.24 (0.07)	0.3 (0.04)
<i>Splenium1</i>	0.21 (0.09)	0.22 (0.08)	0.25 (0.06)	0.27 (0.06)	0.29 (0.07)
<i>Splenium2</i>	0.21 (0.08)	0.27 (0.08)	0.27 (0.09)	0.28 (0.08)	0.3 (0.09)

Table 2 Mean and standard deviation of myelin frequency shift across 10 participants obtained using 3COMP, SATI, and NAM model

<i>Regions/methods</i>	<i>3COMP</i>	<i>SATI</i>	<i>NAM</i>
<i>Genu</i>	48.53 (25.75)	26.03 (21.03)	45.21 (22.13)
<i>Rostral</i>	33.51 (6.16)	33.82 (5.02)	33.54 (5.38)
<i>Anterior mid-body</i>	31.27 (8.29)	37.07 (13.73)	36.46 (13.79)
<i>Posterior mid-body</i>	28.09 (7.33)	27.24 (6.77)	28.66 (6.21)
<i>Isthmus</i>	27.95 (7.5)	28.02 (7.68)	28.57 (7.32)
<i>Splenium1</i>	23.59 (9.48)	22.16 (8.58)	20.00 (9.81)
<i>Splenium2</i>	21.31 (11.16)	23.20 (9.51)	22.31 (9.22)

Table 3 Mean and standard deviation of axonal water fraction across 10 participants obtained using 3COMP, SATI, NAM and THAPALIYA model

<i>Regions/methods</i>	<i>3COMP</i>	<i>SATI</i>	<i>NAM</i>	<i>THAPALIYA</i>
<i>Genu</i>	0.32 (0.11)	0.44 (0.12)	0.34 (0.1)	0.37 (0.08)
<i>Rostral</i>	0.44 (0.12)	0.39 (0.09)	0.42 (0.05)	0.47 (0.06)
<i>Anterior mid-body</i>	0.52 (0.06)	0.43 (0.06)	0.40 (0.07)	0.49 (0.1)
<i>Posterior mid-body</i>	0.54 (0.09)	0.45 (0.06)	0.45 (0.06)	0.47 (0.06)
<i>Isthmus</i>	0.50 (0.09)	0.42 (0.16)	0.44 (0.16)	0.45 (0.08)
<i>Splenium1</i>	0.43 (0.12)	0.36 (0.13)	0.33 (0.11)	0.44 (0.05)
<i>Splenium2</i>	0.37 (0.13)	0.34 (0.22)	0.32 (0.12)	0.44 (0.11)

Table 4 Mean and standard deviation () of axonal frequency shift across 10 participants obtained using 3COMP, SATI, and NAM model.

<i>Regions/methods</i>	<i>3COMP</i>	<i>SATI</i>	<i>NAM</i>
<i>Genu</i>	-6.86 (3.49)	-5.27 (2.06)	2.67 (5.44)
<i>Rostral</i>	-1.27 (1.68)	-1.47 (1.37)	4.68 (4.92)
<i>Anterior mid-body</i>	0.59 (1.11)	0.13 (1.16)	2.83 (5.43)
<i>Posterior mid-body</i>	-0.03 (0.98)	-0.52 (0.94)	0.32 (3.17)
<i>Isthmus</i>	-1.76 (1.58)	-2.10 (1.81)	1.66 (4.91)
<i>Splenium1</i>	-5.56 (2.35)	-6.40 (2.35)	-6.63 (2.13)
<i>Splenium2</i>	-7.15 (2.79)	-7.62 (3.5)	-6.58 (4.52)

Table 5 Mean and standard deviation () of extracellular water fraction across 10 participants obtained using 3COMP, SATI, NAM and THAPALIYA model

<i>Regions/methods</i>	<i>3COMP</i>	<i>SATI</i>	<i>NAM</i>	<i>THAPALIYA</i>
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<i>Genu</i>	0.55 (0.11)	0.38 (0.1)	0.48 (0.14)	0.38 (0.1)
<i>Rostral</i>	0.33 (0.13)	0.38 (0.08)	0.35 (0.06)	0.26 (0.05)
<i>Anterior mid-body</i>	0.22 (0.02)	0.34 (0.07)	0.36 (0.05)	0.24 (0.11)
<i>Posterior mid-body</i>	0.20 (0.03)	0.28 (0.05)	0.30 (0.06)	0.24 (0.05)
<i>Isthmus</i>	0.26 (0.13)	0.34 (0.13)	0.32 (0.12)	0.25 (0.1)
<i>Splenium1</i>	0.35 (0.15)	0.40 (0.11)	0.40 (0.12)	0.28 (0.05)
<i>Splenium2</i>	0.35 (0.16)	0.39 (0.2)	0.40 (0.09)	0.26 (0.16)

Table 6 Mean and standard deviation of extracellular frequency shift across 10 participants obtained using 3COMP, SATI, and NAM model.

<i>Regions/methods</i>	<i>3COMP</i>	<i>SATI</i>	<i>NAM</i>
<i>Genu</i>	2.63 (2.62)	4.37 (3.09)	-4.26 (3.55)
<i>Rostral</i>	8.47 (1.6)	7.64 (1.39)	0.89 (4.2)
<i>Anterior mid-body</i>	11.98 (1.24)	10.69 (1.63)	7.25 (4.7)
<i>Posterior mid-body</i>	11.20 (0.83)	9.65 (1.54)	8.62 (3.2)
<i>Isthmus</i>	7.26 (2.76)	5.29 (3.44)	0.71 (4.26)
<i>Splenium1</i>	2.03 (2.23)	1.56 (1.6)	1.63 (1.5)
<i>Splenium2</i>	1.32 (2)	0.88 (2.58)	0.06 (1.69)

Table 7 Mean and standard deviation of error rate (%) across 10 participants obtained using 2COMP, 3COMP, SATI, NAM and THAPALIYA model

<i>Regions/methods</i>	<i>2COMP</i>	<i>3COMP</i>	<i>SATI</i>	<i>NAM</i>	<i>THAPALIYA</i>
<i>Genu</i>	14.61 (10.64)	8.84 (7.68)	7.08 (6.79)	7.45 (6.75)	4.56 (4.08)
<i>Rostral</i>	8.95 (3.56)	3.93 (1.58)	3.77 (1.48)	3.79 (1.5)	2.86 (1)
<i>Anterior mid-body</i>	12.69 (2.65)	3.68 (0.86)	3.44 (0.84)	3.39 (0.78)	2.72 (0.74)
<i>Posterior mid-body</i>	11.38 (3.57)	3.11 (1.37)	2.94 (1.32)	2.94 (1.38)	2.61 (0.85)
<i>Isthmus</i>	7.16 (3.52)	2.72 (1.13)	2.38 (1.18)	2.33 (1.19)	1.99 (0.89)
<i>Splenium1</i>	6.42 (3.25)	3.09 (1.98)	2.56 (1.7)	2.64 (1.72)	1.75 (1.17)
<i>Splenium2</i>	6.70 (2.76)	3.84 (1.55)	3.22 (1.54)	3.29 (1.51)	2.33 (1.18)