

		OR-TCT (iFOD2)		OR-TCT (iFOD2 + AEC)		reference mask <sup>a</sup>
		HARDI A <sup>b</sup>	HARDI B <sup>c</sup>	HARDI A <sup>b</sup>	HARDI B <sup>c</sup>	Histological
Tract volume ( $cm^3$ ), mean ( $\pm SD$ )	lh	45.83 ( $\pm 5.41$ )	48.13 ( $\pm 7.83$ )	10.00 ( $\pm 2.42$ )	13.60 ( $\pm 0.81$ )	18.4 ( $\pm 2.1$ )
	rh	41.69 ( $\pm 3.68$ )	42.99 ( $\pm 9.53$ )	9.39 ( $\pm 1.91$ )	13.26 ( $\pm 1.53$ )	18.4 ( $\pm 1.3$ )
Sensitivity	lh	0.98	0.98	0.66	0.60	-
	rh	0.98	0.98	0.56	0.57	-
Precision	lh	0.21	0.20	0.62	0.54	-
	rh	0.24	0.22	0.60	0.57	-
Specificity	lh	0.94	0.93	0.99	0.99	-
	rh	0.94	0.94	0.99	0.99	-
F-measure	lh	0.35	0.33	0.64	0.57	-
	rh	0.38	0.35	0.58	0.55	-

<sup>a</sup>Volumes in the histological reference mask were obtained from Clatworthy et al., 2010.

<sup>b</sup>HARDI A: 1.5 mm isotropic voxel size; b-value, 1500  $s/mm^2$

<sup>c</sup>HARDI B: 2.5 mm isotropic voxel size; b-value, 1000  $s/mm^2$

Abbreviations:

AEC: automatic post-processing based on anatomical exclusion criteria.

iFOD: high order integration over fiber orientation distributions.

lh: left hemisphere.

OR-TCT: optic radiation tractography-constructed template.

rh: right hemisphere.