

SUPPLEMENTARY TABLE I

PERFORMANCE COMPARISON OF INDIVIDUAL CLASSIFICATION METHODS TO PREDICT THE OCCURRENCE OF POSTOPERATIVE DEFICIT.

Classification method	Function	$\beta = 0.9$	$\beta = 0.8$	$\beta = 0.7$	$\beta = 0.6$	$\beta = 0.5$	$\beta = 0.4$	$\beta = 0.3$	$\beta = 0.2$	$\beta = 0.1$	$\beta = 0$
DWI-MAP	Motor	0.95	0.94	0.94	0.93	0.91	0.92	0.90	0.88	0.88	0.88
	Language	0.89	0.86	0.87	0.86	0.86	0.87	0.88	0.89	0.88	0.85
	Visual	0.78	0.79	0.80	0.79	0.83	0.82	0.83	0.83	0.83	0.86
	Total	0.90	0.87	0.88	0.87	0.87	0.87	0.87	0.87	0.87	0.86
DWI-MAP+ADFD	Motor	0.96	0.96	0.96	0.94	0.95	0.94	0.95	0.93	0.93	0.93
	Language	0.88	0.89	0.88	0.89	0.90	0.88	0.89	0.89	0.87	0.88
	Visual	0.85	0.83	0.83	0.83	0.85	0.83	0.85	0.83	0.83	0.88
	Total	0.90	0.90	0.90	0.90	0.91	0.89	0.91	0.89	0.89	0.90
RecoBundles	Motor	0.96	0.94	0.96	0.95	0.93	0.93	0.93	0.92	0.91	0.92
	Language	0.83	0.84	0.83	0.79	0.85	0.81	0.81	0.82	0.83	0.83
	Visual	0.81	0.76	0.73	0.74	0.71	0.78	0.73	0.75	0.79	0.74
	Total	0.87	0.86	0.85	0.83	0.84	0.84	0.83	0.84	0.84	0.84
DCNN tract classification	Motor	0.99	0.97	0.95	0.96	0.97	0.92	0.94	0.96	0.98	0.97
	Language	0.89	0.86	0.82	0.78	0.78	0.83	0.81	0.79	0.81	0.81
	Visual	0.91	0.94	0.88	0.84	0.83	0.83	0.80	0.71	0.75	0.73
	Total	0.92	0.91	0.88	0.85	0.85	0.86	0.85	0.83	0.85	0.84