

High-resolution and highly accelerated MRI T2 mapping as a tool to characterise renal tumour subtypes and grades

ELECTRONIC SUPPLEMENTARY MATERIAL

Supplementary Table 1. Largest diameters in millimeters derived from respective ROIs of High-res and BH TEMPURA acquisitions, and statistical results for comparisons across histological subtypes and ccRCC grades. Results are shown as median (range).

	RO	e/oRCC	chRCC	pRCC	ccRCC	Kruskal-Wallis <i>P</i>
Largest diameter [mm]	52 (29-73)	58 (one case)	43 (32-54)	61 (55-75)	56 (30-134)	0.566
	Grade 2	Grade 3	Grade 4		Kruskal-Wallis <i>P</i>	
Largest diameter [mm]	56 (56-56)	55 (30-77)	77 (50-134)		0.442	

Supplementary Table 2. Quantitative T2 metrics derived from respective ROIs of High-res and BH TEMPURA acquisitions, and statistical results for comparisons across histological subtypes, and ccRCC grades.

	Normal-adjacent	RO	e/oRCC	chRCC	pRCC	ccRCC	Kruskal-Wallis <i>P</i>
High-res TEM-PURA	110 (88-124)	141 (97-251)	129	164	51 (40-77)	137 (96-306)	0.001
Median	3.4 (2.6-1.5)	3.4 (2.9-7.4)	57	6.8 (5.2-8.3)	5.8 (4.8-17)	3.9 (2.0-11)	0.037
Kurtosis	0.3 (-0.3-3.8)	0.8 (-0.6-1.7)	2.0	1.3 (1.0-1.5)	1.3 (1.1-2.8)	0.8 (-0.0-2.1)	0.006
Skewness							
BH TEMPURA						120 (93-231)	0.001
Median	108 (89-125)	150 (93-224)	163	129	45 (35-79)	231	0.001
Kurtosis	3.3 (2.2-10.2)	4.0 (2.1-7.4)	55.0	2.6	2.7 (2.5-5.2)	4.1 (2.1-15.1)	0.379
Skewness	0.3 (-1.2-2.7)	1.0 (-0.5-1.7)	1.7	0.3	0.5 (0.4-1.1)	0.8 (0.1-2.3)	0.051
	Grade 2	Grade 3	Grade 4	Kruskal-Wallis <i>P</i>			
High-res TEM-PURA	209 (111-306)	151 (101-184)	106 (96-136)	0.170			
Median	2.8 (2.0-3.6)	4.3 (3.0-8.1)	5.9 (2.6-11)	0.398			
Kurtosis	0.06 (-0.03-0.16)	1.36 (0.35-1.82)	1.29 (0.61-2.09)	0.071			
Skewness							
BH TEMPURA	172 (113-231)	160 (119-180)	102 (93-112)	0.037			
Median	2.7 (2.0-3.4)	5.1 (3.3-6.8)	6.7 (2.6-15)	0.321			
Kurtosis	0.6 (0.3-1.0)	0.8 (0.2-1.9)	1.5 (0.1-2.3)	0.886			
Skewness							

Units of median values are milliseconds, while kurtosis and skewness have arbitrary units. All results are presented as median (range), with exception of *P* values in the last column.