

Supplementary material Table

Supplementary material Table S1

Diagnostic characteristics of the volume fraction on three physiologic MRI habitats to classify malignant lesions from non-malignant lesions.

Variables	Cut-off value	AUC (95% CI)	Sensitivity (95% CI)	Specificity (95% CI)	PPV (95% CI)	NPV (95% CI)
Hypervascular habitat	11.4	0.744 (0.646 – 0.827) ^a	94.7 (86.9 – 98.5)	45.5 (24.4 – 67.8)	85.5 (80.1 – 89.7)	71.4 (46.5 – 87.8)
Hypovascular cellular habitat	12.6	0.572 (0.467 – 0.672) ^a	76.0 (64.7 – 85.1)	50.0 (28.2 – 71.8)	83.8 (77.0 – 88.9)	37.9 (25.5 – 52.2)
Nonviable tissue habitat	20.1	0.767 (0.670 – 0.847) ^a	68.0 (56.2 – 78.3)	81.8 (59.7 – 94.8)	92.7 (83.8 – 96.9)	42.9 (33.8 – 52.4)
Hypervascular cellular FD	0.784	0.925 (0.854 – 0.969)	89.3 (80.1 – 95.3)	81.8 (59.7 – 94.8)	94.4 (87.3 – 97.6)	69.2 (53.2 – 81.7)

AUC, area under the receiver operating characteristic curve; CI, confidence interval; FD fractal dimension; NPV, negative predictive value; PPV, positive predictive value.

^a $P < 0.05$ compared with hypervascular cellular FD using DeLong.

The cut-off values were determined by maximizing the sum of sensitivity and specificity, i.e., Youden index.