

**On-line Table: ROC analysis with area under the ROC curve to determine the accuracy, sensitivity, and specificity of conventional and functional MRI in differentiation of benign and malignant peripheral nerve sheath tumors**

	AUC (95% CI)	Cut off Value <sup>a</sup>	Sensitivity (95% CI)	Specificity (95% CI)	PPV	NPV
Diameter						
Maximum	0.77 (0.59–0.90)	4.5 cm	100 (66.4–100)	52.2 (31–72)	47.3 (29.2–70.5)	100 (71.5–100)
Average	0.8 (0.66–0.94)	4.2 cm	100 (66.4–100)	65.2 (44–74)	55.2 (29.7–78.6)	100 (76.8–100)
Conventional MRI						
T1 (Hypointense to the muscle)	0.50 (0.31–0.68)	–	100 (69–100)	0 (0–16.1)	30 (15–49)	–
T2 (Hyperintense to the muscle)	0.50 (0.31–0.68)	–	100 (69–100)	0 (0–16.1)	30 (15–49)	–
Following features present:						
Ill-defined or infiltrative margins	0.68 (0.49–0.84)	–	70 (35–93)	66.7 (43–85)	47.4 (20–76)	83.8 (58–97)
Irregular shape	0.56 (0.37–0.73)	–	100 (66–100)	13 (2.8–33.6)	33 (16.8–52.9)	100 (15.8–100)
Split fat sign	0.60 (0.45–0.74)	–	88.2 (52–99.7)	30.4 (13.2–52.7)	38.8 (23–78)	98.1 (63–100)
Target sign	0.58 (0.39–0.76)	–	100 (69–100)	10.1 (2.5–24.8)	34.2 (17.1–53.9)	100 (23.7–100)
T1 heterogeneity (>50%)	0.52 (0.34–0.71)	–	100 (69–100)	4.8 (0.1–23.8)	31 (15.1–50.8)	100 (2.5–100)
T2 heterogeneity (>50%)	0.58 (0.39–0.76)	–	100 (69–100)	10.1 (2.5–24.8)	34.2 (17.1–53.9)	100 (23.7–100)
Peritumoral edema	0.68 (0.49–0.84)	–	60 (26–88)	76.2 (53–92)	51.9 (20–83)	81.6 (58–95)
Eccentric to the nerve	0.57 (0.29–0.82)	–	14.3 (0–58)	100 (63–100)	100 (50–100)	73.1 (44–93)
Vascular encasement	0.55 (0.35–0.72)	–	100 (69–100)	9.5 (1–34)	32 (15–52)	100 (15–100)
Periosteal/cortical invasion	0.50 (0.31–0.68)	–	100 (69–100)	0 (0–16.1)	30 (15–49)	–
Bone marrow invasion	0.50 (0.31–0.68)	–	100 (69–100)	0 (0–16.1)	30 (15–49)	–
Joint extension	0.50 (0.31–0.68)	–	100 (69–100)	0 (0–16.1)	30 (15–49)	–
Delayed contrast enhancement	0.55 (0.35–0.72)	–	100 (69–100)	9.5 (1–34)	32 (15–52)	100 (15–100)
Percentage of enhancement	0.60 (0.26–0.88)	>50%	60 (26–88)	72.2 (46–90)	47.8 (24–80)	93.1 (63–100)
Functional MRI						
DWI/ADC mapping (mean)						
Average	0.63 (0.43–0.76)	1.9	100 (66.4–100)	22.7 (7.8–45.4)	35.7 (18–56.7)	100 (39.8–100)
Minimum	0.89 (0.73–0.97)	1.0	100 (66.4–100)	68.2 (45.1–86.1)	57.4 (30.9–81.1)	100 (76.8–100)
DCE-MRI						
Early arterial enhancement	0.69 (0.46–0.86)	–	44.4 (13–78)	92.9 (66–100)	72.7 (18–99)	79.6 (54–95)

**Note:**—PPV indicates positive predictive value; NPV, negative predictive value; –, no cut off value was defined.

<sup>a</sup> Cut off values for continuous variables was obtained using Youden's index analysis.