

**Supplemental Table 1.** ROC curve analysis of PET/CT quantitative indices for predicting recurrence with varying margin thresholds for isocontour VOI

Index	Margin threshold	AUC (95% CI)	<i>P</i>	Sensitivity (%)	Specificity (%)
MTV <sub>IVC</sub>	TBR <sub>IVC</sub> 2.00	0.891 (0.818–0.943)	< 0.001	90.0	78.7
	TBR <sub>IVC</sub> 2.25	0.871 (0.794–0.928)	< 0.001	83.3	86.2
	TBR <sub>IVC</sub> 2.50	0.816 (0.727–0.881)	< 0.001	66.7	95.0
MTV <sub>NL</sub>	TBR <sub>NL</sub> 1.50	0.862 (0.783–0.920)	< 0.001	80.0	83.7
	TBR <sub>NL</sub> 1.65	0.831 (0.748–0.896)	< 0.001	73.3	90.0
	TBR <sub>NL</sub> 1.80	0.802 (0.716–0.872)	< 0.001	63.3	96.2
UVP <sub>IVC</sub>	TBR <sub>IVC</sub> 2.00	0.896 (0.824–0.946)	< 0.001	90.0	81.2
	TBR <sub>IVC</sub> 2.25	0.872 (0.795–0.928)	< 0.001	83.3	86.2
	TBR <sub>IVC</sub> 2.50	0.813 (0.727–0.881)	< 0.001	66.7	95.0
UVP <sub>NL</sub>	TBR <sub>NL</sub> 1.50	0.863 (0.784–0.921)	< 0.001	80.0	83.7
	TBR <sub>NL</sub> 1.65	0.832 (0.749–0.897)	< 0.001	73.3	90.0
	TBR <sub>NL</sub> 1.80	0.802 (0.716–0.872)	< 0.001	63.3	96.2

AUC, area under curve; MTV<sub>IVC</sub>, metabolic tumor volume based on inferior vena cava activity; MTV<sub>NL</sub>, metabolic tumor volume based on normal liver activity; UVP<sub>IVC</sub>, uptake-volume product based on inferior vena cava activity; UVP<sub>NL</sub>, uptake-volume product based on normal liver activity.