Supplemental Table 2

Sensitivity and accuracy given specificity $\geq 90\%$ and receiver operating characteristics (ROC) area under the curve (AUC) for performance of ΔDCE , ΔRSI_{3C} and ΔADC for prediction of non-pCR at each time point. Since there was no threshold value yielding specificity = 90% for any modality at any time point, the closest threshold of specificity = 100% was used. Note that post-Tx time point is after all neoadjuvant therapy prior to surgical intervention. Threshold values are unitless multiplication factors.

		ΔDCΕ	ΔRSI _{3C}	$\Delta ADC (\uparrow = response)$
Early-Tx	AUC (95%CI)	0.64 (0.36-0.91)	0.65 (0.38-0.92)	0.45 (0.16-0.75)
(3 weeks)	Sens ₉₀	0.55	0.18	0.09
	Acc90	0.71	0.47	0.41
	Thresh.	-0.07	0.12	-0.17
Mid-Tx	AUC (95%CI)	0.71 (0.45-0.96)	0.60 (0.32-0.88)	0.35 (0.06-0.64)
(12 weeks)	Sens ₉₀	0.46	0.36	0.00*
	Acc ₉₀	0.65	0.59	0.35*
	Thresh.	-0.23	-0.15	-0.77
Post-Tx	AUC (95%CI)	0.80 (0.59-1.00)	0.76 (0.52-0.99)	0.36 (0.07-0.65)
	Sens ₉₀	0.55	0.64	0.00*
	Acc90	0.71	0.76	0.35*
	Thresh.	-0.48	-0.81	-0.73

^{*}Specificity \geq 90% is achieved by a threshold where all cases are classified as pCR (specificity = 100%). For reference, sensitivity was 0.09 and accuracy 0.35 when using a specificity \geq 80%.

 $pCR = pathological\ complete\ response,\ Sens_{90} = sensitivity\ given\ specificity \ge 90\%,\ Acc_{90} = accuracy\ given\ specificity \ge 90\%,\ Tx = treatment,\ \Delta DCE = change\ in\ size\ from\ pre-treatment\ time\ point\ for\ manual\ dynamic\ contrast-enhanced\ MRI,\ \Delta RSI_{3C} = change\ in\ size\ from\ pre-treatment\ time\ point\ for\ the\ three-component\ Restriction\ Spectrum\ Imaging\ model\ classifier,\ \Delta ADC = change\ in\ mean\ value\ from\ pre-treatment\ time\ point\ for\ apparent\ diffusion\ coefficient.$