

Table SI. Univariate logistic regression analysis (dependent variable: myometrial infiltration status, MIBC=1, non-MIBC=0).

Variable	β	SE	Wald χ^2	P-value	OR (95% CI)	AUC
SEM-ADC	-2.93	0.89	10.82	0.001	0.05 (0.01-0.29)	0.731
CTRW- α	-3.01	0.95	10.05	0.002	0.05 (0.01-0.32)	0.745
CTRW- β	-4.25	1.31	10.53	0.001	0.01 (0.00-0.15)	0.782
VI-RADS (median)	1.85	0.59	9.80	0.002	6.35 (1.99-20.28)	0.773
VI-RADS ≥ 4 (%)	2.43	0.89	10.49	0.001	11.36 (2.61-49.46)	0.808

MIBC, muscle-invasive bladder cancer; VI-RADS, vesical imaging-reporting and data system; SEM, stretched-exponential model; CTRW, continuous-time random walk; ADC, apparent diffusion coefficient; OR, odds ratio; CI, confidence interval; AUC, area under the curve.

Table SII. Multivariate logistic regression analysis.

Predictor	β	SE	Wald χ^2	P-value	OR (95%CI)	VIF
VI-RADS ≥ 4 (%)	1.87	0.72	6.75	0.009	6.49 (1.58-26.65)	1.15
CTRW- β	-3.15	1.24	6.44	0.011	0.04 (0.00-0.52)	1.12

1 < VIF < 5: There is slight collinearity, which usually has a minor impact on the model and is acceptable. VIF, Variance Inflation Factor; VI-RADS, vesical imaging-reporting and data system; CTRW, continuous-time random walk; OR odds ratio; CI, confidence interval.

Table SIII. Shapiro-Wilk normality test results.

Variable	Shapiro-Wilk W statistic	P-value	Distribution
Age	0.972	0.089	Normal
SEM-ADC	0.981	0.312	Normal
CTRW-ADC	0.978	0.198	Normal
DWI-ADC	0.975	0.145	Normal
CTRW- α	0.912	<0.001	Non-normal
CTRW- β	0.898	<0.001	Non-normal
SEM-kurtosis	0.856	<0.001	Non-normal
DKI-kurtosis	0.934	0.002	Non-normal

SEM, stretched-exponential model; ADC, apparent diffusion coefficient; VI-RADS, vesical imaging-reporting and data system; DWI, diffusion-weighted imaging; CTRW, continuous-time random walk; DKI, diffusion kurtosis imaging.