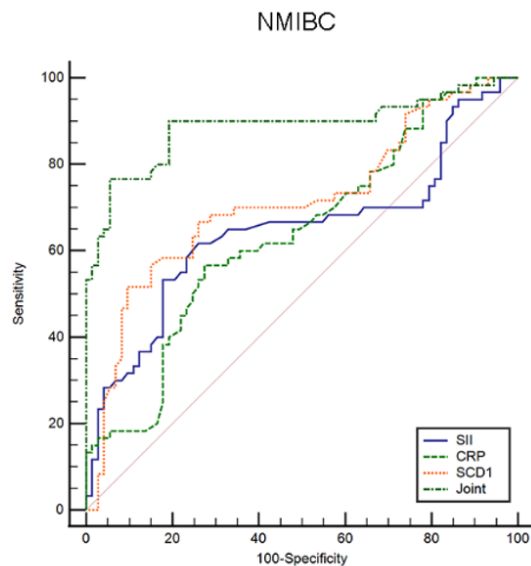


Supplementary Figures 1: Comparative statistical analysis of AUC values in ROC curves for NMIBC patients.

DeLong's test was employed to compare the AUC values of ROC curves derived from three biomarkers (SII, CRP, and serum SCD1) for diagnosing UTI risk in NMIBC patients. The green highlighting represents statistically significant differences.

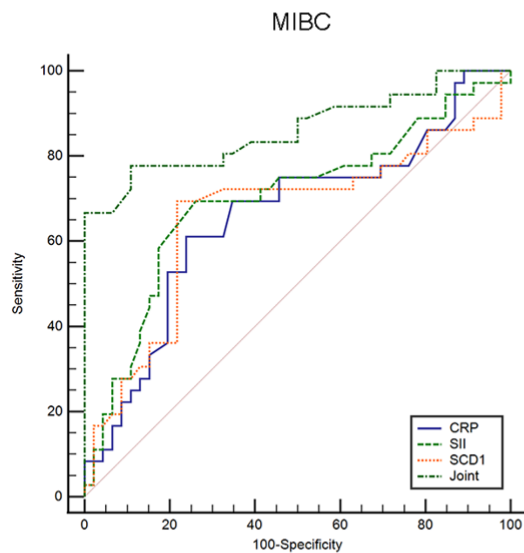


Pairwise comparison of ROC curves

SII ~ CRP	
Difference between areas	0.00731
Standard Error	0.0646
95% Confidence Interval	-0.119 to 0.134
z statistic	0.113
Significance level	P = 0.9100
SII ~ SCD1	
Difference between areas	0.0645
Standard Error	0.0510
95% Confidence Interval	-0.0355 to 0.164
z statistic	1.264
Significance level	P = 0.2062
SII ~ Joint	
Difference between areas	0.240
Standard Error	0.0568
95% Confidence Interval	0.129 to 0.352
z statistic	4.234
Significance level	P < 0.0001
CRP ~ SCD1	
Difference between areas	0.0718
Standard Error	0.0497
95% Confidence Interval	-0.0256 to 0.169
z statistic	1.445
Significance level	P = 0.1485
CRP ~ Joint	
Difference between areas	0.248
Standard Error	0.0575
95% Confidence Interval	0.135 to 0.360
z statistic	4.310
Significance level	P < 0.0001
SCD1 ~ Joint	
Difference between areas	0.176
Standard Error	0.0596
95% Confidence Interval	0.0591 to 0.293
z statistic	2.952
Significance level	P = 0.0032

Supplementary Figure 2: Comparative statistical analysis of AUC values in ROC curves for MIBC patients.

DeLong's test was utilized to statistically compare the AUC values of ROC curves generated from three biomarkers (SII, CRP, and serum SCD1) for assessing UTI risk in MIBC patients. The green highlighting indicates statistically significant differences.



Pairwise comparison of ROC curves

CRP ~ SII	
Difference between areas	0.0402
Standard Error	0.0673
95% Confidence Interval	-0.0918 to 0.172
z statistic	0.596
Significance level	P = 0.5509
CRP ~ SCD1	
Difference between areas	0.000604
Standard Error	0.0414
95% Confidence Interval	-0.0805 to 0.0817
z statistic	0.0146
Significance level	P = 0.9884
CRP ~ Joint	
Difference between areas	0.202
Standard Error	0.0773
95% Confidence Interval	0.0505 to 0.353
z statistic	2.614
Significance level	P = 0.0090
SII ~ SCD1	
Difference between areas	0.0396
Standard Error	0.0605
95% Confidence Interval	-0.0790 to 0.158
z statistic	0.654
Significance level	P = 0.5131
SII ~ Joint	
Difference between areas	0.162
Standard Error	0.0777
95% Confidence Interval	0.00945 to 0.314
z statistic	2.082
Significance level	P = 0.0374
SCD1 ~ Joint	
Difference between areas	0.201
Standard Error	0.0785
95% Confidence Interval	0.0475 to 0.355
z statistic	2.565
Significance level	P = 0.0103