

Supplementary Table S1. Lymph-node invasion (LNI) rates at final pathologic examination according to preoperative Node-Rads score for all lymph node packets analyzed (lymph node level).

	Overall	Node-RADS					p-val¹
LNI	392 (100%)	1, 208 (53.1%)	2, 134 (34.2%)	3, 22 (5.6%)	4, 12 (3.1%)	5, 16 (4.1%)	<0.001
Negative	358 (91.3%)	206 (99.0%)	130 (97.0%)	11 (50.0%)	7 (58.3%)	4 (25.0%)	
Positive	34 (8.7%)	2 (1.0%)	4 (3.0%)	11 (50.0%)	5 (41.7%)	12 (75.0%)	

Supplementary Table S2. Multivariable logistic regression models addressing lymph-node invasion in bladder cancer patients treated with radical cystectomy plus extended pelvic lymph-node dissection at both patient-level (**2A**) and lymph-node level (**2B**). Node-RADS was considered as a linear predictor or categorized according to clinically meaningful cut-offs (3 or 4). Harrel C-index was computed for all models.

2A (Patient level)	Model with Node-RADS (Linear predictor)		Model with Node-RADS (1-2 vs ≥ 3 vs)		Model with Node-RADS (1-2 vs ≥ 4)		Model without Node-RADS	
	OR (95% CI)	p-value	OR (95% CI)	p-value	OR (95% CI)	p-value	OR (95% CI)	p-value
Node-RADS (<i>score</i>)	3.38 (1.68- 9.40)	0.004						
Node-RADS								
<i>1-2</i>			ref.					
<i>≥ 3</i>			9.50 (1.79-69.2)	0.013				
Node-RADS								
<i>1-3</i>					ref.			
<i>≥ 4</i>					16.88 (2.53-217.00)	0.009		
Age (<i>years</i>)	0.92 (0.81-1.02)	0.2	0.94 (0.85-1.03)	0.2	0.91 (0.80-1.01)	0.1	0.94 (0.86-1.02)	0.2
Clinical T stage								
<i>Organ-confined (cT≤2)</i>	ref.		ref.		ref.		ref.	
<i>Non-organ confined (cT>2)</i>	30.16 (3.20-729.00)	0.011	19.06 (2.82-251.72)	0.008	44.35 (4.93-1148.65)	0.004	19.86 (3.73-177.57)	0.002
Concomitant CIS								
<i>Absent</i>	ref.		ref.		ref.		ref.	
<i>Presence</i>	33.00 (1.58-2695.59)	0.058	12.90 (0.85-338.64)	0.086	24.14 (1.88-838.49)	0.032	13.69 (1.49-205.99)	0.032
C-index	0.94		0.91		0.92		0.86	

OR = odds ratio; CI = confidence interval. CIS = carcinoma in situ; NOC = Non-organ confined (cT>2); OC = Organ-confined (cT≤2)

[illegible]

Supplementary Table S3. Sensitivity, Specificity, Positive Predictive Value (PPV), Negative Predictive Value (NPV) and Accuracy were reported for different Node-Rads cut-offs.

NODE- RADS CUT- OFF	SPECIFICITY	SENSITIVITY	NPV	PPV	ACCURACY
> 4	98.9	35.3	94.1	75.0	93.4
> 3	96.9	50.0	95.3	60.7	92.9
> 2	93.9	82.4	98.2	56.0	92.9
> 1	57.5	94.1	99.0	17.4	60.7