

**Table S1** T-stage distribution of each VI-RADS score in the training session

VI-RADS	Ta	T1	T2	T3	T4
VI-RADS 1	2	2	0	0	0
VI-RADS 2	2	2	0	0	0
VI-RADS 3	1	2	1	0	0
VI-RADS 4	0	0	4	0	0
VI-RADS 5	0	0	1	2	1

VI-RADS, Vesical Imaging-Reporting and Data System.

**Table S2** Details of MRI techniques

Details	T1WI		T2WI		DWI		DCE	
	Philips	GE	Philips	GE	Philips	GEs	Philips	GE
Repetition time, ms	585	490	2000	4635	6897	5778	4.4	5.1
Echo time, ms	8	6.9	105	85.2	47	67.4	1.43	1.2
Flip angle, °	90	111	90	110	NA	NA	15	13
Matrix	320×279	384×320	308×274	320×279	128×97	128×128	364×292	236×224
Field of view	320×381	380×380	200×200	200×200	360×240	200×200	380×277	380×380
Slice thickness, mm	5	5	3	3	5	5	NA	NA
Slice gap, mm	5	1	0.5	0.5	1	1	NA	NA
No. of signal acquisitions	2	1	1	2	1	1	1	1
B values (s/mm <sup>2</sup> )	NA	NA	NA	NA	0, 1000	0, 1000	NA	NA
Temporal resolution(s)	NA	NA	NA	NA	NA	NA	25	24

T1WI, T1-weighted imaging; T2WI, T2-weighted imaging; DWI, diffusion-weighted imaging; DCE, dynamic contrast-enhanced; GE, General Electric HealthCare; NA, not applicable.

**Table S3** Diagnostic performance of the VI-RADS for each reader

VI-RADS	Sensitivity (95% CI), %	Specificity (95% CI), %	+ LR (95% CI)	- LR (95% CI)
<b>Reader ME</b>				
≥1	100.00 (94.2–100.0)	0.00 (0.0–2.4)	1.00 (1.0–1.0)	–
>1	100.00 (94.2–100.0)	14.77 (9.5–21.5)	1.17 (1.1–1.3)	0.00
>2	93.55 (84.3–98.2)	89.26 (83.1–93.7)	8.71 (5.5–13.9)	0.072 (0.03–0.2)
>3	91.94 (82.2–97.3)	94.63 (89.7–97.7)	17.12 (8.7–33.7)	0.085 (0.04–0.2)
>4	40.32 (28.1–53.6)	99.33 (96.3–100.0)	60.08 (8.3–433.7)	0.60 (0.5–0.7)
>5	0.00 (0.0–5.8)	100.00 (97.6–100.0)	–	1.00 (1.0–1.0)
<b>Reader LE</b>				
≥1	100.00 (94.2–100.0)	0.00 (0.0–2.4)	1.00 (1.0–1.0)	–
>1	98.39 (91.3–100.0)	12.08 (7.3–18.4)	1.12 (1.0–1.2)	0.13 (0.02–1.0)
>2	82.26 (70.5–90.8)	80.54 (73.3–86.6)	4.23 (3.0–6.0)	0.22 (0.1–0.4)
>3	74.19 (61.5–84.5)	86.58 (80.0–91.6)	5.53 (3.6–8.5)	0.30 (0.2–0.5)
>4	32.26 (20.9–45.3)	97.32 (93.3–99.3)	12.02 (4.3–33.7)	0.70 (0.6–0.8)
>5	0.00 (0.0–5.8)	100.00 (97.6–100.0)	–	1.00 (1.0–1.0)

VI-RADS, Vesical Imaging-Reporting and Data System; CI, confidence interval; LR, likelihood ratio; reader ME, reader with more experience; reader LE, reader with less experience.