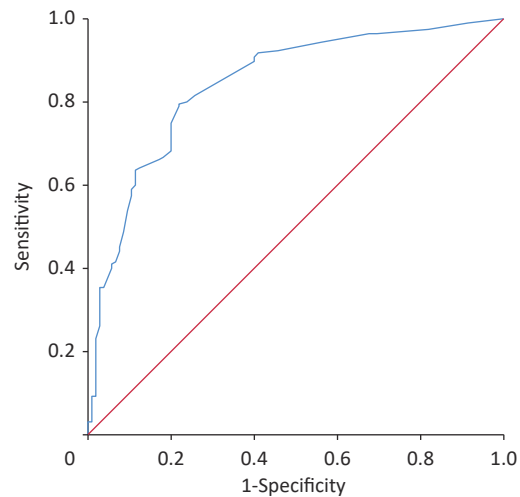
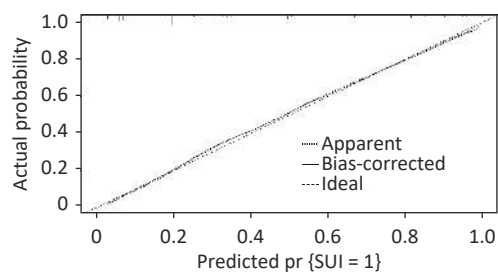


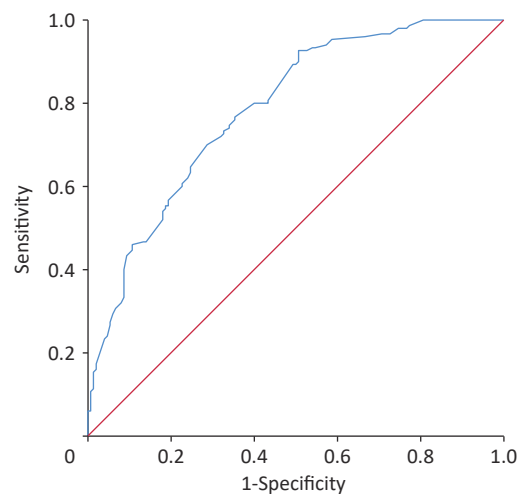


Supplementary Figure S1. The ROC curve of the prediction model in the training dataset was plotted, and AUC was 0.87 (95 % CI, 0.85–0.90). ROC, receiver operating characteristic.

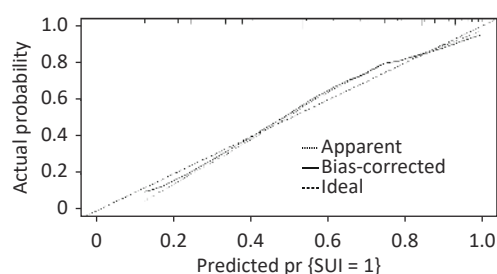


B = 1,000 repetitions, boot Mean absolute error=0.01 $n = 1,031$

Supplementary Figure S2. The calibration curve in the validation dataset showed good agreement between predicted and actual values.



Supplementary Figure S3. The ROC curve of the validation dataset was drawn, and AUC was 0.84 (95% CI, 0.80–0.88). ROC, receiver operating characteristic.



B = 1,000 repetitions, boot Mean absolute error = 0.027 $n = 300$

Supplementary Figure S4. The calibration curve in the validation dataset showed good agreement between predicted and actual values.

Supplementary Table S1. Bootstrap validation of clinical data in the training dataset

Variables	β	OR (95% CI)	P
Waist circumference (cm)			
80-89.9 vs. ≤ 79.9	0.588	1.800 (1.661–1.950)	< 0.001
≥ 90 vs. ≤ 79.9	2.154	8.619 (7.851–9.461)	< 0.001
Vaginal parity	0.711	3.548 (3.227–3.902)	< 0.001
First birth weight (kg), > 4 vs. ≤ 4	1.461	4.306 (3.832–4.839)	< 0.001
Constipation, yes vs. no	1.445	4.531 (2.982–6.034)	< 0.001
Anterior vaginal prolapse, yes vs. no	1.501	4.488 (4.124–4.884)	< 0.001
Family history of urine leakage, yes vs. no	1.714	5.552 (5.075–6.075)	< 0.001
Constant	-2.872	0.025	< 0.001

Supplementary Table S2. Accuracy evaluation of prediction model

Indicators	Training dataset	Validation dataset
AUC (95% CI)	0.87 (0.85–0.89)	0.84 (0.80–0.88)
Youden index	0.61	0.58
Specificity (%) (95% CI)	80.62 (76.3–84.4)	78.11 (74.7–81.2)
Sensitivity (%) (95% CI)	82.69 (78.5–86.3)	79.49 (73.1–84.9)
Positive likelihood ratio (95% CI)	3.78 (3.24–4.40)	3.63 (2.51–5.42)
Negative likelihood ratio (95% CI)	0.22 (0.18–0.28)	0.26 (0.20–0.35)

Supplementary Table S3. Two clinical exams for validating the model

Patients	SUI	Waist circumference (cm)	Vaginal parity	First birth weight (kg)	Constipation	Anterior vaginal prolapse	Family history of urine leakage	Logist (p)
Case1	Yes	96	3	3.6	No	Yes	Yes	3.731
Case2	No	81	1	2.9	Yes	Yes	No	0.767

Note. SUI, stress urinary incontinence.