

Laparoscopic Long Mesh Surgery with Augmented Round Ligaments: Five-Year Outcomes in Apical Prolapse

84.8% apical anatomical success at 5 years

Less urinary distress and better quality of life at 6 months

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Study cohort and procedure

168 consecutive referrals with uterine prolapse stage ≥ II (Aug 2017–Dec 2025).
66 completed 60 months by March 2026.
T-shaped mesh with round-ligament reinforcement.



Five-year anatomical outcomes

Stage < II at 60 months (n = 66; success rates)



Median (cm)	Before	60 mo	P
POP-Q point C	2.5	−8	<0.001

Perioperative outcomes

Operative time: 58.4 ± 26.8 min
Day 1 pain score: 2.0 ± 1.2
Early UTI: 8/66 (12.1%)
No bladder or rectal injury, transfusion, or conversion to open surgery.

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Six-month functional outcomes

Outcome	Before	6 mo	P
Urinary symptoms, n (%)			
SUI	53 (80.3)	16 (24.2)	<0.001
Frequency	24 (36.4)	3 (4.5)	0.03
UUI	16 (24.2)	5 (7.6)	0.32
Incomplete emptying	37 (56.1)	5 (7.6)	<0.001
Hesitancy	34 (51.5)	11 (16.7)	0.006
Nocturia	47 (71.2)	34 (51.5)	0.47
Questionnaire scores (mean)			
OABSS	5.9	3.7	0.008
UDI-6	25.1	14.2	0.003
IIQ-7	32.4	13.3	<0.001
POPDI-6	9.2	5.1	<0.001
Urodynamics			
PVR, mean mL	53.0	10.2	0.005
DO, n (%)	22 (33.3)	10 (15.2)	0.70
Sexual function, mean FSFI (n = 28)			
Total score	23.3	25.8	0.042
Orgasm	4.0	4.6	0.03
Pain	4.6	4.7	0.12

