



Efficacy and Complications of Male Sling and Artificial Urinary Sphincter

Post-Prostatectomy Urinary Incontinence

Hajebrahimi S¹, Attar A², Sharifimoghadam S³, Tayebi S⁴, Jahantabi E¹, Ghojzadeh M³, Salehi-Pourmehr H³, Hashim H⁵

¹ Student Research Committee, Tabriz University of Medical Sciences

² Urology Department, Faculty of Medicine, Tabriz University of Medical Sciences

³ Urology / Research Center for Evidence-Based Medicine, TUOMS

⁴ Urmia University of Medical Sciences

⁵ Urology, Andrology & Robotic Surgery, Indraprastha Apollo Hospitals

KEY MESSAGE

AUS showed higher continence and satisfaction, while complication severity differed by device.

SYSTEMATIC REVIEW

AUS vs Male Sling After Radical Prostatectomy

AIM

Compare continence, satisfaction, reoperation and complications, with attention to prior pelvic radiotherapy.

METHODS

Search: PubMed, MEDLINE, Web of Science, Scopus • May 2025
6 comparative studies • n=1,639

6 studies • 1,639 patients • RCTs + multicenter cohorts

KEY RESULTS

DRYNESS 0–1 PAD/DAY

57.3% vs 22.0%

AUS vs sling

PATIENT SATISFACTION

90.6% vs 72.2%

p < 0.001

12-MONTH REOPERATION

1.8% vs 7.2%

p = 0.01

OVERALL COMPLICATIONS

RR 1.28

95% CI 0.94–1.75 • p = 0.12

COMPLICATION PROFILE

AUS: more severe/device-related events
Slings: more transient pain or retention

PRIOR PELVIC RADIOOTHERAPY

Associated with worse outcomes, particularly with AUS

Interpretation: efficacy and complication severity represent different trade-offs; patient selection remains important.