

Appendix 1. Studies Included in Systematic Review

Study	Study Quality (A, B, C)	Total N	Type of Sling Removal (partial, total, or comparative between partial and total)	Sling Type (retropubic, transobturator, mini-sling, mixed, or unknown)	Lower urinary tract symptoms (LUTS) Outcome Measures	Mesh Exposure/ Erosion Outcome Measures	Pain Outcome Measures	Bladder outlet obstruction (BOO) Outcome Measures	Post-op SUI Outcome Measures	Adverse Events Reported
Fuentes et al,[1] 2021	C	52 (suburethral arm only)	Partial	Mixed			UDI-6, Q6, VAS			
Karmakar et al,[2] 2020	C	31	Partial	Mixed		Physical Exam				2 vaginal infections
Ngo et al,[3] 2019	C	15	Partial	Mixed				Flow rate, PVR		
Offiah et al,[4] 2020	C	19	Partial	Mixed					Subjective	
Shakir et al,[5] 2020	C	230	Partial	Mixed	UDI-6 question 5 and 2		UDI-6 question 6		UDI-6 question 3	
Shapiro et al,[6] 2021	C	95	Partial	Mixed			Subjective	Flow rate, PVR	Cough stress test	Urethral injury (repaired at the time of surgery)
Tepe et al,[7] 2020	C	35	Partial	Mixed	UDI-6				Cough stress test	No adverse events
Wang et al,[8] 2021	C	116	Partial	Unknown			UDI-6 question 6			

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Baekelandt et al,[9] 2016	B	23	Partial	Mixed	Urodynamic testing, pad count, subjective voiding dysfunction		Subjective		Pad count, subjective SUI, uroflow, PVR	UTI, transient pain
South et al,[10] 2009	C	112	Partial	Mixed	Subjective				Subjective	No adverse Events
Viereck et al,[11] 2013	C	198	Partial	Mixed	Subjective, urethral closing pressures, ultrasound	Physical Exam	Subjective	PVR > 100 ml	Cough stress test, pad test, VAS	No adverse Events
Kowalik et al,[12] 2018	C	13	Partial	Mixed	Incontinence Severity Index (ISI), Patient Global Impression of Improvement (PGI-I)	Physical Exam	Numeric Pain Scale (NPS), subjective		Subjective SUI, Incontinence Severity Index (ISI),	1 Seroma, 1 wound infection, 1 extended catheter placement
Laurikaines et al,[13] 2006	B	48	Partial	Retropubic	Urinary Incontinence Severity Score (UISS), Urodynamic testing (43%)	Physical Exam		Mean PVR	Cough stress test	2 wound infections, 11 urinary tract infections, 4 EBL >200 ml, 2 hematomas, 1 bladder perforation

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										n, 1 urethral vaginal fistula
Crescenze et al,[14] 2016	C	107	Partial	Mixed	UDI-6, SSQ-8, UDS			UDS	UDI-6, subjective	No adverse Events
Agnew et al,[15] 2012	C	63	Partial	Unknown	PVR >150 ml, subjective				Recurrent SUI surgery	No adverse Events
Oh et al, 2009	B	14	Partial	Mixed	Subjective	Cystoscopy				1 Pelvic hematoma, 1 transfusion, 1 VVF
Molden et al,[16] 2010	C	197	Partial	Mixed	Subjective voiding dysfunction			Void<25 ml, subjective	Pad weight, subjective SUI	No adverse Events
Goujon et al,[17] 2016	C	18	Partial	Mixed	USP, Subjective				Subjective SUI, Contilife questionnaire	2 VVF, 2 cystotomy with intraperitoneal spilling --> laparoscopy
Moksnes et al,[18] 2017	B	585	Partial	Mixed	validated short-form urinary incontinence disease-			indication to perform bladder catheterization, sling mobilization	cough-jump pad stress test	No adverse Events

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					specific questionnaire for subjective data			n, or sling transection		
Rautenberg et al,[19] 2014	C	61	Partial	Retropubic	Ultrasound			PVR >100 ml	Cough stress test, pad test, VAS	2 minor hematomas
Segal et al,[20] 2005	B	44	Partial	Mixed	IIQ, UDI, subjective			Uroflow, PVR > 100 ml, perform bladder catheterization	cystometry	No adverse Events
Kasturi et al,[21] 2011	B	15	Partial	Retropubic				PVR mean over 2 days > 100 ml, subjective, uroflow	Subjective, standing stress test, UDS	No adverse Events
Price et al,[22] 2009	B	33	Partial	Retropubic				PVR > 150 ml	UDS implied (as described above)	No adverse Events
Brennand et al,[23] 2017	B	31	Partial	Mixed	AUASI, UDI-6			perform bladder catheterization, PVR >150 ml, AUASI Symptom Index	Subjective SUI, AUA Symptom Index, UDI-6	No adverse Events
Castellani et al,[24] 2015	B	12	Partial	Transobturator	AUASI, urodynamic s, voiding			Uroflow max 15 ml/s, PVR	Cough Stress Test,	

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					cystograph y, pad test			> 150 ml or AUASI > 8. Urodynami cs, voiding cystograph y	urodynamic s, voiding cystograph y	
Wu et al,[25] 2018	C	14	Partial	Unknown	Urodynami cs, voiding cystograph y, PGI-I, QoL-I			Urodynami cs, voiding cystograph y, PGI-I, QoL-I, Uroflow max 15 ml/s, PVR > 200 ml	Urodynami cs, voiding cystograph y, PGI-I, QoL-I	No adverse Events
Forde et al,[26] 2015	C	16	Partial	Transobturat or		Physical Exam			Subjective SUI, UDI 6	No adverse Events
Baracat et al,[27] 2005	C	11	Partial	Retropubic		Physical Exam, cystoscop y			subjective	No adverse Events
Basu et al,[28] 2012	B	41	Partial	Mixed		Physical Exam			Chart review	No adverse Events
Toz et al,[29] 2015	C	32	Partial	Mini sling	UDI-6, IIQ- 7	Physical Exam			Cough stress test, voiding diary, IIQ- 7, UDI-6	No adverse Events
Frenkl et al,[30] 2008	C	22	Partial	Mixed		Physical Exam, cystoscop				No adverse Events

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						y, subjective				
Forzini et al, [31]2015	C	16	Partial	Mixed	Subjective	Cystoscopy, physical exam	Subjective		Subjective, UDI-6	
Glavind et al, [32]2015	C	17	Partial	Retropubic	Questionnaire, voiding diary, subjective			PVR > 100 ml, uroflow	Cough stress test, voiding dairy	
Kuhn et al,[33]2008	C	18	Partial	Mixed	VAS of satisfaction , UDS, ultrasound		Subjective , FSFI		VAS of satisfaction , UDS	
Mouracade et al,[34] 2008	B	22	Partial	Unknown	UDS, ultrasound, MHU			Uroflow < 15 ml/s, UDS, PVR	UDI 6, IIQ, VAS, pad weight, UDS, MHU	
Syan et al,[35] 2019	C	32	Total	Mixed	Subjective	Physical Exam		PVR	Subjective SUI, pad count	1 Clavien grade minor (Urinary retention)
Fabian et al,[36] 2015	B	100	Total	Mixed	Urinary frequency, mean voided volume, pad weight, valsalva voiding, subjective voiding dysfunction , intensity			PVR	Pad test,	EBL (only 1 pt loss > 150 ml), hematologic condition (1 post op hematoma), organ injury (1

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					of urgency, ultrasound					bladder perforation)
Coskun et al,[37] 2015	B	17	Total	Mini sling	UDI-6, UDS, imaging	Physical Exam	Subjective , physical exam	UDS	Subjective SUI, UDI-6, UDS, imaging	1 urethral obstruction, 5 recurrent incontinence
Hou et al,[38] 2014	B	54	Total	Mixed			VAS			No adverse Events
Ramart et al,[39] 2017	C	117	Total	Mixed	Chart review	Physical exam, ultrasound , cystoscopy		PVR	Video urodynamic s	1 gluteal abscess formation , 1 atrial fibrillation , 1 groin hematoma, 1 incisional hernia, and 1 vaginal bleeding requiring vaginal packing.
Goodall et al,[40] 2019	B	56	Comparative	Retropubic	Subjective		VAS		Subjective	Clavien grade major (2 OR take backs RP hematomas), 3

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										incisional hernias, 1 port site hernia
Shaw et al,[41] 2017	B	102	Comparative	Mixed	Subjective, incontinence severity index questionnaire				Subjective	Need for secondary sling division (surgical failure)
Misrai et al,[42] 2009	C	75	Comparative	Mixed	Uroflow, subjective voiding dysfunction, void diary, UDS		DN4 questionnaire	UDS	UDS, physical exam, void diary	Prolonged operative time 122 min
Drain et al,[43] 2018	B	110	Comparative	Mixed	Chart review		Chart review	Chart review	Intervention for SUI	
Jambusari et al,[44] 2016	B	245	Comparative	Mixed	Subjective		Subjective		Subjective, reoperation rates	

AUASI: American Urologic Association Symptom Index

DN4 Questionnaire: Douleur Neuropathique 4

FSFI: Female Sexual Function Index

IIQ-7: Incontinence Impact Questionnaire-7

MHU: Mesure du Handicap Urinaire questionnaire

PGI-I: Patients' Global Impression of Improvement

PVR: Post-void Residual Measurement

QoL-I: Quality of Life index for Incontinence

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SSQ-8: Surgery Satisfaction Questionnaire
 SUI: Stress Urinary Incontinence
 UDI-6: Urogenital Distress inventory-6
 UDS: Urodynamics
 USP: Urinary Symptom Profile questionnaire

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