

**MONARCVERSUS MINIARC: RETROSPECTIVE STUDY**Hypothesis / aims of study

Suburethral sling is a surgical treatment contrasted for stress urinary incontinence. The aim of this study is to evaluate the functional outcome Monarc versus MiniArc.

Study design, materials and methods

We evaluate 317 women operated for stress urinary incontinence. 214 with Monarc and 103 with Miniarc. All women expressed informed consent. Data were treated with Chi2 test.

Results

	Monarc	Miniarc
N	214	103
Age	57.9 (37-87)	59.31 (37-85)
Children	2.41 (0-7)	2.27 (0-8)
Follow up	53 (6-94)	30 (6-55)
Hospital stay	3.83 (1-24)	2.48 (1-8)
Surgical time	27.57 (10-85)	19.52 (5-63)

	Monarc	Miniarc	p
<b>Early complication</b>			
Urinary retention	19 (8.87%)	2 (1.94%)	<b>0.0273</b>
Urinary infection	2 (0.93%)	0	0.132
Hematoma	3 (1.4%)	0	0.154
Bladder injury	0	1 (0.97%)	0.986
<b>Late complication</b>			
Erosion	3 (1.41%)	7 (6.7%)	<b>0.0155</b>
Stress incontinence	11 (5.14%)	23 (22.33%)	<b>0.000</b>
Urgency de novo	16 (7.47%)	8 (7.76%)	1.000
Urgency maintained	25 (11.68%)	5 (4.85%)	0.0644
Urinary retention	4 (1.86%)	1 (0.97%)	1.000
<b>Success rate</b>			
	183 (85.51%)	71 (68.93%)	<b>0.0005</b>

Success was defined as the surgical technique for leakage of urine with Valsalva maneuver on physical examination with full bladder, no urge incontinence "de novo" and no need to specify intermittent catheterization for urinary retention, with a minimum of 6 months follow up.

Concluding message

Miniarc technique is quicker, needs less hospital stay, but shows a less success rate and more complications. Erosion can be explained by transversal incision that it has been related with a higher rate of erosion. Also, a high recurrence rate could be expressed by the use of local anaesthesia which produce oedema , and difficult a good mesh anchor.

Disclosures

**Funding:** We don't have any specify source of funding or grant **Clinical Trial:** No **Subjects:** HUMAN **Ethics Committee:** Ethics Committee of University Río Hortega Hospital of Valladolid. Spain **Helsinki:** Yes **Informed Consent:** Yes