

LONG-TERM EFFICACY AND SAFETY OF A NEW ADJUSTABLE SINGLE-INCISION SLING FOR THE TREATMENT OF FEMALE STRESS URINARY INCONTINENCE

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INTRODUCTION

- Urinary incontinence (UI) has been described as any complaint of involuntary leakage of urine
- Stress urinary incontinence (SUI) is estimated to affect 13-46% of women
- We report our results on the efficacy and safety of a novel adjustable single-incision sling (Altis® Coloplast, France) for the treatment of female SUI based on more than 12 months of follow-up

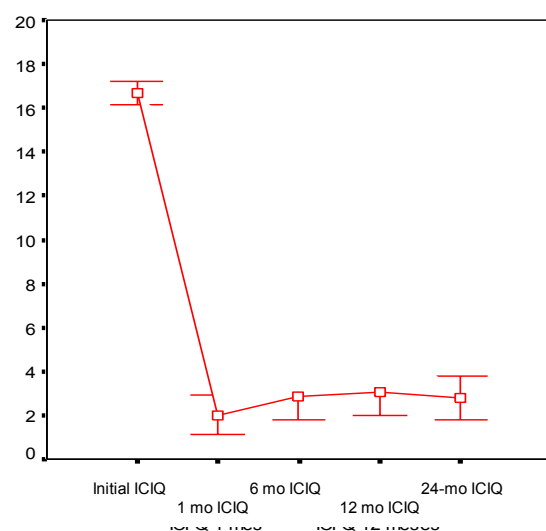
STUDY DESIGN, MATERIAL AND METHODS

- Retrospective, multicentre study
- 223 women were implanted, from February 2012 to March 2018. We analyzed 174 having a minimum follow-up of 12 months.
- Data recorded: clinical data, cough stress test, ICIQ-SF and urodynamics
- Outcomes, complications and evolution were registered at 6, 12, 24 and 60 months
- Statistical analysis was done through Stata 2.0

RESULTS

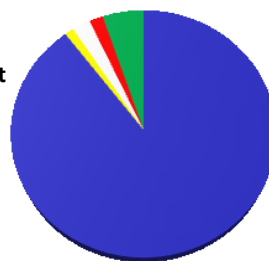
CONTINENCE RATE	12 MONTHS	24 MONTHS	60 MONTHS
OVERALL	92%	91%	89%

- Mean age was 58 years (± 12.7)
- 25 patients underwent surgical intervention for pelvic organ prolapse (POP) at the same time (14%)
- Median follow-up was 35.4 months (12-70)
- **MIXED UI: (57%)**
 - 91% cured SUI at 2 years
 - 66% cured UUI at first month
- **URGENCY EVOLUTION:** since 99 patients (57%) to 35 patients (20%) at first month ($p < 0.001$). Previous urgency was the only risk factor associated with postoperative urgency ($p = 0.033$)
- **Changes were found between pre and post-treatment ICIQ-SF ($p = 0.000$)**
- Patient satisfaction was assessed with visual analogical scale: Median value 9.15



ICIQ-SF evolution during follow-up ($p < 0.001$)

Chronic groin pain was more frequent in younger patients ($p = 0.007$)
Mesh complications were associated with pelvic organ prolapse ($p = 0.022$)



COMPLICATIONS

- NO (90%)
- EXTRUSION (1%)
- HAEMATOMA (2%)
- VOIDING DYSFUNCTION (2%)
- CHRONIC GROIN PAIN (5%)

INTERPRETATION OF RESULTS

- This is the largest cohort reported to date of patients outfitted with this single incision sling
- This technique is associated with groin pain, especially in younger women
- Adjustment of the device guarantees better success than with other slings
- We demonstrate that SUI surgery can cure urgency in 66% of case of mixed incontinence.

CONCLUSION

The Altis® Single incision sling is an efficacious and safe device for the treatment of SUI in females

Previous urgency and younger age are risk factors for developing postoperative urgency and chronic groin pain, respectively.