



# #255 COMPARISON OF OUTCOMES FOR SUBURETHRAL MALE SLING AND ARTIFICIAL URINARY SPHINCTER: SINGLE CENTER PROSPECTIVE FIVE-YEAR FOLLOW-UP STUDY

Riaza M<sup>1</sup>, Collado A<sup>2</sup>, Wong A<sup>2</sup>, Dominguez-Escrig J<sup>2</sup>, Gomez-Ferrer A<sup>2</sup>, Ramirez-Backhaus M<sup>2</sup>, Marenco J<sup>2</sup>, Garcia A<sup>2</sup>, Gallego J<sup>1</sup>, Casanova J<sup>2</sup> 1. Galdakao-Usansolo Hospital, Bilbao, Spain., 2. Fundación IVO, Valencia, Spain

# **HYPOTHESIS / AIMS OF STUDY**

Stress Urinary Incontinence (SUI) is a common complication after prostate surgery or prostate radical radiotherapy. Artificial Urinary Sphincter (AUS) is the gold standard in patients with moderate to severe SUI. Male suburethral slings are an acceptable surgical approach in men with mild to moderate degrees of SUI.

The aim of the study is to evaluate and compare **efficacy, the long-term continence and functional outcomes** of slings and AUS implants in men with SUI.

# STUDY DESIGN, MATERIALS AND METHODS

Prospective observational analysis of 315 patients with SUI after radiotherapy treatment or prostate surgery treated with sling (**Sling group**) or AUS (**AUS group**) before February 2017.

Patients included: fulfilling 5 years of follow-up. Both primary and secondary implants were included.

Exclusion criteria: patients without complete follow-up were excluded.

Thirty-seven patients were excluded for not completing follow-up, finally the study group was 278 patients.

Preoperative assessment included **24-hour pad weight (**24h-PT), **ICIQ-UI SF, urodynamic and flexible cystoscopy**. All implants AMS 800®, ADVANCE® and ADVANCE XP ® were performed by a **single experienced surgeon**.

## INDICATIONS:

- Except in isolated cases, patients with a 24h-PT>400g were considered for AUS and a 24h-PT<400g 24h for sling.
- · The absence of sphincter contraction ("repositioning test") or previous radiotherapy were a contraindication for sling.

Follow-up was carried out once every **3 months during the first year and once every 6 months thereafter**, in parallel to the oncological follow-up (PSA, 24h-pad test and ICIQ-UI SF).

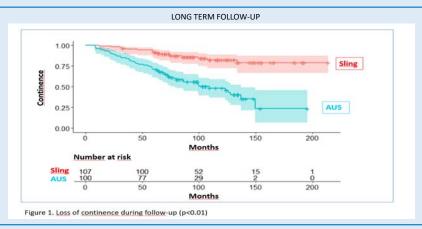
## RESULTS

		Sling group (n=134)	AUS group (n=144)
Age	Median (range)	66 (50-80)	67 (51-79)
Body mass index	Median (range)	28(21-39)	29(19-41)
Pad test	Median (range)	95(7-1089)	779 (100-2509)
DM	N(%)	24 (17.91%)	32 (22.22%)
HTA	N(%)	58 (43.28%)	64 (44.44%)
Hormonotherapy	N(%)	9 (6.71%)	22 (15.27%)
First treatment Prostate Cancer	Radiotherapy (RT/BT)	1 (0.74%)	12 (8.33%)
	Prostatectomy	133 (99.25%)	132 (91.66%)
Salvage radiotherapy	N(%)	1 (0.74%)	35 (24.30%)
Anastomotic stricture treated	N(%)	13 (9.7%)	49 (34.02%)

EARLY FOLLOW-UP Sling group AUS group (n=134) (n=144) 107 (79.85%) 100 (69.44%) Cure rate 0.054 Table 2. Continence results (3 months follow-up) Early postoperative complications Sling group AUS group (n=134) (n=144) 3 (2.23%) 5 (3.47%) 18 (13.43%) 14 (9.72%) 2 (1.38%) Illa

Table 3. Early postoperative complications (Clavien-Dindo)

 Table 1. Preoperative status: quantitative and qualitative variables (n=278).



## INTERPRETATION OF RESULTS

Prospectively data shows (according indication) that the continence and early postoperative complications are similar.

The loss of continence during patient follow-up is more evident in the AUS group. Slings seem to keep efficacy during long term follow-up .

All surgeries were performed by the same surgeon, in the same hospital, with the same preoperatory evaluation and the same follow-up protocol, therefore biases in the differences in the evolution have been avoided,

## CONCLUDING MESSAGE

Understanding relative rates of male slings and AUS complications, our study can help clinicians better counsel SUI patients of the surgical risks, thus promoting informed decision making and appropriate patient expectations.

## REFERENCES

1. Oversbels L. Osterill N. Gooper D., Glazener C., Davie MJ, Forrest M, et al. Male synthetic aling versus artificial unray sphincter trial for mer with undynamic stress incontinence after prostable suggery (MASTER); study protocol for andomised controlled to 2. Collado Serra A. Dominguez-Escrit J. Gomez-Ferrer A. Balsta Miranda E., Nabo-Brinnes J. Solostan Nabone E. Prospective follow-up study of artificial unray sphincter placement preserving the biologonopass musick. Neurourol Urodyn. 2016. 3. Collado A. Reel. L. Dominguez-Escrit J. Gomez-Ferrer A. Rabio-Brinnes J. Solostan Rabone E. Prospective follow-up study of artificial unray sphincter placement preserving the biologonopass musick. Neurourol Urodyn. 2016. 3. Collado A. Reel. L. Dominguez-Escrit J. Gomez-Ferrer A. Rabio-Brinnes J. Solostan Rabone E. Prospective follow-up study of artificial unray sphincter placement preserving the subcooparational Science State Science Stress Science Stress



Trials, 2018:19(1):13