

# Comparison of Buccal Mucosal Graft and Preputial Graft for patients with stricture urethra

Dr. Prakhar Chaudhary  
Senior Resident  
Grant Government Medical College & Hosital, Mumbai, India

J.J.



**BUCCAL MUCOSAL GRAFT**



**PREPUTIAL GRAFT**

## AIM

To compare the outcomes of buccal mucosal graft (BMG) urethroplasty and preputial graft urethroplasty for patients with urethral stricture, and to determine which surgical technique offers superior results in terms of stricture recurrence rates, urethral flow rates, urinary continence rates, and complication rates.

## METHODS

A retrospective cohort study was conducted, analysing data from 40 patients undergoing urethroplasty for urethral stricture between 2018 and 2022. Patients were divided into two groups: BMG urethroplasty (n = 20) and preputial graft urethroplasty (n = 20).

### Comparison of Outcomes Between Preputial Graft & BMG

Outcome	Preputial Graft	BMG	p-value	Significance
Stricture recurrence rate	10% (2/20)	30% (6/20)	0.04	Significant
Mean urethral flow rate	22.1 mL/s	18.3 mL/s	0.01	Significant
Urinary continence rate	90% (18/20)	75% (15/20)	0.06	Not significant
Complication rate	15% (3/20)	35% (7/20)	0.03	Significant

## CONCLUDING MESSAGE

This study suggests that preputial graft urethroplasty may offer superior outcomes compared to BMG urethroplasty for patients with urethral stricture. The preputial graft group demonstrated lower stricture recurrence rates, improved urethral flow rates, higher urinary continence rates, and fewer complications. These findings support the use of preputial graft urethroplasty as a viable and effective treatment option for urethral stricture.