

## A Study of Single-Stage Repair of Anterior Urethral Strictures using Buccal Mucosal Grafts

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### Abstract

**Background:** A urethral stricture is narrowing of the urethral lumen which is surrounded by corpus spongiosum. It is a common condition but can lead to serious complications such as urinary retention, infections and renal insufficiency. **Methods:** This prospective case-control study was conducted in the Department of Urology, Chalmida Anand Rao Institute of Medical Sciences, Bommakal, Karimnagar. Patients who underwent single-stage urethral repair using overlapping dorsal and ventral buccal mucosal grafts were included in the study. **Results:** Based on the inclusion criteria a total of n=20 patients were identified with complex anterior urethral strictures and included during the study period. The mean buccal mucosal graft width was 1.25 cms and no graft was wider than 1.5 cms. Dorsal grafts mean length was 1.9 cms applied in the cases where there is more severe stricture is present they were approximately 35% of the ventral graft length at the most. At a mean follow up of 12 months n=18 of total n=20 patients were voiding spontaneously without the need for any further procedures with a success rate of 90%. **Conclusion:** We in the present study conclude that a single-stage overlapping double buccal mucosal graft urethroplasty is very effective in the treatment of complex anterior urethral strictures. The success rates by this study and other studies in this field have shown that it may be preferred to staged urethroplasty. It was found that most of the cases were having a high postoperative Qmax hence able to return to normal baseline activities.