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Introduction & Objectives: Urethral stricture score is used to intraoperatively grade the complexity of urethroplasty. We propose to apply USS criteria, preoperatively on retrograde urethrography, in order to assess the complexity of surgery.

Materials & Methods: We prospectively selected 15 serial patients that have undergone urethroplasty in our clinic. In all 15 patients we obtained preoperative retrograde urethrography and voiding cystourethrography. USS criteria were applied in all urethrography results. We have assessed the intraoperative USS. Also, the age of the patients and surgical procedure were considered.

Results: We performed 15 urethroplasty surgeries in approximately 2 months time, out of which we performed 3 anastomotic urethroplasty, 5 bulbar buccal mucosa graft urethroplasty and 7 two-stage urethroplastys. Mean age of patients was 48 ± 14.73 years with a mean US score of 8.7 ± 1.75 . We preoperatively applied US score and obtained a mean value of 8.7 ± 1.70 . Pearson's R correlation was made using IPSS v 24 and found an R^2 of 0.881 with a p value < 0.0001 .

Conclusions: Although limitations include the small number of patients, high correlation between preoperative USS and intraoperative USS suggests that applying USS criteria on retrograde urethrography with voiding cystourethrography may be a useful tool for preoperative assessment of urethroplasty complexity.