**Title :**

**Ureteral stents with extraction strings: patient reported outcomes.**

**Introduction:** Short-term ureteric stents are commonly placed after uretroscopy procedures. The removal usually entails having a flexible cystoscopy, which entails a further invasive procedure. There are often delays in removing the stent as departments have limited cystoscopy availability. However, if stents with extraction strings are used, the patient or a clinician can remove it. The aim of the study is to assess the safety and effectiveness of the use of a stent with a string.

**Method**: A retrospective, single institution study was conducted over a three-month period. 20 consecutive patients had ureteric stent with string insertion. Ten of the patients had a stent removal procedure previously with flexible cystoscopy. A validated questionnaire was used to assess outcomes. Primary outcomes included: dysuria, hematuria, urinary frequency and disturbance of the patient's daily activities. Secondary outcomes included pain experience during the stent removal.

**Result**:

Fifteen patients (75%) experienced hematuria and frequency. Two patients experienced pain and discomfort during the stent removal (10%). Two patients had experienced disturbance in the daily activity (10%). All patients who had stent removal before using flexible cystoscopy preferred the removal of the stent using a string. None of the patients had stent displacement. Median stent dwell time was five days.

**Conclusion**:

Patient reported outcomes measures for the indwelling period of a stent with extraction string are equivalent to the published data on stents. Extraction strings mean that the stent dwell time can be reduced. The

removal of stent on extraction strings is more tolerable than the conventional stent.