

## عنوان مقاله:

Combined Direct Visual and Imaging Guided Percutaneous Nephrolithotomy: A Novel Technique

## محل انتشار:

فصلنامه تحقیقات بین رشته ای در اورولوژی، دوره 3، شماره 1 (سال: 1400)

تعداد صفحات اصل مقاله: 6

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## خلاصه مقاله:

**Introduction** Percutaneous nephrolithotomy (PCNL) is a common urological procedure. Obtaining secure percutaneous access to the collecting system which is usually done under fluoroscopic guidance and tract dilatation is a crucial step toward a successful and safe procedure. The aim of this study is to introduce a novel technique to modify this procedure. **Method** Combined Direct Visual and Imaging Guided PCNL is performed by using specific 28 Fr dilators with a customized central lumen which accepts a 4.5 F semi-rigid ureteroscope to visually confirm the puncture of target calyx and passing a guidewire. This instrument was passed as a one-shot dilator after the withdrawal of the puncture needle. The rest of the procedure was then carried out in a standard manner. This novel technique was introduced in 12 patients in 2020 in Sina hospital, after completing the informed consent. **Results** The mean age was  $53.58 \pm 11.96$  and the average stone size was  $4.1 \pm 0.58$  cm and the average time from insertion of the needle into target calyx until securing a guide-wire inside the collecting system (pelvis, ureter) was 95 seconds (84-107). Fluoroscopy time (total time required to obtain the access but not the whole operation) was averagely  $30.25 \pm 8.01$  seconds. There were no intraoperative or postoperative complications as a result of this technique. **Conclusions** Use of the ureteroscope loaded with the dilator and sheath during PNCL, seems to be a feasible and .safe technique for dilatation of access tract during one shot PCNL

## کلمات کلیدی:

Technique, Percutaneous, nephrolithotomy, Nephrolithiasis, Iran

## لینک ثابت مقاله در پایگاه سیویلیکا:

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