

UAA Congress 2021 – Speaker Abstract

Updates in endoscopic stone management

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Abstract

With continuous innovative technology improvement, the surgical management of urinary stones have changed towards the minimally invasive procedures in these few decade. Now, we have several optimized surgical management options depending on the stone size, location, and other patient status and stone factors. In general, the open surgery is rarely performed today, and the use of medical expulsive therapy (MET) has been mainly recommended only for small distal ureteric stones. The retrograde intrarenal surgery(RIRS) has become the most popular procedure for treatment of urolithiasis with the new technological devises such as novel laser lithotripsy devices, advanced flexible ureteroscopy (f-URS), nitinol basket, ureteral access sheath, and disposable ureteroscopy. For the renal stones lager than 2cm or staghorn stones were mainly treated by the percutaneous nephrolithotomy (PCNL) or miniaturized-PCNL replaced traditional open surgery without compromising stone-free outcomes. In this session, we overview the three recent technical innovations that are improving urinary stone surgery in a variety of ways and really make a difference for patients. The new laser technologies, advanced flexible ureteroscopes, and lastly the treatment trend of the stone surgery.