

INTRODUCTION

- The calcium oxalate is the most common type of uroliths found in cats ureters . The different predisposing factors for the occurrence of such calculates are hypercalcemia , feeding a diet that acidifies the urine , live alone inside the home or be persian race.
- The different conventionally used for the removal of stones in the ureters are pyelolithotomy , ureterotomy and ureteral anastomosis.

OBJECTIVES

- Evaluate new techniques related to the presence of stones in the ureters.

NEW APPROACHES

SUBCUTANEOUS URETERAL BYPASS (SUB)

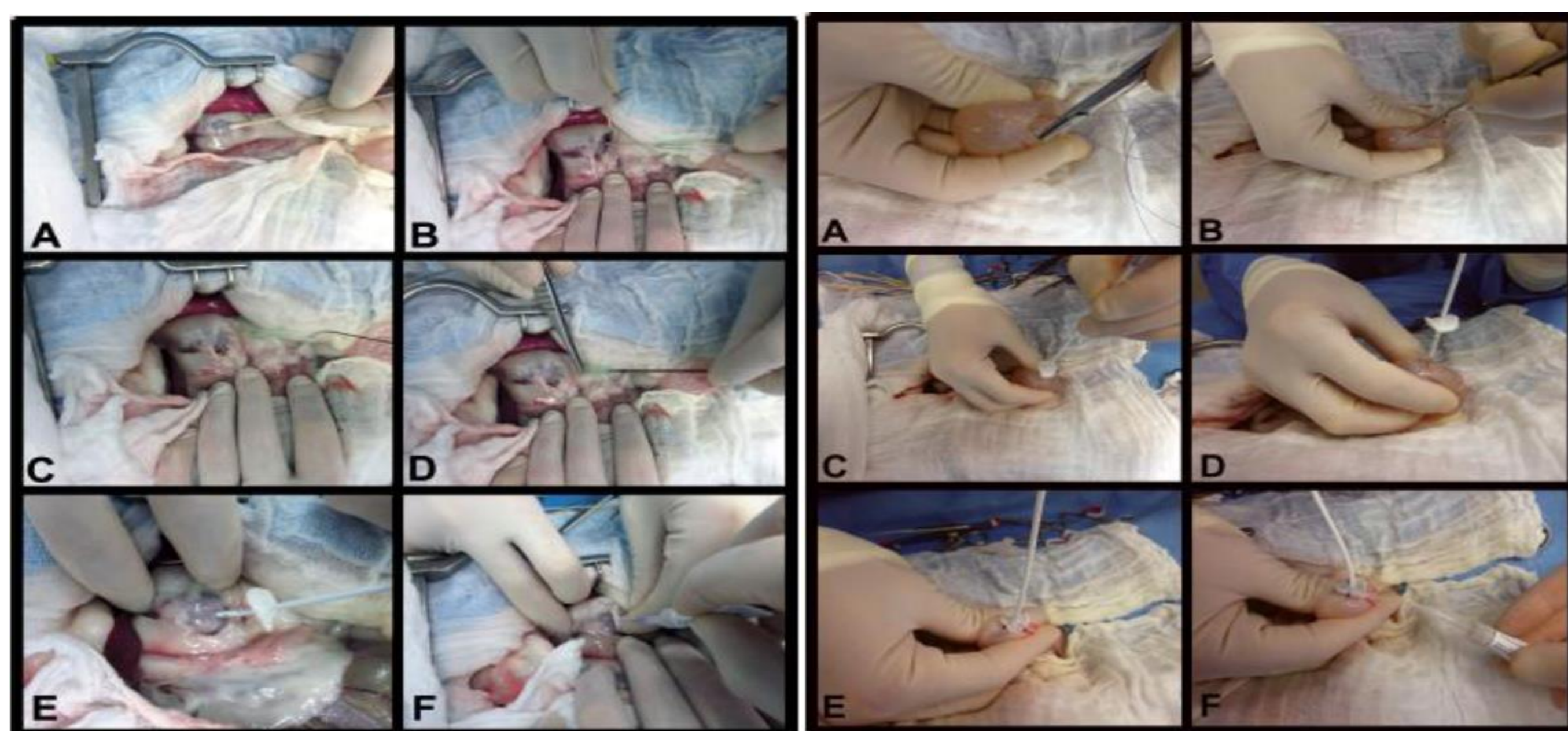


Figure 1: Nephrostomy access into the kidney.

- (A) to expose the renal capsule
- (B) catheter 18G
- (C) 0.035" angled hydrophilic guidewire
- (D) The 18G catheter is removed
- (E) catheter 6.5
- (F) the silicone and Dracon cuff

Figure 2: Placing the cystoscopy catheter.

- (A) a purse string suture is made at the apex
- (B) a stab incision in the center of the purse string
- (C-D) the bladder catheter.
- (E) the silicone and Dracon cuff is sutured
- (F) tissue glue is applied to the Dracon cuff

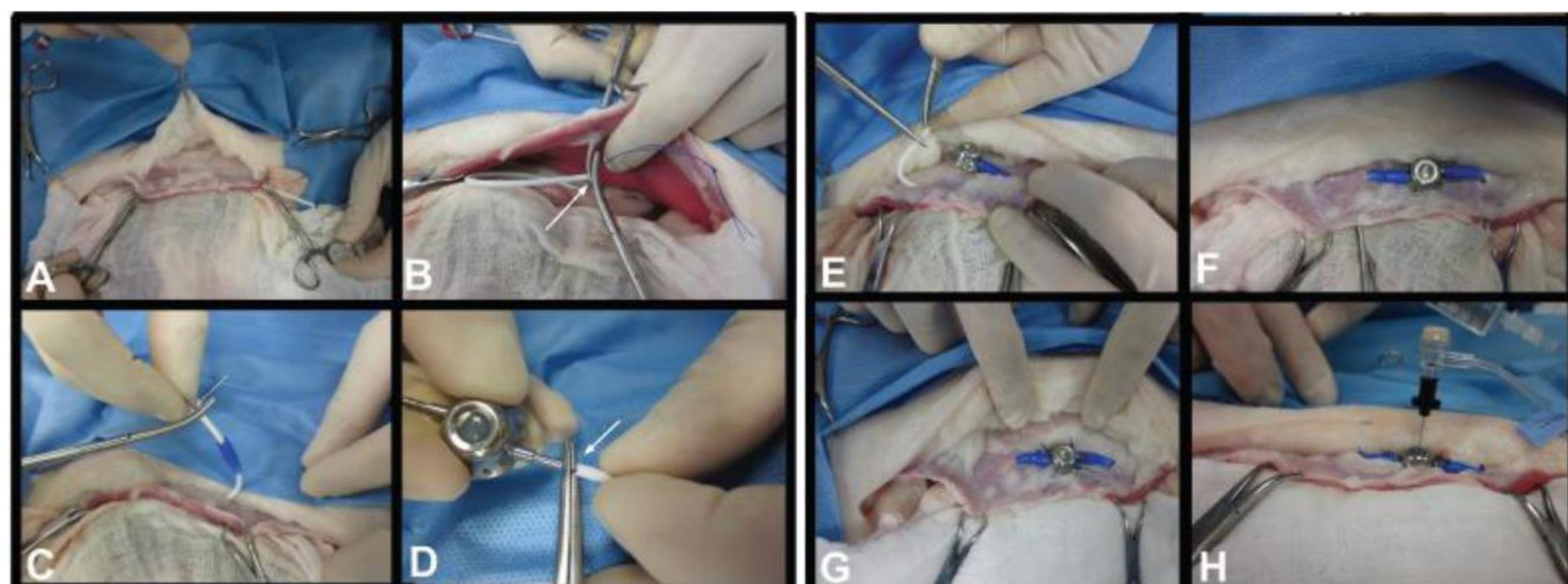


Figure 3: Placing the catheters through the body wall.

- (A) the ventral abdominal fat
- (B) the catheter through the body wall
- (C) the blue boot is placed over the string
- (D) the catheter is placed in the shunting port

Figure 4: Placing the catheters through the body wall continued.

- (E) the bladder catheter
- (F) shunting port
- (G) the port is sutured to the body wall
- (H) the Huber needle inserted through the silicone diaphragm of the port



Figure 5: SUB fluoroscopy.

URETERAL STENT

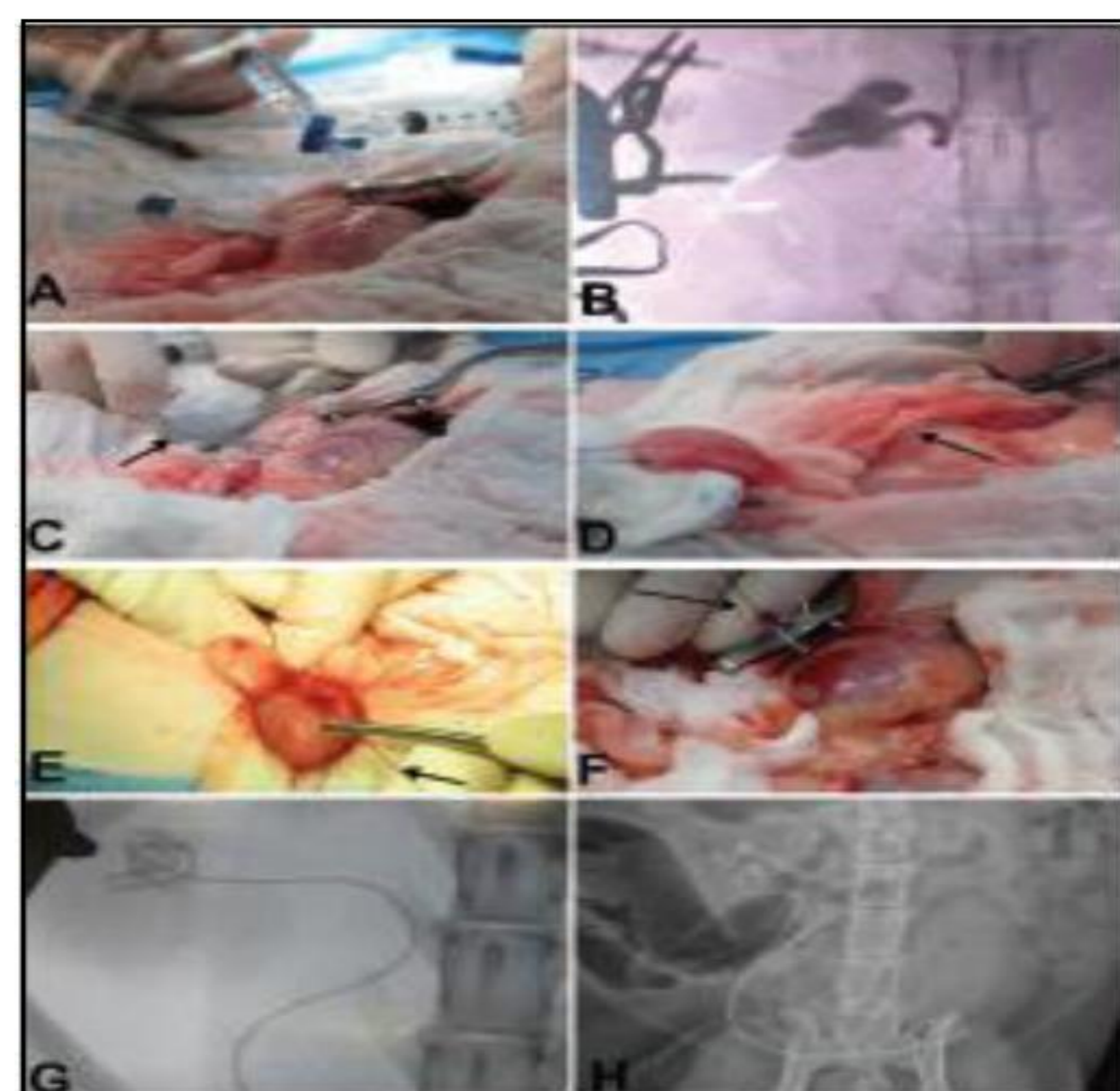


Figure 6: Placing ureteral stent.

- (A) renal pelvis catheter
- (B) antegrade pyelography
- (C) 0.018 guidewire
- (D) guidewire in the ureter
- (E) cystotomy
- (F) cystotomy with the stent
- (G) ureteral stent fluoroscopy
- (H) ureteral stent radiograph



Figure 7: Ureteral stent and ureteral dilator pusher.

CONCLUSIONS

- 1-The use of ureteral stents after different studies has become an advance over conventional surgeries oxalate stones in the ureters.
- 2-The use of subcutaneous ureteral bypass (SUB) starts to become an advance over conventional surgeries oxalate stones in the ureters , but needs further deepen their study.