

**腎臟創傷及輸尿管結石之相互影響**

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**THE MUTUAL EFFECTS BETWEEN RENAL TRAUMA AND URETERAL STONE**

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**Background:**

Renal hematoma caused by blunt trauma and ureteral stone are common urological entities; however, a combination of the two is rare. We explored the possible mutual effects of the two entities when they are simultaneously present.

**Case:**

A 53-year-old man was admitted via the emergency department after a traffic accident. Left flank soreness and gross hematuria were complained. An abdominal CT scan revealed grade IV left renal trauma, which presented as a huge renal hematoma with active bleeding. Left sided hydronephrosis with a large stone incarcerated in the middle portion of the left ureter was also noted. Besides blood transfusion, transarterial embolization was performed twice to control hemorrhagic shock and abdominal compartment syndrome; once at the emergency department, and once on the 2<sup>nd</sup> day of admission. Laparoscopic left ureterolithotomy was done, and abundant blood clots proximal to the stone were extracted. The patient was discharged smoothly on the 6<sup>th</sup> day after surgery.

**Conclusions:**

The prolonged secondary hydronephrosis may have increased the size of the kidney as well as decreased the cortical thickness, thus raising the risk of renal laceration and hemorrhage during blunt injury; but the ureteral stone also provided a tamponade effect in regard to the renal pelvic bleeding. This successful nephron-sparing experience may provide additional insight to the current strategy of renal trauma management.