

# **Fibrin sealant for the management of genitourinary injuries, fistulas and surgical complications.**

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## **Abstract:**

**Purpose:** We report our preliminary experience with the use of fibrin sealant to manage iatrogenic urinary tract injuries, complex urinary fistulas, and urological surgical complications. Materials and

**Methods:** Topical fibrin sealant was used in 19 patients for iatrogenic urinary tract injury during gynecological or general surgical procedures (7), complex urinary fistulas (5) or urological surgical complications (7). **Results:** Successful resolution of the injury, fistula or complication was attained after a single application of fibrin sealant in the 18 patients (94.7%) in whom a direct injection technique was used. The only failure (formation of a vesicovaginal fistula) occurred with the air driven sprayed sealant delivery technique after sutured closure of iatrogenic cystotomy during vaginal hysterectomy. **Conclusions:** Liquid fibrin sealant appears to be safe and prudent for use in urological "damage control" from trauma, fistulas or surgical complications. Direct injection over a sutured urinary anastomosis appears to be highly effective in preventing urinary drainage. Additional study is needed to define further the role and best use of tissue adhesives in urology.