

Use of fibrin glue as a sealant at the anastomotic line in laparoscopic pyeloplasty: A randomised controlled trial.

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Abstract:

Objective To assess the effectiveness of fibrin glue as a sealant at the anastomotic line of a stentless laparoscopic pyeloplasty (LPP) repair instead of JJ stent insertion. **Patients and methods** In all, 46 patients with pelvi-ureteric junction obstruction scheduled for LPP were randomised into two groups each containing 23 patients. Group A underwent stented repair, while group B had a stentless repair together with sealing of the anastomotic line with fibrin glue. **Results** There was no statistically significant difference between the groups for the postoperative improvement in the renal scan and intravenous urography. However, there was a statistically significant decrease in early postoperative adverse events in group B. In group A, all the patients had irritative lower urinary tract symptoms (LUTS) and 16 (72.7%) had postoperative urinary tract infections (UTIs). In group B, no patient had a UTI or irritative LUTS. In all, 21 patients (95.4%) in group A had minimal terminal painful haematuria; while in group B, only one patient (4.3%) had minimal total painless haematuria. Also, patients in group B were spared the need for a second anaesthesia exposure for stent removal. **Conclusion** The use of fibrin glue is a valid alternative to stenting in LPP with the same excellent outcome but with markedly lower short-term postoperative adverse events.

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