

# **Fibrin glue as a delivery vehicle for autologous urothelial cell transplantation onto a prefabricated pouch.**

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## **Abstract:**

**Purpose:** The purpose of the study was to investigate how in vivo expanded urothelium can be transplanted onto a prefabricated capsule-pouch for urinary reconstruction. **Materials and Methods:** Urothelial cells from 40 rats were harvested for culture. A tissue expander was used to induce a capsule-pouch on which the cell culture were reimplanted ten days later. As delivery vehicle we compared standard culture media and fibrin glue. **Results:** The histology demonstrated viable, multilayered clusters of urothelium cells only in the group using the fibrin glue delivery vehicle. **Conclusion:** We conclude that cultured urothelial cells can be successfully reimplanted onto a prefabricated capsule- pouch via fibrin glue, showing potential for urinary reconstructions.