

The role of fibrin tissue adhesives in flap necrosis in rats.

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Abstract:

Flap necrosis is an important issue in surgery, and fibrin tissue adhesives, due to beneficial properties in preventing flap necrosis, were used in this study. Two groups, each comprising of 10 rats, were formed. Group I served as a control group, and fibrin tissue adhesive was applied to group II. The fibrinogen and thrombin concentrations in fibrin tissue adhesive were 30 mg/ml and 10 U/ml, respectively. The mean area of flap necrosis was $687.5 \pm 72.5 \text{ mm}^2$ and $78.5 \pm 11.0 \text{ mm}^2$ in the control and fibrin tissue adhesive groups ($p < .0001$), respectively. The percentage of flap necrosis was significantly lower in the fibrin tissue adhesive group compared to the control group (5.6% vs 49.1%) ($p < .0001$). Fibrin tissue adhesives decreased flap necrosis significantly compared to the control group. Copyright © Taylor & Francis Inc.