

Comparison of cryoprecipitate with commercial fibrinogen in bullectomy.

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Abstract:

Fibrin glues are widely used for various pulmonary operations, but commercially produced glues are made of heterogeneous fibrinogen that has infection risks. We used autologous cryoprecipitate and evaluated its clinical value as a fibrin sealant instead of the commercially available glue. One hundred patients who underwent thoracoscopic bullectomy for primary spontaneous pneumothorax were studied. The apical visceral pleura was covered with an absorbable mesh and a fibrin glue. Autologous cryoprecipitate glue was used in 30 patients (group A), and commercially produced fibrinogen was used in 70 (group B). The mean duration of postoperative chest drainage was 1.9 days in group A and 1.5 days in group B. The cumulative 2-year postoperative recurrence rate was 3.4% in group A and 6.5% in group B. There were no differences in clinical results after surgery for primary spontaneous pneumothorax, using either autologous cryoprecipitate or commercially produced fibrinogen. The production autologous cryoprecipitate was easy and low-cost. We propose that autologous cryoprecipitates be used in operations for primary spontaneous pneumothorax. © SAGE Publications 2009.