

The effect of fibrin glue on inhibition of pericardial adhesions.

Authors: Moro H., Hayashi J., Ohzeki H., Nakayama T., Namura O., Hanzawa K., Yagi N.

Publication Date: 1999

Abstract:

The effect of fibrin glue on inhibition of pericardial adhesions was tested using 26 beagle dogs. Dacron patches were sutured to the heart and tincture of iodine was applied to promote adhesions. Fibrin glue (3 ml) was sprayed over the patches in 15 dogs (test group), and was not separated in the remaining 11 dogs (control group). All animals in the test group had minimal adhesions between the pericardium and the epicardium or patched region, and an accumulation of gelatinous material was found in the subpericardial space. Marked fibrosis and a poor demarcation of the subpericardial space were found in the control group. The adhesion score and the visibility of coronary anatomy in the test group were significantly better than in the control group. The tension strength in the test group was significantly less than in the control group. We concluded, therefore, that fibrin glue may also be useful as an adhesion inhibitor.