

Autologous fibrin sealant preparing system in coronary artery bypass grafting. [Japanese]

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Abstract:

Autologous fibrin sealant (AFS) which is not based on the conventional method of co-administering fibrinogen, thrombin and aprotinin was prepared by Vivostat system, and was used in coronary artery bypass grafting (CABG). The purpose of this study was to investigate the safety and efficacy of the AFS prepared by the Vivostat system. In 6 of 68 cases of CABG, normal AFS was not prepared due to device failures. AFS was prepared and sprayed in 62 cases. There were the total of 230 anastomosis sprayed AFS and the bleeding could not seen in 225 anastomosis. Surgical hemostatic procedures (4 cases) were or other sealant usage (1 case) was performed 5 bleeding anastomosis sites. The rate of hemostasis at the anastomosis using AFS was 97.8%. This study was conducted in patients undergoing CABG. In this group of patients, a number of commercial available fibrin sealant products are routinely used. The usefulness of Vivostat as medical device to prepare and administer AFS was confirmed in this study.