A carbon fiber epicardial pacing device which can be attached by fibrin glue.

Authors: Kimura M., Sugiura T., Kimura T., Harada Y.

Publication Date: 1994

Abstract:

A temporary bipolar epicardial pacing device which is constructed by flexible carbon fiber and fibrin glue was proposed. This device can be attached to the surface of the cardiac muscle easily. Developed pacing leads were applied to 3 mongrel dogs. The electrodes were attached to the animals' right atrium. For one week, the pacing threshold voltage and the inter electrode impedance were measured. In all cases, the pacing threshold were less than 5 volts and the inter electrode impedance were between 300 ohm and 700 ohm. These values were allowable for epicardial pacing. After one week from the implantation, the leads could be pulled out safely without any bleeding. Proposed pacing lead is promising as a epicardial pacing device.