

Video Article

catherization of tha abdominal aorta and LAD ligation in a rat model

TODO TODO¹

¹TODO, TODO

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Abstract

A worldwide spreading disease is heart failure. There are several cures for this condition. Our project develops another approach by using artificial contractile meshes in order to enhance the cardiac contractability. In order to test the enhancing effect of the contractile meshes a surgical procedure has to be done simulating a coronary syndrome / anterior myocardial infarction. Therefore, we induce infarction by the use of LAD ligation technique. The lowered blood pressure is measured by a catheter inserted in the abdominal aorta. The procedure commences by preparation of the main airways followed by tracheotomy and intubation. Before and after inducing cardiomyopahty the blood pressure is measured by the means of a catheter inserted in the abdominal aorta. Subsequent to the measurement of the normal, healthy blood pressure a thoracotomy is conducted and a cardiomyopathy induced by ligature of the LAD. By remeasuring the blood pressure we detect the resulting effects of cardiomyotpathy.

Disclosures

No conflicts of interest declared.