可控性心肌缺血动物模型的制作　　　点此下载全文

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摘要：

　　目的：建立小型猪可控性心肌缺血的动物模型。方法：健康成年小型猪10只，开胸安置自制水囊缩窄器．建立钝缘支可控性缺血的动物模型。术后行缺血心电图试验、冠脉造影、微球技术检测缺血区心肌水囊加压前后CCBF以及靶血管支配区心肌HE染色观察。结果：制作成功的8其小型猪在水囊加压后均可出现明显的缺血性心电图表现．同时钝缘支下游造影延迟、稀疏．钝缘支近乎完全闭塞，水囊压力撤除后心电图迅速恢复正常，钝缘支远端灌注恢复到水囊加压前状态。水囊加压前后靶血管支配区域CCBF明娩减少（P〈0．05）。HE染色无心肌梗死表现。结论：采用该自制水囊缩窄器可以成功制作可控性心肌缺血动物模型。

关键词： 可控性心肌缺血　动物模型　小型猪

Experimental animal model of controllable myocardial ischemia　　Download Fulltext

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Abstract:

　　Objective:To establish an animal model of controllable myocardial ischemia in piglet. Method:Thoracotomy and pericardiectomy were performed in 10 piglets. A home-made hydraulic occluder was then implanted around the oblique marginal artery. Selective coronary angiography,pressure-EKG test,CCBF and pathological examination were performed after surgery to evaluate the degree of stenosis.Result:Pressure induced EKG change of ischemia could be found in all subjects. Selective coronary angiography demonstrated a significant reduction in myocardial blood flow in the oblique marginal artery after hydraulic occluder was inflated. Simultaneously,CCBF of the hazardous zone was obviously decreased(P<0.05). There was no evidence of myocardial infarction.Conclusion:The home-made hydraulic occluder is applicable to make an animal model of controllable myocardial ischemia. It may create an important approach in research of cardiac rehabilitation.

Keywords:controllable myocardial ischemia　animal model　mini swine

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