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兔甲亢性心肌病不同左心室构型血管内皮功能与左心室舒张功能的变化

## Changes of vascular endothelial function and left ventricular diastolic function of different geometric patterns with hyperthyroid cardiomyopathy in rabbits

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作者 单位 E-mail

张洁 大连医科大学附属第二医院超声科,辽宁 大连 116027

礼广森 大连医科大学附属第二医院超声科,辽宁 大连 116027 liguangsen09@yahoo.com.cn

<u>孙艳红</u> 大连医科大学附属第二医院超声科,辽宁 大连 116027

王亚娟 大连医科大学附属第二医院超声科,辽宁 大连 116027

王伟东 大连医科大学附属第二医院超声科,辽宁 大连 116027

毕文君 大连医科大学附属第二医院超声科,辽宁 大连 116027

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## 中文摘要:

目的 探讨兔甲亢性心肌病不同左心室构型血管内皮功能与左心室舒张功能的变化。方法 纯种新西兰大白兔30只,分为实验组(20只)和对照组(10只)。对实验组兔每日经腹腔注射左旋甲状腺素(45 μg/kg体质量)建立甲亢动物模型,依超声参数分为向心性肥厚(CH)亚组和离心性肥厚(EH)亚组,超声检测各组兔的血管内皮依赖性舒张功能(EDD)和血管内皮非依赖性舒张功能(NED D),在QTVI条件下测量二尖瓣环平均舒张期峰值速度(Ve)、计算两个位点平均峰值速度及E/Ve。结果 与对照组比较、CH亚组、EH亚组的EDD显著减小,且EH亚组更明显(P均<0.01)。与对照组及CH亚组比较、EH亚组NEDD显著减小,(P均<0.01)。与对照组比较、EH亚组的EDD显著减小,(P均<0.01)。与对照组及CH亚组比较、EH亚组的EDD显著减小(P均<0.01)。与对照组比较、CH亚组、EH亚组的E/Ve显著增高(P均<0.01),且EH亚组E/Ve较CH亚组增高更显著(P<0.01)。实验组EDD和NEDD与Ve呈正相关(P均<0.05),与E/Ve呈负相关(P均<0.05)。结论 兔甲亢性心肌病血管内皮功能变化与左心室舒张功能的改变密切相关。

## 英文摘要:

**Objective** To explore the changes between vascular endothelial function and left ventricular diastolic function of different geometric patterns with hyperthyroid cardiomyopathy in rabbits. **Methods** Thirty purebred New Zealand rabbits were divided into experimental group (n=20) and control group (n=10). Hyperthyroidism animal model was established with peritoneal injection of levothyroxine (L-Thy) in experimental group. According to ultrasound parameter changes, the ventricular geometries of experimental group were divided into concentric hypertrophy (CH) subgroup and eccentric hypertrophy (EH) subgroup. Endothelial dependent dilation (EDD) and non-endothelial dependent dilation (NEDD) were measured with high frequency sonography. The peak diastolic velocity (Ve) at the mitral annulus were measured by QTVI, the average peak velocity of two sites and E/Ve were calculated. **Results** EDD was significantly lower in CH subgroup and control group (both P<0.01). NEDD was significantly lower in EH subgroup than that of the CH subgroup than that of the CH subgroup (both P<0.01). Ve was significantly lower in CH and EH subgroups than that of the control group (both P<0.01), higher in CH and EH subgroups than that of the control group (both P<0.01), higher in EH subgroup than that of the CH subgroup (P<0.01). E/Ve was significantly higher in CH and EH subgroups than that of the control group (both P<0.01), higher in EH subgroup than that of CH subgroup (both P<0.01). Ve was negatively correlated with EDD and NEDD (P<0.05), while E/Ve was negatively correlated with EDD and NEDD in experimental group (P<0.05). **Conclusion** The changes between vascular endothelial function and left ventricular diastolic function are closely related in rabbits with hyperthyroid cardiomyopathy.

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地址: 北京市海淀区北四环西路21号大猷楼502室 邮政编码: 100190 电话: 010-82547901/2/3 传真: 010-82547903

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