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《第三军医大学学报》 [ISSN:1000-5404/CN:51-1095/R] 卷: 34 期数: 2012年第05期 页码: 383-386 栏目: 论著 出版日期: 2012-03-15

Title: Effect of left superior pulmonary vein fat pad on cardiac electrophysiological characteristics in dogs

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关键词: 射频消融; 左上肺静脉脂肪垫; 有效不应期; 心脏电生理

Keywords: ablation; superior left pulmonary vein fat pad; effective refractory period; cardiac electrophysiology

分类号: R322.11; R331.38; R540.46

DOI: -

文献标识码: A

**摘要:** 目的 观察射频消融左上肺静脉脂肪垫 (left superior pulmonary vein fat pad, LSPV-FP) 对心脏电生理特性的影响。 方法 12只健康杂种犬, 麻醉插管后持续心电监测; 于双侧颈部暴露迷走神经干, 左右侧第4肋间开胸暴露LSPV-FP; 分别测量基础、刺激迷走神经、消融LSPV-FP、刺激迷走神经+消融LSPV-FP四种状态下的RR间期、窦房结恢复时间 (SNRT)、房室结前传文氏点 (WCL)、AH间期、HV间期及心房有效不应期 (ERP)。 结果 ①射频消融LSPV-FP对基础状态的心脏电生理特性无显著影响 ( $P>0.05$ ) ; ②刺激左侧或右侧迷走神经干均可显著延长RR间期、SNRT、WCL、AH间期及缩短心房ERP ( $P<0.05$ ) , 消融LSPV-FP可以明显削弱左侧迷走神经干刺激所导致的电生理变化 ( $P<0.05$ ) , 但对右侧迷走神经干刺激所导致的电生理变化无显著影响 ( $P>0.05$ ) 。 结论 射频消融LSPV-FP对基础状态心脏窦房结、房室结电生理特性无显著影响, 左侧迷走神经通过LSPV-FP发挥对心脏电生理的调节作用。

**Abstract:** Objective To explore the functions of left inferior pulmonary vein fat pad (LSPV-FP) on the cardiac electrophysiological characteristics. Methods Twelve adult healthy mongrel dogs were anesthetized and ventilated, and their both cervical vagosympathetic trunks were exposed for stimulation. The LSPV-FP was exposed via thoracotomies at the 4th intercostal space of left and right chest. The RR interval, SNRT, WCL, AH interval, HV interval, ERP of atrium were measured in the following status, baseline, vagosympathetic trunks stimulation (VTS), LSPV-FP ablation. and VTS post LSPV-FP ablation. Results No significant electrophysiological change was observed before and after LSPV-FP ablation in the baseline ( $P>0.05$ ). In the status of left vagosympathetic trunks stimulation (LVTS) or right vagosympathetic trunks stimulation (RVTS), the RR interval, SNRT, WCL, AH interval were lengthened, while the ERP of atrium were shortened. LSPV-FP ablation significantly attenuated all the changes induced by LVTS ( $P<0.05$ ), but did not attenuate the changes induced by RVTS ( $P>0.05$ ). Conclusion No significant difference in SN and AVN electrophysiology is observed before and after LSPV-FP ablation in baseline. Left vagosympathetic trunk plays a role in cardiac electrophysiology via LSPV-FP.

参考文献/REFERENCES

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备注/Memo: -

更新日期/Last Update: 2012-03-01