

论著

## 颈淋巴引流阻滞对清醒自由活动大鼠的血压的影响

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### 摘要

目的: 观察颈淋巴引流阻滞 (CLB) 对清醒自由活动大鼠的血压的影响, 并初步探讨其机制。方法: 采用SD大鼠, 随机分为假手术组 (Sham组) 和CLB组。应用监测清醒自由活动大鼠血流动力学变化的手段, 分别连续记录两组大鼠在假手术和CLB手术术前及术后第1、3、7、11、15 d收缩压 (SBP)、舒张压 (DBP)、心率 (HR) 的变化。测定两组大鼠术前、术后第1、7及15 d压力感受性反射敏感性 (BRS)。脱机分析其相应的血压波动性 (BPV)、心率变异性 (HRV)。结果: CLB术后第1天SBP、DBP、MAP、HR及BRS下降, 第7天降至最低, BRS在7 d后无明显恢复, 而血压及心率随着CLB时间的延长呈先下降后上升。相反, HRV、BPV先上升后下降。结论: CLB可导致清醒自由活动大鼠血压降低, 心血管系统神经调节功能下降。

关键词 [颈淋巴引流](#); [血压](#); [大鼠](#); [压力感受器反射](#)

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## Effect of cervical lymphatic blockage on blood pressure in conscious unrestrained rats

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### Abstract

<FONT face=Verdana>AIM: To investigate the effect of cervical lymphatic blockage (CLB) on blood pressure (BP) in conscious unrestrained rats. METHODS: Sprague-Dawley (SD) rats were adopted and randomly divided into two groups as Sham operated group and CLB group. By means of monitoring hemodynamic change in conscious unrestrained rats, twenty-four-hour blood pressure (SBP, DBP and MAP), blood pressure variability (BPV), heart rate (HR) and heart rate variability (HRV) were respectively measured before sham and cervical lymphatic blockage operation as their baseline and at 1st, 3rd, 7th, 11th, 15th days after operation. Meanwhile, arterial baroreflex sensitivity (BRS) was measured before and at 1st, 7th, 15th days after operation. RESULTS: SBP, DBP, MAP and HR significantly decreased at 1st day after CLB operation and their lowest values appeared at 7th day. The tendency of their alternation was descending early and then ascending whereas reverse alterations of BPV and HRV were observed. BRS reduced in CLB rats with no apparent recovery from 7th day. <BR>CONCLUSION: CLB results in reduction of blood pressure and dysfunction of nervous regulation on cardiovascular system in conscious unrestrained rats. </FONT>

**Key words** [Cervical lymphatic drainage](#) [Blood pressure](#) [Rats](#) [Baroreflex](#)

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