大鼠迷走神经损伤对中枢核团神经元的影响(点击查看pdf全文)

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Title: Retrograde changes in the dorsal motor nuclei of rat vagus nerve after vagotomy

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关键词: 迷走神经背核; 迷走神经离断术; 诱导型一氧化氮合成酶; 烟酰胺腺嘌呤二核苷酸脱氢酶

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摘要: 目的观察大鼠外周迷走神经主干离断后对中枢迷走背核神经元的影响。方法应用尼氏染色和免疫组化检测成熟雄性
SD大鼠迷走神经主干离断后中枢背核神经元形态和诱导型一氧化氮合成酶（iNOS）及烟酰胺腺嘌呤二核苷酸脱氢酶（NADPH）
表达的变化。结果迷走神经离断后1d和5d右侧背核神经元形态与对照组及同时间点左侧背核相比有明显改变，神经元细胞
数量有明显减少；右侧迷走神经离断后5d大鼠右侧背核区均可见大量iNOS染色阳性神经元；右侧迷走神经离断后5d大鼠右
侧背核区均可见较多NADPH染色阳性神经元。结论大鼠单侧迷走神经离断后可导致同侧迷走中枢背核发生逆行性改变。

Abstract: ObjectiveTo investigate the retrograde changes in the dorsal motor nuclei (DMV) of the vagus nerve after vagotomy
in rats. MethodsNissl staining and immunohistochemistry were used to observe the morphological and quantitative changes
of the DMV and alterations of the expression of iNOS and NADPH after severing of the vagus nerve in adult male Wistar rats.
ResultsCompared with the control group, the rats with right vagotomy showed obvious morphological changes and a
significantly decreased number of neurons in the right DMV (P<0.05). Numerous iNOS- and NADPH-immunopositve cells
were detected in the right DMV5and10days after right vagotomy.ConclusionVagotomy causes obvious retrograde changes
in rat DMV shown by a significantly decreased number and obvious morphological changes of the neurons in the DMV.

参考文献/REFERENCES

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