

论著

双肾双夹易卒中型肾血管性高血压大鼠重要靶器官ACE2表达研究

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摘要 目的: 本实验观察在肾性高血压的发生发展过程中大鼠重要靶器官脑、心肌、肾、主动脉组织中血管紧张素I转化酶2 (ACE2) 的表达变化情况, 探讨在高血压的发生发展过程中ACE2的变化规律, 为防治高血压提供新的研究作用靶点。

方法: 建立双肾双夹易卒中型肾血管性高血压大鼠动物模型, 用Western blotting的方法研究在高血压发生发展过程中重要靶器官组织中ACE2的表达。

结果: 2周末高血压组血压明显升高, 4周末高血压组心脏体重比明显升高, 高血压组重要靶器官心、脑、肾、主动脉中ACE2的表达随高血压的时程发展明显减少。

结论: 双肾双夹易卒中型肾血管性高血压大鼠重要靶器官组织中ACE2表达减少, 提示ACE2参与高血压的发生发展, 并与高血压靶器官的损害有关。

关键词 [大鼠](#) [高血压](#), [肾血管性](#); [肽基二肽酶A](#)

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Expression of ACE2 in important target organs in the stroke-prone renovascular hypertensive rats

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Abstract

AIM: To investigate the expression of ACE2 in brain, heart, kidney and aorta in the process of hypertension.
METHODS: A model of hypertension was made by partly narrowing two bilateral renal arteries. The expression of ACE2 was determined by Western blotting.
RESULTS: The blood pressure of hypertensive group started rising at the end of the 2nd week. The ratio of heart weight to body weight in hypertensive group was significantly higher than that in control group at the end of the 4th week. The expression of ACE2 decreased significantly in brain, heart, kidney and aorta tissues with the development of hypertension.
CONCLUSION: ACE2 expression in brain, heart, kidney and aorta tissues decreases in hypertension model, which suggests that ACE2 may play an important role in the development of hypertension and the damage of important organs.

Key words [Rats](#) [Hypertension](#), [renovascular](#) [Peptidyl-dipeptidase A](#)

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