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Effects of Enalapril and Captopril on Urinary Excretion of Kinins and Electrolytes in Stroke-Prone Spontaneously Hypertensive Rats

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Urinary excretion of kinins in stroke-prone spontaneously hypertensive (SHRSP) rats was unchanged during oral enalapril (10 mg/kg) or captopril (30 mg/kg) treatment once a day for 8 days compared to vehicle treatment. However, a significant decrease in urinary kinin excretion was observed on the 5th and 7th day compared to the pretreatment value in rats treated with enalapril. Both enalapril and captopril produced a significant reduction in blood pressure when compared to the vehicle. These findings provide no positive evidence to support the hypothesis of possible involvement of renal kinins in the antihypertensive effect of converting enzyme inhibitors in SHRSP rats.

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