药学学报 1980, 15(4) 248-250 DOI: ISSN: CN:



论文

# 盐酸小檗胺降压作用机制的研究

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摘要:

关键词:

## A STUDY ON THE HYPOTENSJVE ACTION AND MECHANISM OF BERBAMINE HYDROCHLORIDE

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Abstract:

Berbamine hydrochloride is an alkaloid isolated from *Berberis poiretii*. The experiments reported here were designed to observe the hypotensive action and mechanism of Berbamine hydrochloride in cats, doga and rabbits, using many models such as intravenous administration, intravertebral arterial administration, in pithed cat, the superior ganglion-nictating membrane preparation in cat, the heart in situ, and the perfused vessel in rat's lower limb. The following results were obtained:Berbamine hydrochloride reduced blood pressure in various animals. The blood pressure was reduced about 20% by giving 5 mg/kg of Berbamine hydrochloride intravenously. As the dose increased to 10 mg/kg (i.v.), the reduction of blood pressure was overIn normal cats, blood pressure was reduced significantly and immediately after vertebral arterial adminis tion. Berbamine hydrochloride 0.5mg increased the fluid flow in perfused rat lower limb.Berbamine hydrochloride showed no superior dervical ganglionic blockade and did not show any antagonism to adrenaline and atropine.These results showed that the hypotensive activity of Berbamine hydrochloride was based on its action on central nervous system and dilatation of blood vessels.

Keywords:

收稿日期 1979-03-02 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

参考文献:

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