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论文

石蒜碱对动物垂体促肾上腺皮质激素分泌的刺激作用

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摘要：

作者用幼小鼠胸腺萎缩法、家兔肾上腺抗坏血酸含量降低及蟾蜍嗜酸性白血球减少等方法,证实石蒜碱具有刺激动物肾上腺皮质功能的作用;当用去除垂体蟾蜍作试验对象时,证明石蒜碱的这一作用系通过垂体而实现.此外,石蒜碱对家兔甲酸性关节炎及大鼠蛋白性关节炎显示明显的抗炎作用.

关键词：

EFFECT OF LYCORINE ON THE PITUITARY-ADRENAL SYSTEM

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Abstract:

Subcutaneous injection of lycorine at a dosage of 12 mg/kg once daily for 3 consecu- tive days induced marked involution of thymus in immature mice. Intravenous injection of a dose of 12 mg/kg of lycorine significantly depleted the adrenal ascorbic acid con- tent of the rabbit. Lycorine, at a dosage of 16 mg/kg, elicited eosinopenic response in the intact toad, but failed to induce similar response in the hypophysectomized animal. These results indicate that lycorine affected the function of the adrenal cortex presum- ably through stimulation of ACTH release. In addition, lycorine was found to possess anti-inflammatory activity on egg-white- induced oedema of the hind paw in intact rats, and on formalin-arthritis in rabbits (3mg/kg I.V.). However, lycorine failed to inhibit egg-white-induced oedema in ad-renalectomized rats. Thus, the anti-inflammatory action of lycorine is probably mediated by stimulating the pituitary-adrenal system.

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