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## Peculiar Effects of Selective Blockade of α2-Adrenoceptor Subtypes on Cardiac Chronotropy in Newborn Rats

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## Abstract

© 2015, Springer Science+Business Media New York. We studied the effects of selective blockade of various subtypes of  $\alpha$ 2-adrenoceptors on cardiac chronotropy in newborn rats. This period in rats is characterized by the absence of adrenergic regulation of heart function. Blockade of  $\alpha$ 2A/D- and  $\alpha$ 2B-adrenoceptors in 1-weekold rats provoked tachycardia. In contrast, blockade of  $\alpha$ 2C-adrenoceptors in newborn rats had no effect on heart rate.

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## **Keywords**

chronotropy, heart, ontogeny, rats, α2-adrenoceptors