

Bulletin of Experimental Biology and Medicine 2006 vol.142 N1, pages 12-14

## Peculiarities of regulation of heart rate and stroke volume in rats during ontogeny

Abzalov N., Ziyatdinova A., Abzalov R. Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

## **Abstract**

Changes in heart rate and stroke volume after successive blockade of cardiac adrenoand cholinoceptors were examined on rats of different age. It was established that irrespective of animal age the heart rate remained unchanged under conditions of total adreno-and cholinergic blockade of the heart. Stroke volume under conditions of total adreno-and cholinergic blockade increased with age. © Springer Science+Business Media, Inc. 2006.

http://dx.doi.org/10.1007/s10517-006-0278-x

## **Keywords**

Adrenoreceptors, Cardiac pumping function, Cholinoceptors, Heart rate, Stroke volume