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Erratum

# Caliber dependent calcitonin gene-related peptide-induced relaxation in rat coronary arteries: effect of $K^+$ on the tachyphylaxis [Eur. J. Pharmacol. (351) (1998) 53] [1]

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**Abstract**

The influence of vessel caliber on rat calcitonin gene-related peptide (rat-αCGRP)-induced responses and the reproducibility of rat-αCGRP concentration–response curves were investigated in the left intramural coronary artery of Sprague–Dawley rats. Rat-αCGRP ($10^{-11}$–$10^{-7}$ M) induced concentration-dependent relaxations with a $pD_2$-value equal to $8.43 \pm 0.05$ ($n = 44$) and maximal relaxation equal to $52 \pm 3\%$ ($n = 44$). Both the maximal relaxation and the sensitivity of rat-αCGRP were significantly and inversely correlated with vessel lumen diameter. The coronary arteries developed tachyphylaxis in response to rat-αCGRP, which was concentration dependently decreased by activating the vessels twice with a buffer containing 36 or 125 mM $K^+$. The rat-αCGRP-curve became fully reproducible after activation of the arteries twice with 125 mM $K^+$. These results indicate a caliber-related dependency of both the effect of and sensitivity to rat-αCGRP in intramural rat coronary arteries because the arteries become more sensitive and reactive to rat-αCGRP with decreasing caliber. Tachyphylaxis can be avoided by repeated activation with 125 mM $K^+$. 

*Keywords:* CGRP (Calcitonin gene-related peptide); Vessel caliber; Tachyphylaxis; $K^+$; Coronary artery

In the above-mentioned article, on page 54, Section 2.2: ... $CaCl_2 \cdot 2H_2O$ 21.5... should read... $CaCl_2 \cdot 2H_2O$ 1.5...

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