

Abstracts

Rate Effects in Isolated Hearts Induced by Microwave Irradiation (Short Papers)

J.L. Lords, C.H. Durney, A.M. Borg and C.E. Tinney. "Rate Effects in Isolated Hearts Induced by Microwave Irradiation (Short Papers)." 1973 Transactions on Microwave Theory and Techniques 21.12 (Dec. 1973 [T-MTT] (1973 Symposium Issue)): 834-836.

Continuous 960-MHz microwave irradiation of isolated poikilothermic hearts in Ringer's solution causes bradycardia, in contrast to the tachycardia usually produced by generalized heating. The effect appears to occur only over a narrow power range in the neighborhood of an estimated 3 mW absorbed by the heart. It is hypothesized that the bradycardia is produced by stimulation of the nerve remnants in the heart.

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