

**ROLE IN THE MECHANISMS CATECHOLAMINERGIC OF
ANTINOCICEPTIVE EFFECT OF LOW-INTENSITY ELECTROMAGNETIC
RADIATION OF MILLIMETER RANGE**

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Showing the role of catecholaminergic systems in the mechanisms of antinociceptive effect of low-intensity electromagnetic radiation (EMR), millimeter (mm) range. Thus, when β -adrenoceptor blockade preparatomi propranolol not noted a significant decrease in the analgesic effect of low-intensity EMR MM range relative to the total duration of pain response and its tonic component. Reducing the analgesic effectiveness of EHF exposure to 60,30 % ($p < 0,001$) when administered propranolol was detected only in the first phase of acute pain stress. Introduction of nicergoline has caused a significant decrease in the analgesic effect of EHF EMR at 30,26 % ($p < 0,001$), especially manifested in the first acute phase of the pain response, which is a proof of the participation of α -adrenergic receptors in the mechanisms of antinociceptive action of EHF EMR. Also shown in partial suppression of antinociceptive effect of EMR MM-diapanoza by administering

haloperidol, which proves that the dopaminergic system involved in the mechanisms of antinociceptive action of physical factors in the early stages of the pain reaction.

Keywords: low-intensity electromagnetic radiation of millimeter range, formalin test, pain reaction, noradrenaline, dopamine, catecholamines.

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