

SUMMARY

REPORT TO THE SCIENTIFIC AND PEDAGOGICAL PRACTICE STUDENT

FMF, 1 MASTER STUDY COURSE GR. 0F-81

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The theme: Using the infrared (IR) thermography techniques to study the impact of mobile phones on the human body

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The relevance. The human body is capable to absorb the energy of the EM wave of a large frequency range, which leads to the heating of living structures and death of cells. EM-field negatively affects to the human health. So, studying the characteristics of EM radiation generated by mobile phones is relevant.

The formulation of the problem. During the conversation, the powerful stream of EM radiation is sent directly to the head. Penetrating into the tissues, EM waves cause the heat. Eventually, the impact is negatively affected to the whole body functions.

Ways to solve the problem, using methods of infrared thermography to investigate the characteristics of electromagnetic radiation (power, intensity) from different models of mobile phones.

Results and conclusions, the temperature in the earlobe, before the beginning of the conversation on the phone was 36.97 °C, and after the conversation 39.17 °C. So, the temperature increased by 2.2 °C. So with the aid of infrared thermography you can investigate the effect of electromagnetic radiation on the human functional state.