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SUMMARY

Clinical application of the high frequency currents, development and overview of used methods

The aim of the application of the high frequency electromagnetic currents is to achieve tissues overheating by the endogenous heat. Diathermy is used since the beginning of the XX century, but continuous science and technology development allow to lead in the new methods of using electromagnetic field in wider range of frequency and construct better and better machines. Nowadays physiotherapy treatment is using short wave diathermy (frequency 27,12MHz) in continuous and pulsed application, but also microwave diathermy (frequency 2450MHz). Other methods have smaller range of using, mostly in cosmetic or surgery.

Despite thermal impact on tissues, diathermy improve blood circulation and organs nutrition, which help in exudates absorption and body regeneration. What is more, diathermia stimulates antibacterial and antiviral resistance. Generally influence relaxing, calming and pain-relieving.

During diathermia treatment, should be remembered about possibility of complications and risk, but also about patients and therapist safety. The main threat which can appear during diathermia treatment is overheating and eye damage. That is why the proper organization of the treating room and observance safety rules is so much important.