

THE STUDY LOOKING OF EFFECTS MAGNETIC FIELD OF LOW FREQUENCY PRODUCING THE CURRENTS OF DIFFERENT FORMS IN MEDICAL PRACTICE

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Abstract. Our study have a collaboration interdisciplinary with looking at product magnetic field and your effect in medical pathology. I built one current generative which give a modulation current in form tooth of saw with frequency between 30-40Hz. Now instruments with which work therapy with magnetic field generation currents with sinusoidal modulation for example BIOMAG or MTU 500 with invariable frequency 50Hz and 100Hz or rectangular modulation currents with variable frequency between 0-50Hz, at instrument type BTL used very much.

The coils with generate magnetic field product our instruments are using instrument type BTL. Induction electromagnetic at two coils, (cervical and lumbar), is highest 12mT and at local coils highest 23Mt.

The results in therapeutic pathology I make through to compare with obtains classic instruments. In follow our study we have obtain:

- to all patients in our study I using only continuo form
- through compare with other instruments we obtain good results, in specially rheumatic and inflammations disease
- we have type of patients which not response these therapy
- in case articulations legs we have to decrease a number sessions from 21 to 14 for a induction 12mT to apply 20 minutes

Keywords: magnetic fields, therapy, coil, sinusoidal modulation

INTRODUCTION

Effect of magnetic field of low frequency at interaction with living organisms present a ample subject of scientific investigation the results obtain in present can't be yet typical. Effects obtain using this form energy (magnetic) are from by those which varied, the first all of parameters currents, what product that form energy [1].

OBJECTIVE

Our study have a collaboration interdisciplinary with looking at product magnetic field and your effect in medical pathology. In cervical arthrosis, as well as in any other rheumatism degenerative affections, the essential therapeutically objective resumes to avoiding of the annoying pain and interfere of certain pathogen ethical rings, the etiological therapy being less approachable. Studying series of situations we have noticed that the ultrasounds therapy can lead to symptom's recovery in most of the cases. The biological and physiological effects (analgetic, miorelaxant, hiperemiant) of the ultrasounds lead to certain subjective improvement such as: cephalic, dizziness, remaining in a therapeutical plan for a long time pleasing both for the patient and the doctor [2, 3].

MATERIALS AND METHODS

I built one current generative which give a modulation current in form tooth of saw with frequency between 30-40Hz. Now instruments with which work therapy with magnetic field generation currents with sinusoidal modulation for example BIOMAG or MTU 500 with invariable frequency 50Hz and 100Hz or rectangular modulation currents with variable frequency between 0-50Hz, at instrument type BTL used very much.

The coils with generate magnetic field product our instruments are using instrument type BTL. Induction electromagnetic at two coils, (cervical and lumbar), is highest 12mT and at local coils highest 23Mt.

RESULTS AND DISCUSSIONS

The results in therapeutic pathology I make through to compare with obtains classic instruments. Our study we make on 110 patients with different affections, (articulation, gynecology, neuro-psychical).

Which at a number 58 patients we obtains a good results. I find that this therapy type using this form current not tolerate of anything patient, in 11 case we have a bed health a patient at those who neurosis affections.

CONCLUSIONS

- to all patients in our study I using only continuo form
- through compare with other instruments we obtain good results, in specially rheumatic and inflammations disease
- we have type of patients which not response these therapy
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