Medical/biological Study (experimental study)

Low-Frequency pulsed electromagnetic fields influence EEG of man.

by von Klitzing L
published in: Physica Medica 1995; XI (2): 77 - 80

Aim of study (according to editor)
To study the influence of low frequency pulsed electromagnetic fields on EEG of human.

Endpoint

- effects on the neurological system: EEG

Exposure

Field characteristics	Parameters
150 MHz pulsed (PW) exposure duration: 2 or 3 times for 15 min	power flux density: 1 µW/cm² max value (calculated for the brain tissue in 6 cm depth)

Exposed system:
human
partial body exposure: head (neck)

Methods
Endpoint/Measurement parameters/Methodology

- effects on the neurological system: EEG (power spectral density (PSD) for the frequency bands between 0.5 and 20 Hz)

investigation on living organism
investigated organ system: brain/CNS

time of investigation: during and after exposure

Main outcome of study (according to author)
EEG-data of human sampled under the influence of low frequency pulsed electromagnetic fields are altered extremely in the range of alpha-activity as well as during and after exposure for some hours. This effect is induced by field intensities lower than the given international limiting values.

(Study character: medical/biological study, experimental study, full/main study)

Related article

- Vorobyov V et al. (2004): Repeated exposure to low-level extremely low frequency-modulated microwaves...

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originally included with such information.

Screen view