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 0

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

Back to search result

© 1997 - 2007, Research Center for Bioelectromagnetic Interaction (femu - RWTH Aachen University, Germany).

All Rights Reserved. You may retrieve, read or print, but not reproduce or publish any information found here, for personal and strictly non-commercial purposes, provided that you (i) do not modify such information, and (ii) include any copyright notice

originally included with such information.

Unless otherwise noted, the information provided in these documents does not represent the official view or statement of femu - Aachen University. By retrieving, reading or printing these documents you expressly state your agreement with all conditions in the fine print.

