

Letter to the Editor

Electromagnetic Fields and the High Diluted Solutions

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Dear Editor,

The rapid development of technology, especially, in the fields of medicine, energy and telecommunications, is one of the signs of progress in today's society. New sophisticated electric-electronic devices provide much convenience and utility in the form of modern medical equipment for diagnosis and therapy.

However the development of technology appears to be creating a new ecological situation: the so-called Electromagnetic Pollution, because any electrical/electronic or telecommunication device emits electromagnetic fields (EMF). These fields are waves of energy which have multiple frequencies, intensities and properties.

In 1996, The World Health Organization WHO started the International EMF Project, where scientific data about electromagnetic fields and health is collected [1].

On the other hand, the theory and practice of Highly Diluted solutions (HD) is based on the interaction of the energy emitted by the HD with living things. To explain this interaction, which is clinically verified, there are several hypotheses, but so far there is no consensus on this issue. Some of these are based on the emission of electromagnetic fields by HD [2]. For this reason, homeopathic practitioners advise patients not to place drugs close to electromagnetic field sources, because the drugs could lose their therapeutic properties [3, 4].

Other studies observed that equivalence between HD prepared manually and mechanically could not exist [5]. On this point it should be considered that there are strong electric and magnetic fields present in the mechanical technique.

Thus, one could say that the HD are directly or indirectly linked to the electromagnetic phenomena and, therefore, it is urgent to develop research that can clarify the degree of interaction between the HD and electromagnetic pollution.

The situations where the interaction of EMF (electromagnetic pollution) and HD can occur are:

- Raw material - Plantations of herbs that are used to make mother tinctures may be located near high-voltage lines, transformers, telecommunication's antennas, etc.
- Dynamization and succussion procedures- regardless of the technique (manual, mechanical, continuous flow, etc.) electromagnetic fields emitted by the own electrical/electronic devices are always present and may have strong levels. This fact leads to a question: are the EMF being dynamized during the HD succussion procedure ?.
- Pharmacies where the mother tinctures are prepared and elaborated- These localities could have strong levels of EMF emitted from the electrical/electronic devices located there. Could the stored mother tinctures and HD be altered by these EMF? Will it be necessary to develop protection techniques to HD?.

- User- The interaction between HD solutions and homeopathic drugs with EMF. This interaction may occur when the user of the HD places the drug near to electrical/electronic devices such as microwave ovens, mobile phones, medical equipment, etc. This situation cannot be ignored and therefore the development of research into the impact of electromagnetic pollution on HD would seem necessary.

Among areas of research required are included:

- Electromagnetic monitoring of the plantations used to obtain mother tinctures
- Electromagnetic monitoring of the homeopathic drug stores
- Research on the interaction of HD and homeopathic drugs with EMF during the dinamization and succussion procedures
- Determination of the EMF sensitivity of HD
- Research into techniques to protect HD against the EMF.

Electromagnetic Ecology as an emerging interdisciplinary specialty on biomedical effects of EMF could also be applied in the study of HD.

The integral treatment of the several subjects related to the HD by electromagnetic ecology could be applied to deepen the scientific studies of the mechanisms of interaction of HD with the living beings.

References

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