

Presentation of Prof. Dominique Belpomme at 8th National Congress on Electrosmog, Berne, 2011

Prof. Belpomme is Professor of Clinical Oncology, University Paris-Descartes. He practices medical Oncology and Environmental Medicine at the Alleray-Labrouste Clinic (Paris). He is also president of *ARTAC* (Association for Research and Treatment against Cancer) and Chairman of *ISDE-France* (International Society of Doctors for Environment). <http://www.artac.info/>

Clinical and biological description of the electromagnetic field intolerance syndrome (EMFIS)

Between May 2008 and March 2010, 425 patients reporting hypersensitivity to electromagnetic fields (EMFs) were examined in a clinical and biological setting. Ninety-five per cent of them clearly reported the repeated occurrence and disappearance of symptoms linked to the presence or absence of EMFs. Three clinical phases were distinguished: an initial stage during which EMF exposure can induce headaches, a sensation of heating in the ear and other parts of the body, especially the upper part of the body, tinnitus, ocular abnormalities, myalgia, and, in some cases, dermatitis and symptoms such as chest tightness, palpitations, tachycardia and nausea. A second phase is characterized by insomnia, chronic fatigue and depressive tendencies, attention deficit, troubles with concentration, immediate memory loss, behavioral problems, and anxiety, during which the initial symptoms may occur every time the patient is exposed to EMF sources.

In addition to the detection of brain vascular hypo-perfusion (decreased blood flow in certain areas of the brain), predominantly in the limbic area, blood tests revealed increased histamine levels in 36% of patients, an increase in heat shock proteins in 45%, a decreased level of melatonin in 33%, and vitamin D deficiency in 70% of patients.

Specific observations and tests were also included, proving that cerebral suffering was due to EMFs. There is a third phase, suggesting that an EMF intolerance syndrome may correspond to a pre-Alzheimer's disease state. In a recent interview (September 2010), Pr Belpomme stated that "there is an important link between electromagnetic fields and neuro-degenerative diseases, notably Alzheimer's. The risk of Alzheimer's, which can arise in young persons from age 45, is moreover much more important than the risk of cancer." The therapy for treating persons suffering from EMFIS includes prescription of omega 3's, anti-oxidants, vitamin D, and anti-histamines.

Excerpts from Metro-France interview with Prof. Dominique Belpomme, President, ARTAC, September 2010

There is a proven link between electromagnetic fields, cancer and leukemia. We (ARTAC and our Swedish colleagues) also studied an important link to neuro-degenerative diseases, notably Alzheimer's. The risk of Alzheimer's, which can appear in young persons from age 45, is much greater than the cancer risk.

Since last year, in my consultations in environmental medicine, I have been seeing between 10-20 sick persons every week. More and more parents are coming to see me for their children who have headaches, memory, concentration and language problems, and dyslexia.

This is a major public health risk. There is a neuro-generative pathology probably linked to the opening of the blood-brain barrier through EM waves and/or toxic substances. These troubles can be minor, such as headaches, or much more serious such as the beginning of Alzheimer's.

Based on the more than 400 persons who have consulted me, we have established a diagnostic test which rests essentially on a cerebral pulsed echodoppler technique and on blood tests. These permit us to see evidence of an increase in certain stress proteins which translate into the existence of brain pathology.

We have established treatment to make these symptoms regress, however this does not prevent a recurrence. Thus, there is the necessity of adding protective measures to this treatment: creation of "white zones", notably in public establishments and in public transport. We must do as for smoking: forbid Wi-Fi in certain zones, as in libraries. We must forbid installation of relay antennas near nurseries and schools. These are urgent protective measures to be taken, but are unfortunately not being applied.

My discourse goes against financial and economic interests, but one should not sacrifice the well-being of these sick persons for the interests of political and public authorities.

A major public health risk exists. Studies show that from 10 to 50% of the population could be affected by intolerance to EM fields in the next 25-50 years. We will have to pay the consequences if we do not take precautionary and preventive measures now.

There are many doctors who do not recognize this pathology and thus, deny the evidence. But a growing number understand that something is happening and refer sick persons to me. It is they whom we should rely on and that is why I am organizing in April 2011, the Third Colloquium of the Paris Appeal at UNESCO, which will be followed by an intensive course to train professionals in environmental pathologies.

(Note: 300 doctors, researchers and health professionals attended the Colloquium on "Children's Health and the Environment" and 43 doctors and health professionals followed the course in environmental medicine.)