Irish Doctors Environmental Association [IDEA]
Cumann Comhshaoil Dhoctúirí na hÉireann

Research Studies done on Microwave Radiation

First study on humans


Cancer studies

Szmigielski S, "Cancer morbidity in subjects occupationally exposed to high frequency (radiofrequency and microwave) electromagnetic radiation", Sci Total Environ 1996; 180: 9-17


Microwaves as stressors/non-thermal effects


DNA-damage/DNA-effects


The REFLEX study


Long-term exposure


Mast cell effects/importance for hypersensitivity/allergy/irradiation damage/cancer


Harvey C, French PW, "Effects on protein kinase C and gene expression in a human mast cell line, HMC-1, following microwave exposure", Cell Biol Int 1999; 23: 739-748

Gangi S, Johansson O, "A theoretical model based upon mast cells and histamine to explain the recently proclaimed sensitivity to electric and/or magnetic fields in humans", Med Hypotheses 2000; 54: 663-671


Johansson O, "Elöverkänslighet - en form av strålskada" (="Electrohypersensitivity - a kind of irradiation damage", in Swedish), Tf-bladet 2004; (3): 12-13


Rajkovic V, Matavulj M, Johansson O, "Histological characteristics of cutaneous and thyroid mast cell populations in male rats exposed to power-frequency electromagnetic fields", Int J Radiat Biol 2004, re-submitted


**Memory/behaviour/EEG**


**Sleep/wakefulness**


Eye cancer


Blood-brain barrier/nerve cell damage


Salford LG, Brun AE, Eberhardt JL, Malmgren L, Persson BRR, "Nerve cell damage in mammalian brain after exposure to microwaves from GSM mobile phones", Environmental Health Perspectives, doi:10.1289/ehp.6039 (available at http://dx.doi.org/), 29 January 2003

Influence on bacteria

Shcheglov V, Alipov E, Belyaev I, "Cell-to-cell communication in response of E. coli cells at different phases of growth to low-intensity microwaves", Biochim Biophys Acta 2002; 1572: 101

Base stations/cellular phones/health effects


Santini R, Santini P, Seigne M, Danze JM, "Symptoms notified by people living near cell phone relay stations" (in French), Presse Med 2001; 30: 1594


Hallberg Ö, Johansson O, "Does GSM 1800 MHz affect the public health in Sweden?", In: Proceedings of the 3rd International Workshop "Biological Effects of EMFs", Kos, Greece, October 4-8, 2004


Radio-/TV-masts/cancer/health effects


Magras IN, Xenos TD, " RF radiation-induced changes in the prenatal development of mice", Bioelectromagnetics 1997; 18: 455-461


Hallberg Ö, Johansson O, "Cancerdödlighet och långtidssjukskrivning" (="Cancer mortality and long-term sick leave"; in Swedish), Tidskriften Medikament 2002; 7: 40-41


Hallberg Ö, Johansson O, "FM broadcasting exposure time and malignant melanoma incidence", Electromagnetic Biology and Medicine, 2004, accepted for publication

**General**

Södergren L, Johansson O, "Commentary: Mobile telephones - will the golden goose become the mad cow?", J Aust Coll Nutr & Env Med 2001; 20: 29-30


The Stewart Report (no. 2; no. 1 December 2000)

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**Phone masts affecting health nationwide, claim campaigners**

*02/02/2006 - 18:13:23*

Mobile phone masts are accountable for adverse health effects on residents nationwide, it was claimed today.

Members of IERVN (Irish Electromagnetic Radiation Victims Network) recounted their daily sufferings to the Joint Committee on Health and Children in Leinster House.

Group spokesman Con Colbert said electrosensitivity was not just an Irish phenomenon but a global one, with people suffering from physical pain and discomfort all over the world.

Many members, some suicidal, have been forced from their homes due to radiation levels from nearby phone masts. Their quality of life - domestic, social and economic - has deteriorated with families being disrupted and sufferers unable to shop or work in areas with a high energy capacity.

Mr Colbert himself sleeps in a chalet at the end of the garden of his Raheny home to try and escape the burning sensation from radiation from nearby phone masts.

Fellow sufferer Helen McCorry and her two children were forced to flee a new apartment in Dublin's inner city due to the erection of antennae.
Once rehoused in Clontarf their health improved until antennae appeared on a building just 80 metres from their home. All three are now forced to sleep in their car at night to avoid the radiation.

Mrs McCorry, who was physically distressed during the committee hearing from the use of phones in the building, called for the homes of all sufferers to be screened from radiation waves with specialist materials.

"I have pleaded with phone companies to turn the masts down," she said. "We are sitting in our homes dying from this. There is nothing we can do."

Others, including farmers, reported the erection of masts near their land having a detrimental affect on their lives and that of their livestock.

John Gormley TD told the speakers they were the forgotten victims of a lucrative business.

Senator Fergal Browne contacted Beaumont Hospital to research any links between brain tumours, particularly in young people, and radiation.

He said: "A big difficulty is that we have no significant evidence proving that masts are bad for you."