

**WHAT HAPPENS WHEN EMF MEETS THE HUMAN NERVOUS SYSTEM?**

**CELLULAR LEVEL**

*Ion-gated membrane channels are modulated.  
Genetic material in nucleus may be damaged.  
Genetic material in mitochondria may be damaged.  
Cytoplasmic structures may be damaged.  
Repair functions may be altered.*

**DEVELOPMENTAL**

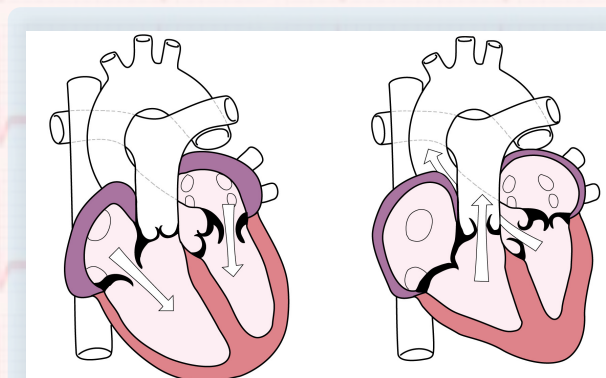
*Neurodevelopment may be altered.*

**DYSFUNCTION**

*Signaling is modulated.  
EEG parameters shift.  
Learning is affected.  
Memory function is affected.  
Behavioral function is affected.  
Visceral function is altered.*

**PATHOLOGY**

*Seizures may occur.  
Sensorimotor function may be disturbed.  
Myelin and membranes may be damaged.  
Tumors and blood disorders may develop.  
Neuroinflammation and degeneration may occur.  
Neurovegetative parameters may shift.  
Interaction with toxic substances increases injury.*



**THE PULSE, THE ELECTRONIC AGE, AND RADIATION**

**PACEMAKER DATA USED IN COURT CASE**

**SCHOOL WI-FI, HEART AND OTHER SYMPTOMS**

**HOW SMART METERS AFFECT YOUR BODY**



**DR. STEPHEN SINATRA SPEAKS:**

[YouTube: Grounding, Heart Health](#)

★ [Cordless phones and the heart](#)

**DR. MAGDA HAVAS SPEAKS:**

[Evidence of Harm](#)

[DECT phones and the heart](#)

[EMF affects, blood, heart, ANS](#)

[Live blood analysis and Electrosnog](#)

[2012 confirmation that EMF affects heart](#)

★ **CHARGE PHONE WITH HEARTBEAT? OR CHARGE PACEMAKER WIRELESSLY?**

**NEUROLOGIC EFFECTS OF EMF**



**RELATED MAPS:**

- [Melatonin](#)
- [The Blood](#)
- [Nonlinearity](#)
- [Mitochondria](#)
- [Calcium Efflux](#)
- [Effects on Body Water](#)
- [Electrohypersensitivity](#)
- [Membranes, Oscillations](#)

*"[The] Heart is one of the most sensitive organs to microwaves." LIU Yan Qing*

*"The most commonly reported objective physiological changes [from microwave exposure]... are neural, cardiovascular, blood compositions, and endocrine functions." Janet Healer*

**Home: [Oscillatorium](#)  
Newest version [this map](#)  
Date of this update: 06-23-17**

**PARTS OF NERVES, NERVOUS SYSTEM VULNERABLE TO THERMAL AND NON-THERMAL EFFECTS OF EMF EXPOSURE**

- Oscillatory behavior: EEG**
- Membrane integrity**
- Genetic material**
- Proteins within cells, organelles**
- Neurotransmitters**
- Ion-gated channel receptors**
- Calcium channel behavior**
- Mitochondria and energy**

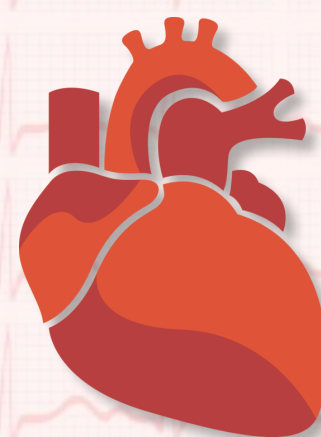
**MOST DISCUSSED EMF RELATIONSHIPS:**

**MULTIPLE SCLEROSIS -- DIRTY ELECTRICITY**  
**A. LATERAL SCLEROSIS -- POWER FREQUENCY FIELDS**  
**AUTONOMIC -- RADIOFREQUENCY/MICROWAVE**  
**ELECTROHYPERSENSITIVITY -- FIELD TRANSITIONS**

- [ELF, EKG changes](#)
- [HRV study replicated](#)
- [Your phone, your heart](#)
- [Letter from cardiologist](#)
- [Phone, HRV, newborns](#)
- [EMF, circulatory changes](#)
- [RF, higher blood pressure](#)
- [RF affects heart, blood, ANS](#)
- [Cellphone and blood pressure](#)
- [Children, screen time, high BP](#)
- [RF/MW affects guinea pig EKG](#)
- [ELF and cardiovascular disease](#)
- [EMF, severe vascular calcification](#)
- [EM Interference, medical devices](#)
- [EMF and heart, systematic review](#)
- ★ [Vagal nerve stimulation, TETRA](#)
- [WiFi: Defibrillators in high school?](#)
- [MF, cardiac autonomic control effects](#)
- [Prenatal rat RF/MW, pup heart changes](#)
- [Wi-Fi, cardiovascular parameters, rabbits](#)
- [MF-induced EF, MRI, cardiac pathologies](#)
- [MW, structural changes to S-A node, rats](#)
- [Woman dies, airport scanner, pacemaker](#)
- [Archives on Cardiovascular Effects of EMF](#)
- [Can cordless phone use affect your heart?](#)
- [Model, cardiac mast cell degranulation, EMF](#)
- [EMF, cardiovascular effects, blood pressure](#)
- [Heart rate variability and mobile phone calls](#)
- [CV devices, interference, endodontist wireless](#)
- [Are patients with devices protected from EMF?](#)
- [ELF, cardiovascular system changes in workers](#)
- ★ [Mm waves, core heating, circulatory collapse](#)
- [EMF, ectopic vascular calcification, animal model](#)
- [Dirty electricity, chronic stress, neurotransmitters](#)
- ★ [YouTube: parent testifies, wireless, child's heart](#)
- [Heart rate and blood pressure rhythms altered by RF](#)
- ★ [YouTube: Proof Smart Meters affect Human Heart](#)

**Cardiovascular System**

*Inactivity rather than EMF is blamed.*



**Overviews**

[Microwaves affect the heart](#)

[Neurophys effects of ELF, electric fields](#)

[Neuro-endocrine stress syndrome, EMF](#)

[Hypothesis on NeuroSomatic Disorders](#)

[Microwaves and effect on nervous system](#)

[Neil Cherry: Cardiac effects of natural, unnatural EMR](#)

[Sensory transduction as model for biological detection of EMF](#)

**Electrohypersensitivity**

[Physician as patient](#)

[ElectromagneticMan](#)

[EHS as a novel neurological syndrome](#)

[Hypersensitivity as a nervous system response](#)

**ANS Other Links**

[Acetylcholinesterase target of RF](#)

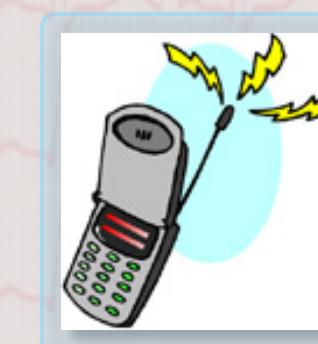
[ELF, neurovegetative disturbances](#)

[Dr. Havas upload, 1969 report, EMF effects](#)

**EMF AND ANS: THE HEART AND CARDIOVASCULAR EFFECTS**

**EMF/DEVICE INTERFERENCE**

- ★ [Hackable Pacemaker](#)
- ★ [Pacemakers and mobile phones](#)
- ★ [Medical devices, metal detectors](#)
- ★ [Easy to hack hospital equipment](#)



[EMF and Implanted Medical Devices](#)

[EMF and Devices and Programmers](#)

[Smart Phones: Risk to Heart Devices](#)

★ [Interference on Devices by 2G, 3G, 4G](#)

[Microwaves, function of implanted devices.](#)

[Video: Interference and Implanted Devices](#)

★ [SmartPhone Interference inside Hospitals](#)

[Headphones interfere with Cardiac Implants](#)

[iPad Magnets Interfere with Medical Devices](#)

[Devices Interfere, Pacemakers and Defibrillators](#)

★ [Electronic Silent Spring: Medical Implants, EMF](#)

[Patient Monitoring, Wireless Devices, same frequencies](#)