

## WIRELESS EMF FACT SHEET

All technological devices that generate electrical charges emit electromagnetic fields (EMFs). Decades ago, most people only owned receivers (radios). Today they carry and operate powerful transmitters. The Wireless Age has dawned, with portable devices transmitting current at frequencies up to billions of cycles per second (Hz). Consumers worldwide are “going mobile” with little knowledge of the effects of microwave radiation on human health. Here are 10 facts you should know:

1. The telecommunications industry has made trillions from its worldwide services and technologies. Since the U.S. Telecommunications Act was passed in 1996, the industry has flourished from deregulation and protective legislation at the expense of public health.
2. Ionizing or thermal radiation (e.g. nuclear, X-ray) is known to harm living tissues. A decade of international research now confirms that similar damage is caused by non-ionizing non-thermal radio-frequency (RF/MW) radiation, emitted by every wireless device.
3. The FDA, FCC and American Cancer Society claim that RF/MW radiation poses no health risks, a conclusion based on studies funded by the telecom industry itself. But independent studies show that even low power-density signals issuing from transmitters held against the body are genotoxic, causing damage to our reproductive organs and DNA.
4. Cell phone frequencies range from 850 MHz (megahertz/million Hz) to 1.2 GHz (gigahertz/billion Hz) for Smartphones, and up to 5.8 GHz for cordless phones. Compare this to the extremely low frequencies of Earth and nature, which peak at only 8 to 32 Hz.
5. Children and teenagers, whose bodies are still developing, are the fastest-growing segment of the wireless market. RF/MW radiation is linked to irreversible degeneration of nervous system neurons. Brain cancer is now the leading cause of cancer death in children under 14.
6. Tissue damage from EMFs is cumulative. Years of exposure to microwaves may cause birth defects and sterility, and can also lead to hearing loss and damage to tissues of the eye, agglutination or clumping of the red blood cells, and loss of brain function.
7. The thyroid, pineal and pituitary glands (located in the neck and brain) produce endocrine hormones that regulate our metabolism. The critical functions of these glands are impaired by chronic irradiation from cell-phone use.
8. RF/MWs now flow from millions of tower transmitters, utility Smart Meters, Internet Wi-Fi and WiMAX, GWEN (ground-wave emergency networks) and RFID (radio-frequency identification) systems. Wireless service providers offer financial incentives to property owners who place antennas on top of their buildings.
9. The farther a person is from the source of an EMF and the less time spent in it, the weaker its effect. Studies of people who live or work close to microwave antennas (e.g. cell towers) reveal symptoms of chronic fatigue, neurological impairment, insomnia, hormone imbalance, psychological problems and high cancer rates.
10. Electro-hypersensitivity (EHS) is an allergic auto-immune condition that is now appearing all over the world. Its symptoms can be so disabling that victims must isolate themselves from even the weakest electromagnetic fields.