

ELECTROPOLLUTION AND THE DECLINE IN HEALTH OF A NATION

The biggest health threat to the US is electropollution. The explosion of iPhones, Blackberries, WiFi, WiMax, video game consoles and even remote-control toys has fundamentally changed our electrical environment. You can't see it, you can't taste it, you can't touch it; but the air all around us is increasingly filled with electromagnetic radiation (EMR) that is penetrating our bodies and disrupting our body chemistry - perhaps forever.

Every moment of every day, invisible fields of electrons are striking our bodies like tiny darts, triggering dozens of bio-chemical reactions, which undermine our health and stealthily lay the groundwork for disease.

How does this happen? As Nobel-prize nominee, Dr. Robert Becker described in "The Body Electric," our brains; our hearts and every one of the seven trillion cells in our bodies operate on electrical impulses. These minuscule electrical fields can easily be disrupted by the electropollution around us, especially when frequency *wavelength* is in the brainwave region (0-33 hertz), or matches up with and resonates with electrically-charged particles like ions and chemicals or organs of the body. Becker also found that healing only takes place if the current at the point of injury is negatively charged. When it turns positive, the healing process shuts down. So, even our ability to heal is fundamentally dependent upon electrical fields and thus subject to interference from ambient EMR. In the 1960s NASA found that astronauts would lose up to 50% of their bone mass in just weeks without the presence of the earth's *natural* electromagnetic field. Later an artificial version of the earth's electromagnetic field was added to the spacecraft, which reduced the problem.

Human life could not exist without the presence of *natural* electromagnetic fields. But what about the explosion of *artificial* magnetic fields around us, how are these burgeoning signals affecting us? Since the early 1960s, there has been an ongoing debate between scientists, government, industry and the military as to the health impacts on humans from electromagnetic radiation. In fact more than 16,000 studies have tackled the issue. Now, more than 6000 studies connect wireless and other EMR with more than 122 biological effects. Another 10,000 fail to find the connection. US regulators and policy-makers are using these numbers as a rationale to continue to approve the deployment of *unproven* technologies. They typically claim that there is no consensus in the science. Despite the science showing a better than 1 in 3 chance (38%) that wireless technologies are causing bio-effects, these regulators and policy-makers are betting that these 'untested' technologies won't make us sick. But how do they know?

The US government is neither tracking the health effects of these newly adopted technologies nor has it funded a single non-classified study on the biological effects of wireless technologies since the late 1990's. During that time twelve new ubiquitous technologies have been rolled-out, including public WiFi, 3rd generation (3G) cell phones, 3G Cellular networks, Bluetooth, WiMax, DECT cordless phones, 4G cell phones and broad deployments of GPS in cars, phones and devices. Meanwhile the fourteen international scientists, who produced the BioInitiative Report (www.bioinitiative.org) document more than two thousand, mostly independent studies, which connect wireless and other EMR with the following: DNA damage, brain cancer, Alzheimer's, breast cancer, children's cancers (leukemia), immune system dysfunction, cardiac symptoms, alteration of melatonin production, inflammation and electromagnetic sensitivity. The 630 page report also links numerous modern age symptoms such as headaches, sleep disturbances, concentration issues, fuzzy thinking, joint and muscle pain and memory loss to wireless.

As science is often crippled by abstract experiments with unproven simplifying assumptions, a better way to judge and validate scientific findings may be to look at the key health trends:

Beginning in the 1980's at the advent of the 'wireless revolution' a profound change in our national health began to quietly unfold. It began with the emergence of a bevy of previously-unknown auto-immune diseases like chronic fatigue (CFS), lupus, environmental illness (EI) and fibromyalgia. Soon an explosion in neurological disorders began with Lou Gehrig's disease (ALS), Multiple Sclerosis (MS), Parkinson's and Alzheimer's all showing a dramatic increase. Next, the incidence of certain cancers began to suddenly rise such as melanoma, testicular, lymphoma, breast and prostate cancers. Then, in the 1990s, ailments like diabetes, attention deficit disorder (ADD/ ADHD) and Autism began to explode.

In the past fifteen years sleep disturbances and mood disorders have sky-rocketed. In the 1970s only about 4% suffered from sleep issues. It is now closer to 60%. Meanwhile more than 18 million Americans are clinically diagnosed as depressed. Depression in children is growing at 23%. It should be no surprise that the top selling pharmaceutical drugs are for pain, depression, and sleep.

What has happened to our health?

It might surprise you to know that the 1950s, when there were few health clubs; the American diet was loaded with fat; vitamin supplements were rare; executives downed three martinis at lunch and everyone smoked like a smokestack, may have been the healthiest decade ever. Expectations for getting cancer were only 1 in 6; it is now 1 in 2 for men. Alzheimer's, Multiple Sclerosis and most modern autoimmune diseases were unheard of. Neurological disorders like Parkinson's and ALS were rare. Diabetes was only beginning to emerge and heart disease for young people was unusual.

In the previous three decades, we had extended the average life expectancy from 55 to 72 years - a 31% gain. Well here's the good news: we now live to 80 - 8 more years. But more than half of that eight year gain is spent in a nursing home, suffering from either dementia, or Alzheimer's.

What has happened to our health?

Despite the many advances in medicine during the 20th century, the US and other industrialized nations have been experiencing explosions in disease and pervasive ill-health. While many scientists and the pharmaceutical industry are rushing to find drugs to manage the symptoms of these illnesses, almost no progress has been made to find *root causes*. Theories abound on the causes and underlying factors for the big six diseases: cancer, heart disease, diabetes, neurological disorders (Alzheimer's et al), autoimmune disorders and allergies (asthma). But none are conclusive.

We've gotten really good at managing symptoms the past two decades but no one can explain the spontaneous explosion of the six major disease groups with no obvious connection that began in the 1980's. Almost everyone agrees that these diseases are closely associated with environmental, and/or lifestyle choices. We hear incessantly about the importance of diet and exercise; the impacts from smoking; and exposures to chemicals and other toxins in our environment. But are these the lead causes, or simply supporting actors in the emerging health drama?

Millions are spent each year on research, attacking the possible causation of the big six diseases. Most of this research is approached from either a purely biological or chemical angle. Sometimes there is an interdisciplinary approach, involving experts in biology and chemistry. Yet the human organism is clearly much more than simply the sum of body parts, operating in a bio-chemical paradigm. The missing factor is the role of electrical energy and the tiny electromagnetic fields that are triggering our heart, our brain, our endocrine system and constantly transmitting messages to every cell in our body. As few scientists are trained across biology, chemistry and electricity, we are left in the dark as to the interrelationship of all three key factors. More importantly we are blinded by continuing to ignore the pivotal role of electrical disturbances transmitted from our environment that is setting off a chain of bio-chemical events that are leading to an epidemic of disease.

Is electropollution the *unifying factor* in the exploding diseases that are making us all so sick?

New Evidence

In the past several months, there have been two potentially landmark events that shed new light on the science, linking EMR from wireless technologies to broad health impacts, dozens of biological effects and virtually all of the currently exploding diseases.

In July 2010, a previously unrecognized collection of nearly 5000 studies linking low-level wireless signals to bioeffects was discovered by noted scientist, Magda Havas, PhD of Trent University in Ontario, Canada. More than 2300 of these studies, concerned with radio-frequency and microwave radiation, were compiled by Dr. Zorach Glaser, PhD, an officer in the US Navy at the request of the Naval Medical Research Institute. Many of these studies were previously classified and others originated in Eastern Block nations such as the USSR, Poland and Czechoslovakia and have only recently been translated. Here is a sampling from Dr. Glaser's report on the [122 biological phenomena \(effects\) and clinical manifestations attributed to microwave and radio-frequency radiation](#):

This treasure trove of "lost" science that was compiled at the request of the US Navy opens the door for a real renaissance in research for scientists, who are examining the link between wireless technologies and impacts to our health. But will it be enough to awaken the US government to this call to action?

Meanwhile in a spectacular announcement that got very little coverage in August 2010, noted epidemiologist, Samuel Milham, MD makes the link between the growth of electrification and the incidence of four of the big six diseases. In "[Dirty Electricity: Electrification and the Diseases of Civilization](#)." Dr. Milham connects *dirty electricity* with heart disease, cancer, diabetes, neurological disorders like ALS and suicide.

Dirty electricity refers to unusable electrical energy, which is caused by the interference of electronics on the power lines within your home, office or public building. It is virtually everywhere. Dirty electricity is created by fluorescent lights, dimmer switches, cell phone chargers, plasma TVs, laptop computers and the dramatic increase of electronics all around us. Seven studies have shown that what is considered *electrical noise* on power lines is also biologically-active. (Havas, Milham, Morgan et al). These studies, many of which were performed in schools, shows that this electrical noise may be causing, or worsening health conditions such as Attention Deficit Disorder (ADD), chronic fatigue, diabetes (glucose rise) and asthma.

Especially four of the diseases most associated with *inflammation* - cancer, heart disease, diabetes and neurological disorders are directly linked to dirty electricity. Both Dr. Zorach Glaser's bibliography and the BioInitiative Report (www.bioinitiative.org) separately connect electrical fields from wireless technologies with inflammation.

If the inflammation connection can be confirmed, then we may have solved the most important health issue of our time. If wireless technologies cause inflammation and inflammation leads to:

- cancer
- heart disease
- autoimmune disease
- diabetes
- Neurological disorders like Alzheimer's, Parkinson's, ALS and MS
- Attention Deficit Disorder

as TIME Magazine proposes in "The Fires Within," then the mystery of these diseases, which have been exploding since the advent of the wireless revolution in the 1980's may be finally solved!

Meanwhile a nationwide roll-out of the smart grid, super WiFi and 4G cellular networks is about to begin. With these three powerful and 'untested' wireless technologies poised to be deployed, the time has never been better to pause and ask the question:

Are we willing to take the bet that these wireless technologies won't make us sick?

And what will we tell our children, if we are wrong?