

SAFETY OF CELL PHONE TOWERS AND 5G TECHNOLOGY



ABOUT CELL PHONE TOWERS AND 5G TECHNOLOGY

Cell Phones, cell phone towers, and antennas use **radiofrequency electromagnetic fields (EMF)** to send and receive information.

The radiofrequency EMF given off by cell phone towers and antennas are a type of **non-ionizing radiation**. It is similar to the type of energy used in AM/FM radio and TV broadcast signals.

5G is the term used to describe the 5th generation of wireless communication technology that will be used by newer mobile devices and antenna installations. 5G can use:

- > frequencies used by current mobile devices, for example 3G and 4G
- > frequencies above 6 GHz

HEALTH EFFECTS OF RADIOFREQUENCY EMF

Thousands of scientific studies have evaluated the safety of radiofrequency EMF. Evidence from these studies establishes only 2 adverse health effects that can occur **at levels above the Canadian limits**:

- > tissue heating, such as the warming of your skin
- > nerve stimulation, which can cause a tingling sensation in your skin

The occurrence of these health effects depends on **a combination of**:

- > the intensity of radiofrequency EMF exposure
- > how long you are exposed to radio-frequency EMF
- > the distance of your body from the source of radiofrequency EMF

The Canadian radiofrequency safety requirement provides protection against all established health effects.

Health Canada continues to monitor all domestic and international scientific evidence on radio-frequency EMF and health. If new scientific evidence were to show that exposure to radio-frequency EMF at levels below the Canadian limits is a health concern, we would take action to protect your health and safety.

Cell towers, antennas and 5G devices have on-going compliance obligations and need to meet the Canadian radiofrequency exposure requirements before they can be sold in Canada.

Visit Canada.ca and search **5G Technology** for more info.

