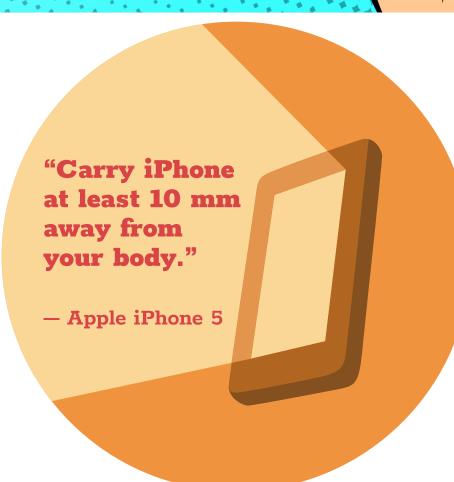
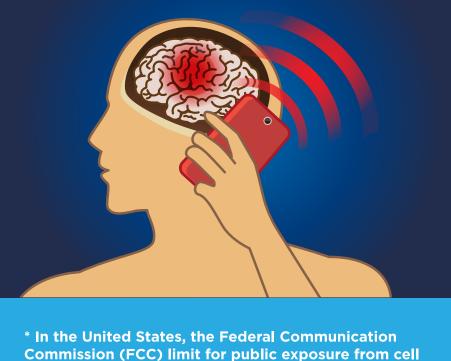
Cell Phone Radiation





Cell Phones are tested at a distance from the body. When phones come on the market

SAR tests use a distance between the phone and body. Phones are not tested in body contact positions. All phones instruct us to keep a distance.



kilogram (1.6 W/kg), averaged over 1 gram of tissue and an extremities level of 4.0 W/kg averaged over 10 grams. The EU SAR limits always average over 10 grams of tissue.

phones is a body/torso SAR level of 1.6 watts per

SAR is a measure of the rate at which

Specific Absorption Rate (SAR)

microwave radio frequency radiation (RFR) from wireless devices is absorbed by head and body tissue when held near the body. SAR values use units of watts per kilogram. **SAR LIMITS***

UNITED STATES: 1.6 W/kg: for head, torso arms and legs

4.0 W/kg: for ears, wrist, hands, ankles, feet

EUROPEAN UNION: 2.0 W/kg: for head and trunk

The French National Test Agency (ANFR)

gout phones tested by

France in 2015 exceeded European limits (SAR = 2.0)W/kg) when tested next to the body.

Apple iPhone 5 SAR Measurements (ANFR) manufacturers recommended .825 SAR

from body (at 10 mm, 5 mm and 0 mm).

tested radiation emissions of over 442

cell phones at three different distances

distance (10 mm)

French National Test Agency 1.453 SAR (5 mm from the body) * European Union public exposure limit

2.0 SAR

(0 mm)

body contact position

ANFR Cell Phone Tests #Phonegate

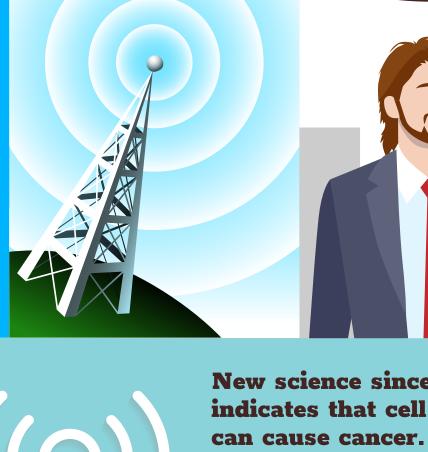
5.321 SAR

vs. Far Field Radiation **Near Field** refers to exposures from devices held close to the

Near Field Radiation

body. Far Field refers to exposures from antennas at a distance

from the body.



Near Field

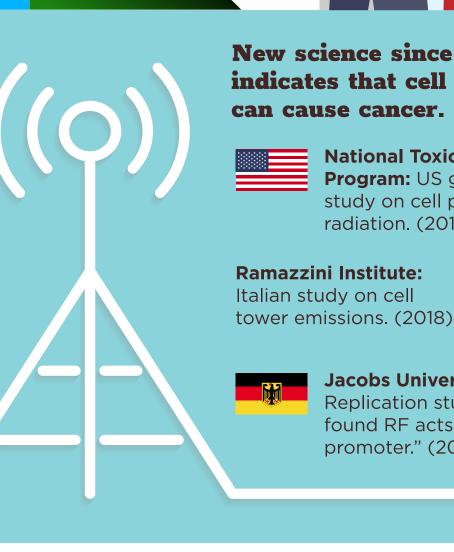


Organization classified cell phone radiation as "possibly carcinogenic to

Cancer Risk

In 2011 the World Health

humans," in the same category as lead, engine exhaust and chloroform.



study on cell phone radiation. (2016, 2018) Ramazzini Institute:

National Toxicology

Program: US government

Jacobs University:

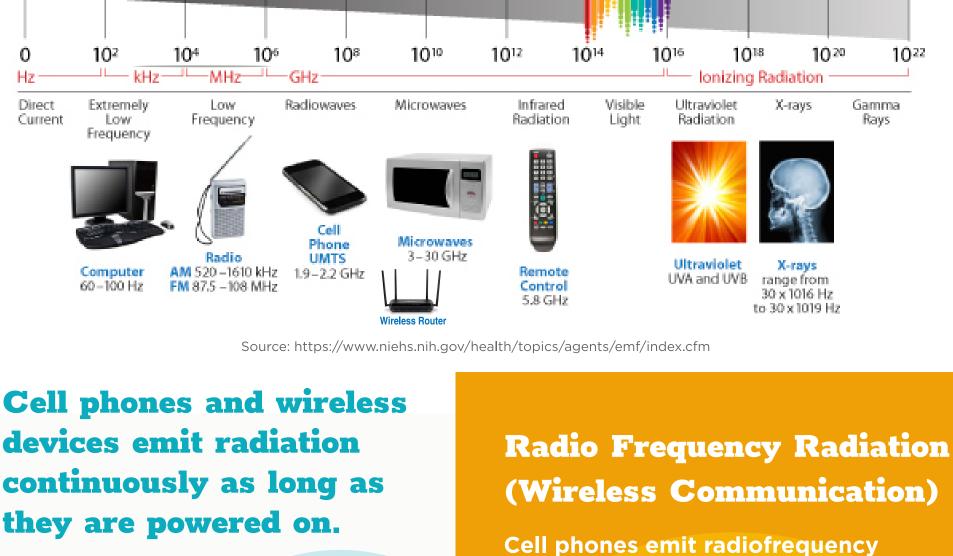


radiation (RFR) covering 30 kHz to 300 GHz. Frequency (Hz)

Electromagnetic Spectrum

Cell Phone Radiation and the

Radiation from cell phones and Wi-Fi devices is microwave radiofrequency



radiation when communicating with cell towers. Other devices that expose

•••

people to the same types of radiation include computers, tablets, baby monitors, virtual assistants, routers, gaming consoles, cordless phones and any other wireless transmitting device that uses Wi-Fi or Bluetooth technology.

What Can I Do to Protect Myself?

- Limit time on cell phones
- Use speakerphone or an airtube headset
- Don't carry your cell phone in your pocket or bra • Don't sleep with your phone Prefer texting instead of calling
- Swap out your cordless phone for a corded phone Swap out Wi-Fi / wireless accessories for wired

• Educate your elected officials and your community

