Are Mobile Phones Dangerous to Your Health?

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Inverse Square Law Really Matters
Worst to Best Case...

could be some risk, WHO

no increase in risk, WHO

no scientific evidence phones cause health problems, CDC

as used by people, ambiguous, unproven effects, FCC

inconclusive link between RF and cancer, FCC

no scientific evidence mobile phones cause cancer, headaches, dizziness or memory loss, FCC

Studies on rats not applicable to humans, NIH

No association between phones, health effects, FDA
At Your Head Really is the Issue

[Bar chart showing the strength of various microwave technologies (in V/m).]

- Wi-Fi router at 5 m
- DECT cordless phone base unit at 3 m
- Bluetooth device at 50 cm
- Digital baby monitor 1 m from baby
- DECT cordless phone base unit at 0.5 m
- Cell phone mast at 150 m
- Wi-Fi router at 0.5 m
- Wi-Fi laptop on lap
- Microwave oven at 1 m
- DECT cordless phone held next to head
- Cell phone held next to head

Source: PowerWatch
No Phone can be Sold in U.S. With SAR above 1.6

Specific Absorption Rate is the metric (up to .50 W/kg per gram of tissue is considered safe; 1.6 is max, usually on call initiation)

The power emitted by a cell phone varies over the course of the call (higher when making initial contact, which lasts a few seconds). It can go up to 2 Watts at the start of a call, and can go down to .02 Watts during optimal operation.

“RF energy to which the public are exposed from base stations is typically less than one thousandth the strength of that from holding a handset to the ear.”

Prudent risk is the issue:
phones
red meat
cars
exercise
flying
sunlight