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Using Cell Phone Not Causing Brain Cancer

By Ray Schilling | Cancer, Health, Prevention

Of all the common brain tumors in adults, gliomas are the most common cancers. The prognosis for patients who are diagnosed with this type of brain cancer is extremely poor. Researchers are still attempting to pinpoint the reasons why these tumors are starting to grow, as they have a very distinct formation of cells and seem to be different from other brain tumors. In the recent past, a lot of attention has been focused on the aspect of mobile telephones and a possible risk of gliomas and other brain tumors associated with their use. The energy of the radio frequency fields emitted by cell phones is thought to be insufficient to cause DNA damage to brain cells that lead to the formation of cancer cells.

Epidemiologists have done studies on users of mobile telephones and have not generally reported an increased brain cancer risk in overall or long-term use. Individual studies have found positive associations between high-grade astrocytoma (glioma) and phone use, brain tumor and phone use in rural areas and use of analogue mobile phones.

A large population based case-control study of 966 patients with glioma in the United Kingdom was designed to investigate cell phone use and the risk of brain tumors. It was part of the Interphone project, which is an international collaboration of 13 countries that concerns itself with the risks of cell phone use and tumors. The south east of England as well as four areas to the north and southern Scotland was the area studied with a total catchment, which amounts to 48.3% if the UK population of 28.4 million. Cases with intercranial tumors were ascertained from various sources, hospital departments (neurology and others) as well as cancer registries. The study was introduced as one to examine risks factors for brain cancers without stressing cell phone use. During the interview those who were mobile phone users were asked detailed questions on cell phone use, which included the recording of all makes and models of phone. Regular phone use was defined as a period of at least six months in the time frame of more than a year before the patient had been diagnosed with glioma.



Using Cell Phone Not Causing Brain Cancer

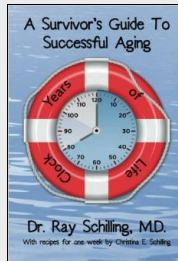
When all the data had been evaluated, there was no association of risk with lifetime years of use, cumulative use or cumulative hours. There was also no association with cell phone use in urban or rural areas and high or low-grade gliomas. The use of analogue phones was also scrutinized and there were no significant odds ratios with any exposure.

This study has nearly twice as many cases as the previously largest study on glioma patients and the use of mobile phones. In addition it has a large

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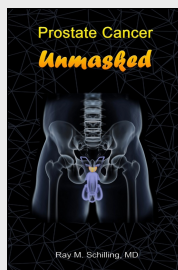
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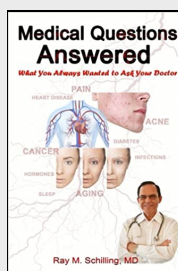
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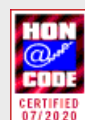
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amount of comprehensive and relevant collection data. The results are also consistent with findings from investigations of mobile phone use in the US, Denmark and Sweden. Overall there are no substantially raised risks of of glioma in the 10 years after first mobile phone use. Only future studies will be able to address longer latency periods.

More information on brain cancer: <http://nethealthbook.com/cancer-overview/brain-cancer/>

Reference: Brit. Med. Journal (doi: 10.1136/bmj.38720.687975.55; published January 20, 2006)

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About Ray Schilling

Dr. Ray Schilling born in Tübingen, Germany and Graduated from Eberhard-Karls-University Medical School, Tuebingen in 1971. Once Post-doctoral cancer research position holder at the Ontario Cancer Institute in Toronto, is now a member of the American Academy of Anti-Aging Medicine (A4M).






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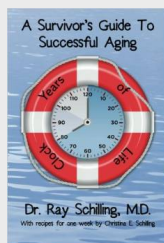
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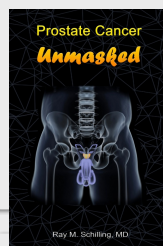
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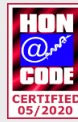
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Does Cell Phone Radiation Really Cause Brain Cancer? It's a common enough worry, but here's what the research says. November 01, 2018. "The exposures used in the studies cannot be compared directly to the exposure that humans experience when using a cell phone," John Bucher, PhD, NTP senior scientist, said in a statement. "In our studies, rats and mice received radio frequency radiation across their whole bodies. By contrast, people are mostly exposed in specific local tissues close to where they hold the phone. In addition, the exposure levels and durations in our studies were greater than what people experience." For now, there's no solid evidence that your phone ups your chances of developing a brain tumor. Short-term mobile phone use does not cause brain cancer, and does not affect brain function. There is no evidence that the symptoms experienced by people who suffer from 'electrical hypersensitivity' are the result of exposure to mobiles or base stations. There is no evidence that mobiles could affect our cells beyond heating them. Has radiofrequency radiation from cell phone use been associated with cancer risk in children? What can cell phone users do to reduce their exposure to radiofrequency radiation? Where can I find more information about radiofrequency radiation from my cell phone? How common is brain cancer? Has the incidence of brain cancer changed over time? Why is there concern that cell phones may cause cancer or other health problems? Radiofrequency exposure from cell phone use does cause heating to the area of the body where a cell phone or other device is held (e.g., the ear and head). However, it is not sufficient to measurably increase body temperature. There are no other clearly established effects on the human body from radiofrequency radiation. She downplayed a causal link between brain cancer and cell phones. Dr. Lennart Hardell suggests that the risk of developing brain cancer is three times higher after 25 years of cell phone use. "I would love it if we found a risk factor for brain tumors like smoking for lung cancer, so we could advise patients and their families," Dr. Barnholtz-Sloan said. "But we haven't found

one yet." Brain cancer is not the only risk that has been associated with prolonged cell phone use. There have been studies linking it with tumors in salivary glands and thyroid glands. There's increasing evidence of a link with neurological disorders and neurodegenerative effects, and it may negatively affect fertility. Do mobile phones cause brain cancer? Fears over the cancer-causing potential of mobiles first arose in the 1990s, when the portable phones became a staple in every household. Statistics revealed a 34 per cent increase in the diagnosis of brain tumours in the 20 years that followed. When asked why brain cancer rates have increased alongside mobile phone use, Professor Sperrin explained medicine has advanced over the years, resulting in more tumours being spotted early on. '[This makes] it look like we've seen more brain cancers,' he said. 'The most consistent health risk associated with cell phone use is distracted driving and vehicle accidents,' it adds.