ELECTRICAL PROPERTIES OF CANCER

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Abstract
Although the relationship between cancer and electric potential has been studied for a long time, there are few published studies regarding this relationship. There is an electric potential difference between cancer and normal tissue, which disappears during chemotherapy. Furthermore, this electric potential difference increases in fast-growing cancers. Conversely, cancer may develop around abnormal electric potential differences in the body. These abnormal charges and electric potentials in the body can be removed by simply hugging a live tree growing in the ground. Alternatively, a tree growing in the ground and a conductive mat may be connected by conductors at several points, and a person may sleep on the conductive mat to dispel these charges. Humans and apes are genetically similar, and as apes live in trees, humans may be less likely to develop cancer if they are potentially balanced with trees growing on the ground.

Keywords: Cancer, Electrical properties, Chemotherapy, Potential difference


INTRODUCTION
Although the relationship between cancer and electric potential has been studied for a long time, there are few published studies regarding this relationship. In 1969, Endo published a method to diagnose cancer invasion using electrical potential measurement [1]. There is a potential difference between a tumor and the surrounding normal tissue, which is considered to lead to cancer diagnosis. In 1975, Woodrough et al. examined the potential difference between basal cell carcinoma of the skin, benign inflammation, and healthy tissues and found that the cancer had a positive potential [2]. In 2008, Marino et al. found that the electric potential of the breast of a person with an erophilic breast mass was significantly positive only if it was cancerous [3]. In 2022, the electrical properties of pancreatic head cancer were published, in which the electric potential of the cancer site was significantly higher than that of the normal tissue, and this electric potential difference disappeared as the cancer disappeared with chemotherapy. In addition, the electric potential difference increased in fast-growing cancers [4].

In Sweden in 1993, a study on the relationship between the electromagnetic field environment at work, brain tumors, and leukemia reported that exposure to low-frequency electromagnetic fields increased the risk of chronic lymphocytic leukemia [5]. In 1996, an investigation of the incidence of cancer among male conductor rail engine drivers in Sweden showed that increased exposure to electromagnetic fields increased the risk of lymphocytic leukemia [6]. From these
studies, it is suggested that environmental potential differences are also related to carcinogenesis.

Herein, the possibility of cancer occurring when abnormal charge has accumulated in the body by wearing electronic devices such as smartphones is considered, along with the possibility of preventing and treating cancer by touching trees growing in the ground with the skin and releasing the abnormal charge outside the body.

**HYPOTHESIS**

Previous studies have noted a potential difference between cancer and surrounding normal tissues [1–4]. In a study on changes in potential in pancreatic head cancer [4], the potential difference between the cancerous and non-cancerous tissue disappeared as the cancer disappeared with chemotherapy. However, it is thought that cancer may occur in places where there is a potential difference. If an abnormal charge is accumulated for one or two years, cancer does not occur, but if abnormal charge accumulates in the body for more than 20 years, cancer may occur. Both positive and negative charges can accumulate in the body. If an abnormal charge stays in one place in the body, a solid tumor may develop around it. As shown in two Swedish studies [5,6], when the potential of the entire body becomes abnormal for a long time owing to the environment, blood- or lymph-based cancer (i.e., leukemia or lymphoma) can occur.

In 2018, Cheng and Fu used breast tissue to study microwave-effective dielectric constants and concluded that breast cancer tissue has significantly higher dielectric constants than normal tissues and benign tumors and that measuring dielectric constants is useful for detecting breast cancer [7]. The fact that cancer has a higher dielectric constant than normal cells means that cancer has a higher ability to absorb electricity than normal cells. If an abnormal charge is accumulated in the body and it is not removed, cancer may occur around it, taking the abnormal charge into itself and protecting our body from abnormal charges. Cancer can therefore maintain a kind of homeostasis to protect the human body from abnormal charges that are stuck in the body. It is thought that the reason why cancer does not often present in the heart is that electricity passes easily through the heart, and charge does not accumulate easily. As the heart must constantly transmit electrical signals, it is thought that cancer is less likely to occur because it is an organ in which charge is constantly dissipated.

To release abnormal charges that have accumulated in the body, it may be beneficial to touch trees growing in the ground directly with your skin. It must be a tree that grows in the ground and is alive. A tree big enough to hug may be better.

Humans have evolved from apes, and our two species are highly genetically similar. Apes live on trees that are always growing in the ground and are considered to be at a potential equilibrium with trees. It is therefore thought that genes are less likely to mutate if human body potentials are also balanced with trees.

**HOW TO TEST IT (PROPOSED STUDY DESIGNS, CLINICAL TRIALS, OBSERVATIONAL RESEARCH)**

Even if a cancer is already growing, a change in potential can cause the cancer to disappear if one hugs a tree growing on the ground for 6 h a day for 90 consecutive days. However, as this would be difficult, a tree growing in the ground and a bed mat made of conductive fibers may be connected in two or more places with a conductor, allowing one to sleep on the bed mat and dispel charges while asleep. The tree and bed mat should be connected by a conductor at several points to ensure that the tree and entire bed mat are always at a potential equilibrium (Fig 1).

**Figure 1.** To eliminate abnormal charges and electric potential in the body, one may hug trees growing in the ground without sandwiching insulators. A tree growing in the ground and a conductive fiber are connected by conductors in numerous places, and a human sleeps on the conductive fiber. If one sleeps for > 6 h in 90 days, the cancer can disappear. The author believes that there are no side effects and that this method can be used in hospice care.
Of course, one must sleep or sit on the bed mat without any insulating clothes or bedcovers. It is important to have a potential equilibrium with a tree that has been growing in the ground for a long time. This is done to ensure that other charges do not enter. This may be used in hospice or similar environments. It is thought that there are no side effects.

Since 2003, I (a 46-year-old man) have always placed my mobile phone and smartphone in the left pocket of my pants. From around 2006, I had a sense of incongruity and tightness in the left lower abdomen, and before going to bed, I began to feel a dull pain in the left lower abdominal region. It was not severe, but the symptoms lasted more than 10 years. I underwent abdominal magnetic resonance imaging in 2018, but no abnormality was noted. In 2018, I stopped carrying a smartphone and hugged or touched trees growing in the ground for a few seconds without insulators, and the symptoms have completely disappeared. While it was not reflected in the magnetic resonance imaging, a cancer of about 0.1 mm in size might have been present while I was symptomatic.

ETHICAL AND CLINICAL IMPLICATIONS
The use of the above devices in a hospice is considered feasible, less expensive and without physical pain. If people in Central Asia stopped wearing smartphones and touched or hugged trees growing on the ground with their bare hands, the incidence of cancer could decrease.

Experimental evidence on the use of tree hugging for treatment and prevention of cancer in patients is currently unavailable. However, considering the body of literature linking cancer and electric potential alterations, it would be useful to design studies involving tree hugging as a treatment for patients with cancer and observe its effects, in order to confirm its utility as a potential cancer treatment strategy.

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References
ЭЛЕКТРИЧЕСКИЕ СВОЙСТВА РАКА

Резюме
Взаимосвязь между раком и электрическим потенциалом изучалась в течение длительного времени, хотя опубликованных исследований, посвященных этой взаимосвязи, немного. На сегодняшний день выявлено, что существует разница электрических потенциалов между раковой и нормальной тканью, которая исчезает во время лечения химиотерапией. Кроме того, разность потенциалов увеличивается при быстрорастущем раке. И наоборот, рак может развиться вокруг аномальных различий потенциалов в организме. Эти аномальные заряды и потенциалы в теле можно снять, просто обняв живое дерево, растущее в земле. В качестве альтернативы, дерево, растущее в земле, и токопроводящий коврик могут быть соединены проводниками в нескольких точках, и человек может спать на нем, чтобы рассеять эти заряды. Люди и обезьяны генетически похожи, и, поскольку обезьяны живут на деревьях, у людей может быть меньше шансов заболеть раком, если они потенциально сбалансированы с деревьями, растущими на земле.

Ключевые слова: рак, электрические свойства, химиотерапия, разность потенциалов.