Sensation of Balance Dysregulation Caused/Aggravated by a Collection of Electromagnetic Waves in a Dental Implant

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Received 17 July 2014; revised 25 August 2014; accepted 17 September 2014

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Abstract

Cell phone and personal computer users have increased considerably in recent years, particularly in more developed countries. These devices have facilitated communication on a global scale. However, there have been a number of reports of abnormalities occurring in the body due to the electromagnetic waves emitted by such electronic devices. The long lists of both general and severe symptoms, including headaches, fatigue, tinnitus, dizziness, memory loss, irregular heartbeat, and whole-body skin symptoms, have been reported that are apparently associated with the condition of electromagnetic hypersensitivity. In dentistry, titanium dental implants may be commonly associated with antenna-like activity, but the underlying mechanism remains unknown. In the current case studies, balance difficulties were found to occur when the patients had titanium dental implants. These implants seemed to be acting as antennae and collecting harmful electromagnetic waves. Further studies are required to confirm this hypothesis.

Keywords

Electromagnetic Hypersensitivity, Titanium Dental Implant, Balance Dysregulation

1. Introduction

The use of electronic devices, such as cell phones or personal computers (PCs), has become increasingly widespread in recent years [1] [2]. Through the development and increased usage of these electronics, quick communication has been enabled on a worldwide scale. However, there are a number of reports of abnormalities occurring in the body caused by the electromagnetic waves emitted by electronic devices, such as cell phones [3]-[10], and it is possible that the incidence of adverse biological effects caused by electromagnetic waves may be in-
creasing. Such physically unpleasant symptoms are called electromagnetic hypersensitivity. There are many general and severe symptoms, such as headaches, fatigue, tinnitus, dizziness, memory loss, irregular heartbeats, and whole-body skin symptoms, which are considered to be caused by electromagnetic hypersensitivity [11]-[15]. In this article, the author described a sense of balance in difficulties that appeared to be caused or promoted by electromagnetic waves collected by dental implants through two case reports.

2. Case Reports

2.1. Case Report 1

Treatment and Results
A 48-year-old woman was suffering from dizziness, unsteadiness, and a sense of fatigue for several years. A titanium dental implant had been placed in her lower alveolar bone (Figure 1). To determine if the patient’s symptoms were being caused by her implant’s collection of electromagnetic waves, several tests were performed. First, the patient was placed immediately in front of a PC screen. At such a close distance, she could not maintain her balance (Figure 2). When the PC screen was covered with aluminum foil to block the electromagnetic

![Figure 1. The titanium implant in the subject’s right lower alveolar bone.](image1)

![Figure 2. The subject became unsteady in front of a computer and could not maintain her balance.](image2)
waves emitted by the screen, the patient was able to regain her balance. Second, the patient was asked to move away from the PC until she was able to maintain her balance. She was able to remain steady when standing about 3 m away from the PC. Third, a second titanium implant, which was of similar manufacture, was placed on the floor immediately in front of her feet. Under this condition, the patient lost her balance again (Figure 3), and reported experiencing dizziness and dyspnea. Finally, when the PC screen was covered with aluminum foil again, she was able to regain her balance, and reported no dizziness or dyspnea. These results seemed to indicate that the patient’s implant was collecting electromagnetic waves, which were adversely affecting her. Consequently, her implant was removed. After the procedure, the first test was repeated. This time, when the patient stood close to the PC screen, she was able to maintain her balance (Figure 4). However, when the removed implant was placed on the table holding the PC, which was immediately in front of her, the symptoms returned. The conditions which suffered her have not recurred for three years or more.

In conclusion, removal of her implant resulted in a marked improvement in her sensitivity to electromagnetic waves. This finding suggests that certain materials in our bodies can collect harmful electromagnetic waves that
can exert adverse effects. These harmful electromagnetic waves are emitted not only by cell phones but also by PC screens. The titanium implant in the present case appeared to interact with electromagnetic waves and adversely affect the patient’s balance even when the implant was not present in or on the patient’s body.

This patient gave consent to having the results of treatment published.

The details of this case can be observed in the following YouTube video. Unsteadiness and dizziness caused by a dental implant.
https://www.youtube.com/watch?v=6IJFZeht84I (last checked 2 May 2014).

2.2. Case Report 2

Subject and Experiment
A woman in her twenties experienced a loss of balance when a cell phone was held at a distance < 50 cm from her body (Figure 5). The patient’s medical history was unknown because she was a volunteer who was selected from an audience during one of the author’s lectures. When a titanium implant was placed on her chest, she leaned backward, although the distance between the subject and the cell phone still exceeded 3 m (Figure 6).

Figure 5. A loss of balance occurred in response to the electromagnetic waves emitted by a cell phone. The subject leaned backward when the distance between the subject and the cell phone became <50 cm.

Figure 6. Placement of a dental implant worsened the subject’s loss of balance. When a titanium implant was placed on the subject’s chest, the subject leaned backward even at a distance > 3 m from the cell phone.
The woman’s unsteadiness appeared to be caused by electromagnetic waves from a cell phone and their interaction with the antenna-like behavior of a dental implant. Electromagnetic wave hypersensitivity onset does not merely result from the presence of harmful electromagnetic waves alone but from the waves combined with the existence of a material(s) that can act as an antenna by collecting harmful electromagnetic waves in or around the body. Dental implants may promote harmful effects of electromagnetic waves.

This patient volunteered to be treated in front of a large audience with the knowledge that the treatment was being videoed.

The details of this case can be observed in the following YouTube video: Unsteadiness apparently caused by electromagnetic waves from a cell phone. [https://www.youtube.com/watch?v=csbaj6mlkQ4](https://www.youtube.com/watch?v=csbaj6mlkQ4) (last checked 2 May 2014).

3. Discussion

Regarding the relationship between brain tumors and radio waves emitted by cell phones, the Interphone Study Group concluded that no increases in the risk of glioma or meningioma associated with cell phone use were observed but that an increased risk of glioma was suggested at the highest usage levels. However, biases and error have prevented a causal interpretation; therefore, the possible effects of long-term heavy cell phone use will require further investigation [16]. In other reports, the published results do not support the hypothesis of an association between the use of cell phones and the development of brain or salivary gland tumors, leukemia, or other cancers [17]-[19]; however, the research described did not sufficiently evaluate the risks among long-term heavy cell phone users over potentially long induction periods [18]. Accordingly, further studies are needed to account for longer induction periods, particularly with respect to slow-growing tumors with neuronal features [19]. As such, the author has published several reports on the relationship between dentistry and electromagnetic waves [20]-[22]. Many articles, however, only emphasize the convenience of these electronic devices without addressing the potentially negative influences of the emitted electromagnetic waves on the body [23]. Metal present within the body can act as an antenna to collect harmful radio waves, thus inducing the aforementioned symptoms. In dentistry, titanium dental implants may be the material most commonly associated with antenna activity. The author previously reported that scoliosis may be caused by dental implants [20], and that electromagnetic waves emitted by cell phones can also affect balance disorders. The underlying mechanism remains unknown, but reduced blood flow within the brain is assumed [4]. This collection of unpleasant symptoms caused by electromagnetic waves is known as electromagnetic wave hypersensitivity. Generally, the electromagnetic wave strength decreases with distance even if near or far fields. In this experiment, the distance 3 m is situated in the Fraunhoffer (far field) region, because the radio wave length of cell phones (1 - 2 GHz) is 0.15 - 0.3 m. The distance between cell phones and which border of near field is calculated with $\frac{\lambda}{(2\pi)}$. Therefore, the distance from cellphones to the border of near field is about 2.5 cm to 5.0 cm from cell phones. Hence, 3 m is in the far field range, whereas the radio wave length from the PC screen (50 - 60 Hz) is 6000 km - 5000 km. Therefore, the distance from PC screen to the border of near field is about 830 km to 1000 km. Hence, 3 m is in the region of Rayleigh (near field). However, the difference of effects among regions on the human bodies has not been clarified yet. Therefore, further research is required.

The author’s research has shown that removal of metals which collect harmful electromagnetic waves from patients and maintaining sufficient distance from cell phones can reduce some of the harmful effects of electromagnetic waves and may permit short-duration, lower-risk usage of beneficial cell phone functions. The effects of electromagnetic waves on the body are not yet clear. As the author already suggested [20], the titanium implant collects the harmful electromagnetic radiation easier than pure gold. However, in terms of the SAR (Specific Absorption Rate) of the dental materials has hardly been explored yet. Regarding this point, the author results the cooperation between medical field and physical field is necessary. The underlying mechanism has been partially elucidated by the Bi-Digital O-Ring Test [24]. Because this test indicated deleterious effects of radio waves on the body [25] [26], it may be a useful diagnostic tool for helping to prevent harmful electromagnetic waves. One potential problem with these results is that the patient’s knowledge of how close they were to the electromagnetic wave sources was not controlled. This could have led to some psychological influences. In future studies, blindfolding the patients could be used to eliminate this problem. According to the report of Hagström M. et al., the most common perceived EHS (Electromagnetic Hypersensitivity) triggering sources are personal computers and mobile phones. Additionally, the best way to reduce EHS symptoms was to avoid elec-
magnetic fields [27]. The removal of dental material which collects harmful electromagnetic radiation is not well known. Hence, the contents introduced in this paper must be effective approach to treat EHS symptoms.

4. Conclusion

There have been many reports of individuals suffering from electromagnetic wave hypersensitivity. The current findings suggest that in addition to previously reported symptoms, including headaches, fatigue, tinnitus, dizziness, memory loss, irregular heartbeat, and whole-body skin symptoms, a sense of balance dysregulation or dyspnea is a symptom of electromagnetic wave hypersensitivity. Avoiding harmful electromagnetic waves is considered to reduce these physical symptoms and concomitantly improve physical abilities. Dental materials may act as antennae, and as such, may collect radio waves. Therefore, dental procedures should be performed with an awareness of this characteristic because some dental materials may cause or exacerbate adverse symptoms. Electromagnetic wave hypersensitivity could possibly be caused by dental procedures; therefore, dental treatment should be performed in a manner that avoids the harmful influences of radio waves on patients.

References


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