

# Dental Treatment with a Gold Alloy Cast Crown for Severe Lumbago

Yoshiro Fujii

Shin Kobe Dental Clinic, Kobe, Japan

Email: shin-kobe-dentalclinic@s9.dion.ne.jp

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## Abstract

The patient was a 41-year-old woman experiencing severe lumbago for several years. The physician-in-charge referred her for dental treatment because examination did not reveal any specific abnormality in her lower back. Prior to the treatment, the patient could barely bend forward and backward because of serious back pain. Her body flexibility and lower back pain improved when a gold alloy cast crown was placed near her feet. However, when the crown was covered with aluminum foil, it was again very difficult for her to bend her body forward and backward. These results suggested that her body reacted positively because good electromagnetic waves emitted by the crown were absorbed by the body. The alloy used to make the crown was chosen using the Bi-Digital O-Ring Test. Moreover, the shape, contact strength, and occlusion (biting condition) of the crown were also determined by the Bi-Digital O-Ring Test. After the crown was placed on her upper right first molar, her lumbago completely disappeared and did not recur for >5 years of follow-up. The effectiveness of electromagnetic waves on the condition of the body, as in this case, has not often been acknowledged in modern medicine, and the underlying mechanism remains unclear; therefore, further research is required.

## Keywords

Electromagnetic Waves, Metal Crown, Bi-Digital O-Ring Test, Lumbago (Lower Back Pain)

## 1. Introduction

There is a close relationship between the dental and whole-body conditions. Studies have shown that oral conditions, especially occlusion, are closely associated with other parts of the body, for example, body posture, temporomandibular disorder, and cervicobrachial issues [1] [2] [3] [4]. The author has also re-

ported on the relationship of occlusion [5] [6] and shape [7] of the tooth with the whole-body condition. Moreover, the author has reported on the relationship between electromagnetic waves and systemic conditions affecting the body [8]-[16] and intractable dermatitis owing to dental metal [17] [18]. Lumbago is a very common condition, but some cases are intractable. This case report demonstrates that dental treatment with a metal crown for intractable lumbago after a variety of nonsurgical treatments, including medical treatment, is not effective.

## 2. Case Report

### 2.1. Patient and Methods

Patient and chief complaint: The patient was a 41-year-old woman. She had been experiencing severe lumbago for several years.

### 2.2. Case History

The patient underwent a variety of nonsurgical orthopedic treatments and massage to treat her lumbago. However, no treatment was found to be effective; therefore, the physician-in-charge referred the patient to the author's dental clinic for dental treatment.

### 2.3. Medication

She was taking pravastatin sodium (product name: Mevalotin) for hyperlipidemia.

### 2.4. Present Status

The patient could barely bend forward and backward at the waist because of sharp pain in her lower back (**Figure 1**). There were no abnormal views which should be reported in anything but hyperlipidemia, and there wasn't also a subjective symptom besides the lumbago.

### 2.5. Treatment

A gold alloy metal crown (87% gold, 10.6% platinum, and 0.4% zinc and iridium) was placed on her upper right first molar (**Figure 2**) and was judged to be effective by the Bi-Digital O-Ring Test [19] [20].

## 3. Results

When the crown was placed on the floor in front of the patient's feet after form correction and occlusal adjustment was complete, she could bend forward and backward very easily, and her lumbago was markedly reduced (**Figure 3**). When the crown was covered with aluminum foil, the symptoms recurred, and it became very difficult for her to bend her body (**Figure 4**). When the aluminum foil was removed, she could easily bend forward and backward again. After the crown was placed in her mouth with glass ionomer cement (**Figure 5**), her lum-

bago completely disappeared. Her flexibility was more improved (**Figure 6**) than that when the crown was placed on the floor in front of her feet (**Figure 3**). The patient's condition was followed for approximately 5 years after the crown had been placed. During this period, her lumbago did not recur, and she did not seek any additional treatment.



**Figure 1.** The patient had been experiencing severe lumbago for several years and could barely bend forward and backward.



**Figure 2.** A gold alloy metal crown was made for her upper right first molar prosthesis (arrow).



**Figure 3.** As soon as the gold alloy metal crown was placed on the floor in front of her feet (arrow), the patient was able to bend forward and backward very easily, and her lumbago was markedly reduced.



**Figure 4.** The patient was unable to bend forward normally after the crown was covered by aluminum foil (arrow).



**Figure 5.** The crown was placed in the patient's mouth (arrow).



**Figure 6.** The patient was able to fully bend forward and backward after placing the crown in her mouth. Her flexibility was better than that when the crown was placed on the floor in front of her feet (**Figure 3**).

To see the actual experiment described in this case, please visit the YouTube video:

“Lumbago improves by simply placing a crown near foot”

<https://www.youtube.com/watch?v=FoTSWuVw24s&list=UUqAoDvLMJAJ-H-HLCF4V8-A>

(last checked: 1 Jan 2019).

#### 4. Discussion

The results of this study show that even if the crown is not placed in the body, it can have a marked effect on joint mobility when it is placed near the body. Simply having the substance near the body can influence a patient's condition. This influence may be due to the electromagnetic waves emitted by the substance. The author has previously suggested that this effect should be termed as indirect effect [21] [22]. Therefore, the outcome of placing the crown may be due to normal or corrected occlusion, contact with the adjacent tooth, and electromagnetic waves (indirect effect). Modern western medicine ignores the indirect effect; however, it can have serious implications for the accuracy of the testing of materials. The results of this study demonstrated that the crown could affect the severity of lumbago when placed in the oral cavity and near the body. It has been hypothesized that electromagnetic waves have played a role in improving the lumbago when the alloy cast crown was placed near the body. Since there was no abnormality in her lower back with medical check like X-ray image and also a variety of nonsurgical orthopedic treatments and massage was ineffective, the author judged that lumbago might be caused by brain malfunction. There are reports that electromagnetic waves influences cerebral bloodstream [23] [24] [25]. The author hypothesize that when the crown approached a body, the subject's cerebral bloodstream was improved by electromagnetic waves emitted by the crown. As a result, her brain function might be improved. However, the real underlining mechanism is still unclear, and further research is warranted. The Bi-Digital O-Ring Test may catch the electromagnetic waves, which these material rise from, and it is thought that this influence on the body can be evaluated. In the field of dentistry, the use of the Bi-Digital O-Ring Test may have an impact on the choice of dental material, crown restoration, form of the dental prosthesis, judgment of the contact strength with the adjacent tooth, and occlusion state. Even if a substance doesn't enter but approaches a body, it will influence on a body. Therefore, we should understand from this case that it's necessary to consider the influence of ornaments, clothes and a cell phone etc. which approaches the body on the body. When the unpleasant symptom disappears when they approach the body like this case, the substance can be recommended to approach a body. However, if the unpleasant symptom occurs, when it approaches the body, it's better to avoid the substance from a body.

#### 5. Conclusion

The patient had been experiencing severe lumbago for several years, and she

could barely bend forward and backward before treatment because of back pain. She showed remarkable improvement when a gold alloy metal crown was placed in front of her feet. When the crown was covered with aluminum foil, it was again very difficult for her to bend her body. It was suggested that her body showed a positive reaction because it absorbed good electromagnetic waves emitted by the crown. The impact of placing a crown included not only recovering normal occlusion and contact with adjacent teeth but also receiving electromagnetic waves emitted by the crown. However, the underlining mechanism is still unclear, and further research is required. The Bi-Digital O-Ring Test may react to the uptake of electromagnetic waves from the crown, and this test may be used to evaluate the influence of substances on the body.

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This patient agreed for her case to be reported.

### Conflicts of Interest

The author declares no conflicts of interest regarding the publication of this paper.

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