

Electromagnetic irradiation may be a new approach to therapy for peri-implantitis.

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Abstract

Peri-implantitis can lead to bone destruction around a dental implant through inflammation and immune reactions caused by bacteria adhering to the surface of the implant abutment. Electromagnetic irradiation can inhibit bacterial growth, increase bone formation, decrease bone resorption and reduce the inflammatory response. Our hypothesis is that electromagnetic irradiation may be a new treatment approach for peri-implantitis and may simultaneously maintain bone mass around the dental implant. The results would be more significant when combined with other agents, because the effect of some antibiotics and anti-inflammatory drugs is strengthened by electromagnetic irradiation. This non-invasive therapy is expected to be conducted in a convenient manner, and even by patients at home, thereby facilitating the prevention and treatment of peri-implantitis.