

THE AIM OF THIS STUDY

The aim of this study is to compare low level laser therapy (LLLT) to chlorhexidine gel (CH) on treatment of gingivitis.

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ABSTRACT

The high level laser therapy (HLLT) treatment in dentistry have been assured as a very successful method, but the low level laser therapy (LLLT) is still limited and under researches.

In this study a compare was done between the low level laser therapy and chlorhexidine gel on treatment of gingivitis.

Forty eight patients were selected to be the cases of this study.

In the left side chlorhexidine gel was applied after scaling and polishing, and this group is called group A.

In the right side low level laser therapy was applied in different doses after scaling and polishing, and this group is called group B.

In group B₁ 5Hz, 0.15 mJ/cm² per 5 minute of low level laser therapy was applied to thirty one patients.

In group B₂ 50Hz, 1.5mJ/cm² per 5 minute of low level laser therapy was applied to twelve patients.

In group B₃ 1000Hz, 30mJ/cm² per 5 minute of low level laser therapy was applied to five patients.

using 5Hz accelerate the treatment of gingivitis faster than using chlohexidine gel.

While using 50Hz is as effective as chlorhexidine on treatment of gingivitis.

But using 1000Hz is a harmful application.

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LIST OF ABBREVIATION

CO₂	Carbon dioxide
Nd:YAG	Neodymium:Yttrium Aluminum Garnet
Er:YAG	Erbium:Yttrium Aluminum Garnet
CW	Continuous wave milliwatt
W	Watt
S	Second
min	Minute
Nm	Nanometer
Hz	Hertz
IR	Infra red
UV	Ultra Violet
h	Constant of Blank
CH	Chlorhexidine
LLLT	Low level laser therapy
HLLT	High level laser therapy