



OUR EXPERIENCE WITH THE Nd: Yag LASER IN THE THERAPY OF THE CHRONIC APICAL LESIONS

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Introduction

The concept of three-dimensional cleaning, disinfecting, and shaping of the root canal system has become the major aim of modern root canal treatment.

Disinfection and sterilization of the intracanal system with laser light is one of the techniques used in conservative endodontic treatment of the acute and chronic periapical lesions. This has become popular through developments in laser technology.



Fig. 1 – Fidelis III

Objective

Our goal was to make clinical and radiographic assessment of the therapeutical effects of the Nd: Yag Laser with the chronic periapical lesions.



Fig. 2 – Micro fiber

endodontic treatment

Study design

In the study, we present cases of single and multi-rooted human teeth with X-ray determined periapical radiolucency. Intracanal sterilization and disinfection was realized in 56 teeth. In the first session the teeth were opened, the canal contents was removed, and drainage was established so that the symptoms are calmed. During the second visit we

We realised endodontic treatment on the damaged tooth and it was succesfull for a period of three months. (Fig. 5, 6, 7)

After that period there was a remision of the symptoms. The operative therapy that followed confirmed a presence of a vertical fracture af tooth 24 after which the tooth was extracted. (Fig. 8, 9, 10, 11)

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Fig. 4 - intraoral status

Fig. 3 - intraoral status

Fig. 5 - extirpation
 Fig. 7 - temporary filling

Fig. 6 - root canal preparation
 Fig. 8 - operative access

Fig. 9 and 10
 extracted tooth 24

Fig. 11 - after radical therapy

Conclusion:

Eighteen months later, the four-legged patient is in great shape and with perfect oral health, even though it's missing one of its canines.