Dr. Kazak graduated from the Istanbul University Faculty of Dentistry in 1987. In 1988 he co-founded the Medicadent Dental Clinic, where he works as administrator and clinical director, as well as practices in specialized fields of dentistry. In 2007 he completed the RWTH Aachen University Master's program "Lasers in Dentistry". He is actively involved in pioneering laser dentistry in Turkey.

Clinical Bulletin

J. LA&HA, Vol. 2014, No. 1; p. B04.

Direct Pulp Capping

Zafer Kazak

Parameters:

Laser source	Er:YAG (2940 nm)
Mode	VLP
Power / Energy	80 mJ
Frequency	4 Hz
Handpiece	H14
Water/Air Spray Setting	none

Treatment procedure:

Pulp exposure is a common event in the daily practice of a dental office. During caries removal or after trauma to teeth, the pulp can be exposed. Direct pulp capping is the placement or formation of a protective layer on exposed pulp tissue. With conventional methods, appropriate materials are used for the preservation of pulp vitality and the formation of a mineralized tissue barrier. On the other hand, lasers are also a successful option if the pulp is exposed and the exposure is small. With the use of lasers the exposed area is disinfected and a necrotic, sterile, non-bleeding pulp is created.

A systemically healthy patient was referred to our clinic with a deep cavity in the first mandibular molar on the patient's left side. With the Er:YAG laser, direct pulp capping was performed, followed by the application of calcium hydroxide. It was very important to use VLP mode for achieving the desired effect on the pulp tissue. A flowable composite was applied on the calcium hydroxide and the teeth were restored with composite resins.

Before procedure

During procedure

During procedure

Three days after procedure