

## **Laser Assisted oral soft tissue management**

### **Background**

Laser therapy has been suggested as a potential tool to improve the outcome of surgical and non surgical oral soft tissue treatment. Different laser wavelengths have various applications in dental treatment.

The key to the success of soft tissue lasers is their ability to cut and coagulate the soft tissue at the same time.

The aim of this review is to derive the wavelength-dependent differences in photo-thermal ablation and coagulation efficiencies for oral soft tissue dental Near-IR Diode, Mid-IR Erbium and IR CO<sub>2</sub> lasers.

### **Objective:**

The objective of this lecture is to provide an overview on :

- 1-the fundamentals of laser science
- 2-The different types of wavelength used in oral soft tissues
- 3- The potential benefits of using different types of lasers for the treatment of oral soft tissue
- 5- The advantage of using laser over the traditional treatment
- 6-clinical cases presentation

**Methodology:** A recent review about the use of lasers in dentistry was conducted.

**Results:** Dentistry today is evolving tremendously and the use of lasers in dentistry is a double –edged sword : if it is properly used, laser can be an initial and/or additional tool in our daily. practice , whereas if it is misused it can lead to catastrophic results.