

# **Recent Technology in Oral Surgery**

## Endoscopic surgery

**Endoscopy** is the examination and inspection of the interior of body organs, joints or cavities through an endoscope. **Endoscopic surgery** uses scopes that go through small incisions or natural body openings to diagnose and treat disease. Another popular term is **minimally invasive surgery**.

## Arthroscopy of Temporomandibular Joint

TMJ arthroscopy is a surgical method that is performed on the TMJ or jaw joint that includes applying a camera to see within the circumference of joint ,clean the joint, biopsy and other surgical procedures performed under visual control.

## Endoscopy in Orbital Fracture

The endoscopic method was rapidly developed to midface and total facelifts. Advantages have incorporated more esthetic area of the incisions, smaller scars, improved hemostasis, protection of the innervation with magnified visualization, and smaller convalescence period.

# Endoscopy in Mandibular Condyle Fracture

The application of the endoscope to treat condylar injuries was a natural continuation of minimally invasive procedures for handling craniomaxillofacial trauma. Most surgeons believe on an intellectual level that fracture reduction and rigid fixation with the restoration of anatomy are commendable goals if that can be achieved without undue morbidity.

## Endoscopic - Assisted Surgery in Implant Surgery

The endoscopic surgical approach has been used for the removal of the maxillary supernumerary tooth, impacted third molar, and implants. In a case report presented by Beltrán *et al.* in the year 2014, they present an endoscopically assisted surgical technique for the removal of an unerupted supernumerary premolar in the mandible associated with a dental implant placement procedure.

# Robotic-Assisted Surgery

The robotic system acts by turning surgeon's hand movements on the robotic control mechanism into over and above precise movements of the miniaturized instruments that are injected into the body.

The transoral robotic method allows surgeons to operate from within a patient's mouth, bypassing external incisions in the neck and jaw that can drop an individual with persistent scarring and complications in eating, speaking, and swallowing.

# **Guided implant surgery**

**Making sure dental implants are  
safe, predictable, and efficient**

## Guided implant surgery

Guided surgery provides a solution where doctors can plan an implant virtually, and then accurately place an implant in the **most safe, predictable, and efficient manner**. With guided surgery, not only can we place the implant for the **most esthetic** result, but we can also superimpose abutments and **predict how much room will be needed** for the crown and for any veneered suprastructure that may go over the abutment.