

(High Resolution)

(Full mouth rehabilitation with flapless dental implants techniques)

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Abstract:

Flapless dental implants

Implantology is becoming more popular in dental practice to restore missing dentitions. Since the 70's, surgical techniques with flap elevation were used to insert implants, a stressful painful procedure for the patient.
Now, concepts are directing toward minimally invasive surgeries that are painless and atraumatic to the patient. Flapless implants are performed now after proper clinical and radiological examinations, using the R2GATE implant diagnostic system, flapless implants are being inserted for patients using a 3D printed surgical guide.

A full mouth rehab case will be presented, the whole procedure of inserting 14 dental implants with a flapless technique using digital surgical guide followed by the prosthetic parts after 3 months. Literature review will be discussed**.**

The main tools were used in this study case:

- The used software (**R2GATE**) Diagnoses and analyses the total oral condition, and it gives the best options for implants insertion (positions and angles) treatment.
- **CBCT** is a very efficient method for diagnosis the bone and related structures.
- **Digital Eye** (a feature from R2Gate system to determine bone quality and shape) was used to obtain strong initial stability for implants by a customized drilling sequence.
- **STL** (Soft tissue & teeth), R2GATE merges the STL (3D scanning of model or impression) with the CBCT to determine the outline for our surgical guide and to overcome the metal scattering in CBCT**.**

Key words: flapless, implants, minimally invasive surgery, digital dentistry, surgical guide

Biography:

Dr. Shireen Hawwari obtained her BSc (oral and dental surgery) from the University of Jordan, and her MSC (Fixed and removable prosthesis) from the University of Science and technology in Jordan. Dr. Shireen Hawwari has been working in her private clinic since 1995, her clinic is a part of the medical center of Jordan Hospital in Amman, the capital city of Jordan, and she took many courses in implantology and attended many local and international dental conferences.

She is focusing on performing only flapless dental implants techniques and Esthetic dental treatments

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