



# Protocol and Procedure for Placement of the OCO Biomedical 2.2 & 2.5mm I-Micro One-Piece Implant System (w/Drill Stops)

## Case Selections

Patient's health history is extremely important for proper treatment planning. The patient must be willing to maintain good oral hygiene to ensure a successful outcome. Patients with the following health conditions are not good candidates for this procedure.

- Diabetes (uncontrolled)
- Chemotherapy / Radiation
- Heavy Smokers - averaging more than 10 cigarettes per day
- Bisphosphonates

## Indications

- As an artificial root structure for single tooth replacement of mandibular central and lateral incisors and maxillary lateral incisors. The implant may be immediately restored with a temporary prosthesis that is not in functional occlusion.
- When splinted together as an artificial root structure for multiple tooth replacement of mandibular incisors. The implants may be restored after a period of time or placed in immediate function.
- For denture stabilization using multiple implants in the anterior mandible and maxilla. The implants may be restored after a period of time or placed in immediate function when good primary stability is achieved and with appropriate occlusal loading.

**NOTE:** For questions on I-Micro implant placement and restorative techniques please visit [www.ocobiomedical.com](http://www.ocobiomedical.com), call 800-228-0477 (+505-293-0025 international) or email [sales@ocobiomedical.com](mailto:sales@ocobiomedical.com).

## Laboratory

Study models are prepared for a diagnostic wax-up in the area of the desired final restoration. From the model, a vacuum formed clear tooth matrix is made. This will aid in placing the I-Micro implant(s) and in positioning them relative to adjacent natural teeth or implants previously placed.

### WARNING - VERY IMPORTANT

Implants should be absolutely stable after being placed. There must not be any mobility. If so, there is an error in placement. If the bone is dense enough and the body of the implant has not penetrated the cortical bone encasement, remove and use the next larger diameter implant.

## Proper Drill Sequence

### I-Micro 2.2 & 2.5mm One-Piece Dental Implant

- #8 High-speed Surgical Bur (Catalog: #8 HS)
- Pilot Drill 1.8 mm (Catalog: 0180) – w/Drill Stops (Catalog: DS0180-KIT)
- 3.25mm Paralleling Pin
- Insert Tool/Driver: I-Micro C&B and O-Ball Driver (Catalog # MD-L OR MD-S) & Thumb Knob Wrench (Catalog # TK)
- For Dense Bone: Ratchet (Catalog: RW) and/or Gear Reduced Hand-piece (Catalog: 0097)

CATALOG #	DESCRIPTION	DIAMETER & LENGTH
I-MICRO 2210-CB	Crown & Bridge Head	2.2 X 10 mm
I-MICRO 2212-CB	Crown & Bridge Head	2.2 X 12 mm
I-MICRO 2214-CB	Crown & Bridge Head	2.2 X 14 mm
I-MICRO 2216-CB	Crown & Bridge Head	2.2 X 16 mm
I-MICRO 2210-IOT	O-Ball Head	2.2 X 10 mm
I-MICRO 2212-IOT	O-Ball Head	2.2 X 12 mm
I-MICRO 2214-IOT	O-Ball Head	2.2 X 14 mm
I-MICRO 2216-IOT	O-Ball Head	2.2 X 16 mm
I-MICRO 2510-CB	Crown & Bridge Head	2.5 X 10 mm
I-MICRO 2512-CB	Crown & Bridge Head	2.5 X 12 mm
I-MICRO 2514-CB	Crown & Bridge Head	2.5 X 14 mm
I-MICRO 2516-CB	Crown & Bridge Head	2.5 X 16 mm
I-MICRO 2510-IOT	O-Ball Head	2.5 X 10 mm
I-MICRO 2512-IOT	O-Ball Head	2.5 X 12 mm
I-MICRO 2514-IOT	O-Ball Head	2.5 X 14 mm
I-MICRO 2516-IOT	O-Ball Head	2.5 X 16 mm



## Protocol & Procedure for Placement: OCO Biomedical I-Micro One-Piece Implant System

**IMPORTANT** - This product is sterile and ready for use when enclosed and sealed in original packaging. Re-sterilization is not recommended by OCO Biomedical, Inc. If packaging is damaged or open upon receipt of product, please call OCO Biomedical at 800-228-0477 (or 505-293-0025) for a replacement product. *Procedural example below features a 12 mm I-Micro One-Piece Crown & Bridge Implant (2.5 mm diameter).*



**1** - The implant candidate must have a healthy pre-operative condition.



**2** - Use the #8 HS surgical bur & high-speed handpiece with water spray to mark the spot for placement. Drill through gingiva into the cortical bone.



**3** - Attach a drill stop (8, 10, 12, or 14mm) to the 1.8 mm pilot drill. Use with a low-speed handpiece between 1,000 and 1,500 RPM. Drill 2 to 4 mm short of implant length.



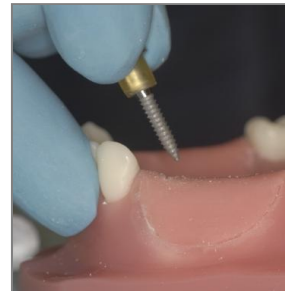
**4** - Align with adjacent teeth or implants. Use the pilot drill & drill stop to penetrate into soft tissue & bone until drill stop reaches gingival crest.



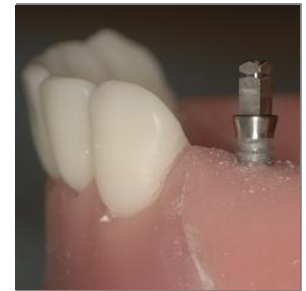
**5** - Use the paralleling pin to check the alignment.



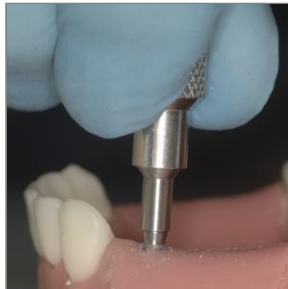
**6** - Re-drill if misaligned or if the bone density requires further depth with the pilot drill.



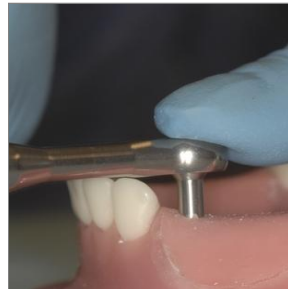
**7** - Remove implant from package & remove color-coded cap. Remove implant from vial & screw implant w/amber delivery cap.



**8** - Remove the amber delivery cap when resistance is met.



**9** - Use the Thumb Wrench and I-Micro driver (long or short) to screw the implant to its final seating depth.



**10** - Use the Ratchet Wrench and I-Micro Driver (long or short) if you cannot finally seat the implant with the Thumb Knob Wrench.



**11** - The I-Micro C&B is now fully seated. If needed, modify the abutment for the crown with a #557 carbide bur in a high-speed handpiece (use irrigation).



**12** - Implant is ready for temporary crown in light occlusion. Place acrylic coping on implant.



**13** - Fill temporary crown w/acrylic & place over coping.



**14** - When set, remove, trim & place w/temp cement.



**15** - Implant and temporary crown cemented and fully seated on the implant abutment.