

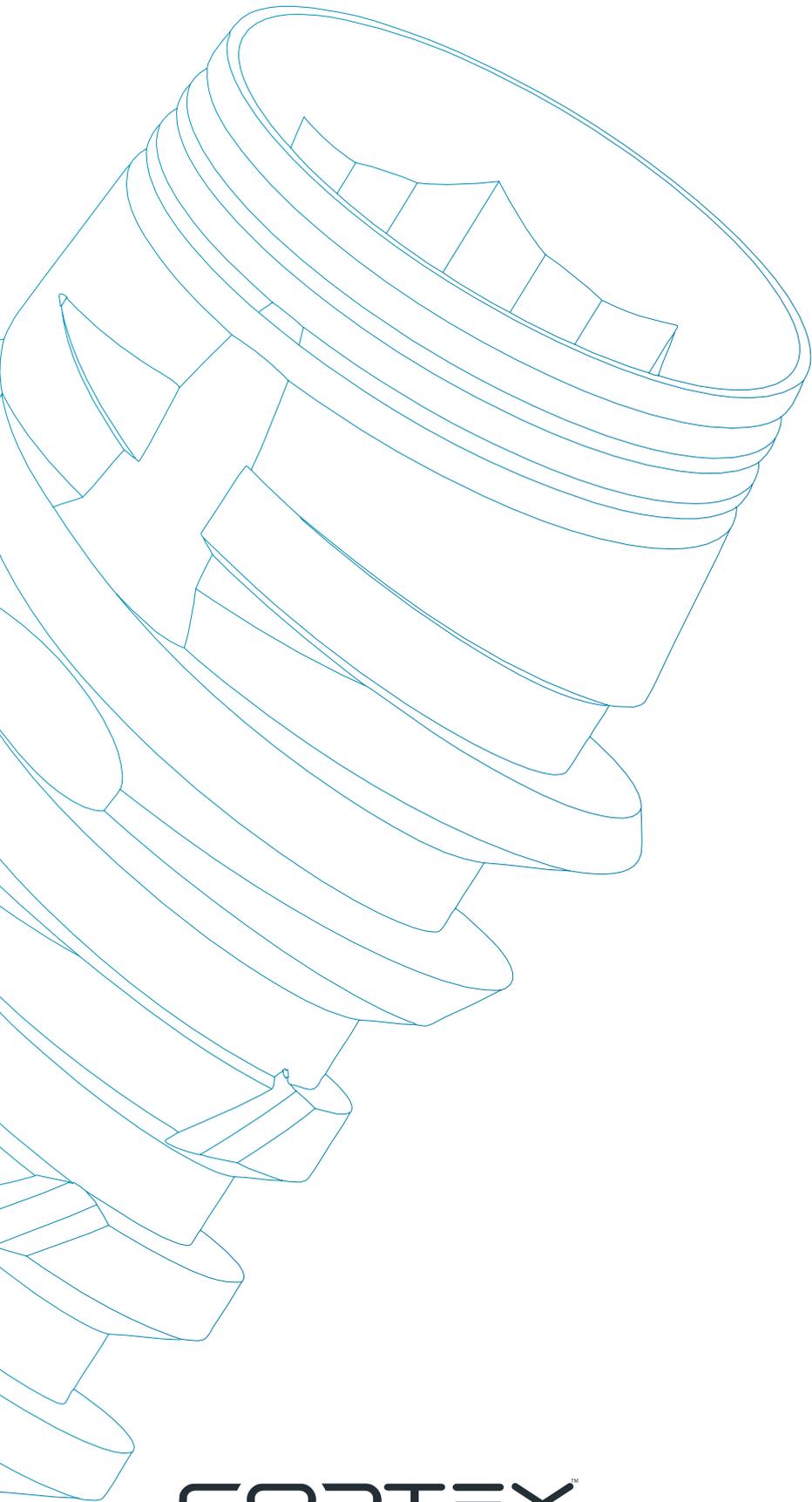
# SATURN



**CORTEX**<sup>™</sup>  
The Future of Dental Implants

## **Saturn Implantation Protocol**

Design by Dr. Zvi Laster D.M.D Maxillofacial Surgeon



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## 1. Extraction tooth with 3 roots in posterior maxilla

First, separate the roots and extract each root separately for atraumatic extraction.



After drilling an osteotomy at the inter radicular bone by using the Marker Drill for location and direction and continuing the conventional sequence. Insert the implant flash to the interarticular bone and 2 mm deep in the socket. Screw in a small healing cap.



Over Fill the 3 sockets with bone particles.



Cover the bone particles with "Cola-Tape" or "Gel foam" and close the socket with cross sutures.



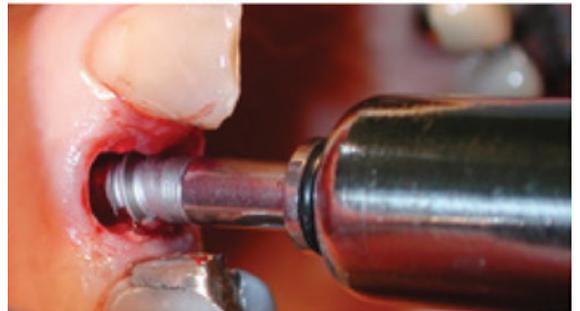
## 2. Extraction socket with 2 roots in the posterior maxilla

Drill an osteotomy at the inter radicular bone by using the Marker Drill for location and direction and continuing the conventional sequence.



Insert the implant flash to the interarticular bone and 2 mm deep in the socket. Screw in a small healing cap.

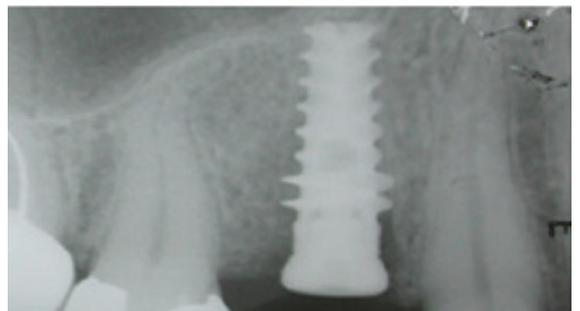
**Note! : Be careful, Hold the implant firmly ! The “wing” is very powerful and might cause tilting of the implant when it engages the socket’s walls.**



Screw in the healing cap and close the soft tissue using a mattress suture .



Take a post-op x-ray. Note the “wing” penetrating the socket’s walls providing high torque resistance.

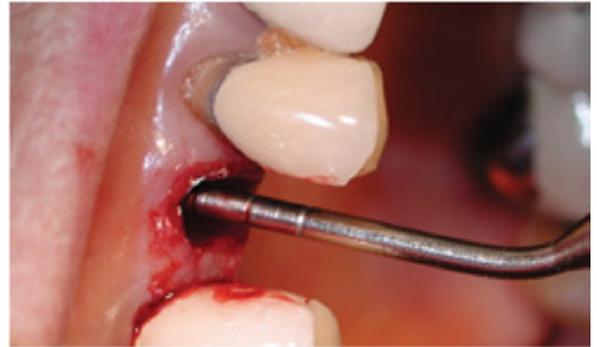


Remove the healing cap and prepare a temporary crown.



### 3. Extraction and immediate insertion of the Saturn without drilling.

If the apex is adjacent to the maxillary sinus floor, one can not drill deeper. Measure the depth of the socket.



Choose a 2 mm shorter "Saturn" and insert directly without drilling until it is sunk 2 mm deep in the socket.



Close the implant with a healing cap.



Check with x-ray that the tip of the implant reached the maximum depth. If not, you can continue turning in the implant until it engages the floor of the sinus.



## 4. Extraction and immediate insertion of the Saturn without drilling.

In case that the lower Molar's apexes are adjacent to the mandibular canal one can not drill deeper.

There are 2 possibilities; drilling into the inter radicular septum or directly to one of the sockets.

Measure the depth of the socket.

Choose the appropriate "Saturn" length and width and insert without drilling

Sink the "Saturn" flash with the inter radicular bone.

Fill the sockets with bone particles and cover the bone particles with "Cola-Tape" or "Gel foam" and close the socket with cross sutures.

Take a post-op x-ray.



## 5. Extraction socket in anterior area of maxilla

Note! Inserting the “Saturn” in the premaxilla is very tricky and can go wrong and fail without experience with the “Saturn.”

It is recommended to use the “Saturn” first only after few easy cases.

It is recommended not to use the Saturn in the second incisors socket because the crest is too narrow!

The drilling is into the palatal 2/3 bevel of the socket.

First mark the penetrating point using the marking drill followed by the 2mm drill. The drilling starts at 45° degrees drilling 2-3 mm in depth.



While the drill is rotating straighten the drill palatally to the appropriate depth. Finish the whole sequence of drilling according to the desired diameter.



Tuck small amount of bone particles towards the buccal wall



Insert the “Saturn” at 45\* degrees, rotate 2-3 turns to engage the tip of the “Saturn” into the osteotomy. Then while rotating straighten the implant towards the palate.

Note! When the “Wing” engages the palatal wall the implant will tilt towards the buccal because of the hard cortical bone resistance.

Therefore, it is very important to push the implant palatally while rotating the implant so the “Wing” will cut and penetrate the hard cortical bone.

If you don't push hard palatally the implant will be displaced buccally and the implant will be exposed!



Insert the “Saturn” 2 mm deep in the socket and connect the temporary abutment.



Cut a piece of glove and use as rubber dam.



Cut and prepare the abutment for temporary crown.

Use plenty of irrigation and short contacts to the abutment, otherwise the heat will be transferred to the implant!

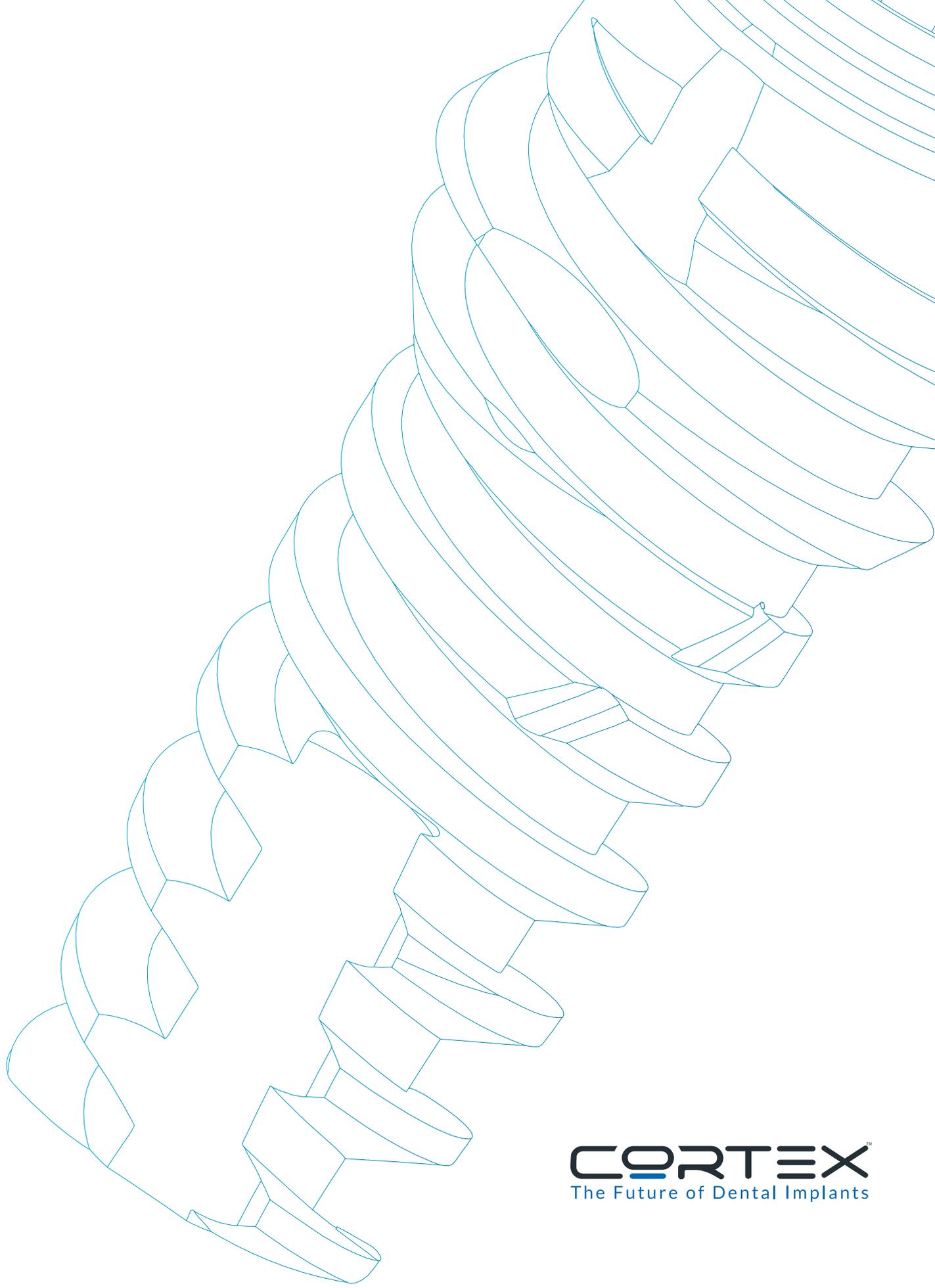


Temporary crown cemented.



Post-op x-ray



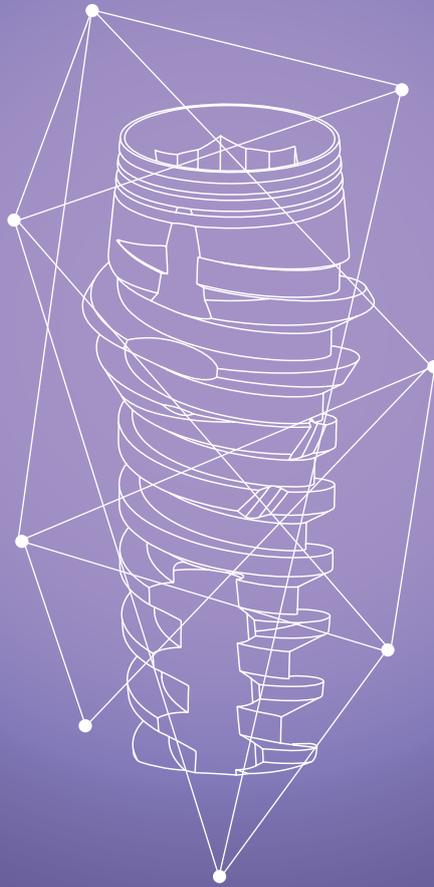


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