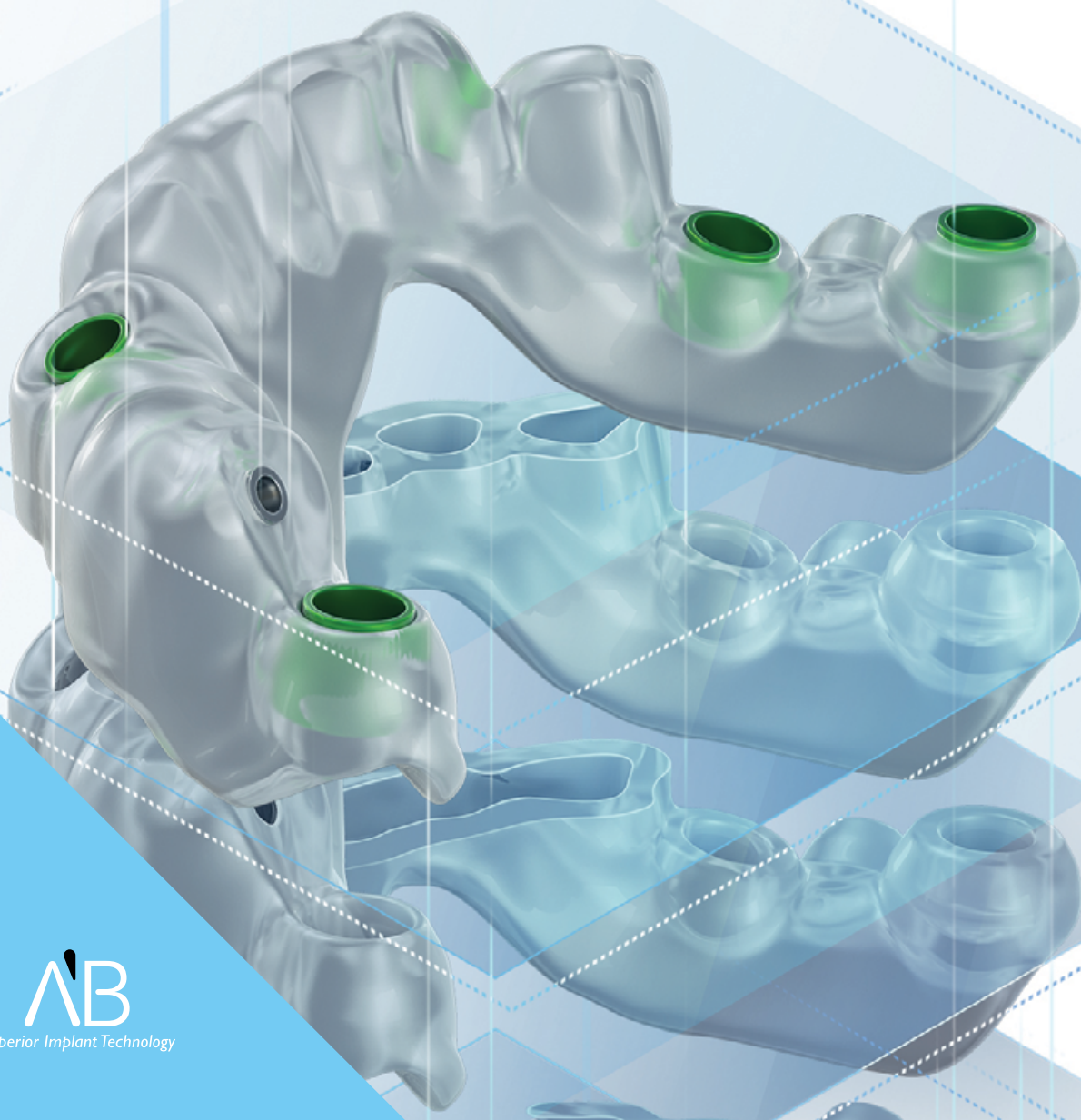


# AB GUIDED SERVICE

## THE ULTIMATE GUIDE FOR PRECISE IMPLANTATIONS



Superior Implant Technology

# ABGUIDEDSERVICE

## THE ULTIMATE GUIDE FOR PRECISE IMPLANTATIONS

AT A.B. DENTAL WE'VE BROUGHT IMPLANTOLOGY INTO THE FUTURE –  
WITH A 3D DIGITALLY PLANNED IMPLANT METHOD

ABGuided Service allows the doctor to use the most advanced 3D Imaging Software and Technology, without having to learn how to use it. ABGuided Service will plan the case with the doctor.

- Maximum Precision
- Choosing the best treatment plan
- Relating to the prosthetic restoration
- Crowns or bridge by CAD/CAM for immediate loading
- Angled implants can be planned
- Safer for both doctor and patient
- Less time in surgery
- Superior Long term results

ABGuidedService is an exclusive service that assists the dentist, to plan a precise implantation procedure easily, using the latest technology.

The 3D imaging and planning is prepared at A.B. Dental's World Center.

A surgical guide is printed digitally from the 3D plan, to bring the planning to the mouth.

The ABGuide comes with the implants, prosthetic parts, surgical kit and even temporary bridge, for each case.

### Types of ABGuide:

- Tooth supported - With Flap or Flapless
- Tooth and Gingival [Soft Tissue] - With Flap or Flapless
- Gingival [Soft Tissue-Edentulous] - With Flap or Flapless
- Bone supported (full flap)
- Bone and Tooth
- Pterygoid [Tooth, Gingival or Bone supported]
- Zygomatic [Full Flap-Bone]

## BOTTOM LINE:

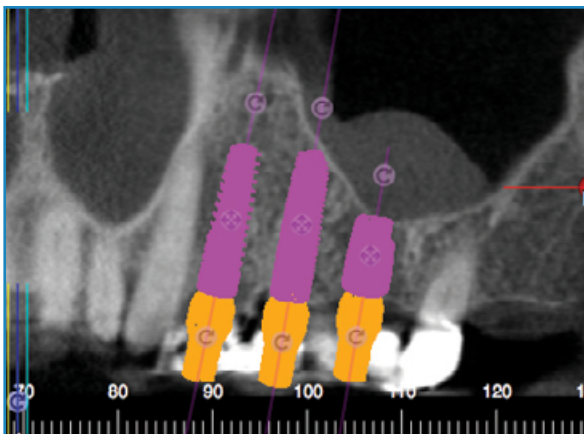
ABGUIDEDSERVICE IS THE  
RIGHT WAY TO PERFORM A  
PRECISE IMPLANT PROCEDURE

# THE SIMPLE 4 STAGE PROCESS:

1

## INITIAL PREP

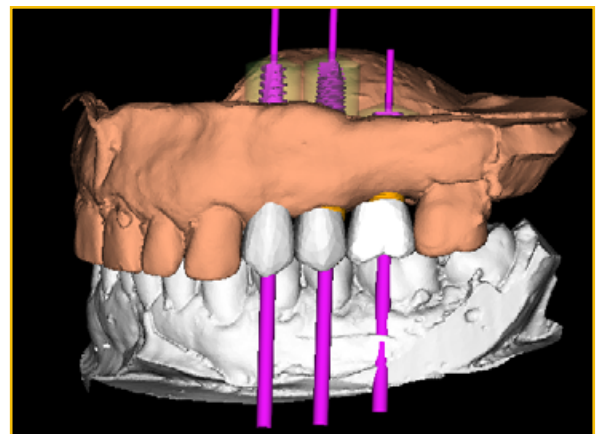
- The doctor places an order with our ABGuidedService software.
- He then uses an intra-oral scanner to create a scan of the patient's mouth (A precise impression can also be taken) and sends him for a CT Scan.
- Both scans are sent to A.B. Dental, using our upload link.



2

## 3D TREATMENT PLAN

- At ABGuidedService Center, our team of professionals merges the intra-oral scan [or scan of the model] with the CT scan to create a detailed and complete 3D imaging of the patient's mouth: bone, teeth, gums and virtual tooth positions.
- The ABGuidedService professionals can now study the patient's mouth, plan the ideal implant procedure and send it to the doctor for review.
- This step allows the doctor to fine-tune the procedure before stepping foot in the surgery room.



# 3

## ABGUIDE

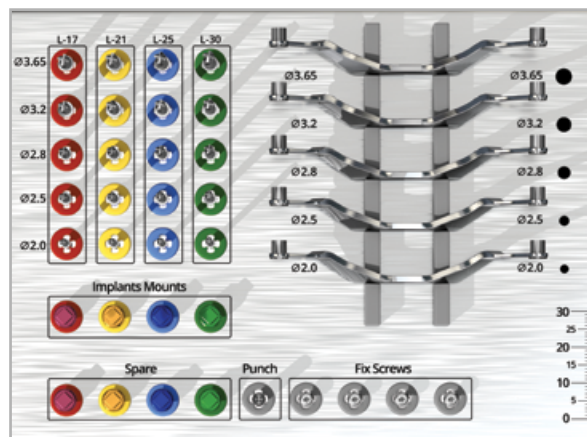
- With the final treatment plan completed, the ABGuide is now printed using our in-house 3D printer directly from the approved plan.
- The ABGuide has colored sleeves which correspond with the color-coded drills with stoppers, controlling the drill depth.
- ABGuidedService provides everything needed for the procedure: AB Guide, surgical tool kit, implants, abutments, healing caps and even a temporary restoration.



# 4

## PROCEDURE

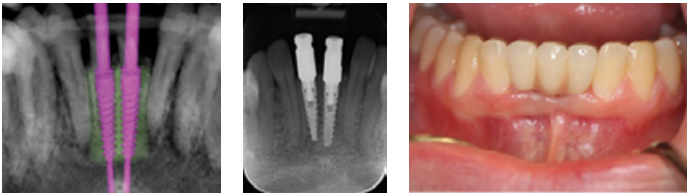
- The doctor performs the implantation using the ABGuide.
- Most of the work has already been done outside of the mouth and the procedure is truly simplified.
- Important: ABGuidedService allows the dentist to use his knowledge and experience in the optimal way.



# CLINICAL CASES:

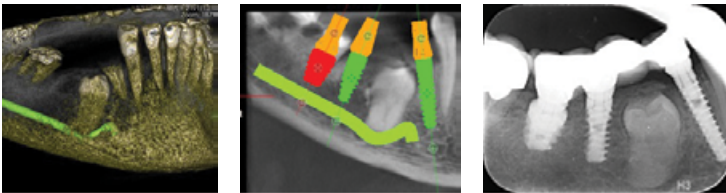
## 2 IMPLANTS ANTERIOR MANDIBLE

2 implants were placed to restore 3 missing teeth in the anterior mandible. There is just enough space for 2\*3mm implants.



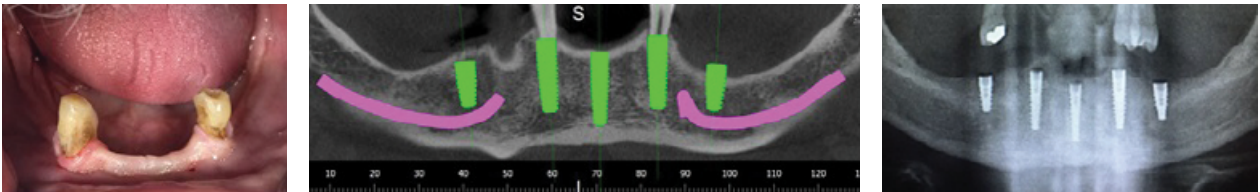
## IMPACTED TOOTH IN MANDIBULAR CANAL

Tooth 45 is impacted, and its root is in the mandibular canal. To avoid the dangers involved in extracting 45, 3D planning and an AB Guide were used to plan and place implants around the impacted tooth.



## 5 IMPLANTS IN MANDIBLE FOR SCREW-RETAINED PROSTHESIS

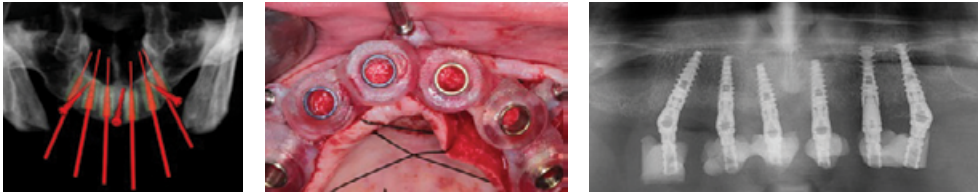
This patient has a partial denture retained by 33 and 43, which need to be extracted. The optimal positions were found for 5 implants in the 3D planning software. 2 guides were used in this case.





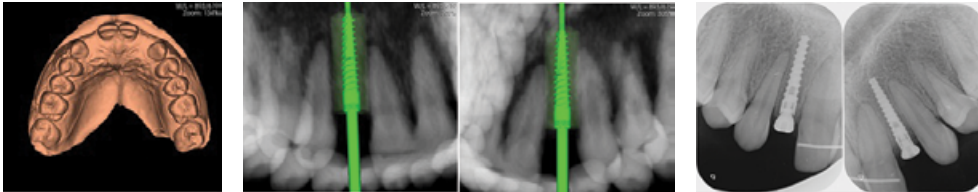
## BONE SUPPORTED GUIDE FOR 6 IMPLANTS

3D planning was made for 6 implants. The distal implants are angled to avoid the sinus, and to take the occlusion as distal as possible. The guide sits on the bone surface, after a full flap has been opened.



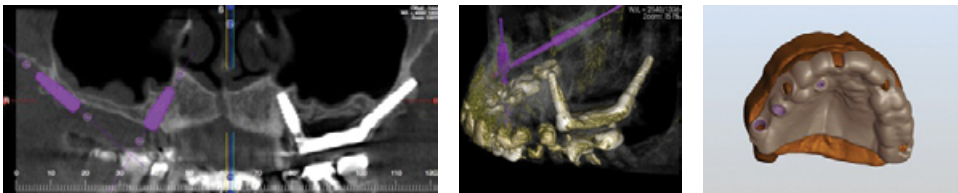
## NARROW SPACES BETWEEN TEETH

2 lateral incisors are congenitally missing. The space was prepared with Orthodontics, but the distance between the roots is much less than the prosthetic space. Using a guide 2 3mm implants were placed accurately.

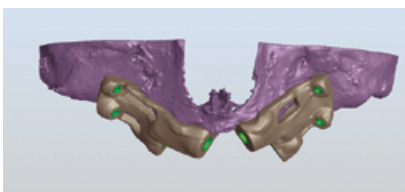


## PTERYGOID IMPLANTS - PLAN AND POST-OP

A pterygoid implant was used to restore the left side, and can be seen in the post op CT with the final restoration. A pterygoid is also planned on the right side, and the guide has been designed to sit on the palate, and on the bridge on the left side.



## 3D PLANNING FOR ZYGOMATIC IMPLANTS



# ACCURACY OF COMPUTER - GUIDED IMPLANTATION IN A HUMAN CADAVER MODEL

Gustavo Yatzkaier, Alice Cheng, Stan Brodie, Eli Raviv, Barbara D. Boyan, Zvi Schwartz

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## ABSTRACT

**Objectives:** To examine the accuracy of computer-guided implantation using a human cadaver model with reduced experimental variability.

**Materials and methods:** Twenty-eight (28) dental implants representing 12 clinical cases were placed in four cadaver heads using a static guided implantation template. All planning and surgeries were performed by one clinician. All radiographs and measurements were performed by two examiners. The distance of the implants from buccal and lingual bone and mesial implant or tooth was analyzed at the apical and coronal levels, and measurements were compared to the planned values.

**Results:** No significant differences were seen between planned and implanted measurements. Average deviation of an implant from its planning radiograph was 0.8 mm, which is within the range of variability expected from CT analysis.

**Conclusions:** Guided implantation can be used safely with a margin of error of 1 mm.



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