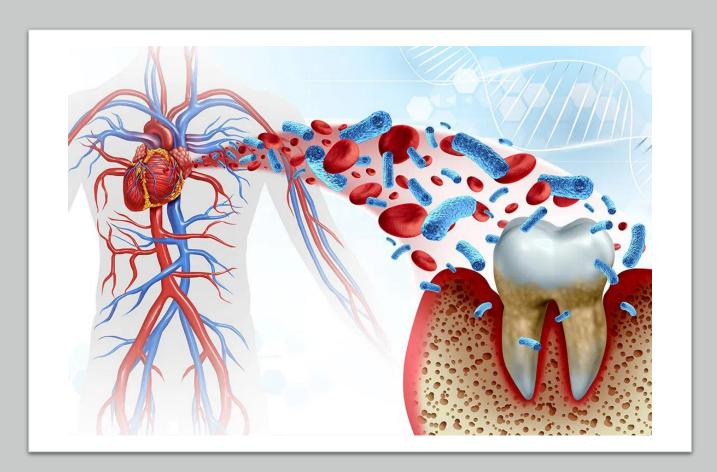


Dr. Michelle Vega & Dr. Enrique Dueñas

FULL ARCH SOLUTIONS

7 Things you should know

- Transition to Dentures
- Patient Evaluation
- Surgical Process
- Temporary Dentures
- Postoperative care
- Balanced Occlusion
- OPTION WITHOUT IMPLANTS
 - CONVENTIONAL DENTURES
- OPTIONS WITH IMPLANTS
 - REMOVABLE OVER IMPLANTS
 - SNAP ON SYSTEM (LOCATOR)
 - FIXED PROSTHESIS ON IMPLANTS
 - BRIDGES OVER IMPLANTS
 - HYBRID PROSTHESES
 - FULL ARCH ZIRCONIA BRIDGE
- Number of implants in relation to the prosthesis
- Number of Appointments Required

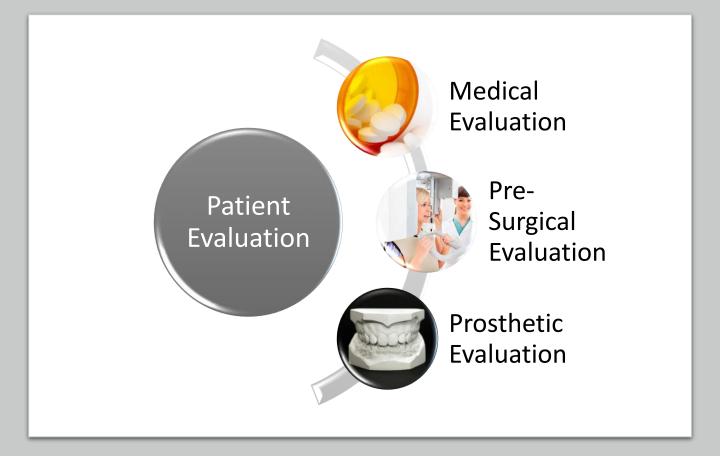


Transition to Dentures

After years of service, sometimes the teeth can no longer remain in the mouth due to different situations, whether due to advanced caries, mobility or multiple fractures.

In this type of cases there may be frequent infections which can put the patient's life at risk. These pathogens must be eliminated in order to return to health and reestablish the ability to eat.

Proper digestion begins with the grinding of food and for this you need teeth. If food is well processed, nutrients can be absorbed more easily.



Medical Evaluation

Medical evaluation is of great importance since there are systemic conditions and medications that can interfere with proper healing, coagulation, and acceptance of the implant by the body.

Some contradictions are:

- Cancer: Patient treated with chemotherapy or radiotherapy in the last 5 years.
- Osteoporosis and that treated with bisphosphonates such as:

Alendronate (Fosamax™, Fosamax™ Plus D)

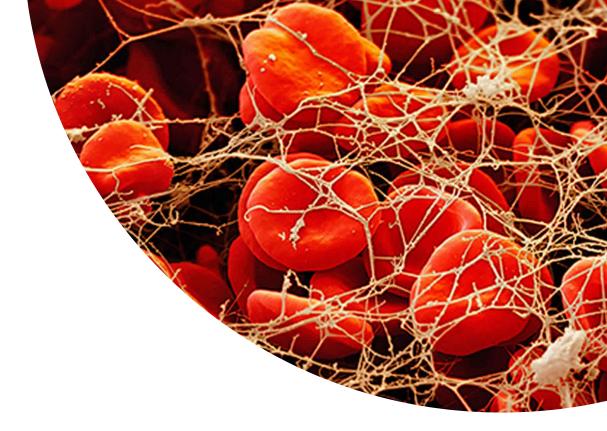
Risedronate (Actonel™, Actonel™ with Calcium, and Atelvia™)

Ibandronate (Boniva™)

Zoledronic acid (Reclast™)

Denosumab (Prolia™)

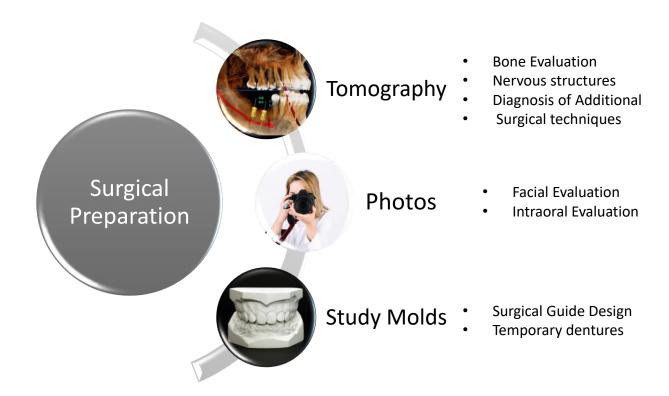
Estrogen therapy or hormone therapy.



- Low platelet count
- Blood disorders such as hemophilia
- Patient treated with anticoagulants:
 - such as warfarin, aspirin among others. (In this case you must Consult with your cardiologist for temporary suspension of such medications)

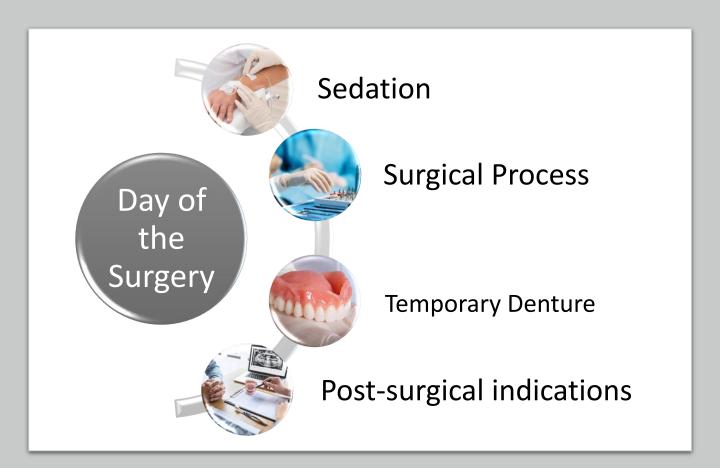


In DIABETIC PATIENTS, the patient must control their glucose, since a high glucose count interferes with correct healing, thus delaying recovery time and giving room for postoperative complications to arise.



At the first appointment, a medical evaluation of the patient is carried out and also pre-surgical preparation where we must collect information to be able to establish an appropriate treatment plan for each patient.

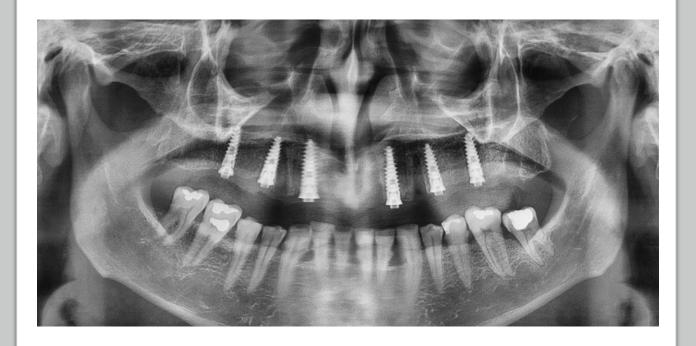
In a second appointment we explain the possibilities of your particular case. From the number of dental implants that can be placed, type of prosthesis and whether there is a need for additional surgical techniques to ensure the biological success of the implant. Which would be to ensure that it has bone throughout its periphery.



Day of the Surgery

- Sedation by an anesthesiologist. This service can be offered
 if the patient requests it; it must be scheduled at least 3
 weeks in advance.
- Do not eat for 8 hours in case of sedation and take all your routine medications except aspirin.
- Breakfast: If sedation has NOT been requested, the patient should eat a light breakfast and take all their routine medications except aspirin.
- Come accompanied by someone you trust as you will need someone to take you home.

Placement of implants, Bone Graft and Membranes



- After the extractions and bone remodeling surgery (softening the bone so that there are no peaks or irregular edges), the implants are placed.
- Depending on the design of the final prosthesis, is the number of implants placed. It ranges from 4 to 10 implants per arch. More will be said about this later.
- Once the implants are placed, we will start with the bone and tissue regeneration process.
- The edges of the wound are closed with sutures, which may be resorbable or non-absorbable depending on the type of surgical process.

Immediate and Permanent Dentures



- Immediately after surgery, a soft reline of the immediate prosthesis is made and placed on the patient. The patient will wear this prosthesis for at least two days immediately after surgery. It is normal for this prosthesis to stop fitting after a few days since the gums will have deflated.
- At 4 weeks after surgery another soft reline can be made and at 8 weeks other more personalized dentures can be made, remembering that the immediate or temporary ones were made with unestablished parameters. The new ones will already be personalized and will fit better.
- Once 4 to 6 months have passed (depending on the particular case of each patient), the prosthesis can be made over implants.

Post Operative Care



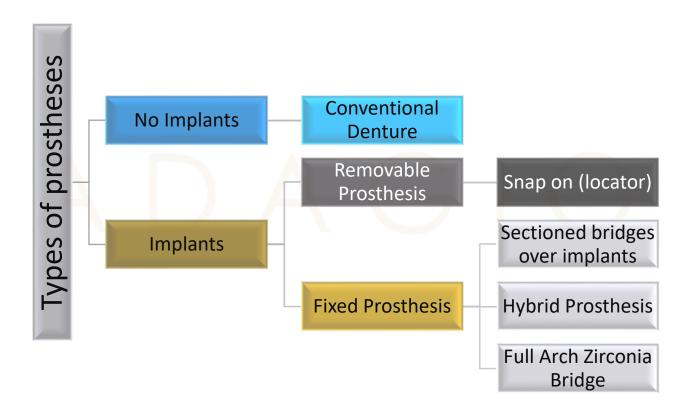
- Carefully follow the prescription, respecting dosage and schedules.
- Swelling and discomfort can last 10 days.
- Antibiotics, Anti-inflammatory and Analgesics will be given.
- You should AVOID the following:
 - Spit
 - Dairy
 - Seafood in General
 - Exercise and stay in hot places for 1 week.
 - Play with the suture.
 - Avoid lifting heavy things.
 - Do not use straws
- Ensure is a substitute drink that helps you get vitamins, minerals and fats.
- Prepare soft food for the following days since it is expected to have moderate pain and makes it difficult to chew food.



Balanced Occlusion

- Balanced occlusion refers to a balanced bite. Where we must ensure that there is harmony when biting. It can be achieved by placing dental crowns, implants + crowns, removable prosthesis or dentures. Everything will depend on the patient's case.
- This point is very important since the failure of an implant can be due to overload when biting.
- The purpose of this is to restore all tooth contacts as they were before complications occurred.

Full Arch Prosthetic Solutions



Full Arch Prosthetic Solutions WITHOUT IMPLANTS



CONVENTIONAL DENTURE

- This type of prosthesis is supported on the gum. At the palate it creates a suction effect with the gum + saliva. Thus giving greater stability to the denture.
- In the jaw it is a little more difficult to achieve stability without implants since there is little suction that the denture can create with the gum due to the fact that the jaw is shaped like a horseshoe.
- In addition to those described above, the mouth has muscles and frenulums that are in constant movement when speaking, eating, swallowing, etc. These movements can cause the prostheses to move.

- To help dentures stay in place, denture glue can be used. (Fixodent)
- Dentures should be brushed and cleaned with dish soap. Then leave it in water with an effervescent denture cleaning tablet overnight. (polident)
- The material of traditional dentures is acrylic. Like all acrylic, it can stain, wear and smell over time. It is recommended to acquire new dentures every 3-5 years.







- 1 CLEAN & DRY DENTURES.
- 2 APPLY ADHESIVE in thin strips as shown.
- 3 INSERT DENTURES and hold briefly in place.







ADAGIO

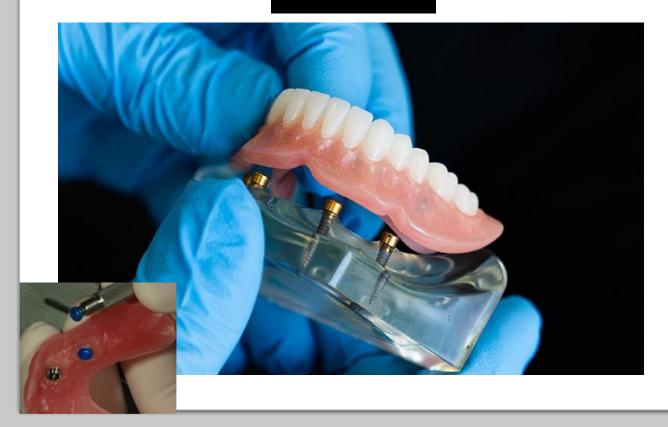
FULL ARCH SOLUTIONS WITH IMPLANTS

REMOVABLE OVER IMPLANTS

SNAP ON SYSTEM (LOCATOR)

By incorporating an anchoring system such as dental implants, we help the prosthesis stay in place.

Removible



SNAP ON SYSTEM (LOCATOR) Overdenture

Number of Implants:

- In the jaw, this system requires at least 2 implants.
- In the maxilla, this system requires at least 4 implants.

General Features:

- The implants act as posts so that the adapted denture can assemble.
- This prosthesis can be removed and put on as many times as the patient wants.
- You can clean it outside the mouth just like the conventional one.
- This type of system exerts a little more trauma on the implants.

Maintenance:

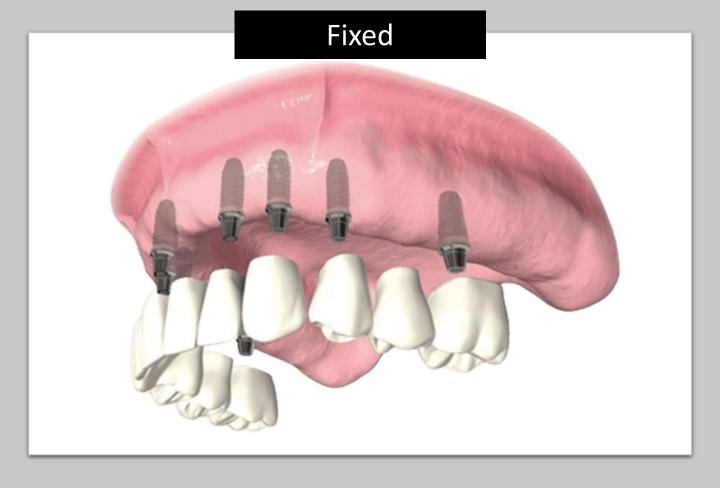
- These dentures are made of acrylic just like conventional ones, therefore new ones must be made every 3 to 5 years.
- The locator rubbers must be changed every 12 months and the locators and teeth must be cleaned.

FULL ARCH SOLUTIONS WITH IMPLANTS

FIXED prosthesis over implants

- Sectioned Bridges Over Implants
 - Hybrid Prosthesis
 - Full Arch Zirconia Bridge

The prostheses are arch-shaped and the patient cannot remove them.



Sectioned bridges Over Implants

Number of implants:

• In the Jaw or maxilla, there must be 8 implants per arch.

General features

- The patient must have enough bone to be able to position the implants in their ideal position horizontally as well as in depth at bone level. There must be prosthetic harmony. Not all patients are candidates due to this situation.
- In this prosthesis, the porcelain will only be white corresponding to the tooth or a pink gum simulator could be placed in case there is a discrepancy in the final size of the tooth.
- Material: Zirconia

Maintenance

 The prosthesis must be cleaned and maintained every 6 months by the Dentist.

Fixed

Depending on the bone defects that the patient has as a result of previous dental infections, we can make a decision if the patient is a candidate for a prosthesis that has only the teeth (image above) or if we should perform a hybrid prosthesis (image below).

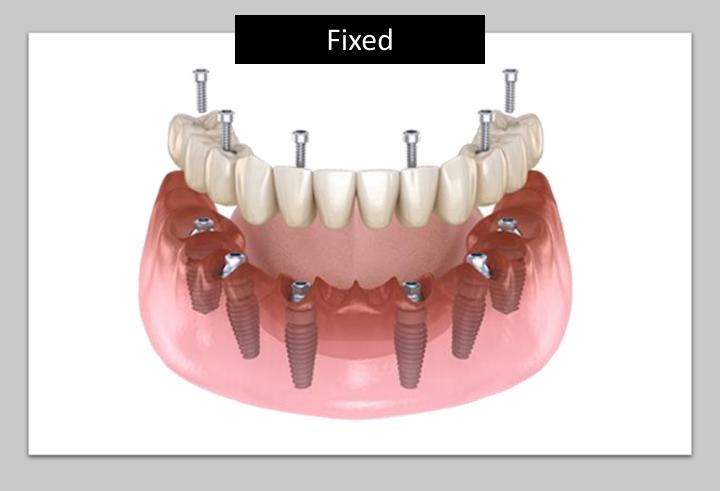
Since this will determine the position of the implants.

In addition to evaluating the space between both arches. If there is excess space than usual, a prosthesis with greater support must be made since it will be thicker due to this aforementioned space.





ADAGIO



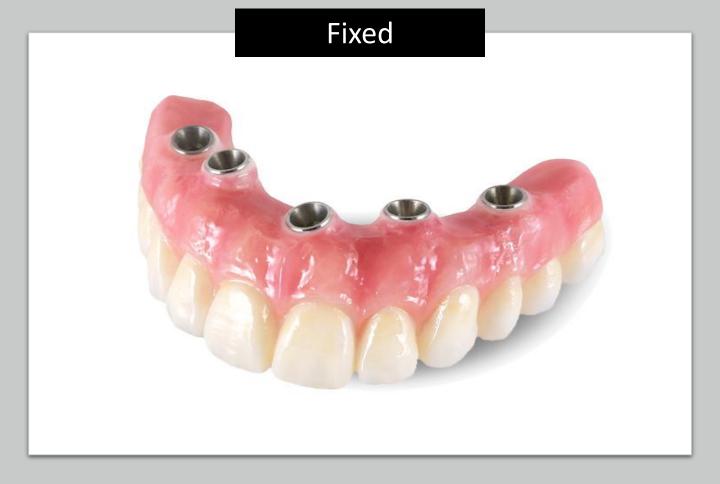
FULL ARCH HYBRID PROSTHESIS (ALL ON 4 – 8)

Number of implants

- In the jaw, this system requires at least 4 implants.
- In the maxilla, this system requires at least 6 implants. (more are needed because the bone is less dense)

General Features

- It consists of an internal metal framework covered by resin and pink acrylic teeth simulating gum.
- This type of prosthesis is fixed in place and cannot be removed by the patient, only by the dentist.
- Highly functional prostheses.
- The greater the number of implants, the better the distribution of the forces caused by the bite.



Maintenance:

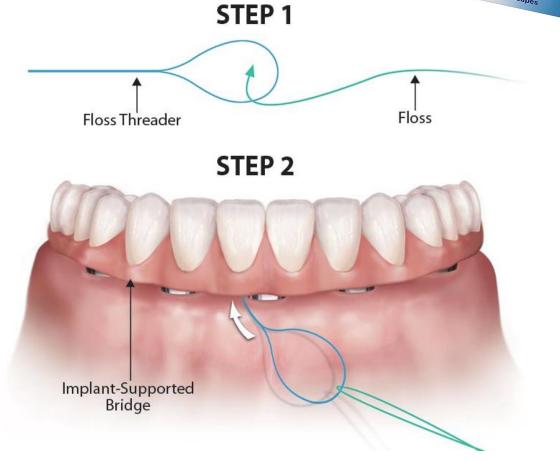
- Acrylics can be changed every 5 years (if the patient so wishes). You can keep the metal frame and only change the acrylic.
- Cleaning and inspection by the Dentist must be done every 6 months.

Cleaning the prosthesis at home

It can be done in two ways:

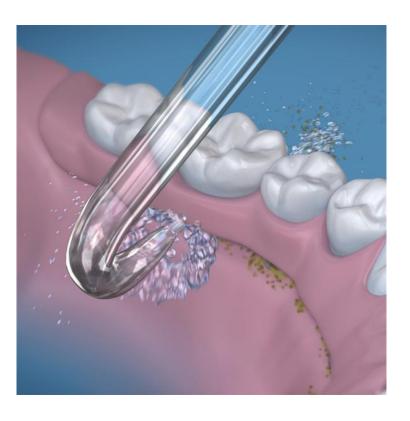
1) Superfloss has a slightly harder plastic needle-like part so you can place it between the gum and the prosthesis. The movements are back and forth between the different segments.





Cleaning the prosthesis at home

2) Waterpik: It is a device that sprays water under pressure. The tip should be placed at the interface between the gum and the prosthesis to be able to sanitize.





Fixed



FULL ARCH ZIRCONIA BRIDGE

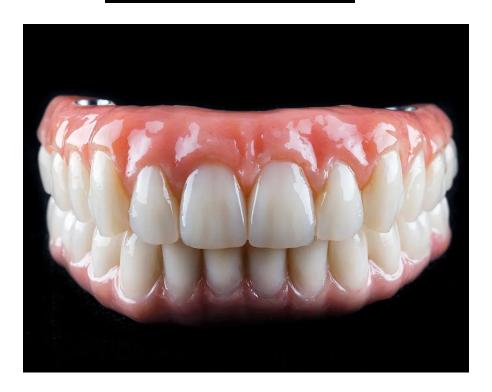
Number of Implants

- In the jaw, this system requires at least 8 implants
- In the maxilla, this system requires at least 8 implants.

General Features

- It consists of an internal framework of Zirconia, peek or titanium.
 The teeth and gum are made of Zirconium (ceramic material).
- These prostheses cannot be repaired; a new prosthesis would need to be manufactured in case it fractures.
- Hygiene should be carried out the same as with hybrid prostheses.

Fijo o Atornillado



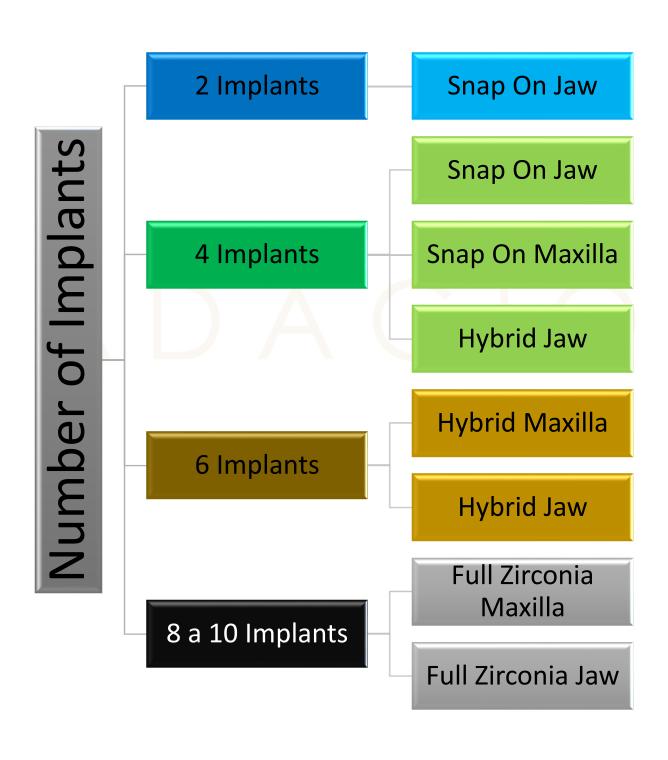
General Features

- The material of this prosthesis does not discolor, stain or wear since it is a ceramic.
- It must have an adequate thickness to avoid fractures, therefore this type of prosthesis must have a gum simulator (pink porcelain).
- It is more rigid than a metal/acrylic hybrid prosthesis.
- It is the most expensive option.

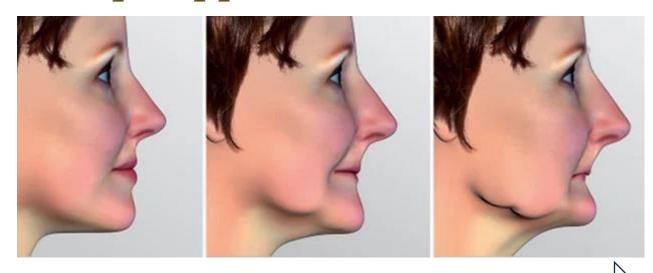
Maintenance:

Cleaning and inspection by the Dentist must be done every 6 months.

Number of Implants in Relation to the Prosthesis



Lip Support and Smile Line



Normal

Loss of lip support, teeth, bone



- The patient's lip support should also be evaluated. The lip support is provided by the natural teeth that, when lost, cause a collapse of the lip. If the patient has a short lip, the margin of the hybrid prosthesis can be marked.
- As with high smiles, the patient can expose the upper margin of the hybrid prosthesis, in these cases a snap on system is best.
- This concept is of importance in all the aforementioned prostheses since it is the facial aesthetic factor.

Standard Treatment Plan

ADAGIO

Planning and Surgery	Day 1	Tomography, models, temporary denture manufacturing, case analysis
	Day 2	Extractions, bone softening, placement of implants and grafts. Adapt temporary prosthesis
	Day 3	Patient Check up

4 to 6 months later

Elaboration of the prosthesis	Day 1	Selection of abutments over implants
	Day 2	Placement of abutments and impression taking
	Day 3	Height test in wax and teeth test
	Day 4	Delivery of removable prosthesis / in case of Fixed prosthesis, more tests will be done
	Day 5	Delivery of final fixed prosthesis

NOTE: The days for preparation of the prosthesis can vary from 3 to 5

Dr. Michelle Vega Teran

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Orthodontist & Cosmetic Dentistry

Endodontist & Implant Surgeon

The transition from final teeth to the placement of a prosthesis without or with implants can be a little confusing.

Let us know your questions so we can make this transition as comfortable as possible.

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