

HOW TO REPLACE MISSING TEETH?

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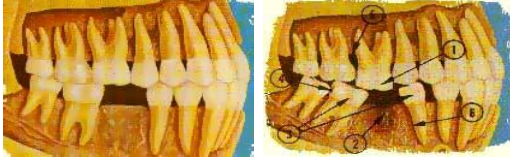
PATIENT Information and Informed Consent*: Empower You To Make Informed Decision

*Please do not commit to a treatment if you do not understand

INTRODUCTION

Human has two set of teeth commonly known as milk teeth and permanent teeth. At around 6 to 12 years old, the milk teeth will be gradually replaced by permanent teeth. If the permanent teeth fall off, no teeth will grow again and a gap between teeth will be present.

WHY RESTORE THE MISSING TOOTH?



When teeth are missing, it affects not only the appearance but also the way the rest of your teeth bite together. The remaining teeth may tilt or drift into the gaps. Foods can easily get trapped into these gaps, increasing the risk of having tooth decay and gum disease. In addition, the opposing tooth may overgrow, causing a bite relationship problem. Moreover, the supporting bone of the missing teeth may experience a greater bone loss. This increases the difficulty to achieve an ideal result for the denture or implant restorations..

TYPES OF RESTORATION

There are two types of restorations: A) Removable restoration
 B) Fixed/ Non-removable restoration

A) REMOVABLE

1) Denture
 There are different types of denture base: plastic, soft plastic or metal base. No matter which type of base is used, the teeth will be made out of plastic or porcelain.



i) Plastic base - Easy to construct, the price is cheaper, but it is more fragile than metal base.
 Cost >RM280



ii) Metal base- The material used is non-corroded metal. It provides an added strength for narrow-based denture and the denture shape is dimensionally stable. This denture exerts less irritation to the tongue. This type of denture is especially suitable for cases where the front teeth of the lower jaw are natural while the back teeth of the lower jaw are artificial. The price for metal base denture is higher.
 Cost>RM750

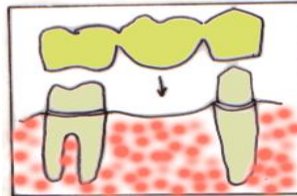


iii) Soft Plastic base – This type of denture can be twisted. Hence, it can be inserted into the concave area of the natural teeth for retention and no metal hook is needed. This type of denture is suitable for cases where the teeth of the lower jaw are not even.
 Cost>RM750

For a totally toothless patient, they may require a denture with up to fourteen teeth per jaw. Depending on the condition of the bone and teeth, removable denture may be loose and unstable. This may result in difficulty in chewing food. Over time, the bone that supports the denture will undergo resorption. When the bone resorption is severe, a new denture should be made.

B) FIXED/ NON-REMOVABLE

1) BRIDGE



It is commonly known as "planting tooth". The teeth beside the missing teeth area will be grinded into smaller size. The grinded teeth will be used as a support for the bridge. The bridge is made out of ceramic (with or without metal base). Bridge is fixed on the adjacent teeth. The patient cannot remove it.
 Cost: RM980-RM1200 per unit tooth depending on the material used.

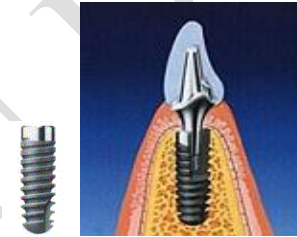
Advantages: more rigid, do not need to take out, feels more comfortable when chewing food.

Disadvantages: Need to grind the adjacent natural teeth. If one of the supporting teeth becomes loose, it will affect the other natural tooth.

BRIDGE MATERIALS:

1. Full metal: yellow/white yellowish (precious metal) or gray (non-precious metal).
2. Metal base covered/fused with tooth colored ceramic.
3. High strength porcelain only (non-metal)-Alumina or Zirconia base.
4. Special plastic.

2) **IMPLANT**— If you cannot get used to denture, then you may want to consider an implant. Implant is especially suitable for patients that do not want to grind down their healthy teeth (or in situation where the natural tooth structure is too weak to be grinded).

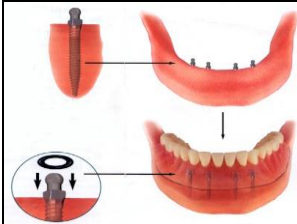


Normal Titanium Implant
 Cost: RM2900 (single root only)
 RM8000 (includes root, neck, crown), bone graft will cost extra 1600 to 3500.

Advantages: Rigid, durable.

Disadvantages: Traditional implant requires minor oral surgery. The time spent may be around "One tooth per hour" when the implant, neck and crown are placed on the same day. However, for most patients, it may take at least 3-6 months to complete the treatment.

MINI-IMPLANT



Mini-implant is more suitable to hold the lower full denture that is loose. Compare to the traditional implant, this procedure is simpler and it usually does not require minor oral surgery. It can be done in one hour and hence, it is cheaper. However, mini-implant is not as stable as the traditional implant.
 Cost : > RM1400 per implant.

Other way to close the gaps or replacing missing teeth:

Orthodontic treatment: Close the gap by slowly pulling the adjacent teeth close together.

Advantages: Orthodontic treatment can make space for the crowded/jam teeth area. The whole process does not involve any artificial tooth. The result is natural because it is merely adjusting the position of your natural tooth.

Disadvantages: Takes longer time (6-12 months); cost higher (> RM4000).

CONCLUSION

The function of the artificial tooth is not as good as your natural tooth. So please take good care of your own teeth. This can be done by attending a regular dental check-up (a check up around every 6 months). Regular checkup will help to keep your gums and teeth healthy as well as detecting any early problems such as gum disease and cavities. Dental checkup involves scaling and filling. Sometimes, the tooth does not necessary need to be extracted even when the tooth is painful.*All cost of treatments is just an estimate. If you have any enquiry, please consult your dentist.



IMPLANTS

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MAKLUMAT PESAKIT: MEMBUAT KEPUTUSAN BIJAK



Implant is the titanium root that put in the jaw bone to replace single missing tooth i.e crown or multiple unit bridge/denture.

Normally, minimal 3 visits along the course of implant is needed until final completion.

HOW LONG CAN IMPLANT LAST?

Implant can last up to a lifetime if it is well taken care of.

HOW TO START THE TREATMENT?

First visit: The doctor will take impressions (models) on the teeth/jaw and X-ray (OPG). The doctor will analyze and plan the method of treatment.



Second visit: Treatment plan will be discussed while other alternatives, time and cost will be discussed. Patient has the final decision whether to start the treatment or not.

Third visit: Implant screw is inserted into missing tooth area and healing is allowed to occur in a period of 3 to 4 months

Fourth visit : Impression of implant area is taken for crown construction

Fifth visit : Crown is cemented onto the implant abutment and the process is done

Front Teeth: Single unit crown or multiple unit bridge	
Back Teeth: Single unit crown or multiple unit bridge	Full mouth denture: removable of fixed to the implants

TYPES OF DENTAL IMPLANT

- Endosteal (in the bone): This is the most commonly used type of implant. Each implant holds one or more prosthetic teeth. This type of implant is generally used as an alternative for patients with bridges or removable dentures.
- Subperiosteal (on the bone): These are placed on top of the jaw with the metal framework's posts protruding through the gum to hold the prosthesis. These types of implants are used for patients who are unable to wear conventional dentures and who have minimal bone height.

ARE YOU A CANDIDATE FOR DENTAL IMPLANT?

The ideal candidate for a dental implant is in **good general and oral health**. Adequate bone in your jaw is needed to support the implant, and the best candidates have healthy gum tissues that are free of gum disease.

Heavy smokers, people suffering from uncontrolled chronic disorders -- such as diabetes or heart disease -- or patients who have had radiation therapy to the head/neck area need to be evaluated on an individual basis.



Old bridge on the real teeth: The root is rooteh and needs to be removed.. Today gold standard to replace missing teeth is by implant, not grinding the adjacent real teeth for support.

WHAT IS A DENTAL IMPLANT PROCEDURE LIKE?

- **Replacing a Single Tooth:** If you are missing a single tooth, one implant and a crown can replace it.
- **Replacing Several Teeth:** If you are missing several teeth, implant-supported bridges can replace them.
- **Replacing All of Your Teeth:** If you are missing all of your teeth, an implant-supported full bridge or full denture can replace them.

HOW LONG THE DURATION OF TREATMENT?

The whole dental treatment require 3 to 5 months for completion as it takes time for the implant screw to bind with the bone. Sinus augmentation case requires additional 1 to 2 months for healing to take place.

HOW OFTEN DO I NEED TO GO TO THE CLINIC?

COST

The cost will depend on the severity of the case, ranging from RM6000 to RM8000. Doctor can only give the estimation of the cost after detail examination. One piece implant especially for the lower front teeth (narrow space) is cheaper, less than RM4500. Payment by installment is allowed.



IS IT PAINFUL?

Dental implant is done under local anesthesia, in the same way a tooth extraction is done. There will be no pain during the course of inserting implant screw.

POTENTIAL SIDE EFFECT

Infection and Inflammation

There may be infection and inflammation in the areas surrounding the implant. This can be caused by not keeping your teeth clean

Rejection

The implant may be rejected by your immune system. People who smoke are more likely to reject their implant, so it's a good idea if you try to quit before having the surgery.

WHAT IS THE SUCCESS RATE OF IMPLANT?

As implant technology and researches improve, success rate for implant can be up to 95%



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