

DENTAL IMPLANTS

Dr. Tiba A. salman
M.Sc. prosthodontics



What are the treatment options available for replacing missing teeth???



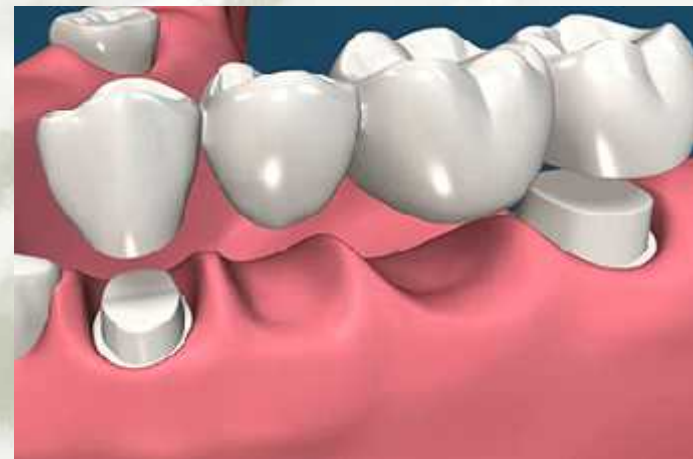
SINGLE/MULTIPLE MISSING TOOTH/TEETH



1. Removable Partial Denture



2. Fixed Partial Denture



DRAWBACKS



Recurrent carries

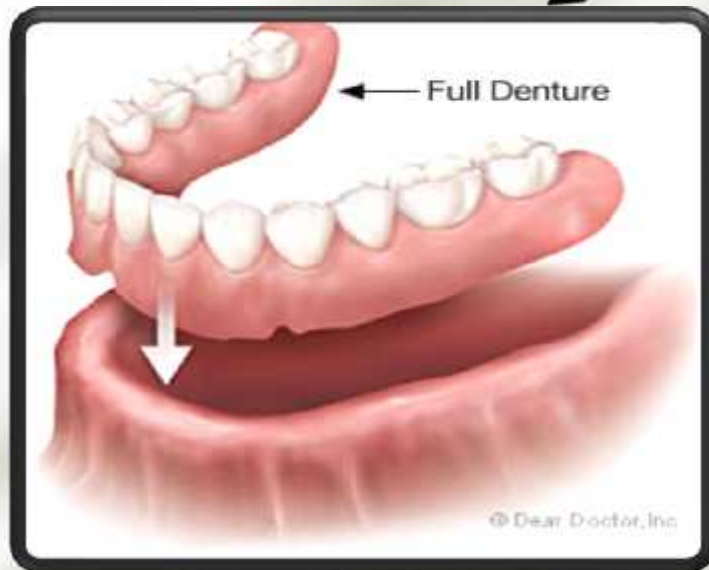


Chipping and fracture



Bulkiness

COMPLETELY EDENTULOUS PATIENT



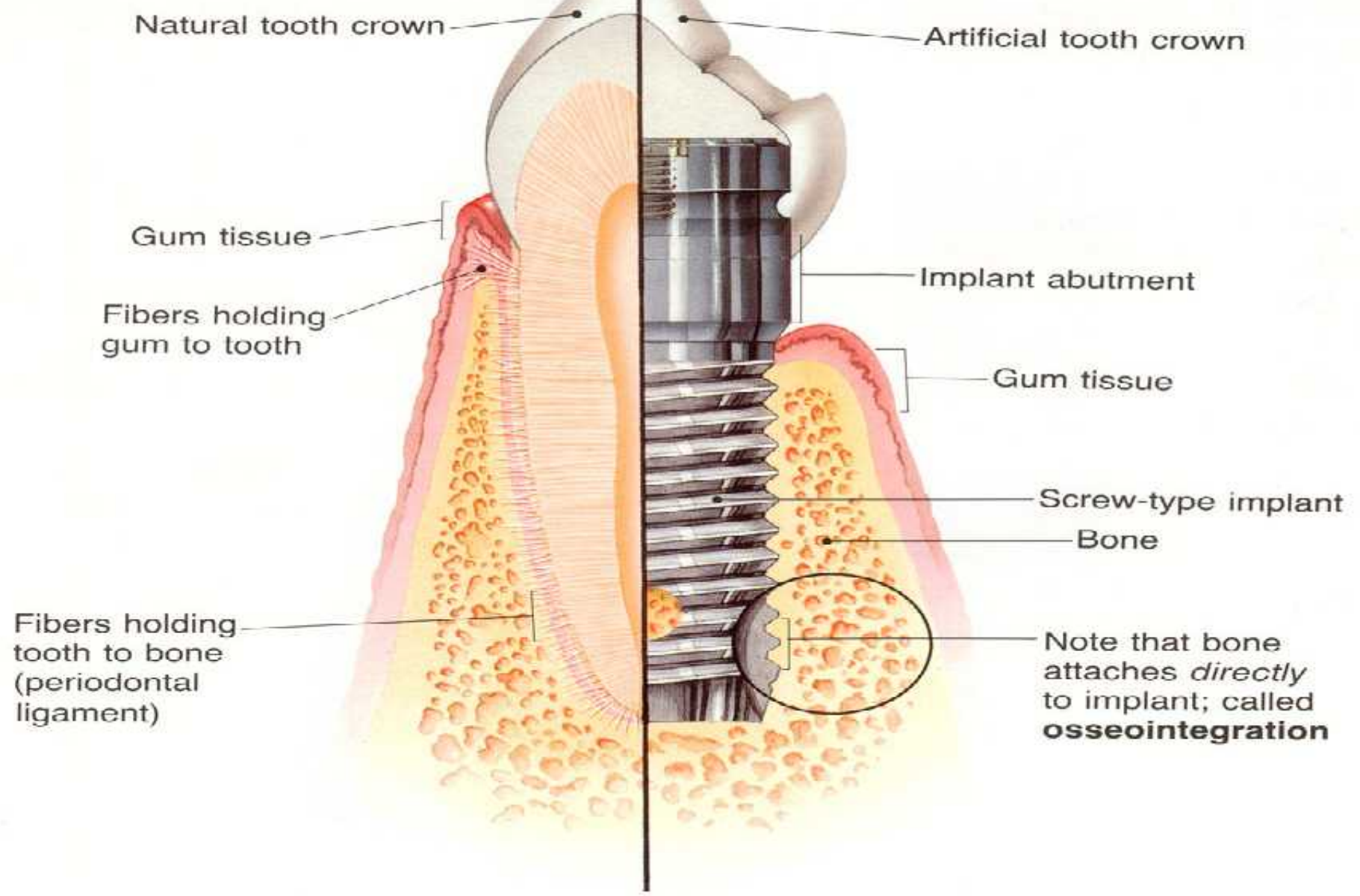
DENTAL IMPLANT



A prosthetic device or alloplastic material implanted into the oral tissue beneath the mucosal or/and periosteal layer and/ or in the bone to provide retention and support for the fixed and removable prosthesis.

HOW A NATURAL TOOTH ATTACHES TO BONE

HOW AN IMPLANT ATTACHES TO BONE



ADVANTAGES OF IMPLANT

1- maintenance of height and width of alveolar bone.



Bone Volume after Tooth Loss

Normal anatomy
(no tooth loss)



Bone begins to recede
after loss of teeth



Bone loss continues
without intervention



2- Overcome the drawbacks of removable prostheses.

3- Ideally esthetic tooth positioning.

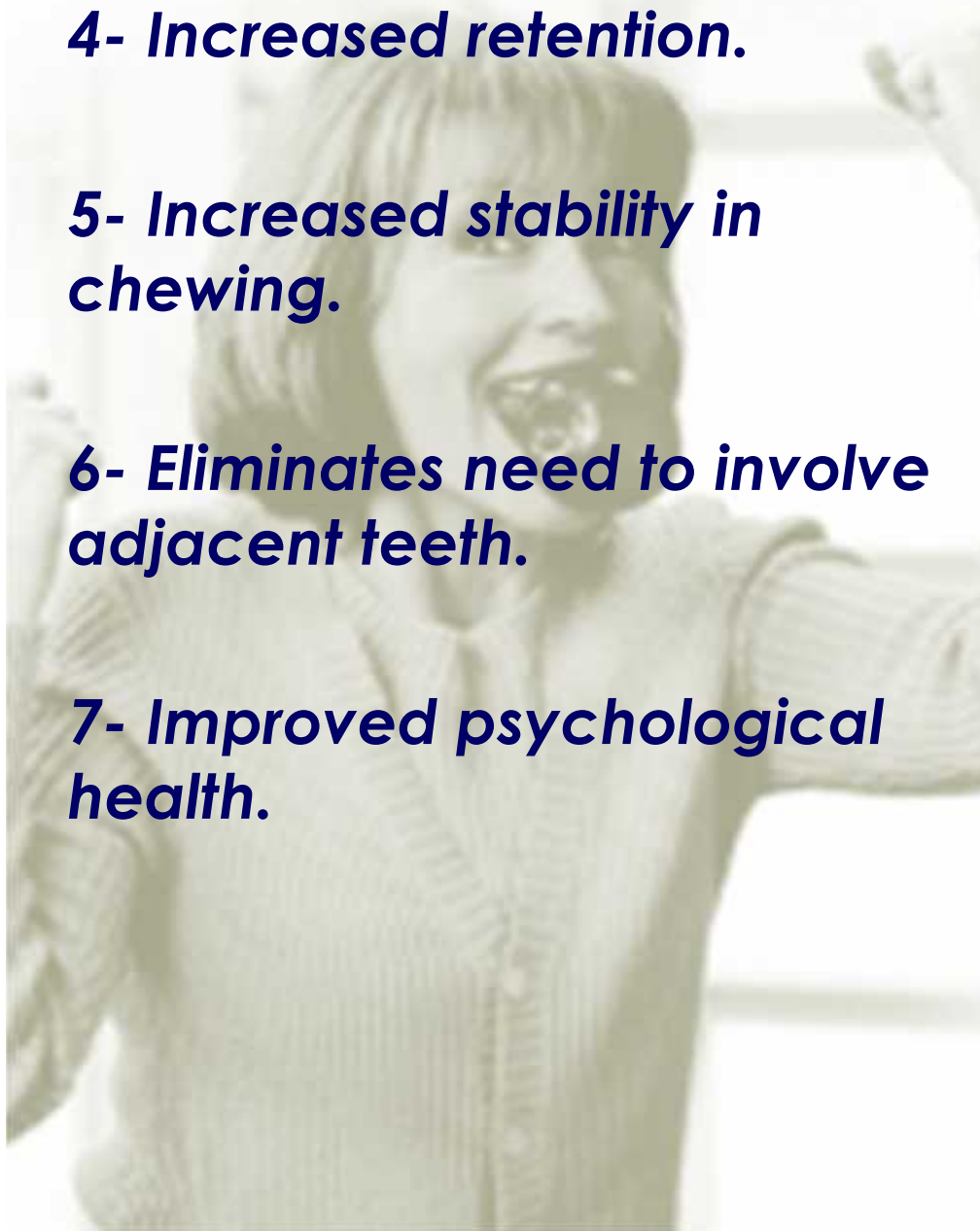


4- Increased retention.

5- Increased stability in chewing.

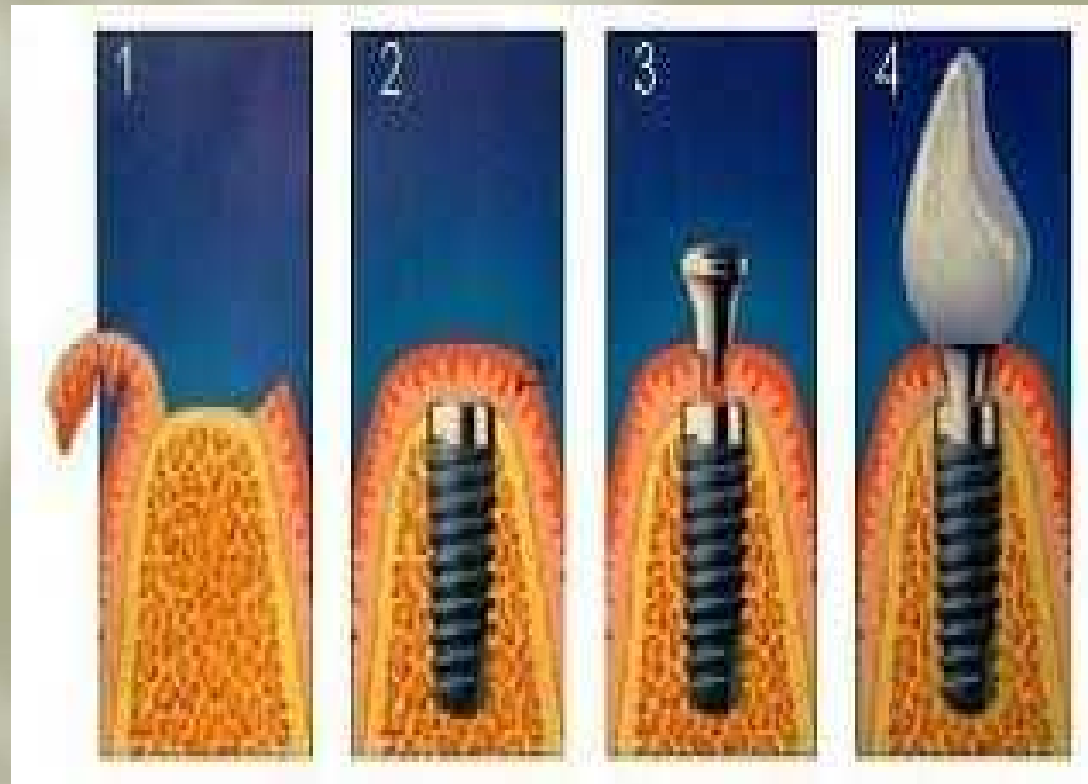
6- Eliminates need to involve adjacent teeth.

7- Improved psychological health.




Disadvantages of dental implant

- *Most expensive*
- *Time consuming procedure*
- *Adaptation of the bone tissue*

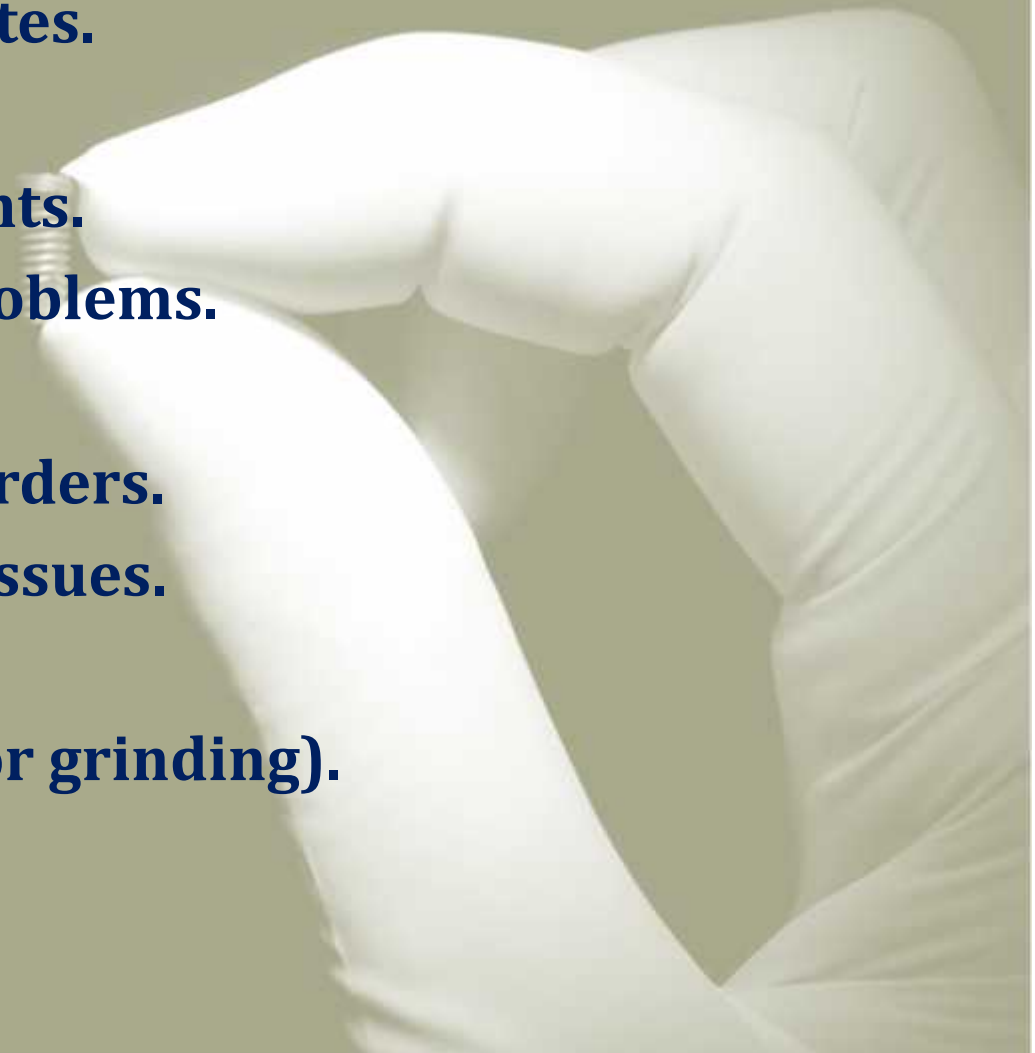


Who is indicated for dental implants?

- *Good general and oral health.*
 - *Adequate bone in the jaw to support the implant.*
 - *Healthy gum tissues that are free of periodontal disease.*
- 
- A close-up photograph of a hand holding a dental implant. The hand is positioned on the right side of the frame, with the thumb and index finger gripping the implant. The implant is a small, cylindrical metal component with a threaded section at the top. The background is a soft, out-of-focus light color.

Who is contraindicated for dental implants?

- **Uncontrolled Type II diabetes.**
- **High dose irradiated patients.**
- **Patient with psychiatric problems.**
- **Systemic Hematologic disorders.**
- **Pathology of hard or soft tissues.**
- **Bruxism (tooth clenching or grinding).**



LIMITATIONS



AGE LIMITATIONS

As a general rule, •
implant insertion is
delayed for female
patient till at least
15 years and in male
patients until 18 yrs
of age.



MESIO-DISTAL SPACE

A traditional 2 piece •
implant Should be atleast
1.5mm from an adjacent
tooth. When the implant is
closer than this, any bone
loss will cause the implant
and the adjacent tooth to
lose bone rapidly.

This will compromise the •
inter-proximal aesthetics
and sulcular health of the
implant and the natural
teeth.



BONE HEIGHT

When the bone height and width are insufficient , a bone graft • procedure may be performed.





Thank
You