Denture lining materials
Presents by

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1. To Improve the **fitness** of the denture.

2. To Provide a good **tolerance** of the denture in the patient mouth.

3- In cases of **maxillo-facial prosthesis**

4- To Provide a good tolerance for some cases of those patients undergoing **tissue sensitive to acrylic resin materials**, as in cases of immediate denture or **surgical wound** to reduce the pain and wound complain.

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Classification of Lining Materials

1- Hard lining materials •

2- Tissue conditioner •

3- Soft lining materials •
   A- Temporary Soft lining materials •
   B- Permanent Soft lining material •
Hard lining Materials

1-These materials have been used as a chair-side reline denture material.

2-They are supplied in the market as liquid and powder.

3-They have properties of cold-cured acrylic resin.

4-The material could be used as an impression, and as soon as the material become rubbery it should be removed from the patient mouth and allow to cure out of the patient mouth to avoid the exothermic effect.

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2- Tissue conditioner

1- This material is used to provide a temporary cushion to decrease mastication load and preserve the hard and soft tissue in case of surgical wound or ill-fitting denture.

2- It is used in chair-side technique by mixing the powder and liquid and react by physical process between the solvent and small polymer beads, that there is no monomer in the liquid nor initiator in the powder.

3- It will have a cushioning effect for a period of few days or two weeks maximum, so it need to be repeated periodically.

4- It has viscoelastic properties and may be used as a functional impression material in case of functional impression technique.
3- Soft Lining Material

These materials are present in two types:

a) Temporary soft lining

b) Permanent Soft Lining
a) Temporary soft lining

1- It is very similar to the tissue conditioner.

2- Supply as a powder and liquid.

3- Their cushioning effect remain for one or two months then it will harden.

4- It should be replaced frequently or periodically

5- It is used also to work as a testing material before using the permanent soft lining.
b) Permanent Soft Lining

It is used within the long life of the denture, it used with those patients who are not tolerate a hard denture And it presents in two types:

1- Heat curing silicone soft lining.

2- Cold curing silicone soft lining.
- Both types can be processed in the laboratory.

- The cold type can be used in the clinic but it may be preferable to make an impression and seated on the cast.

- Then mounted on articulator and send to the lab to open and relieve the inner surface of the denture.

- Then mix the material and add to the inner surface of the denture base and attach the upper and lower casts to the articulator for adaptation of occlusion.

So that the material will set indirectly not in contact with the soft tissues of the patient mouth.

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- The cold cured type is supplied as paste and liquid.

- May be present in a form of cart-ledge contain the material and this cart-ledge is seated on pressing tool like a gun that the mixed material exit after press through special plastic disposable nozzle. and can be used immediately in the clinic.

While the Heat cured type is supplied as powder and-liquid and can be used for new denture as lining material.
Requirements for permanent Soft Lining Material

1- Their function extend for a long time Permanent soft condition.

2- They are elastic and give cushioning effect.

3- Have ability to adhere with the denture base.

4- Non-toxic and non-irritant.

5- Not assist to growth of harmful bacteria or fungi in the oral cavity.
Thank you for your listening