

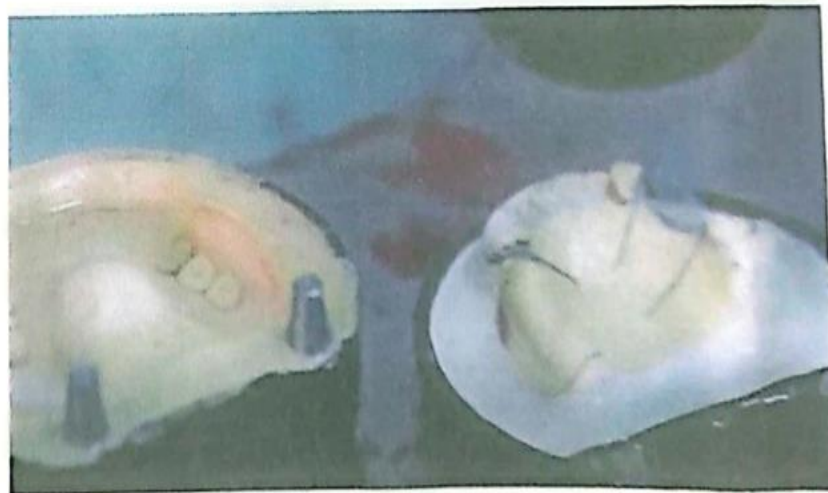
PARTIAL DENTURE
SUBMITTED BY: ASSIST LECTURER SAMAH KHALEEL

REMOVAL OF WAX PATTERN

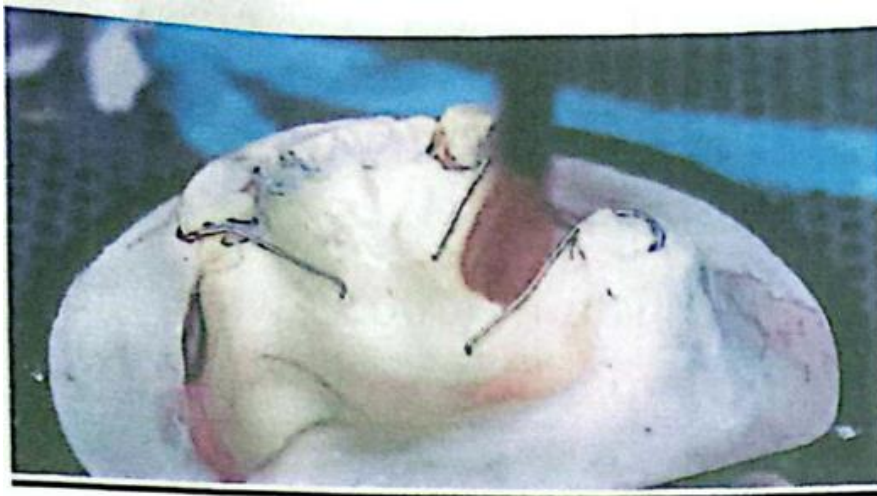
Flask is immersed in Wax Extraction Machine at (100°C water) for about (5min) to separate the wax from the teeth and allow the two sections of the flask to be opened.



- * The wax will be lifted out in one piece and the teeth will be left will prevent bonding of teeth to acrylic resin and prevent penetration of the separating media to plaster.
- * leave the flask to dry. Or put it in the side over (50°C) for about (2) hours.



Separation: When the mould is dry, a separating material paint on the surface of the stone is both sections of the flask.



Packing

The mixing should be done in a clean jar which should be covered to prevent the evaporation of the monomer. The ratio for powder liquid is 3:1 (Powder: Liquid) when reaching to dough stage acrylic is made as a ball and packed into the deep section of the flask, press to overfill all the mold by using a hydraulic press and then clamp is used with a metal flask for keeping it closed in an occluded manner.



CURING (PROCESSING OF ACRYLIC RESIN)

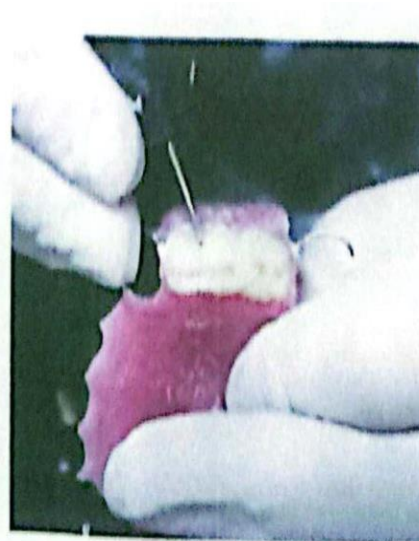
Two types of cure are used:

1. Rapid cure where the denture is held 12 hours, finally boiled for 30 min.
2. Slow cure at 70°C for 14-24 hours. usually we are using a water bath operator to reach this temperature if we use a higher temperature porosity will occur in the acrylic. Then flask removes from the processing bath and allow it to be cool.

Finishing and polishing

If we apply a separating material; correctly we will have a clean surface of the resin.

* The initial stage is to remove the excess acrylic resin at the edge of the denture by large stone bur fixed on the hand piece and remove acrylic resin nodules or sharp between teeth by using a fissure bur, followed by sandpaper to gain a smooth surface.



Polishing

Polishing is done by a rotating large bristle brush wet by dental lathe device with pumice, then use a proper wet paste or soap with cloth, when to have a final shiny mirror surface of the denture.



