Laboratory Project #3

Boxing and Pouring

In order to preserve the cast, including the rolls of the vestibules, for a complete denture case it is necessary to make a continuous land area around the whole periphery of the cast.

1. Trim the excess PVS off of the impressions. They must include the vestibular roll but not a lot of excess past it.

The impressions should look similar to these below after trimming.

Materials:
1. PVS impression
2. PVS adhesive
3. Rope Wax
4. Boxing Wax
5. Alcohol Torch
6. Waxing Spatula
2. PVS adhesive is applied to the external of the impression past the peripheral roll.

3. Attach and adhere two red rope wax layers to the adhesive to form a platform around the whole impression.

4. Use the torch and the waxing spatula to slightly melt and smooth the red rope wax. The wax is melted and blended in order to achieve a seal between the two red rope waxes and the PVS material.
The result should be smooth and continuous with no air pockets or holes. The tongue spaces should be closed with rope wax folded up as well.

5. Adapt a boxing wax strip to the periphery of the rope wax and then melt the corner of the boxing wax achieving a blended wax structure with a good seal. This will be used to pour up the master cast for the denture case so a seal is essential to containing the stone within the impression. When the stone is poured a base of 15 mm height is desired. Care should be used when handling the impressions so that the wax is not distorted nor the seal broken.
### Boxing and Pouring Evaluation Form

<table>
<thead>
<tr>
<th>Evaluation Criteria</th>
<th>Maxillary</th>
<th>Mandibular</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Beading wax 2 – 3mm below height of vestibule, secure</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>2. Beading wax is at a right angle to vestibule</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>3. Boxing wax is secure and diverging from tissue surface</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>4. All wax is secure, continuous and sealed with no voids</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td><strong>Boxing grade</strong></td>
<td>/ 5 pts</td>
<td>/ 5 pts</td>
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