SUMMARY:

Various methods have been described for controlling the thickness of soft denture lining materials. However the procedure described in this article has certain advantages. This study reveals the benefit of using a vacuum-formed spacer, because it permits a long-term soft lining with uniform thickness for brand new, old, complete or partial dentures.

Key words: vacuum-formed spacer, lining materials

INTRODUCTION:

There are different suggestions about the denture liner thickness. Although they vary, depending on the material, used for this purpose, the recommended thickness is about two mm. Usually as spacers wax, self-curing resin, putty silicones etc. are used. Soon these methods reveal their lack of accuracy and now are considered to be unreliable. The following material describes a simple method for obtaining an uniform thickness of the lining materials, using a vacuum-formed, thermoplastic blank as a spacer.

METHOD AND MATERIALS:

3 complete dentures for the upper jaw and 5 for lower jaw were made. Later on the dentures were cut in the incisors, premolar and molar area and relining thickness was established. The results are shown on tabl.1.

<table>
<thead>
<tr>
<th>No.</th>
<th>Cut area (tooth)</th>
<th>Cut thickness</th>
<th>Deviation</th>
<th>Average value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>2.23</td>
<td>0.23</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>25</td>
<td>2.19</td>
<td>0.19</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>17</td>
<td>2.18</td>
<td>0.18</td>
<td></td>
</tr>
<tr>
<td>4</td>
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<td>0.40</td>
<td></td>
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<tr>
<td>6</td>
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<td>8</td>
<td>31</td>
<td>2.31</td>
<td>0.31</td>
<td></td>
</tr>
</tbody>
</table>

The results are compared with the recommended thickness of 2 mm.

One must emphasize that in the first method, when new dentures are made the height of the bite has to be 2 mm lower than the one clinically obtained. After finishing the dentures in the usual way from PMMA, we open the two parts of the flask, put in the soft lining material and close, but before that we place two 20 st. coins, guaranteeing the desired thickness of 2 mm. We wait for the polymerizing process to come to an end and polish (pic. 1).

We would like to draw your attention to the second method. After taking the functional impression and pouring the working cast:

1. Before flasking, we form a thermoplastic blank (SDI) over the cast using a vacuum device “Erko-form” (Erkodent-Germany), (pic.2).

2. After the denture has been flanked and boiled out in the usual manner, place the vacuum-formed spacer in position on the lower cast with a thin sheet of packing plastic between the spacer and the mixed acrylic resin.

3. Tighten the flask in a bench press and leave it for at least two hours. This will allow the acrylic resin to stiff-
4. Open the flask and remove the sheet of packing plastic and the spacer.

5. Add the unpolymerized soft lining material to the top half of the flask, containing the acrylic resin, press again and wait the end of the polymerization.

6. Open the flask and polish in the usual way.

This method is suitable for either new or old, partial and complete dentures, for upper and lower jaws.

CONCLUSION
There are different methods of obtaining and controlling the thickness of the relining materials. The second method has the following advantages:
1. The spacer can be made very fast and very easy.
2. At the same time the distance between the plastic teeth and the mold can be easily determined, because the spacer is totally transparent.
3. There is a very little chance of failure, because the soft lining material (Eversoft-Austenal) and the denture base have the similar chemical structure.
4. Fracturing such dentures is very much unlikely, because the thickness is previously determined and equal everywere.

REFERENCES:

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