DPBRN Study 13: Longitudinal study of questionable occlusal caries lesions

Results: Overall and by region - Graphs

Date Prepared: April 27, 2012
Results from 24-month Follow-Up

1. Is the practitioner who is filling out this form today the same one who enrolled the questionable lesions on the original treatment date?

   a. □ Yes
   b. □ No

Question 1: Same practitioner

- Overall, 87% of practitioners were the same ones who enrolled the lesions originally; higher in AL/MS and FL/GA (95-99%) and lower in MN (69%) and PDA (79%).
2. Is this visit due to a problem with this specific tooth?

a. □ Yes
b. □ No

Only about 1% of patients were being treated due to a problem with the specific tooth.
3. Currently, this lesion is:

a. Being monitored with oral hygiene instruction and/or fluoride treatment
b. Sealed
c. Restored

### Question 3: Current condition of lesion

- The majority of lesions were currently being monitored at approximately 71% overall with PDA being much lower at 3%.
- Overall, 18% of lesions were being sealed, much higher with PDA at approximately 66%.
4. Which **one** best describes the luster of the questionable area today?

a. Chalky appearance
b. Shiny appearance

**Question 4: Luster appearance**

- Overall, about 60% of lesions were described as having a shiny luster.

**NOTE:** Because PDA only had one response for this question, their data is not reflected in the graph.
5. Which **one** best describes the color of the questionable area today?

a. □ Opaque  
b. □ White spot  
c. □ Yellow/light brown discoloration  
d. □ Dark brown/black discoloration  
e. □ Other ____________________

**Question 5: Color of questionable area**

- Overall, approximately 49% of lesions were of a yellow/light brown color and 35% were dark brown/black color; fewer were lighter in color.

NOTE: Because PDA only had one response for this question, their data is not reflected in the graph.
6. When you used a dental explorer, did you experience roughness of the enamel surface upon light exploration?

a. □ Yes  
b. □ No

**Question 6: Roughness when using dental explorer**

- When using the dental explorer, practitioners experienced roughness on about 35% of lesions.

**NOTE:** Because PDA only had one response for this question, their data is not reflected in the graph.
7. When you used a dental explorer, did you experience retention of the explorer in a groove or fissure?

a. [ ] Yes-Slight stick
b. [ ] Yes-Resistance to removal
c. [ ] No

When using the dental explorer, practitioners experienced slight retention on less than 11% and resistance on less than 2%.

**Question 7: Retention when using dental explorer**

<table>
<thead>
<tr>
<th></th>
<th>AL/MS</th>
<th>FL/GA</th>
<th>MN</th>
<th>SK</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes - Slight stick</td>
<td>21.6</td>
<td>12.1</td>
<td>19.7</td>
<td>6.4</td>
<td>10.9</td>
</tr>
<tr>
<td>Yes - resistance</td>
<td>4.9</td>
<td>2.1</td>
<td>0.0</td>
<td>1.0</td>
<td>1.6</td>
</tr>
<tr>
<td>No</td>
<td>73.5</td>
<td>85.8</td>
<td>80.3</td>
<td>92.7</td>
<td>87.5</td>
</tr>
</tbody>
</table>

*NOTE: Because PDA only had one response for this question, their data is not reflected in the graph.*
8. Sealant rating: rate the sealant as “Acceptable” or “Repair or Replace”
   a. ☐ Acceptable-No further clinical action is needed, please indicate if you adjusted the sealant
      Did you grind or adjust to improve the sealant today?
      A ☐ Yes  B ☐ No
   b. ☐ Repair or replace-Clinical action is needed

- The sealant was rated as acceptable for 93% of lesions.
10. Restoration: rate the restoration as “Acceptable” or “Repair or Replace”

a. □ Acceptable-No further clinical action is needed, please indicate if you adjusted the restoration

Did you grind or adjust to improve the restoration today?

A □ Yes B □ No

b. □ Repair or replace-Clinical action is needed

Overall, about 97% of restorations were acceptable.