Dear Colleague,

Thank you for your participation in the network study “Decision Aids for the Management of Suspicious Occlusal Caries Lesions”.

In the subsequent pages you will be presented with a series of clinical cases that include photos and descriptions of a patient’s tooth. For each case you will be asked how likely it is that the suspicious area extends into dentin. We are studying the influence that these 3 or 4 factors have on dentists’ decisions. You will see the same tooth several times but each time the risk factors or clinical findings will be different. Please review each tooth/case with its unique combination of factors and then choose your preferred recommendation for the treatment of the suspicious area. We prefer that you complete the cases in one sitting.

In all cases, these are new patients who plan on becoming patients in your office for regular care in the future. The patients have no complaints, no relevant medical history, and are in your office today for an initial exam. Each patient has been assigned a risk category based on a combination of commonly used risk factors including age, caries history, oral hygiene, etc. The surface of the tooth has been assigned a texture category based on the feel of a probe on the occlusal surface. The radiograph(s) you have available indicates no evidence of caries into dentin. The occlusal surface has no previous restoration or sealant and has no symptoms of sensitivity to sweets, cold, air, etc. The tooth has been air dried for approximately 5 seconds.

Following the case presentation you will be presented with a Post Study Questionnaire that will ask for your feedback on the general conduct of the study and use of the devices (if you were in the device arm).

Our pretesting suggests that it will only take between 10 and 20 minutes total to complete all of the cases and about 5 minutes to complete the Post Study Questionnaire for which you or your practice organization will receive $75 as compensation. However, if you are unable to complete them in one sitting, you do have the option to save and continue at another time. We ask that you complete the task within 7 days of receiving this request.

Your participation and responses will remain confidential. Only authorized study personnel will have access to data. All information will be stored in a secure manner. Your information will not be sold, used for any reason other than research, released to any insurance company, or released to any other similar interest. Information from this questionnaire and other network studies that you complete or have completed, may be linked using your assigned practitioner ID number. This will allow us to see how characteristics from each study might be related to each other.

Results may be published for scientific purposes, but your identity will not be revealed. Only statistical summaries will be presented. The University of Alabama at Birmingham (UAB) Institutional Review Board (IRB) maintains the authority to inspect completed questionnaires to ensure compliance with IRB procedures. If you have any additional questions, please contact your Regional Coordinator.

If you have questions about your rights as a research participant, you may contact the UAB IRB at (205) 934-3789 or (800) 822-8816. Press option #1 for the operator and request extension 4-3789 (M-F, 8:00 AM - 5:00 PM Central Time).
With regards,
Gregg Gilbert, DDS, MBA, FAAHD, FICD
National Network Director
The National Dental Practice-Based Research Network
Instructions

The following instructions will help you complete this exercise.

- For each scenario designate how likely it is that the suspicious area extends into dentin by moving the slider to the desired position on the scale between not at all likely and very likely. **The slider must be moved (even if back to 0) in order to indicate a response.**
- You will then choose your preferred recommendation for the treatment of the suspicious area. You can only choose one recommendation.
- **You will also be presented with a slider as part of the Post Study Questionnaire.** The slider must be moved (even if back to 0) in order to indicate a response.
- **Use the “Forward” and “Back” buttons within the survey to move forward and backward throughout the survey. DO NOT use the forward and back arrows at the top left corner of your internet browser screen.**
- On occasion, if you forget to answer a question or provide an answer that is invalid, you may see a message highlighted in yellow that provides information on how to fix the problem.
- Press the “Save and Continue Later” button if you wish to save your answers and complete the survey at a later time.
- The survey will “time out” after 30 minutes of no activity. The next time you log in, you will be returned to the last screen you were on.
- You can come back to the survey either by returning to:
  - The link sent previously by email. You will automatically return to the last screen you were on; or
  - [www.SOCIstudy.com/Post Study Vignette](http://www.SOCIstudy.com/Post Study Vignette) and re-enter the same code you used when starting the survey. You will automatically return to the last screen you were on.
- **We recommend that you do not use a small mobile device (cellular phone or tablet) to complete this questionnaire.**
- We recommend that **you use the same computer** that was used to complete the survey at the beginning of the study.
- Feel free to adjust the angle of the computer to get the best view of the photo, similar to a clinical setting.
How likely is it that this suspicious area extends into dentin?

Not at all likely                                                                   Very likely

The results for the rating above range from 0-100.

The results for the question below were divided into 2 parts: non-invasive and invasive.

Which of the following treatments would be your preferred recommendation for this suspicious area (please choose one)?

- No treatment today, follow the patient regularly  **NON-INVASIVE**
- Preventive treatment: OHI, in-office fluoride varnish or gel; non-prescription fluoride; prescription for fluoride rinse/paste; or chlorhexidine treatment  **NON-INVASIVE**
- Sealant or unfilled resin (tooth structure **not** altered)  **NON-INVASIVE**
- Sealant (minimal drilling or air abrasion)  **INVASIVE**
- Preventive resin (minimal drilling or air abrasion)  **INVASIVE**
- Direct restoration (amalgam or composite)  **INVASIVE**
You consider this patient to be at _low_ risk for caries. Upon examination, the suspicious areas feel _smooth_.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 50% sealant (minimal drilling or air abrasion)
- **Midwest**: 67% no treatment
- **Southwest**: 33% preventive; sealant (minimal drilling or air abrasion); full restoration
- **South Central**: 50% preventive resin restoration
- **South Atlantic**: 60% preventive resin restoration
- **Northeast**: 75% no treatment
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel rough.

The highest percentages for specific treatment in each region were as follows:

- Western: 50% preventive resin restoration
- Midwest: 33% no treatment, sealant; sealant (minimal drilling or air abrasion)
- Southwest: 67% full restoration
- South Central: 67% preventive resin restoration
- South Atlantic: 40% preventive resin restoration
- Northeast: 50% preventive resin restoration
You consider this patient to be at elevated risk for caries. Upon examination, the suspicious areas feel smooth.

The highest percentages for specific treatment in each region were as follows:

- Western: 50% preventive resin restoration
- Midwest: 67% sealant
- Southwest: 50% preventive resin restoration
- South Central: 83% preventive resin restoration
- South Atlantic: 40% no treatment; preventive resin restoration
- Northeast: 50% preventive resin restoration
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *rough*.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 50% full restoration
- **Midwest**: 67% no treatment
- **Southwest**: 83% full restoration
- **South Central**: 50% preventive resin restoration; full restoration
- **South Atlantic**: 60% preventive resin restoration
- **Northeast**: 50% full restoration
You consider this patient to be at *low* risk for caries. Upon examination, the suspicious areas feel *smooth*.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 75% preventive
- **Midwest**: 67% no treatment
- **Southwest**: 33% sealant (minimal drilling or air abrasion)
- **South Central**: 66% no treatment; preventive
- **South Atlantic**: 60% no treatment
- **Northeast**: 50% no treatment
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel rough.

The highest percentages for specific treatment in each region were as follows:

- Western: 50% preventive
- Midwest: 33% preventive; sealant; sealant (minimal drilling or air abrasion)
- Southwest: 33% sealant (minimal drilling or air abrasion)
- South Central: 50% preventive resin restoration
- South Atlantic: 40% preventive resin restoration
- Northeast: 50% preventive resin restoration
You consider this patient to be at elevated risk for caries. Upon examination, the suspicious areas feel smooth.

The highest percentages for specific treatment in each region were as follows:

- Western: 50% sealant (minimal drilling or air abrasion)
- Midwest: 33% no treatment; sealant; sealant (minimal drilling or air abrasion)
- Southwest: 39% sealant (minimal drilling or air abrasion)
- South Central: 67% preventive resin restoration
- South Atlantic: 40% preventive; preventive resin restoration
- Northeast: 50% preventive
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *rough*.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 50% sealant (minimal drilling or air abrasion)
- **Midwest**: 67% preventive resin restoration
- **Southwest**: 50% full restoration
- **South Central**: 83% preventive resin restoration
- **South Atlantic**: 40% preventive resin restoration
- **Northeast**: 50% full restoration
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel smooth.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 50% sealant (minimal drilling or air abrasion)
- **Midwest**: 67% no treatment
- **Southwest**: 33% preventive resin restoration; full restoration
- **South Central**: 33% no treatment; full restoration
- **South Atlantic**: 40% preventive resin restoration
- **Northeast**: 50% preventive resin restoration
You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **rough**.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 25% sealant; sealant (minimal drilling or air abrasion); preventive resin restoration, full restoration
- **Midwest**: 33% preventive; sealant; full restoration
- **Southwest**: 33% preventive resin restoration; full restoration
- **South Central**: 50% preventive resin restoration
- **South Atlantic**: 40% preventive; preventive resin restoration
- **Northeast**: 75% full restoration
You consider this patient to be at **elevated** risk for caries. Upon examination, the suspicious areas feel **smooth**.

The highest percentages for specific treatment in each region were as follows:

- Western: 50% preventive resin restoration
- Midwest: 33% no treatment; sealant; full restoration
- Southwest: 33% sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
- South Central: 50% no treatment
- South Atlantic: 60% preventive resin restoration
- Northeast: 75% preventive resin restoration
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *rough*.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 50% preventive resin restoration
- **Midwest**: 67% full restoration
- **Southwest**: 50% full restoration
- **South Central**: 50% full restoration
- **South Atlantic**: 40% sealant (minimal drilling or air abrasion); preventive resin restoration
- **Northeast**: 75% full restoration
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel smooth.

The highest percentages for specific treatment in each region were as follows:

- Western: 50% sealant (minimal drilling or air abrasion)
- Midwest: 67% no treatment
- Southwest: 67% full restoration
- South Central: 83% preventive resin restoration
- South Atlantic: 60% full restoration
- Northeast: 75% preventive
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel rough.

The highest percentages for specific treatment in each region were as follows:
- Western: 50% preventive resin restoration
- Midwest: 67% full restoration
- Southwest: 83% full restoration
- South Central: 83% preventive resin restoration
- South Atlantic: 60% full restoration
- Northeast: 50% full restoration
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *smooth*.

The highest percentages for specific treatment in each region were as follows:
- Western: 50% full restoration
- Midwest: 67% full restoration
- Southwest: 67% full restoration
- South Central: 67% full restoration
- South Atlantic: 60% full restoration
- Northeast: 50% full restoration
The highest percentages for specific treatment in each region were as follows:

- Western: 75% full restoration
- Midwest: 67% full restoration
- Southwest: 83% full restoration
- South Central: 50% preventive resin restoration; full restoration
- South Atlantic: 60% full restoration
- Northeast: 75% full restoration

You consider this patient to be at elevated risk for caries. Upon examination, the suspicious areas feel rough.
Dear Colleague,

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Your participation and responses will remain confidential. Only authorized study personnel will have access to data. All information will be stored in a secure manner. Your information will not be sold, used for any reason other than research, released to any insurance company, or released to any other similar interest. Information from this questionnaire and other network studies that you complete or have completed, may be linked using your assigned practitioner ID number. This will allow us to see how characteristics from each study might be related to each other.

Results may be published for scientific purposes, but your identity will not be revealed. Only statistical summaries will be presented. The University of Alabama at Birmingham (UAB) Institutional Review Board (IRB) maintains the authority to inspect completed questionnaires to ensure compliance with IRB procedures. If you have any additional questions, please contact your Regional Coordinator.
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National Network Director
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- Feel free to adjust the angle of the computer to get the best view of the photo, similar to a clinical setting.
How likely is it that this suspicious area extends into dentin?

Not at all likely                               Very likely

The results for the rating above range from 0-100.

The results for the question below were divided into 2 parts: non-invasive and invasive.

Which of the following treatments would be your preferred recommendation for this suspicious area (please choose one)?

- No treatment today, follow the patient regularly **NON-INVASIVE**
- Preventive treatment: OHI, in-office fluoride varnish or gel; non-prescription fluoride; prescription for fluoride rinse/paste; or chlorhexidine treatment **NON-INVASIVE**
- Sealant or unfilled resin (tooth structure **not** altered) **NON-INVASIVE**
- Sealant (minimal drilling or air abrasion) **INVASIVE**
- Preventive resin (minimal drilling or air abrasion) **INVASIVE**
- Direct restoration (amalgam or composite) **INVASIVE**
“Doppler Radar” for Caries Detection

A Picture is Worth a Thousand Words

Analysis of Spectra images Color Scale and Diagnostic Value

![Spectra image with color scale and diagnostic values]

- **Sound Enamel**
- **Initial Caries; Beginning Enamel Caries**
- **Dentin Caries**
- **Deep Dentin Caries**
- **Deep Enamel Caries**
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel smooth. The Spectra reading was 1.5.

The highest percentages for specific treatment in each region were as follows:

- Western: 50% preventive treatment
- Midwest: 33% no treatment; sealant; sealant (minimal drilling or air abrasion)
- Southwest: 33% preventive treatment; preventive resin restoration
- South Central: 60% full restoration
- South Atlantic: 50% no treatment
- Northeast: 40% no treatment
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel rough. The Spectra reading was 1.5.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 50% sealant (minimal drilling or air abrasion)
- **Midwest**: 67% sealant (minimal drilling or air abrasion)
- **Southwest**: 60% full restoration
- **South Central**: 33% sealant (minimal drilling or air abrasion); full restoration
- **South Atlantic**: 25% no treatment; preventive treatment; preventive resin restoration; full restoration
- **Northeast**: 40% full restoration
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *smooth*. The Spectra reading was 1.5.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 50% preventive treatment
- **Midwest**: 33% preventive treatment; sealant (minimal drilling or air abrasion); preventive resin restoration
- **Southwest**: 40% preventive resin restoration; full restoration
- **South Central**: 33% sealant (minimal drilling or air abrasion); full restoration
- **South Atlantic**: 25% no treatment; preventive treatment; sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
- **Northeast**: 40% preventive resin restoration
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *rough*. The Spectra reading was 1.5.

The highest percentages for specific treatment in each region were as follows:
- **Western**: 25% preventive treatment; sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
- **Midwest**: 67% sealant (minimal drilling or air abrasion)
- **Southwest**: 60% full restoration
- **South Central**: 50% preventive resin restoration
- **South Atlantic**: 25% preventive treatment; sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
- **Northeast**: 40% full restoration
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel smooth. The Spectra reading was 1.5.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 75% preventive treatment
- **Midwest**: 33% no treatment; preventive treatment; sealant
- **Southwest**: 60% preventive resin restoration
- **South Central**: 33% no treatment; preventive resin restoration
- **South Atlantic**: 75% no treatment
- **Northeast**: 80% no treatment
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel rough. The Spectra reading was 1.5.

The highest percentages for specific treatment in each region were as follows:

- Western: 50% preventive treatment
- Midwest: 67% sealant (minimal drilling or air abrasion)
- Southwest: 60% preventive resin restoration
- South Central: 33% no treatment; sealant (minimal drilling or air abrasion); preventive resin restoration
- South Atlantic: 50% no treatment
- Northeast: 40% no treatment; preventive resin restoration
You consider this patient to be at **elevated** risk for caries. Upon examination, the suspicious areas feel **smooth**. The Spectra reading was 1.5.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 75% preventive treatment
- **Midwest**: 67% sealant (minimal drilling or air abrasion)
- **Southwest**: 40% preventive resin restoration
- **South Central**: 33% preventive treatment; preventive resin restoration
- **South Atlantic**: 50% no treatment
- **Northeast**: 40% no treatment
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *rough*. The Spectra reading was 1.5.

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- **Western**: 50% preventive treatment
- **Midwest**: 67% sealant (minimal drilling or air abrasion)
- **Southwest**: 40% preventive resin restoration; full restoration
- **South Central**: 50% preventive resin restoration
- **South Atlantic**: 50% preventive treatment
- **Northeast**: 40% preventive resin restoration
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel smooth. The Spectra reading was 1.5.

The highest percentages for specific treatment in each region were as follows:

- Western: 75% preventive treatment
- Midwest: 100% sealant (minimal drilling or air abrasion)
- Southwest: 20% no treatment; sealant; sealant (minimal drilling or air abrasion); preventive resin restoration
- South Central: 33% no treatment; preventive treatment; preventive resin restoration
- South Atlantic: 75% no treatment
- Northeast: 60% no treatment
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel rough. The Spectra reading was 1.5.

The highest percentages for specific treatment in each region were as follows:

- Western: 50% sealant (minimal drilling or air abrasion)
- Midwest: 100% sealant (minimal drilling or air abrasion)
- Southwest: 40% preventive resin restoration
- South Central: 50% preventive resin restoration
- South Atlantic: 50% sealant (minimal drilling or air abrasion)
- Northeast: 40% preventive resin restoration
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The highest percentages for specific treatment in each region were as follows:

- Western: 50% preventive resin restoration
- Midwest: 67% sealant (minimal drilling or air abrasion)
- Southwest: 40% preventive resin restoration; full restoration
- South Central: 50% full restoration
- South Atlantic: 50% preventive treatment; sealant (minimal drilling or air abrasion)
- Northeast: 60% preventive treatment
You consider this patient to be at **elevated** risk for caries. Upon examination, the suspicious areas feel **rough**. The Spectra reading was 1.5.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 25% preventive treatment; sealant; preventive resin restoration
- **Midwest**: 33% sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
- **Southwest**: 60% preventive resin restoration
- **South Central**: 50% preventive resin restoration
- **South Atlantic**: 50% preventive treatment
- **Northeast**: 40% preventive resin restoration
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel smooth. The Spectra reading was 1.5.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 100% preventive treatment
- **Midwest**: 100% sealant (minimal drilling or air abrasion)
- **Southwest**: 60% full restoration
- **South Central**: 33% no treatment; preventive resin restoration
- **South Atlantic**: 25% no treatment; preventive treatment; preventive resin restoration; full restoration
- **Northeast**: 40% preventive resin restoration
You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **rough**. The Spectra reading was 1.5.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 25% preventive treatment; sealant; preventive resin restoration; full restoration
- **Midwest**: 67% sealant (minimal drilling or air abrasion)
- **Southwest**: 60% full restoration
- **South Central**: 50% preventive resin restoration
- **South Atlantic**: 25% no treatment; preventive treatment; sealant (minimal drilling or air abrasion); full restoration
- **Northeast**: 40% full restoration
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *smooth*. The Spectra reading was 1.5.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 50% preventive treatment; preventive resin restoration
- **Midwest**: 67% sealant (minimal drilling or air abrasion)
- **Southwest**: 60% preventive resin restoration
- **South Central**: 50% preventive resin restoration
- **South Atlantic**: 25% no treatment; preventive treatment; preventive resin restoration; full restoration
- **Northeast**: 60% full restoration
You consider this patient to be at elevated risk for caries. Upon examination, the suspicious areas feel rough. The Spectra reading was 1.5.

The highest percentages for specific treatment in each region were as follows:

- Western: 50% preventive resin restoration
- Midwest: 33% sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
- Southwest: 60% full restoration
- South Central: 50% full restoration
- South Atlantic: 25% preventive treatment; sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
- Northeast: 40% full restoration
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel smooth. The Spectra reading was 2.25.

The highest percentages for specific treatment in each region were as follows:

- Western: 50% preventive resin restoration
- Midwest: 67% full restoration
- Southwest: 80% full restoration
- South Central: 33% no treatment; full restoration
- South Atlantic: 25% no treatment; preventive treatment; sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
- Northeast: 40% preventive resin restoration
You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **rough**. The Spectra reading was 2.25.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 50% full restoration
- **Midwest**: 33% sealant; sealant (minimal drilling or air abrasion); full restoration
- **Southwest**: 80% full restoration
- **South Central**: 50% full restoration
- **South Atlantic**: 50% sealant (minimal drilling or air abrasion)
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- **Western**: 50% preventive treatment
- **Midwest**: 33% preventive treatment; sealant (minimal drilling or air abrasion); full restoration
- **Southwest**: 80% preventive resin restoration
- **South Central**: 33% no treatment
- **South Atlantic**: 25% preventive treatment; sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
- **Northeast**: 40% preventive treatment; preventive resin restoration
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel rough. The Spectra reading was 2.25.

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- Western: 50% preventive treatment
- Midwest: 67% sealant (minimal drilling or air abrasion)
- Southwest: 80% full restoration
- South Central: 50% preventive resin restoration
- South Atlantic: 50% preventive treatment
- Northeast: 40% preventive resin restoration
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- **Southwest**: 60% full restoration
- **South Central**: 33% preventive treatment; preventive resin restoration; full restoration
- **South Atlantic**: 50% preventive treatment; preventive resin restoration
- **Northeast**: 20% no treatment; preventive treatment; sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
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- Southwest: 40% preventive resin restoration; full restoration
- South Central: 50% full restoration
- South Atlantic: 50% preventive treatment
- Northeast: 80% full restoration
You consider this patient to be at elevated risk for caries. Upon examination, the suspicious areas feel smooth. The Spectra reading was 2.25.

The highest percentages for specific treatment in each region were as follows:
- Western: 50% preventive resin restoration
- Midwest: 33% sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
- Southwest: 80% full restoration
- South Central: 50% full restoration
- South Atlantic: 50% no treatment; preventive resin restoration
- Northeast: 60% full restoration
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel rough. The Spectra reading was 2.25.

The highest percentages for specific treatment in each region were as follows:

- Western: 50% full restoration
- Midwest: 33% sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
- Southwest: 60% full restoration
- South Central: 67% full restoration
- South Atlantic: 50% preventive treatment
- Northeast: 40% full restoration
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *rough*. The Spectra reading was 2.25.

The highest percentages for specific treatment in each region were as follows:

- Western: 75% full restoration
- Midwest: 67% full restoration
- Southwest: 100% full restoration
- South Central: 67% full restoration
- South Atlantic: 75% full restoration
- Northeast: 60% full restoration
You consider this patient to be at *low* risk for caries. Upon examination, the suspicious areas feel *smooth*. The Spectra reading was 2.25.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 50% preventive treatment; preventive resin restoration
- **Midwest**: 67% full restoration
- **Southwest**: 60% full restoration
- **South Central**: 50% preventive resin restoration; full restoration
- **South Atlantic**: 50% preventive resin restoration
- **Northeast**: 80% full restoration
You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **rough**. The Spectra reading was 2.25.

The highest percentages for specific treatment in each region were as follows:

- Western: 50% full restoration
- Midwest: 33% sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
- Southwest: 60% full restoration
- South Central: 50% preventive resin restoration; full restoration
- South Atlantic: 50% full restoration
- Northeast: 80% full restoration
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *smooth*. The Spectra reading was 2.25.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 50% full restoration
- **Midwest**: 67% full restoration
- **Southwest**: 100% full restoration
- **South Central**: 67% full restoration
- **South Atlantic**: 25% no treatment; preventive treatment; full restoration
- **Northeast**: 80% full restoration
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *rough*. The Spectra reading was 2.25.

The highest percentages for specific treatment in each region were as follows:

- Western: 75% full restoration
- Midwest: 100% full restoration
- Southwest: 100% full restoration
- South Central: 83% full restoration
- South Atlantic: 75% full restoration
- Northeast: 80% full restoration
Dear Colleague,

Thank you for your participation in the network study “Decision Aids for the Management of Suspicious Occlusal Caries Lesions”.

In the subsequent pages you will be presented with a series of clinical cases that include photos and descriptions of a patient’s tooth. For each case you will be asked how likely it is that the suspicious area extends into dentin. We are studying the influence that these 3 or 4 factors have on dentists’ decisions. You will see the same tooth several times but each time the risk factors or clinical findings will be different. Please review each tooth/case with its unique combination of factors and then choose your preferred recommendation for the treatment of the suspicious area. We prefer that you complete the cases in one sitting.

In all cases, these are new patients who plan on becoming patients in your office for regular care in the future. The patients have no complaints, no relevant medical history, and are in your office today for an initial exam. Each patient has been assigned a risk category based on a combination of commonly used risk factors including age, caries history, oral hygiene, etc. The surface of the tooth has been assigned a texture category based on the feel of a probe on the occlusal surface. The radiograph(s) you have available indicates no evidence of caries into dentin. The occlusal surface has no previous restoration or sealant and has no symptoms of sensitivity to sweets, cold, air, etc. The tooth has been air dried for approximately 5 seconds.

Following the case presentation you will be presented with a Post Study Questionnaire that will ask for your feedback on the general conduct of the study and use of the devices (if you were in the device arm).

Our pretesting suggests that it will only take between 10 and 20 minutes total to complete all of the cases and about 5 minutes to complete the Post Study Questionnaire for which you or your practice organization will receive $75 as compensation. However, if you are unable to complete them in one sitting, you do have the option to save and continue at another time. We ask that you complete the task within 7 days of receiving this request.

Your participation and responses will remain confidential. Only authorized study personnel will have access to data. All information will be stored in a secure manner. Your information will not be sold, used for any reason other than research, released to any insurance company, or released to any other similar interest. Information from this questionnaire and other network studies that you complete or have completed, may be linked using your assigned practitioner ID number. This will allow us to see how characteristics from each study might be related to each other.

Results may be published for scientific purposes, but your identity will not be revealed. Only statistical summaries will be presented. The University of Alabama at Birmingham (UAB) Institutional Review Board (IRB) maintains the authority to inspect completed questionnaires to ensure compliance with IRB procedures. If you have any additional questions, please contact your Regional Coordinator.

If you have questions about your rights as a research participant, you may contact the UAB IRB at (205) 934-3789 or (800) 822-8816. Press option #1 for the operator and request extension 4-3789 (M-F, 8:00 AM - 5:00 PM Central Time).
With regards,
Gregg Gilbert, DDS, MBA, FAAHD, FICD
National Network Director
The National Dental Practice-Based Research Network
Instructions

The following instructions will help you complete this exercise.

- For each scenario designate how likely it is that the suspicious area extends into dentin by moving the slider to the desired position on the scale between not at all likely and very likely. **The slider must be moved (even if back to 0) in order to indicate a response.**
- You will then choose your preferred recommendation for the treatment of the suspicious area. You can only choose one recommendation.
- **You will also be presented with a slider as part of the Post Study Questionnaire.** The slider must be moved (even if back to 0) in order to indicate a response.
- **Use the “Forward” and “Back” buttons within the survey to move forward and backward throughout the survey.** **DO NOT use the forward and back arrows at the top left corner of your internet browser screen.**
- On occasion, if you forget to answer a question or provide an answer that is invalid, you may see a message highlighted in yellow that provides information on how to fix the problem.
- Press the “Save and Continue Later” button if you wish to save your answers and complete the survey at a later time.
- The survey will “time out” after 30 minutes of no activity. The next time you log in, you will be returned to the last screen you were on.
- You can come back to the survey either by returning to:
  - The link sent previously by email. You will automatically return to the last screen you were on; or
  - [www.SOCLstudy.com/Post Study Vignette/](http://www.SOCLstudy.com/Post%20Study%20Vignette/) and re-enter the same code you used when starting the survey. You will automatically return to the last screen you were on.
- **We recommend that you do not use a small mobile device (cellular phone or tablet) to complete this questionnaire.**
- We recommend that you use the same computer that was used to complete the survey at the beginning of the study.
- Feel free to adjust the angle of the computer to get the best view of the photo, similar to a clinical setting.
How likely is it that this suspicious area extends into dentin?

<table>
<thead>
<tr>
<th>Not at all likely</th>
<th>Very likely</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The results for the rating above range from 0-100.

The results for the question below were divided into 2 parts: non-invasive and invasive.

Which of the following treatments would be your preferred recommendation for this suspicious area (please choose one)?

- No treatment today, follow the patient regularly NON-INVASIVE
- Preventive treatment: OHI, in-office fluoride varnish or gel; non-prescription fluoride; prescription for fluoride rinse/paste; or chlorhexidine treatment NON-INVASIVE
- Sealant or unfilled resin (tooth structure not altered) NON-INVASIVE
- Sealant (minimal drilling or air abrasion) INVASIVE
- Preventive resin (minimal drilling or air abrasion) INVASIVE
- Direct restoration (amalgam or composite) INVASIVE

Recommended interpretation for DIAGNOdent device reading
- 0 – 10 (healthy)
- 11 – 20 outer half enamel
- 21 – 30 inner half enamel
- 30+ dentin caries
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel smooth. The DIAGNOdent reading was 20.

The highest percentages for specific treatment in each region were as follows:
- Western: 40% no treatment
- Midwest: 50% preventive treatment; preventive resin restoration
- Southwest: 33% preventive treatment
- South Central: 40% no treatment
- South Atlantic: 40% no treatment
- Northeast: 60% no treatment
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel rough. The DIAGNOdent reading was 20.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 20% no treatment; preventive treatment; sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
- **Midwest**: 100% sealant (minimal drilling or air abrasion)
- **Southwest**: 33% preventive treatment; preventive resin restoration
- **South Central**: 40% preventive resin restoration
- **South Atlantic**: 60% no treatment
- **Northeast**: 40% no treatment; sealant (minimal drilling or air abrasion)
You consider this patient to be at elevated risk for caries. Upon examination, the suspicious areas feel smooth. The DIAGNOdent reading was 20.

The highest percentages for specific treatment in each region were as follows:

- Western: 40% preventive treatment; full restoration
- Midwest: 50% sealant (minimal drilling or air abrasion); preventive resin restoration
- Southwest: 33% preventive resin restoration
- South Central: 40% no treatment
- South Atlantic: 60% preventive
- Northeast: 40% preventive treatment
You consider this patient to be at elevated risk for caries. Upon examination, the suspicious areas feel rough. The DIAGNOdent reading was 20.

The highest percentages for specific treatment in each region were as follows:

- Western: 40% preventive treatment; full restoration
- Midwest: 50% sealant (minimal drilling or air abrasion); preventive resin restoration
- Southwest: 50% full restoration
- South Central: 40% preventive resin restoration
- South Atlantic: 40% full restoration
- Northeast: 40% preventive resin restoration
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel smooth. The DIAGNOdent reading was 20.

The highest percentages for specific treatment in each region were as follows:

- Western: 40% no treatment
- Midwest: 50% no treatment; preventive treatment
- Southwest: 33% no treatment; preventive treatment; sealant
- South Central: 40% no treatment; sealant (minimal drilling or air abrasion)
- South Atlantic: 60% no treatment
- Northeast: 80% no treatment
You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **rough**. The DIAGNOdent reading was 20.

The highest percentages for specific treatment in each region were as follows:
- **Western**: 40% no treatment; sealant (minimal drilling or air abrasion)
- **Midwest**: 100% preventive treatment
- **Southwest**: 33% preventive treatment; sealant
- **South Central**: 40% no treatment; preventive resin restoration
- **South Atlantic**: 40% no treatment
- **Northeast**: 40% no treatment
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *smooth*. The DIAGNOdent reading was 20.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 40% preventive; full restoration
- **Midwest**: 50% sealant; sealant (minimal drilling or air abrasion)
- **Southwest**: 33% sealant; preventive resin restoration
- **South Central**: 40% no treatment
- **South Atlantic**: 60% preventive treatment
- **Northeast**: 60% preventive treatment
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *rough*. The DIAGNOdent reading was 20.

The highest percentages for specific treatment in each region were as follows:
- **Western:** 40% preventive; full restoration
- **Midwest:** 50% sealant (minimal drilling or air abrasion); preventive resin restoration
- **Southwest:** 33% sealant
- **South Central:** 40% preventive resin restoration
- **South Atlantic:** 40% preventive treatment
- **Northeast:** 40% preventive treatment
You consider this patient to be at *low* risk for caries. Upon examination, the suspicious areas feel *smooth*. The DIAGNOdent reading was 20.

**Q9- Average likelihood into dentin**

- Western: 22% likelihood
- Midwest: 16% likelihood
- Southwest: 28% likelihood
- South Central: 27% likelihood
- South Atlantic: 26% likelihood
- Northeast: 24% likelihood

**Q9-Recommended Treatment**

- Western: 80% non-invasive; 20% invasive
- Midwest: 100% preventive treatment
- Southwest: 50% non-invasive; 50% invasive
- South Central: 40% non-invasive; 60% invasive
- South Atlantic: 60% non-invasive; 40% invasive
- Northeast: 80% non-invasive; 20% invasive

The highest percentages for specific treatment in each region were as follows:
- **Western**: 40% no treatment
- **Midwest**: 100% preventive treatment
- **Southwest**: 33% preventive treatment; sealant (minimal drilling or air abrasion)
- **South Central**: 40% no treatment; sealant (minimal drilling or air abrasion)
- **South Atlantic**: 40% preventive treatment
- **Northeast**: 40% no treatment; preventive treatment
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel rough. The DIAGNOdent reading was 20.

The highest percentages for specific treatment in each region were as follows:
- Western: 60% preventive treatment
- Midwest: 50% sealant (minimal drilling or air abrasion); preventive resin restoration
- Southwest: 33% preventive resin restoration; full restoration
- South Central: 40% preventive resin restoration
- South Atlantic: 40% no treatment; sealant (minimal drilling or air abrasion)
- Northeast: 40% full restoration
You consider this patient to be at elevated risk for caries. Upon examination, the suspicious areas feel smooth. The DIAGNOdent reading was 20.

The highest percentages for specific treatment in each region were as follows:

- Western: 40% full restoration
- Midwest: 50% sealant (minimal drilling or air abrasion); preventive resin restoration
- Southwest: 33% preventive treatment; preventive resin restoration
- South Central: 40% no treatment; sealant (minimal drilling or air abrasion)
- South Atlantic: 40% preventive resin restoration
- Northeast: 60% preventive resin restoration
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *rough*. The DIAGNOdent reading was 20.

The highest percentages for specific treatment in each region were as follows:
- Western: 40% preventive treatment; sealant (minimal drilling or air abrasion)
- Midwest: 100% sealant (minimal drilling or air abrasion)
- Southwest: 50% full restoration
- South Central: 40% preventive resin restoration; full restoration
- South Atlantic: 40% preventive resin restoration
- Northeast: 20% no treatment; sealant; sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel smooth. The DIAGNOdent reading was 20.

The highest percentages for specific treatment in each region were as follows:

- Western: 40% no treatment
- Midwest: 50% preventive treatment
- Southwest: 33% preventive treatment; sealant (minimal drilling or air abrasion); full restoration
- South Central: 40% sealant (minimal drilling or air abrasion)
- South Atlantic: 40% preventive treatment
- Northeast: 60% no treatment
You consider this patient to be at low risk for caries. Upon examination, the suspicious area feels rough. The DIAGNOdent reading was 20.

The highest percentages for specific treatment in each region were as follows:

- Western: 40% preventive; full restoration
- Midwest: 50% sealant (minimal drilling or air abrasion); preventive resin restoration
- Southwest: 50% preventive resin restoration
- South Central: 40% preventive resin restoration; full restoration
- South Atlantic: 40% no treatment
- Northeast: 40% sealant (minimal drilling or air abrasion); preventive resin restoration
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious area feels *smooth*. The DIAGNOdent reading was 20.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 60% full restoration
- **Midwest**: 100% preventive resin restoration
- **Southwest**: 33% sealant (minimal drilling or air abrasion); full restoration
- **South Central**: 40% full restoration
- **South Atlantic**: 40% preventive treatment; preventive resin restoration
- **Northeast**: 40% preventive treatment
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious area feels *rough*. The DIAGNODent reading was 20.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 40% preventive treatment; full restoration
- **Midwest**: 100% preventive resin restoration
- **Southwest**: 50% full restoration
- **South Central**: 60% preventive resin restoration
- **South Atlantic**: 40% preventive resin restoration; full restoration
- **Northeast**: 40% sealant (minimal drilling or air abrasion); preventive resin restoration
You consider this patient to be at low risk for caries. Upon examination, the suspicious area feels smooth. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 40% full restoration
- **Midwest**: 50% preventive resin restoration; full restoration
- **Southwest**: 33% preventive resin restoration; full restoration
- **South Central**: 60% full restoration
- **South Atlantic**: 60% full restoration
- **Northeast**: 60% full restoration

Figure 17.
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel rough. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:
- Western: 60% full restoration
- Midwest: 100% preventive resin restoration
- Southwest: 50% full restoration
- South Central: 100% full restoration
- South Atlantic: 60% full restoration
- Northeast: 60% full restoration
You consider this patient to be at elevated risk for caries. Upon examination, the suspicious areas feel smooth. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:

- Western: 60% full restoration
- Midwest: 100% full restoration
- Southwest: 83% full restoration
- South Central: 60% full restoration
- South Atlantic: 60% preventive resin restoration
- Northeast: 60% full restoration
You consider this patient to be at **elevated** risk for caries. Upon examination, the suspicious areas feel **rough**. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:

- Western: 60% full restoration
- Midwest: 100% full restoration
- Southwest: 83% full restoration
- South Central: 100% full restoration
- South Atlantic: 80% full restoration
- Northeast: 60% full restoration
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel smooth. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:

- Western: 40% full restoration
- Midwest: 50% preventive resin restoration; full restoration
- Southwest: 33% full restoration
- South Central: 40% preventive resin restoration
- South Atlantic: 40% full restoration
- Northeast: 40% preventive treatment; preventive resin restoration
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel rough. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:

- Western: 80% full restoration
- Midwest: 50% preventive resin restoration; full restoration
- Southwest: 50% preventive resin restoration
- South Central: 80% full restoration
- South Atlantic: 40% preventive treatment; full restoration
- Northeast: 40% preventive resin restoration
You consider this patient to be at elevated risk for caries. Upon examination, the suspicious areas feel smooth. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:
- Western: 80% full restoration
- Midwest: 100% full restoration
- Southwest: 33% preventive resin restoration
- South Central: 60% full restoration
- South Atlantic: 40% preventive treatment; full restoration
- Northeast: 60% preventive resin restoration
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *rough*. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 60% full restoration
- **Midwest**: 100% full restoration
- **Southwest**: 33% preventive resin restoration; full restoration
- **South Central**: 100% full restoration
- **South Atlantic**: 80% full restoration
- **Northeast**: 40% preventive resin restoration; full restoration
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel smooth. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:

- Western: 40% full restoration (20% cited “other”)
- Midwest: 50% preventive resin restoration; full restoration
- Southwest: 33% full restoration
- South Central: 40% preventive resin restoration
- South Atlantic: 40% preventive treatment; full restoration
- Northeast: 40% full restoration
You consider this patient to be at low risk for caries. Upon examination, the suspicious areas feel rough. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:
- Western: 40% full restoration
- Midwest: 100% full restoration
- Southwest: 33% preventive resin restoration; full restoration
- South Central: 60% full restoration
- South Atlantic: 60% preventive resin restoration
- Northeast: 60% full restoration
You consider this patient to be at **elevated** risk for caries. Upon examination, the suspicious areas feel **smooth**. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 40% full restoration
- **Midwest**: 100% full restoration
- **Southwest**: 50% full restoration
- **South Central**: 40% full restoration
- **South Atlantic**: 60% full restoration
- **Northeast**: 60% full restoration
You consider this patient to be at elevated risk for caries. Upon examination, the suspicious areas feel rough. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:
- Western: 40% preventive treatment; sealant (minimal drilling or air abrasion)
- Midwest: 100% full restoration
- Southwest: 83% full restoration
- South Central: 80% full restoration
- South Atlantic: 80% full restoration
- Northeast: 80% full restoration
You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **rough**. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:
- Western: 40% no treatment
- Midwest: 100% full restoration
- Southwest: 33% preventive treatment; preventive resin restoration; full restoration
- South Central: 80% full restoration
- South Atlantic: 60% full restoration
- Northeast: 60% full restoration
You consider this patient to be at elevated risk for caries. Upon examination, the suspicious areas feel smooth. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:
- Western: 40% preventive treatment; full restoration
- Midwest: 100% full restoration
- Southwest: 50% full restoration
- South Central: 80% full restoration
- South Atlantic: 60% full restoration
- Northeast: 60% full restoration
You consider this patient to be at *elevated* risk for caries. Upon examination, the suspicious areas feel *smooth*. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:

- **Western**: 60% full restoration
- **Midwest**: 100% full restoration
- **Southwest**: 83% full restoration
- **South Central**: 100% full restoration
- **South Atlantic**: 80% full restoration
- **Northeast**: 60% full restoration
You consider this patient to be at **elevated** risk for caries. Upon examination, the suspicious areas feel **rough**. The DIAGNOdent reading was 40.

The highest percentages for specific treatment in each region were as follows:
- **Western**: 40% preventive treatment; full restoration
- **Midwest**: 100% full restoration
- **Southwest**: 83% full restoration
- **South Central**: 80% full restoration
- **South Atlantic**: 100% full restoration
- **Northeast**: 80% full restoration
Patient Characteristics

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<td>Northeast</td>
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Patient Gender

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<td>South Atlantic</td>
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Patient Education Level

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1. On which tooth is the suspicious area located?

### Premolar

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<tr>
<td>Northeast</td>
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### Molar

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<th>Mandibular</th>
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<tr>
<td>South Central</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>South Atlantic</td>
<td>56</td>
<td>44</td>
</tr>
<tr>
<td>Northeast</td>
<td>41</td>
<td>59</td>
</tr>
</tbody>
</table>
2. Which one best describes the luster of the suspicious area? (Check a single answer)

![Luster Chart]

3. Which one best describes the color of the suspicious area? (Check a single answer)

![Color Chart]
4. Which aids were used in making (not confirming) the diagnosis? *(Check all that apply)*

<table>
<thead>
<tr>
<th>Aids</th>
<th>Magnification</th>
<th>Air drying</th>
<th>Explorer</th>
<th>Radiographs</th>
<th>Transillumination</th>
<th>Caries detecting dye</th>
<th>Intraoral camera</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>67</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Midwest</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>78</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Southwest</td>
<td>40</td>
<td>100</td>
<td>83</td>
<td>42</td>
<td>2</td>
<td>0</td>
<td>28</td>
</tr>
<tr>
<td>South Central</td>
<td>89</td>
<td>100</td>
<td>85</td>
<td>60</td>
<td>6</td>
<td>2</td>
<td>28</td>
</tr>
<tr>
<td>South Atlantic</td>
<td>74</td>
<td>98</td>
<td>88</td>
<td>52</td>
<td>1</td>
<td>0</td>
<td>14</td>
</tr>
<tr>
<td>Northeast</td>
<td>100</td>
<td>99</td>
<td>100</td>
<td>71</td>
<td>23</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

5. If you used a dental explorer, did you experience roughness of the enamel surface upon light exploration?

<table>
<thead>
<tr>
<th>Surface Roughness</th>
<th>Western</th>
<th>Midwest</th>
<th>Southwest</th>
<th>South Central</th>
<th>South Atlantic</th>
<th>Northeast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>81</td>
<td>43</td>
<td>82</td>
<td>65</td>
<td>61</td>
<td>61</td>
</tr>
<tr>
<td>No</td>
<td>19</td>
<td>57</td>
<td>18</td>
<td>35</td>
<td>39</td>
<td>39</td>
</tr>
</tbody>
</table>
6. Do any other teeth in the mouth have any of the following characteristics? **(Check all that apply)**

![](chart1.png)

- **Visible lesions/radiographic penetration of dentin**: 18 (West), 28 (Midwest), 43 (Southwest), 27 (South Central), 7 (South Atlantic), 11 (Northeast)
- **White spots on smooth surfaces**: 13 (West), 18 (Midwest), 22 (Southwest), 36 (South Central), 7 (South Atlantic), 11 (Northeast)
- **Restorations in the last 3 yrs**: 40 (West), 27 (Midwest), 50 (Southwest), 48 (South Central), 20 (South Atlantic), 28 (Northeast)
- **None of the above**: 53 (West), 55 (Midwest), 27 (Southwest), 49 (South Central), 39 (South Atlantic), 52 (Northeast)

7. Does the patient have any of the following risk factors? **(Check all that apply)**

![](chart2.png)

- **Visible heavy plaque**: 18 (West), 20 (Midwest), 45 (Southwest), 13 (South Central), 7 (South Atlantic), 5 (Northeast)
- **High cariogenic diet**: 6 (West), 32 (Midwest), 53 (Southwest), 10 (South Central), 2 (South Atlantic), 5 (Northeast)
- **Xerostomia**: 0 (West), 0 (Midwest), 3 (Southwest), 5 (South Central), 0 (South Atlantic), 0 (Northeast)
- **Infrequent recall intervals**: 33 (West), 42 (Midwest), 34 (Southwest), 12 (South Central), 4 (South Atlantic), 20 (Northeast)
- **None of the above**: 57 (West), 50 (Midwest), 31 (Southwest), 68 (South Central), 89 (South Atlantic), 74 (Northeast)
8. Has the patient been prescribed/recommended any of the following? (Check all that apply)

![Recommended Treatment Chart]

9. How would you classify the patient’s caries risk level? (Check a single answer)

![Patient Risk Level Chart]
10. Before you provide any treatment, how deep do you estimate that the deepest part of the suspicious caries lesion is? (Check a single answer)

![Pre-operative depth estimation chart]

11. I chose to treat the tooth today by (Check all that apply):

![Treatment Decision chart]
12. When you treated the lesion, what did you find? *(Check a single answer)*

<table>
<thead>
<tr>
<th>Condition</th>
<th>Western</th>
<th>Midwest</th>
<th>Southwest</th>
<th>South Central</th>
<th>South Atlantic</th>
<th>Northeast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Did not open</td>
<td>33</td>
<td>87</td>
<td>29</td>
<td>58</td>
<td>86</td>
<td>54</td>
</tr>
<tr>
<td>No caries</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Inactive/arrested caries</td>
<td>5</td>
<td>2</td>
<td>1</td>
<td>5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Caries outer 1/2 enamel</td>
<td>5</td>
<td>0</td>
<td>9</td>
<td>3</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>Caries inner 1/2 enamel</td>
<td>29</td>
<td>0</td>
<td>12</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Caries outer 1/3 dentin</td>
<td>24</td>
<td>7</td>
<td>19</td>
<td>16</td>
<td>5</td>
<td>14</td>
</tr>
<tr>
<td>Caries middle 1/3 dentin</td>
<td>3</td>
<td>5</td>
<td>17</td>
<td>10</td>
<td>2</td>
<td>16</td>
</tr>
<tr>
<td>Caries inner 1/3 dentin</td>
<td>0</td>
<td>0</td>
<td>8</td>
<td>3</td>
<td>1</td>
<td>11</td>
</tr>
<tr>
<td>Pt did not return</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

![Actual caries depth chart](chart.png)
1. On which tooth is the suspicious area located?

**Premolar**

<table>
<thead>
<tr>
<th>Region</th>
<th>Maxillary</th>
<th>Mandibular</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western</td>
<td>61</td>
<td>39</td>
</tr>
<tr>
<td>Midwest</td>
<td>52</td>
<td>48</td>
</tr>
<tr>
<td>Southwest</td>
<td>42</td>
<td>58</td>
</tr>
<tr>
<td>South Central</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>South Atlantic</td>
<td>40</td>
<td>60</td>
</tr>
<tr>
<td>Northeast</td>
<td>35</td>
<td>65</td>
</tr>
</tbody>
</table>

**Molar**

<table>
<thead>
<tr>
<th>Region</th>
<th>Maxillary</th>
<th>Mandibular</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western</td>
<td>45</td>
<td>55</td>
</tr>
<tr>
<td>Midwest</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Southwest</td>
<td>45</td>
<td>55</td>
</tr>
<tr>
<td>South Central</td>
<td>44</td>
<td>56</td>
</tr>
<tr>
<td>South Atlantic</td>
<td>55</td>
<td>45</td>
</tr>
<tr>
<td>Northeast</td>
<td>39</td>
<td>61</td>
</tr>
</tbody>
</table>
2. Which one best describes the luster of the suspicious area? *(Check a single answer)*

![Luster Chart](chart1.png)

3. Which one best describes the color of the suspicious area? *(Check a single answer)*

![Color Chart](chart2.png)
4. Which aids were used in making (not confirming) the diagnosis? *(Check all that apply)*

<table>
<thead>
<tr>
<th>Aids</th>
<th>Western</th>
<th>Midwest</th>
<th>Southwest</th>
<th>South Central</th>
<th>South Atlantic</th>
<th>Northeast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnification</td>
<td>62</td>
<td>79</td>
<td>54</td>
<td>64</td>
<td>77</td>
<td>70</td>
</tr>
<tr>
<td>Air drying</td>
<td>91</td>
<td>98</td>
<td>99</td>
<td>92</td>
<td>91</td>
<td>99</td>
</tr>
<tr>
<td>Explorer</td>
<td>96</td>
<td>94</td>
<td>94</td>
<td>97</td>
<td>97</td>
<td>99</td>
</tr>
<tr>
<td>Radiographs</td>
<td>66</td>
<td>77</td>
<td>57</td>
<td>52</td>
<td>50</td>
<td>59</td>
</tr>
<tr>
<td>Transillumination</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>7</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Caries detecting dye</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Intraoral camera</td>
<td>5</td>
<td>3</td>
<td>14</td>
<td>22</td>
<td>9</td>
<td>5</td>
</tr>
</tbody>
</table>

5. If you used a dental explorer, did you experience roughness of the enamel surface upon light exploration?

<table>
<thead>
<tr>
<th>Surface Roughness</th>
<th>Western</th>
<th>Midwest</th>
<th>Southwest</th>
<th>South Central</th>
<th>South Atlantic</th>
<th>Northeast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>76</td>
<td>64</td>
<td>79</td>
<td>65</td>
<td>72</td>
<td>65</td>
</tr>
<tr>
<td>No</td>
<td>24</td>
<td>36</td>
<td>21</td>
<td>35</td>
<td>28</td>
<td>35</td>
</tr>
</tbody>
</table>
6. Do any other teeth in the mouth have any of the following characteristics? *(Check all that apply)*

![Other Teeth Characteristics](image)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Western</th>
<th>Midwest</th>
<th>Southwest</th>
<th>South Central</th>
<th>South Atlantic</th>
<th>Northeast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visible lesions/radiographic penetration of dentin</td>
<td>25</td>
<td>24</td>
<td>43</td>
<td>37</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>White spots on smooth surfaces</td>
<td>25</td>
<td>24</td>
<td>34</td>
<td>27</td>
<td>14</td>
<td>17</td>
</tr>
<tr>
<td>Restorations in the last 3 yrs</td>
<td>36</td>
<td>33</td>
<td>48</td>
<td>35</td>
<td>32</td>
<td>29</td>
</tr>
<tr>
<td>None of the above</td>
<td>43</td>
<td>45</td>
<td>30</td>
<td>36</td>
<td>49</td>
<td>51</td>
</tr>
</tbody>
</table>

8. Does the patient have any of the following risk factors? *(Check all that apply)*

![Patient Risk Factors](image)

<table>
<thead>
<tr>
<th>Risk Factor</th>
<th>Western</th>
<th>Midwest</th>
<th>Southwest</th>
<th>South Central</th>
<th>South Atlantic</th>
<th>Northeast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visible heavy plaque</td>
<td>20</td>
<td>10</td>
<td>31</td>
<td>15</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>High cariogenic diet</td>
<td>10</td>
<td>20</td>
<td>41</td>
<td>12</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>Xerostomia</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Infrequent recall intervals</td>
<td>21</td>
<td>27</td>
<td>28</td>
<td>18</td>
<td>12</td>
<td>17</td>
</tr>
<tr>
<td>None of the above</td>
<td>62</td>
<td>60</td>
<td>42</td>
<td>67</td>
<td>74</td>
<td>71</td>
</tr>
</tbody>
</table>
9. Has the patient been prescribed/recommended any of the following? *(Check all that apply)*

![Recommended Treatment Chart]

10. How would you classify the patient’s caries risk level? *(Check a single answer)*

![Patient Risk Level Chart]
11. Before you provide any treatment, how deep do you estimate that the deepest part of the suspicious caries lesion is? (Check a single answer)

![Pre-operative depth estimation chart](chart1)

- Outer 1/2 enamel: 42, 49, 40, 33, 45, 35
- Inner 1/2 enamel: 29, 34, 32, 26, 27, 15
- Outer 1/3 dentin: 25, 13, 21, 27, 22, 31
- Middle 1/3 dentin: 4, 3, 5, 7, 4, 9
- Inner 1/3 dentin: 0, 0, 2, 2, 1, 2
- Uncertain: 1, 2, 1, 5, 1, 9

12. I chose to treat the tooth today by (Check all that apply):

![Treatment Decision chart](chart2)

- Monitor: 59, 70, 38, 57, 74, 50
- Oral hygiene instruction: 30, 33, 27, 40, 31, 21
- In-office FL: 11, 21, 17, 18, 5, 6
- RX FL: 2, 11, 1, 7, 5, 5
- Sealant: 2, 9, 7, 5, 1, 1
- Enameloplasty: 2, 11, 4, 1, 1, 1
- Preventive resin restoration: 9, 7, 21, 16, 8, 13
- Full restoration: 21, 10, 36, 24, 16, 36
13. When you treated the lesion, what did you find? (Check a single answer)

![Bar chart showing actual caries depth for different regions and categories.]

- Did not open: 61.45, 74, 37.9, 57.74, 80.22, 47.11
- No caries: 0.8, 2.5, 1.91, 1.94, 0.36, 0.83
- Inactive/arrested caries: 1.2, 3.5, 4.14, 1.94, 1.8, 3.31
- Caries outer 1/2 enamel: 1.61, 0.5, 7.32, 2.26, 1.44, 2.48
- Caries inner 1/2 enamel: 9.24, 1.5, 15.29, 5.16, 4.32, 6.2
- Caries outer 1/3 dentin: 13.65, 6.5, 16.88, 13.23, 5.76, 16.94
- Caries middle 1/3 dentin: 7.63, 4.5, 8.6, 9.03, 3.6, 13.64
- Caries inner 1/3 dentin: 0.8, 0, 4.46, 2.58, 0.72, 3.72
- Pt did not return: 3.61, 7, 3.5, 6.13, 1.8, 5.79