

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.**
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- **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.**

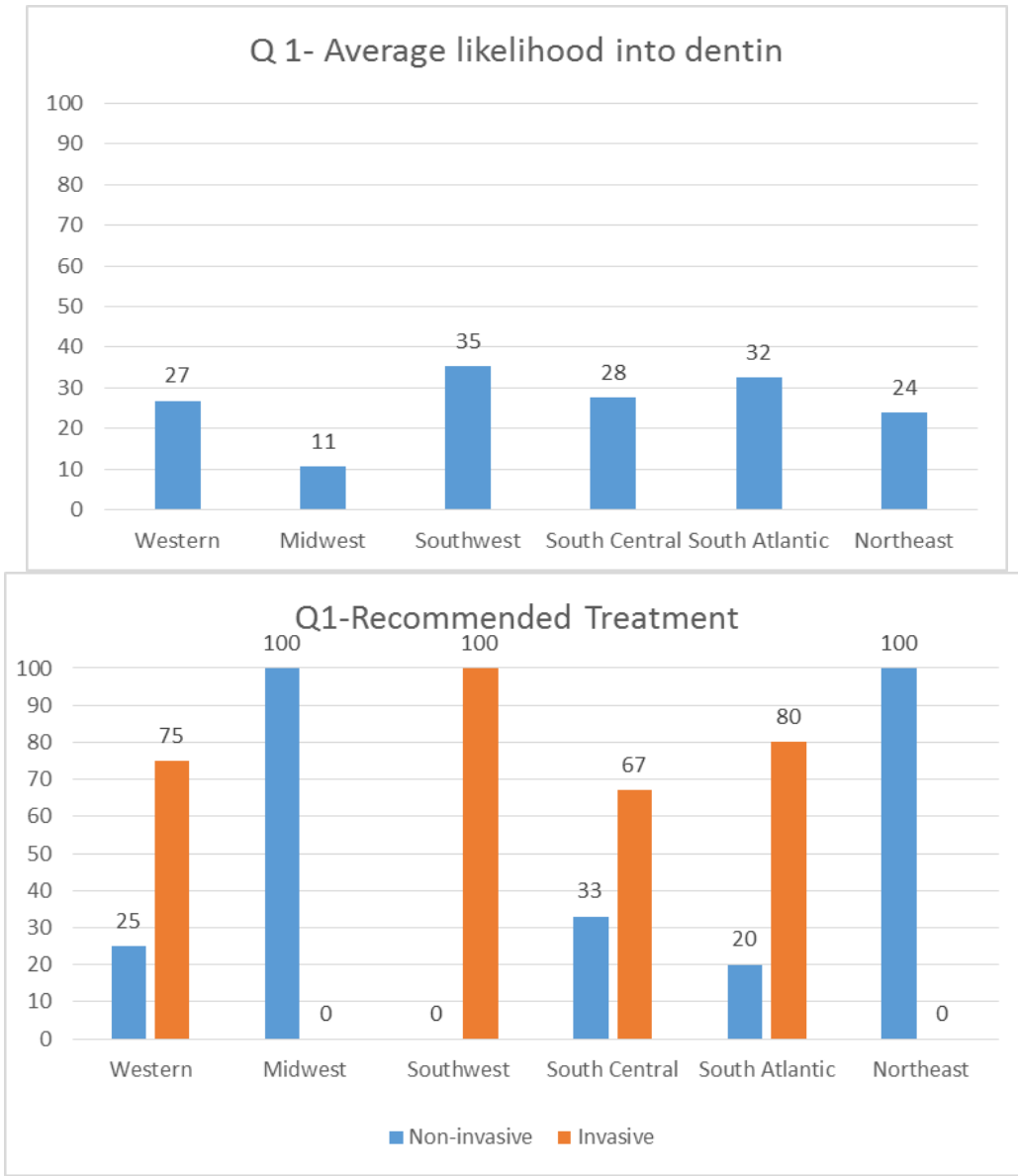
**Which of the following treatments would be your *preferred* recommendation for this suspicious area ( please choose one)?**

- 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**



Figure 1.

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

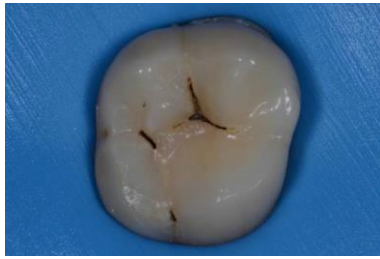
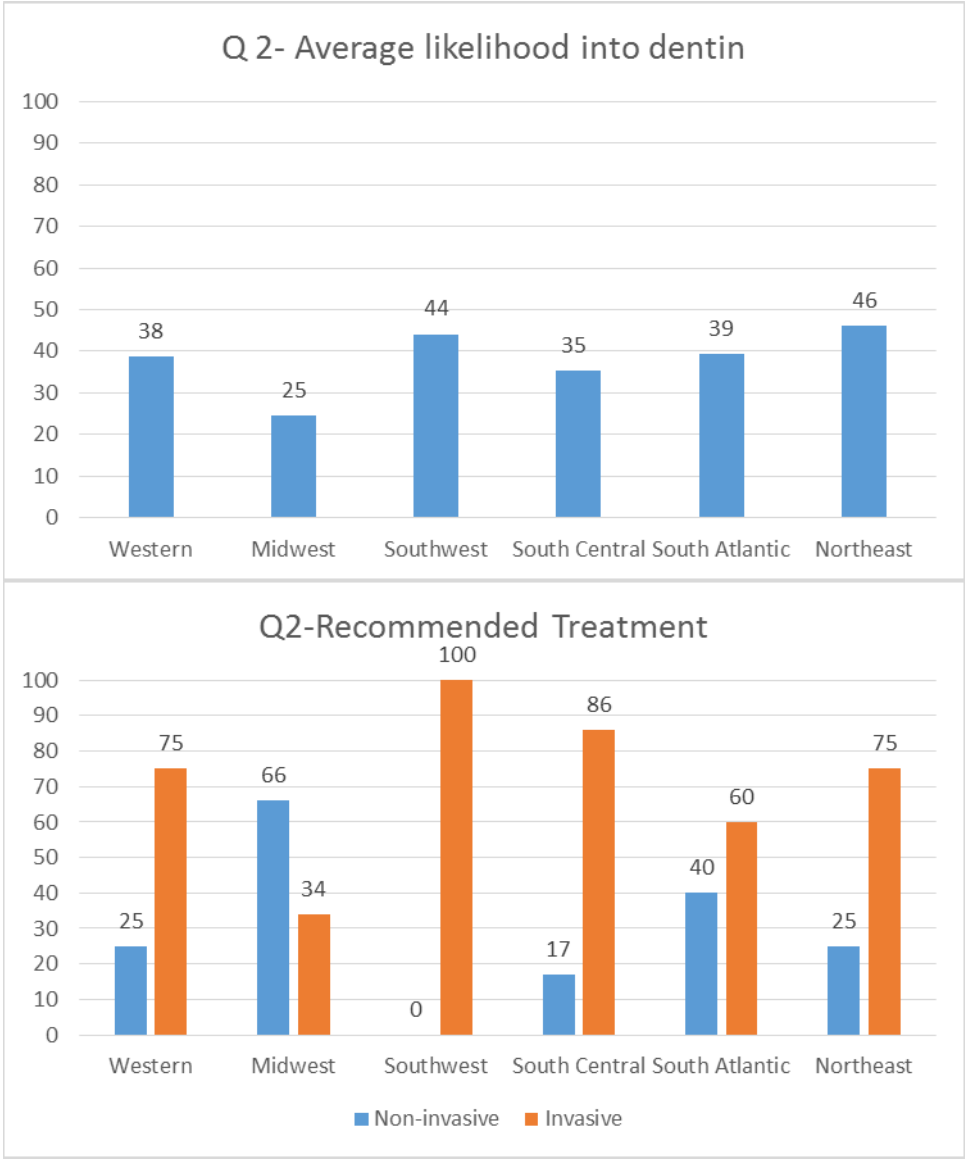


Figure 2.

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

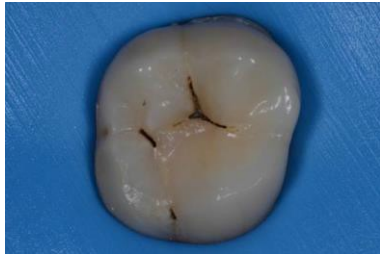
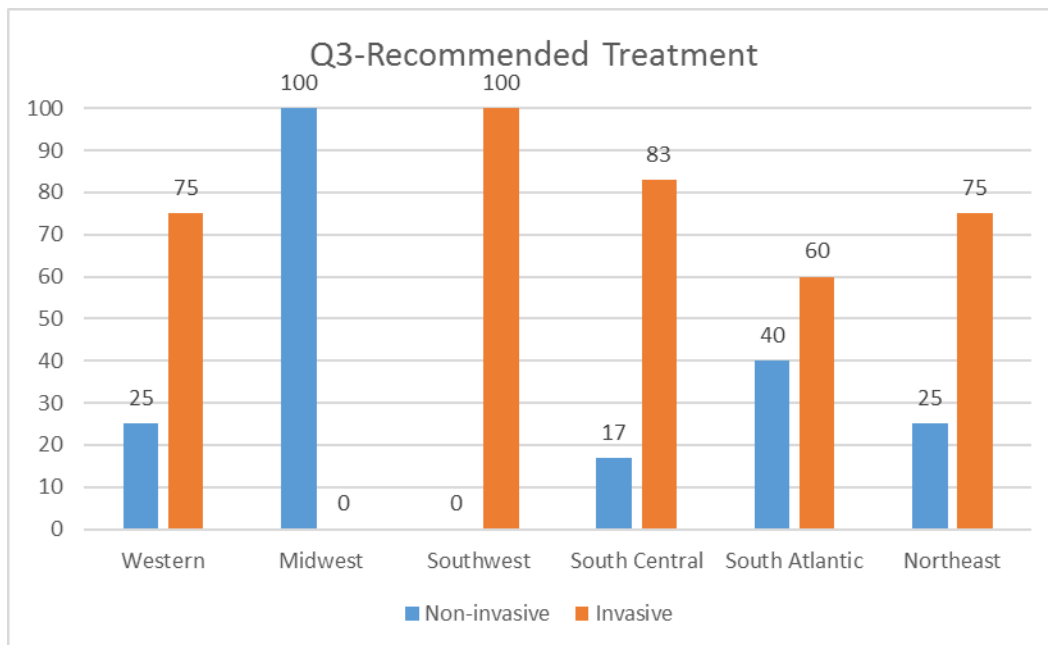
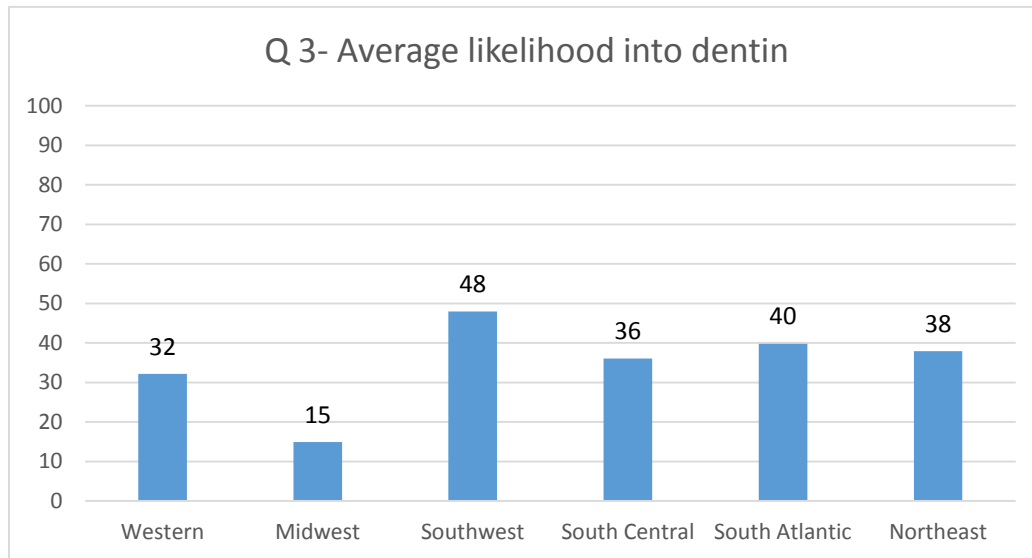


Figure 3.

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

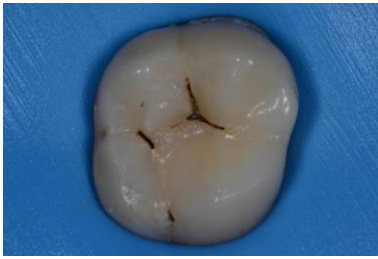
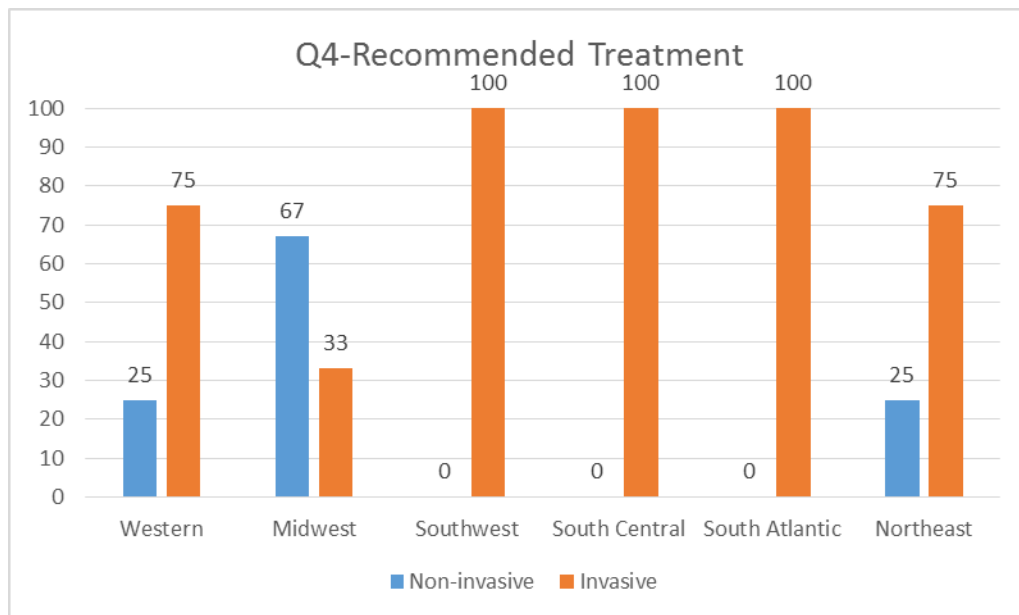
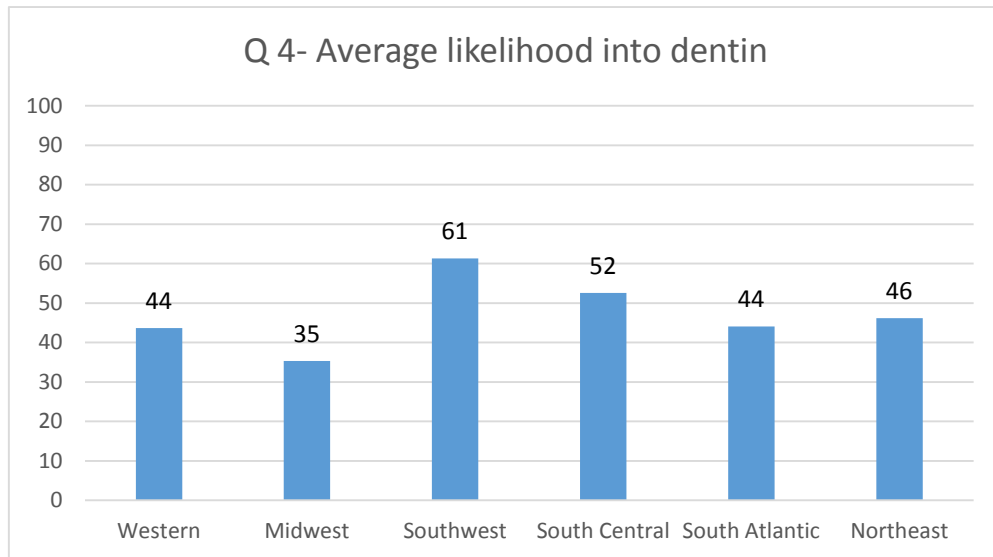


Figure 4.

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:

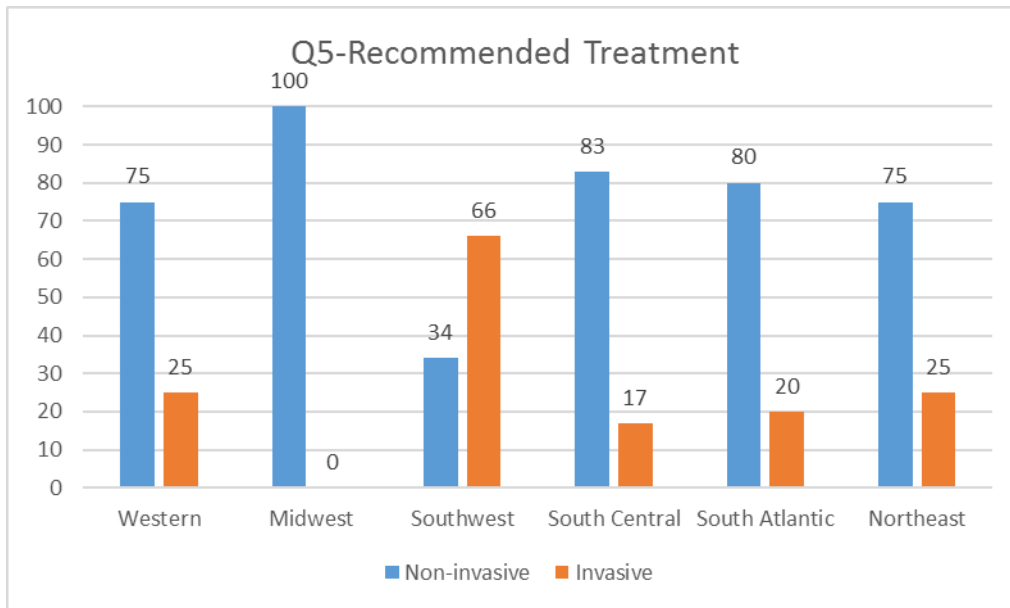
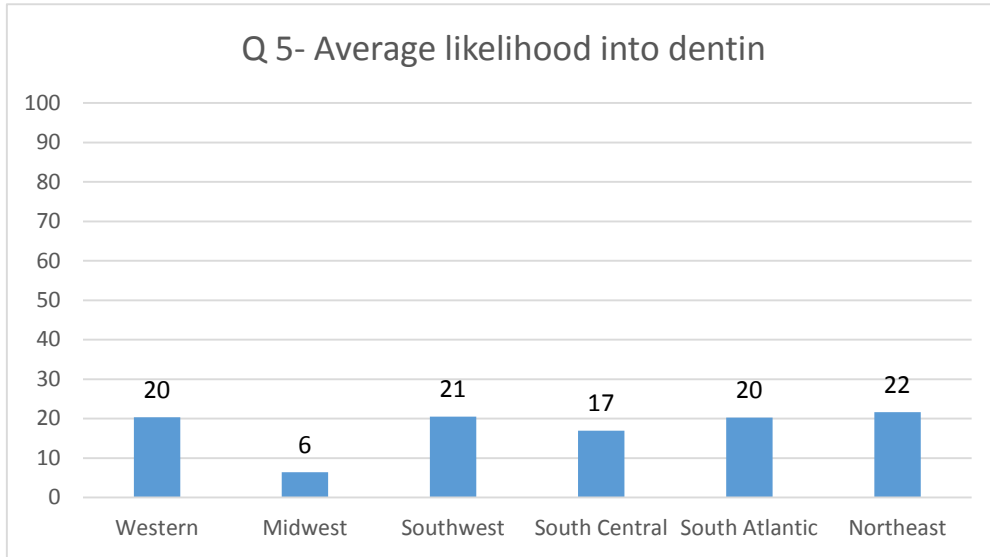
- Western: 50% full restoration
- Midwest: 67% no treatment
- Southwest: 83% full restoration
- South Central: 50% preventive resin restoration; full restoration
- South Atlantic: 60% preventive resin restoration
- Northeast: 50% full restoration





Figure 5.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **smooth**.



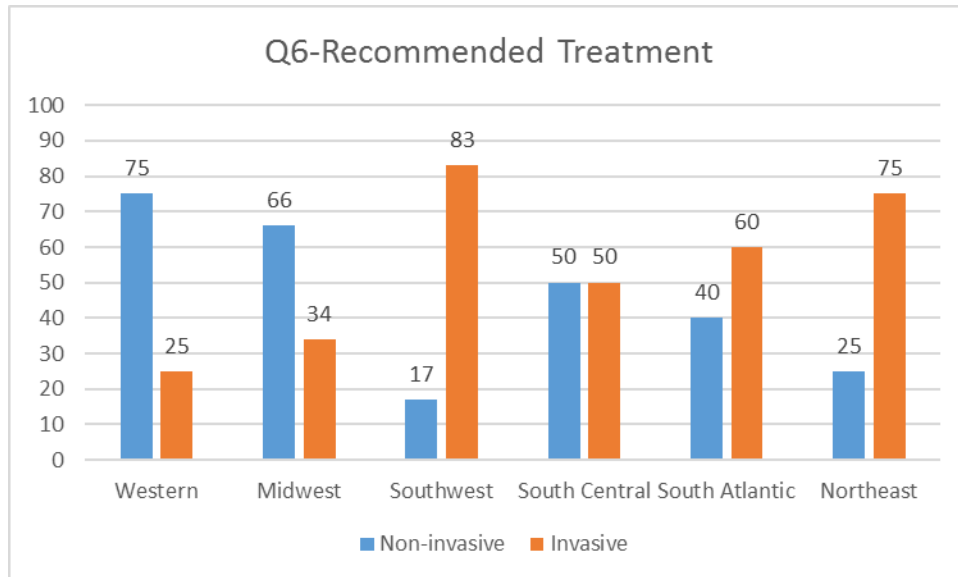
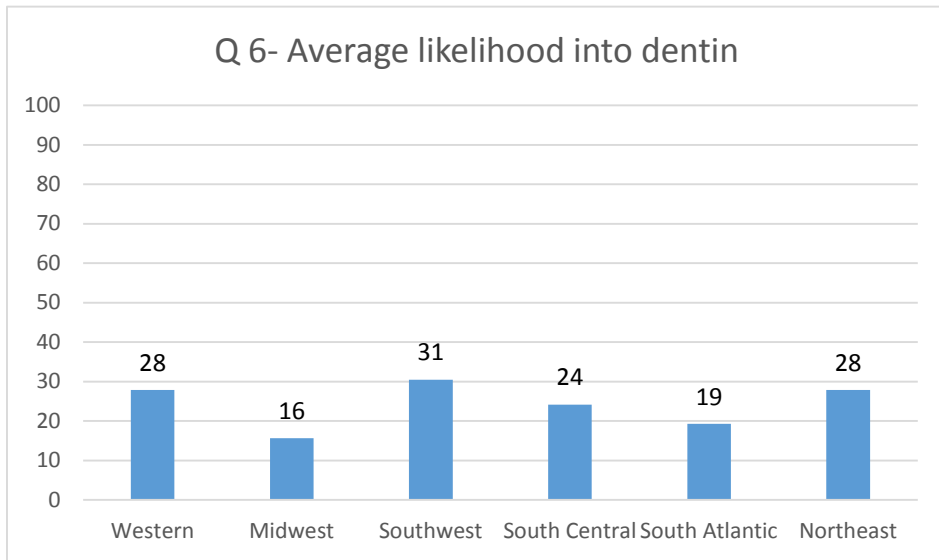
The highest percentages for specific treatment in each region were as follows:

- 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**.

Figure 6.



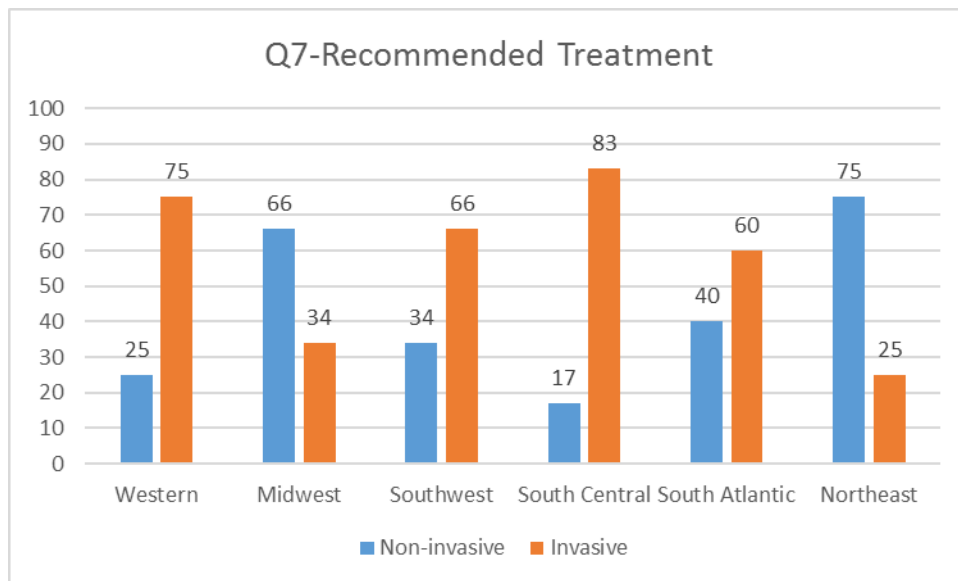
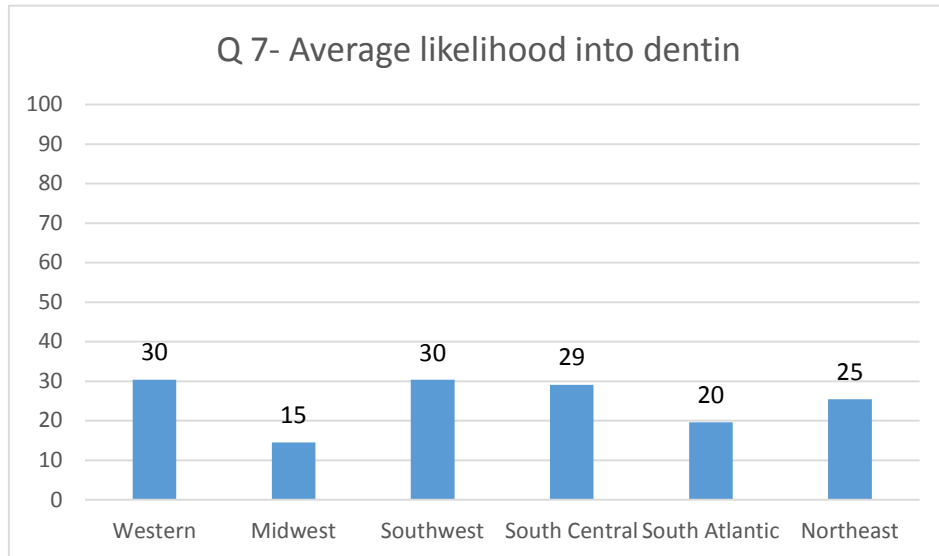
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 7.

You consider this patient to be at **elevated** risk for caries.  
Upon examination, the suspicious areas feel **smooth**.



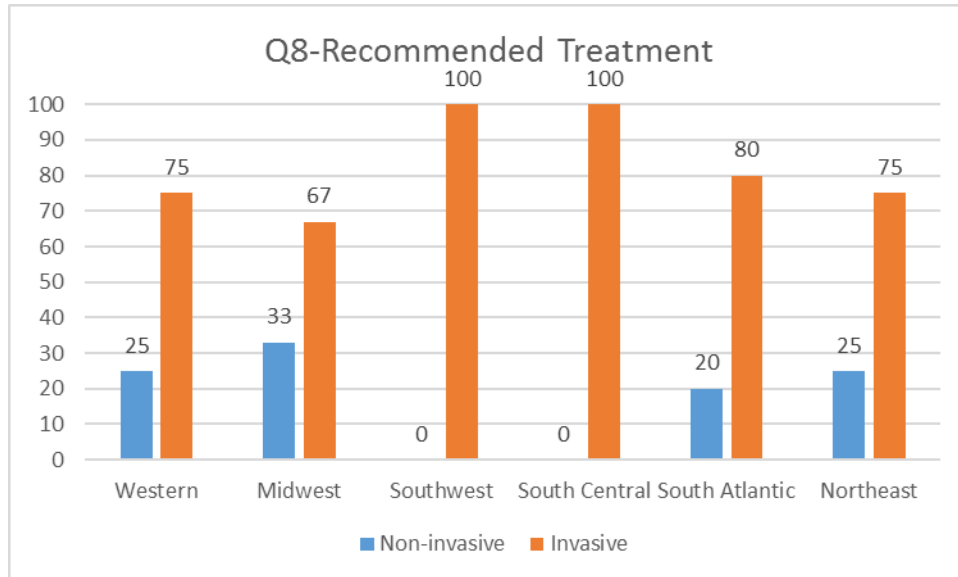
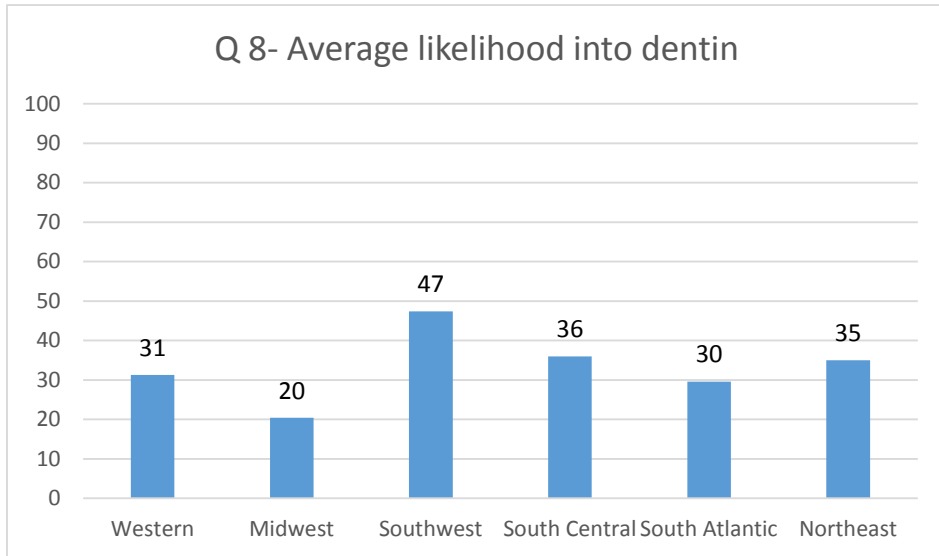
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 8.

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



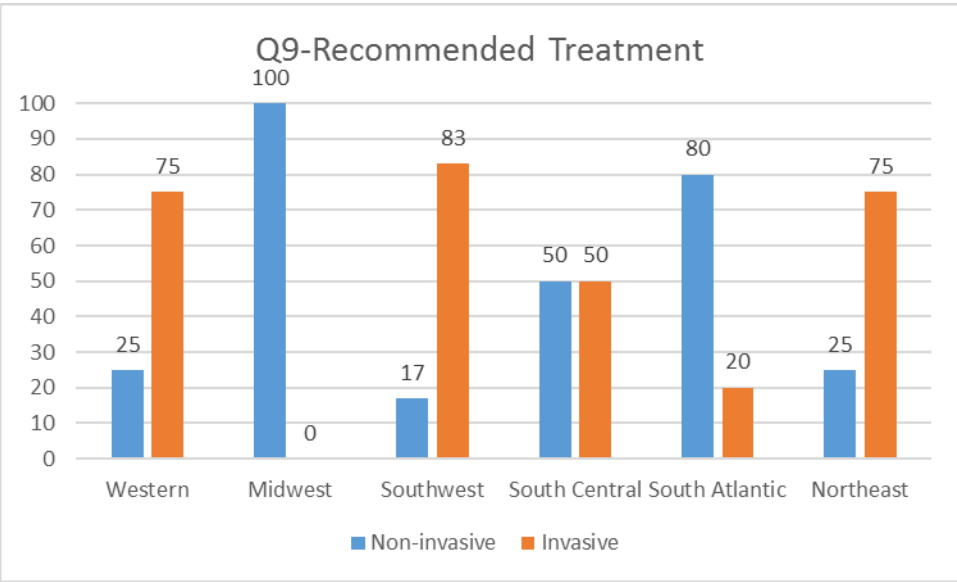
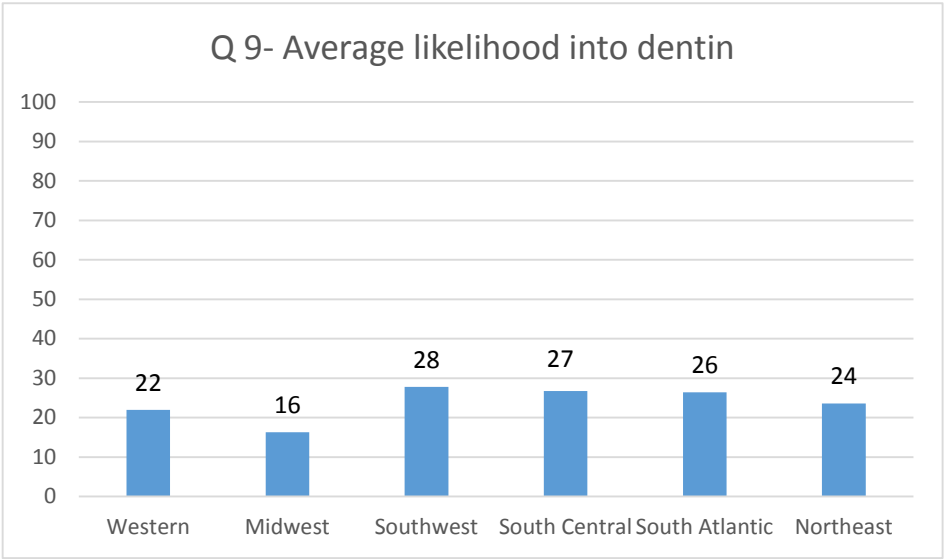
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 9.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **smooth**.



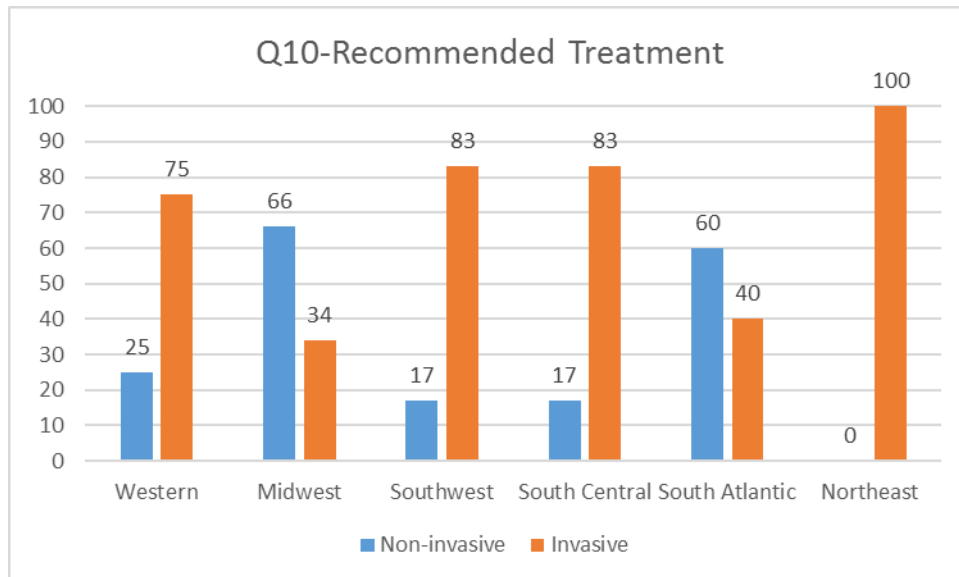
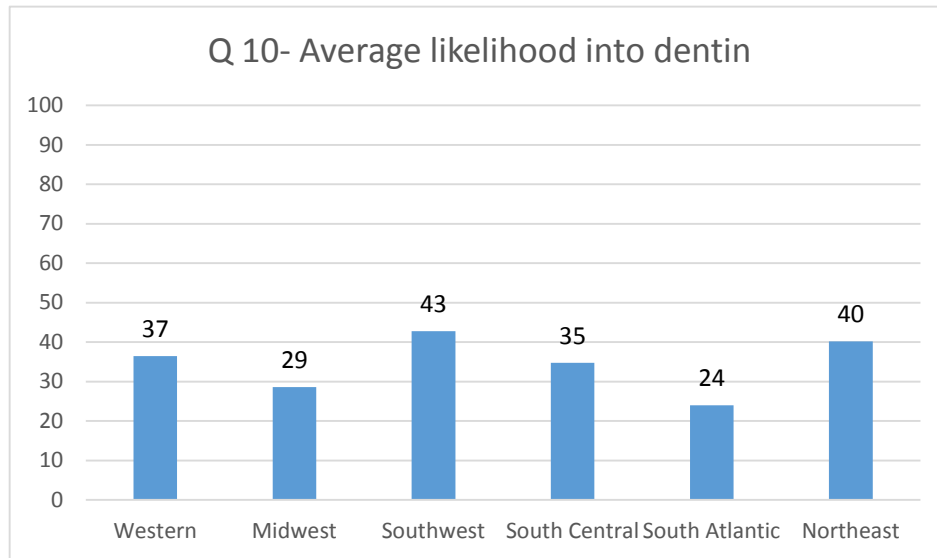
The highest percentages for specific treatment in each region were as follows:

- 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
- Northeast: 50% preventive resin restoration



Figure 10.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **rough**.



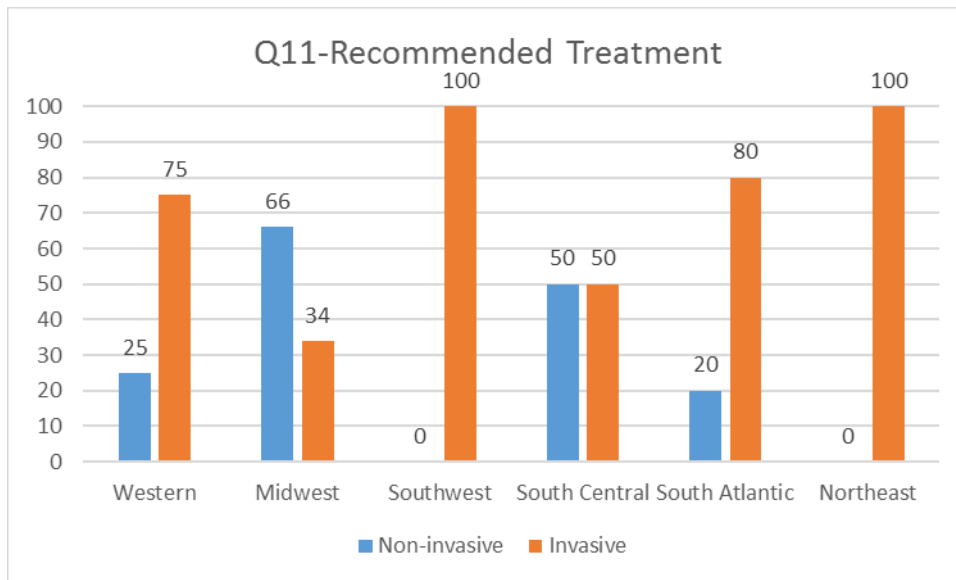
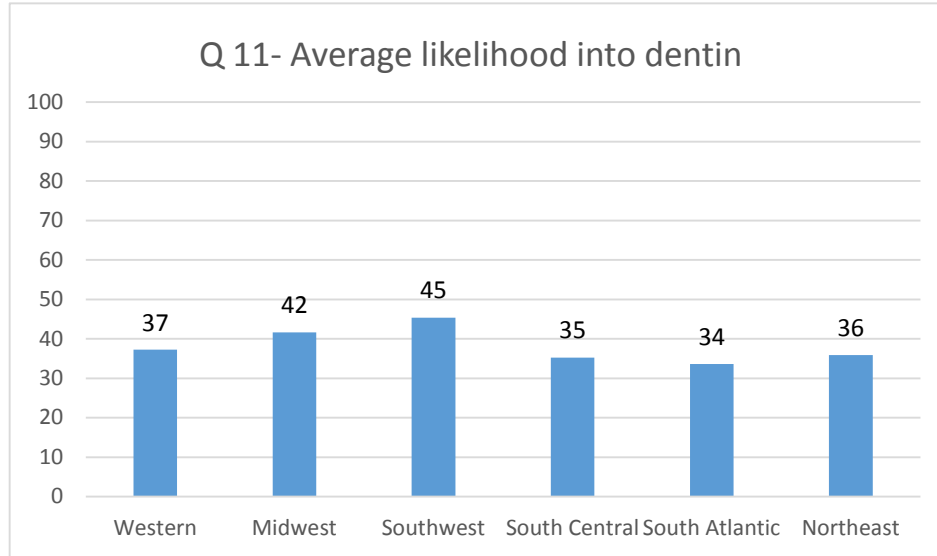
The highest percentages for specific treatment in each region were as follows:

- 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***.

Figure 11.



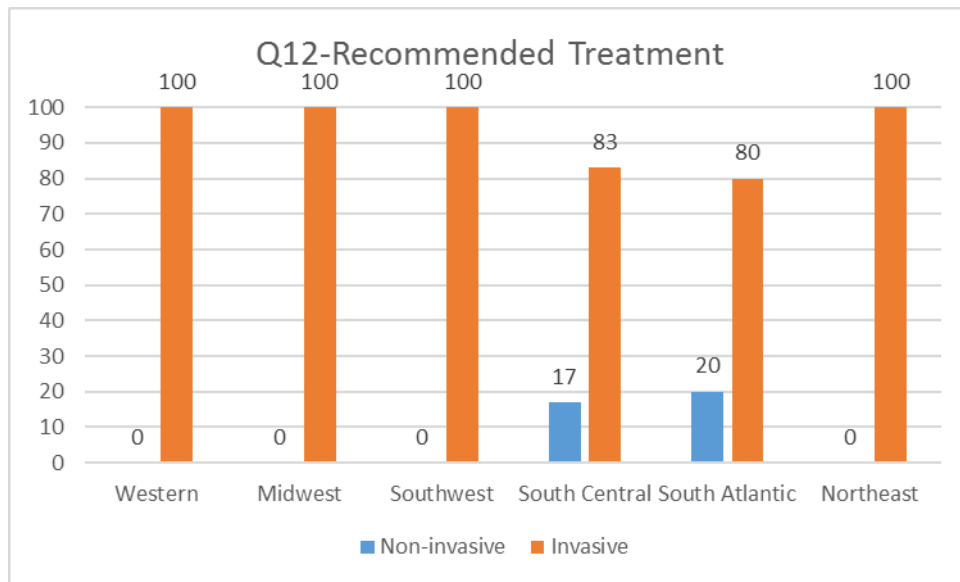
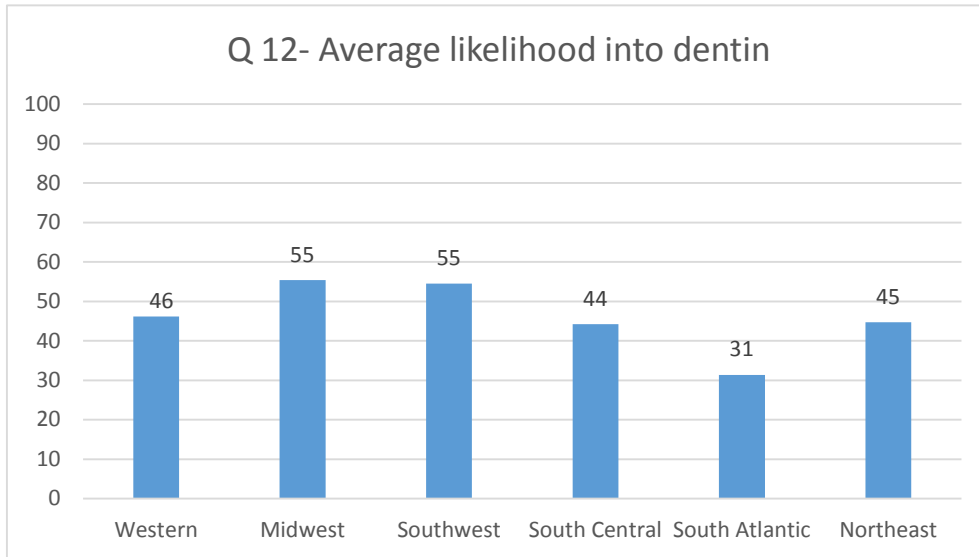
The highest percentages for specific treatment in each region were as follows:

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- Midwest: 33% no treatment; sealant; full restoration
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- 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***.

Figure 12.



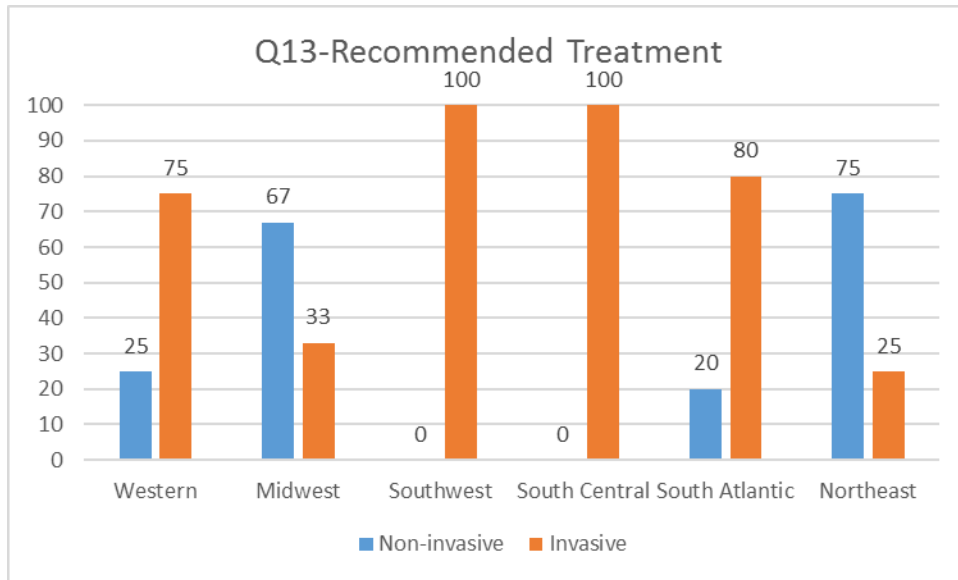
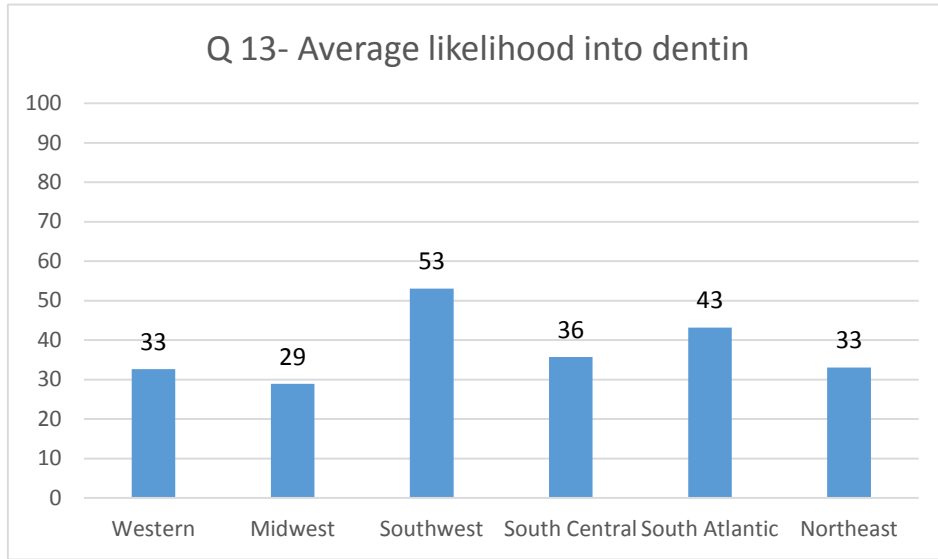
- The highest percentages for specific treatment in each region were as follows:
- Western: 50% preventive resin restoration
  - Midwest: 67% full restoration
  - Southwest: 50% full restoration
  - South Central: 50% full restoration
  - South Atlantic: 40% sealant (minimal drilling or air abrasion); preventive resin restoration
  - Northeast: 75% full restoration





Figure 13.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **smooth**.

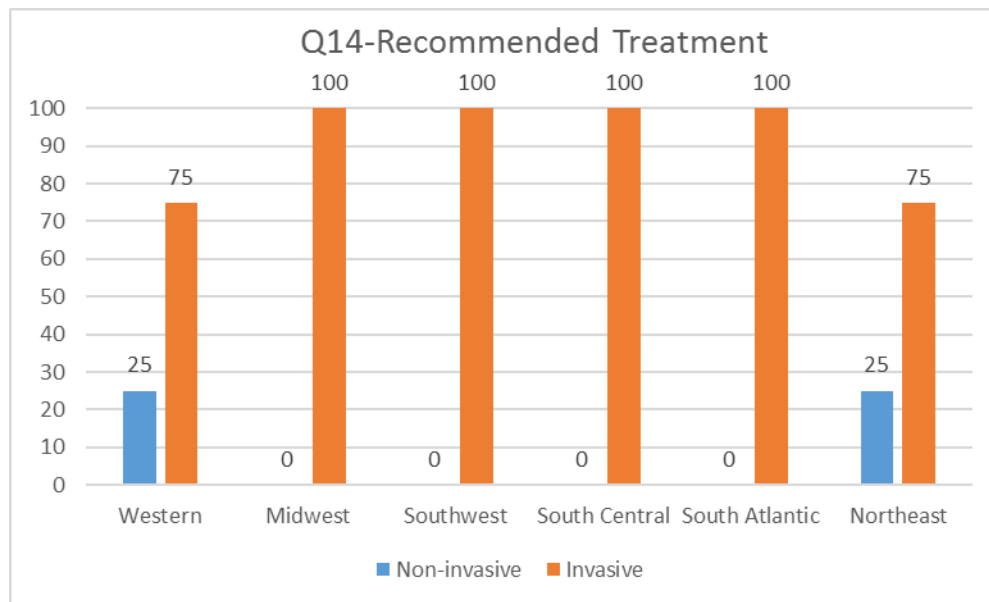
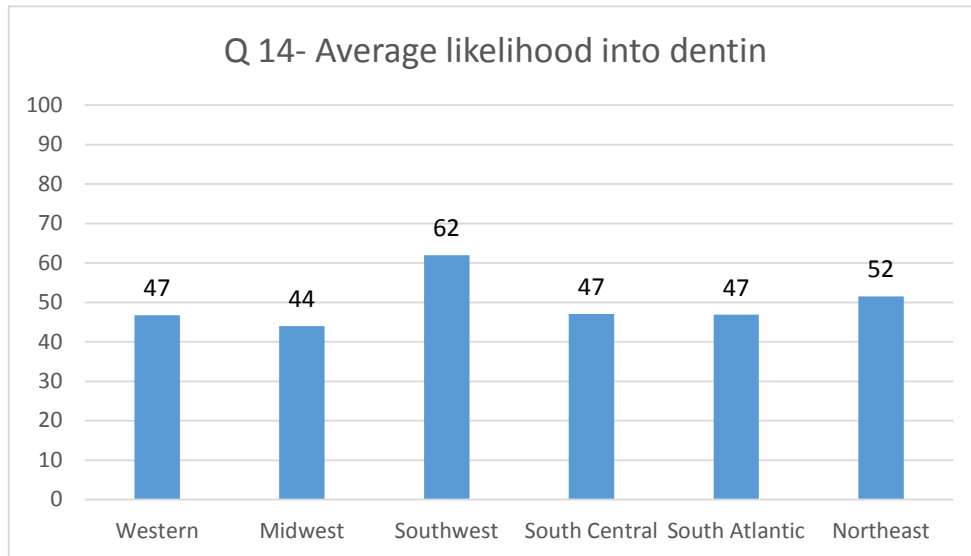


- The highest percentages for specific treatment in each region were as follows:
- Western: 50% sealant (minimal drilling or air abrasion)
  - Midwest: 67% no treatment
  - Southwest: 67% full restoration
  - South Central: 83% preventive resin restoration
  - South Atlantic: 60% full restoration
  - Northeast: 75% preventive



Figure 14.

You consider this patient to be at **low** risk for caries.  
 Upon examination, the suspicious areas feel **rough**.



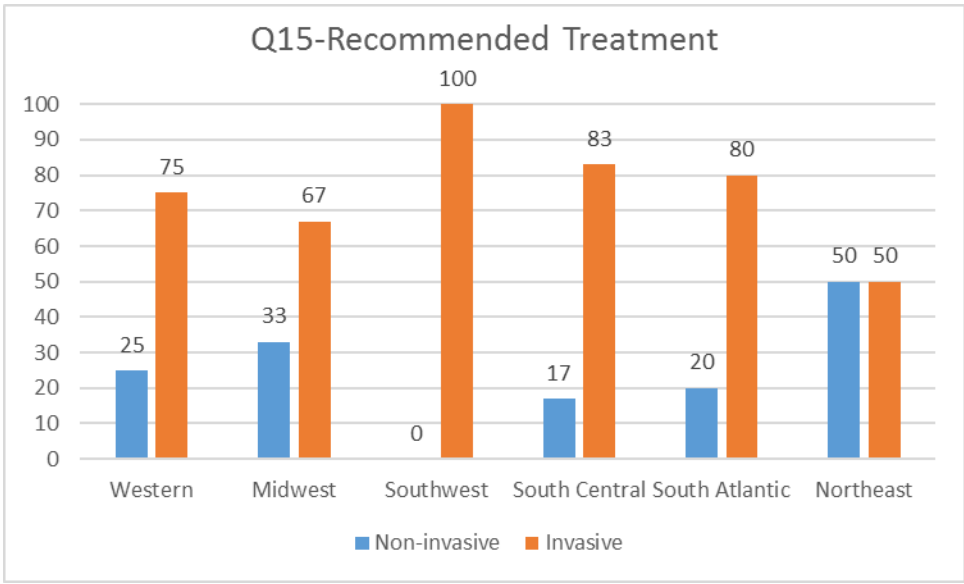
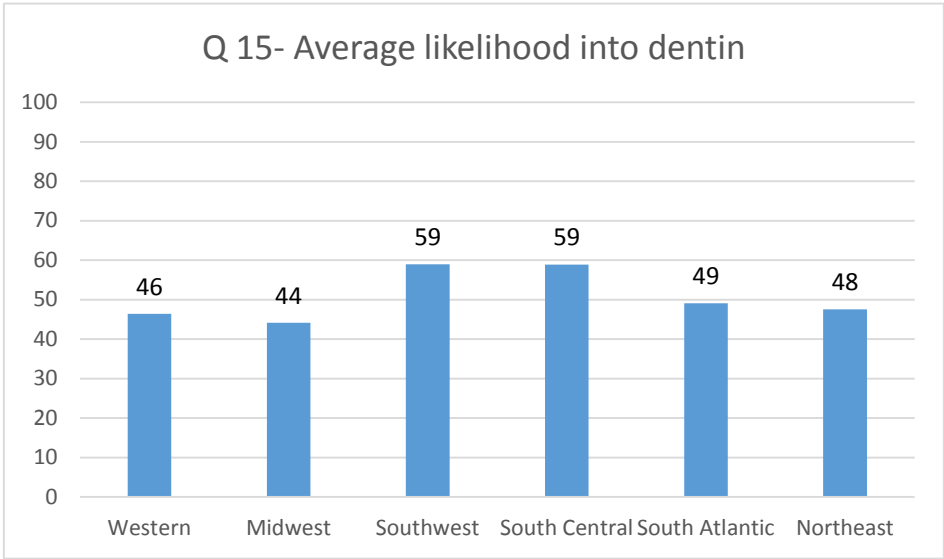
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 15.

You consider this patient to be at ***elevated*** risk for caries.  
 Upon examination, the suspicious areas feel ***smooth***.



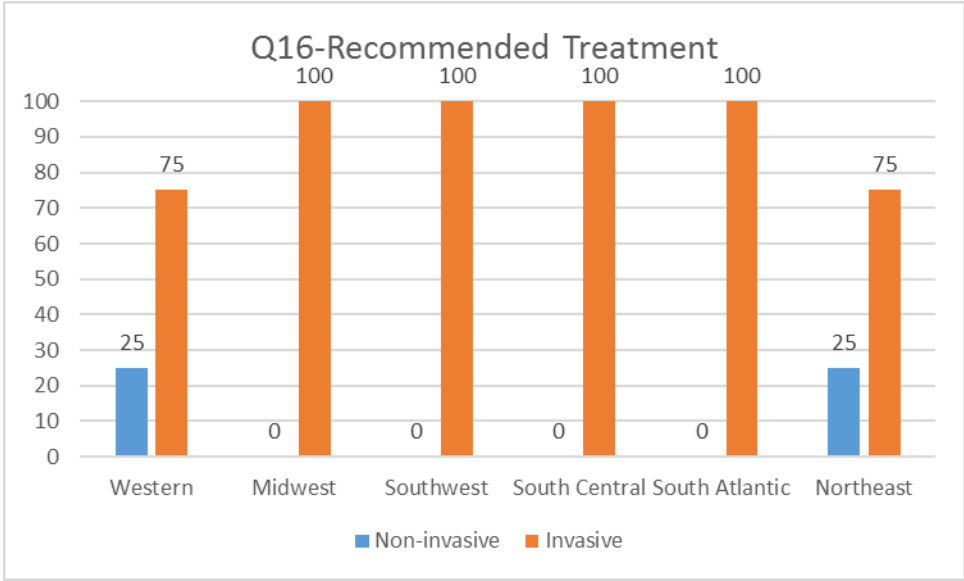
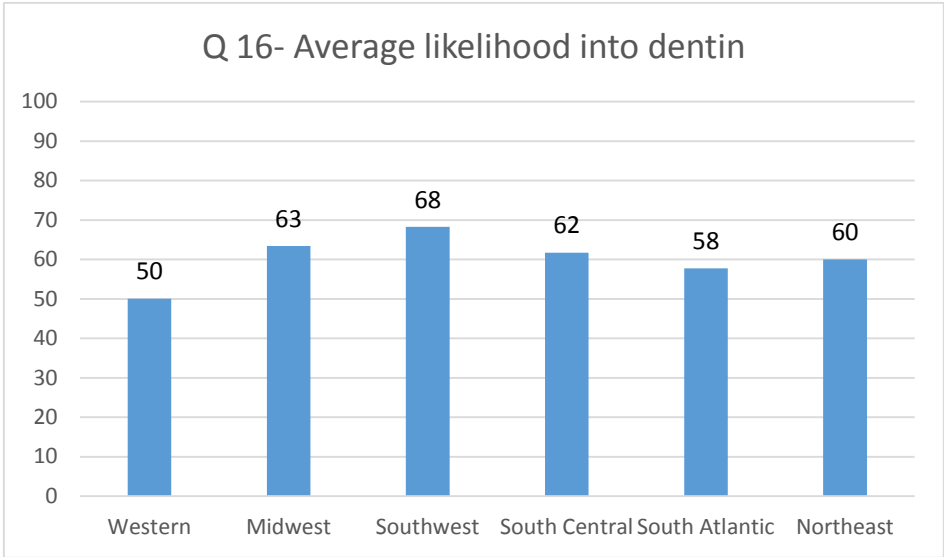
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 16.

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: 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

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With regards,

Gregg Gilbert, DDS, MBA, FAAHD, FICD

National Network Director

The National Dental Practice-Based Research Network

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- 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**



# “Doppler Radar” for Caries Detection

A Picture is Worth a Thousand Words

Analysis of Spectra images Color Scale and Diagnostic Value

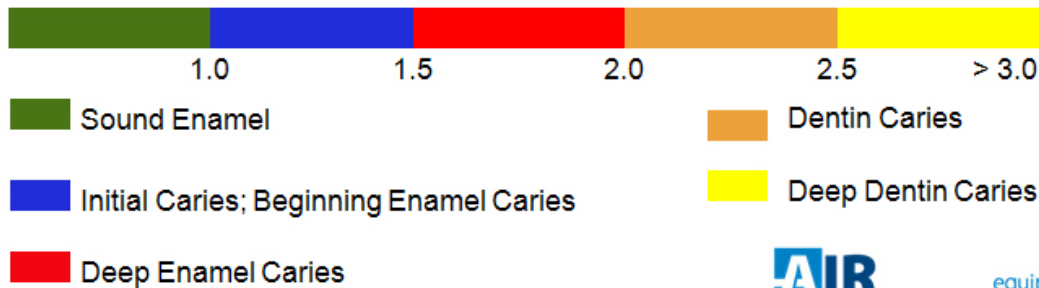
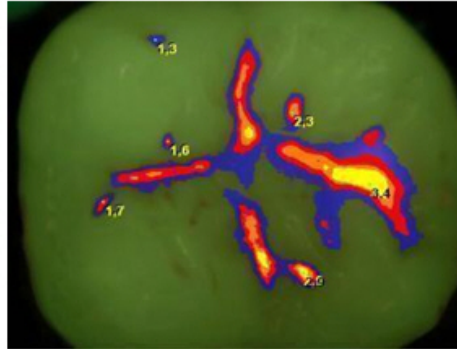
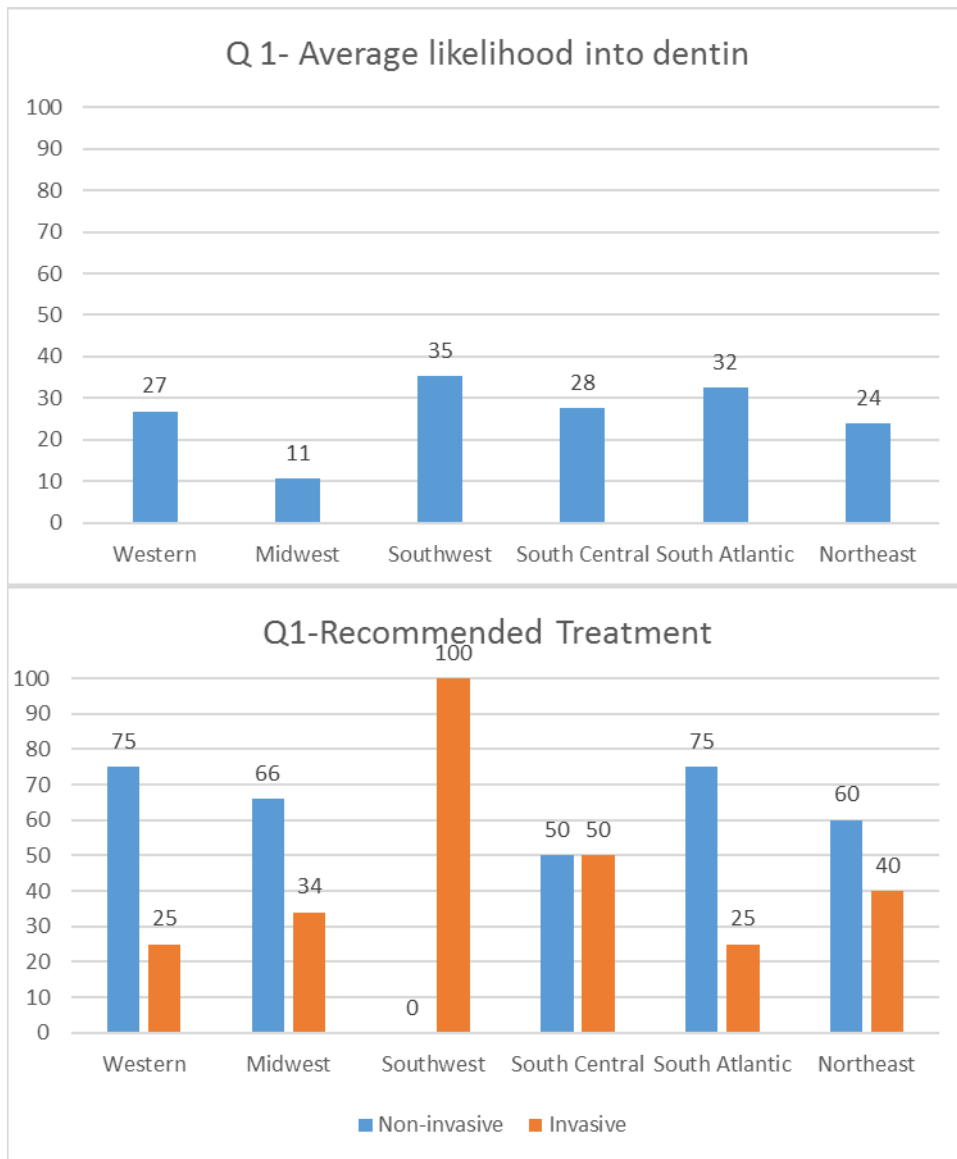




Figure 1.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **smooth**. The Spectra reading was 1.5.



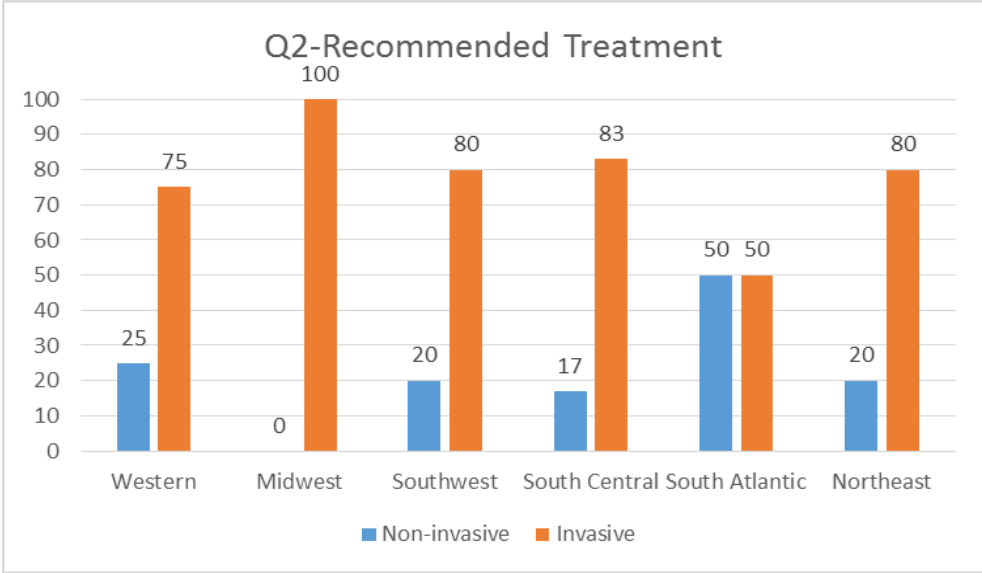
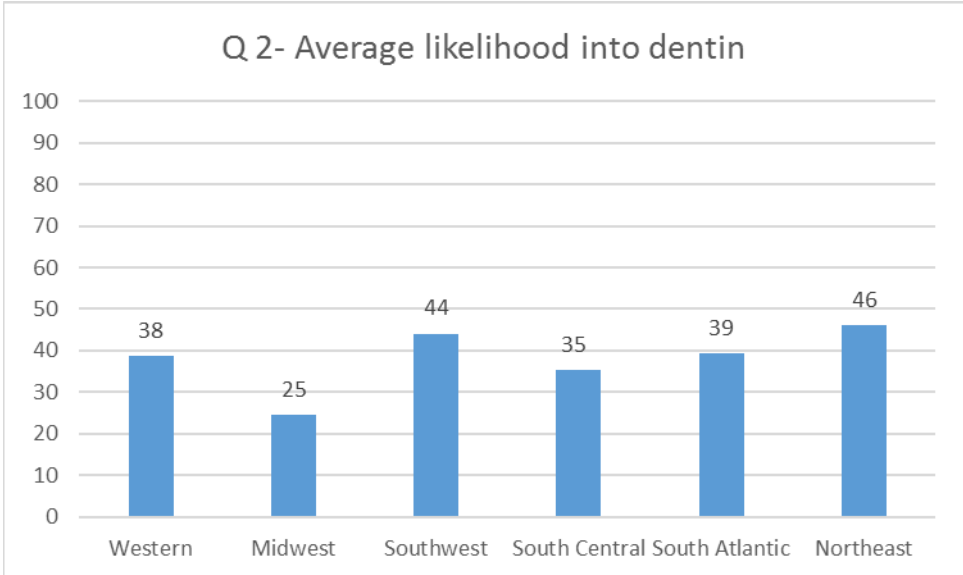
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 2.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **rough**. The Spectra reading was 1.5.

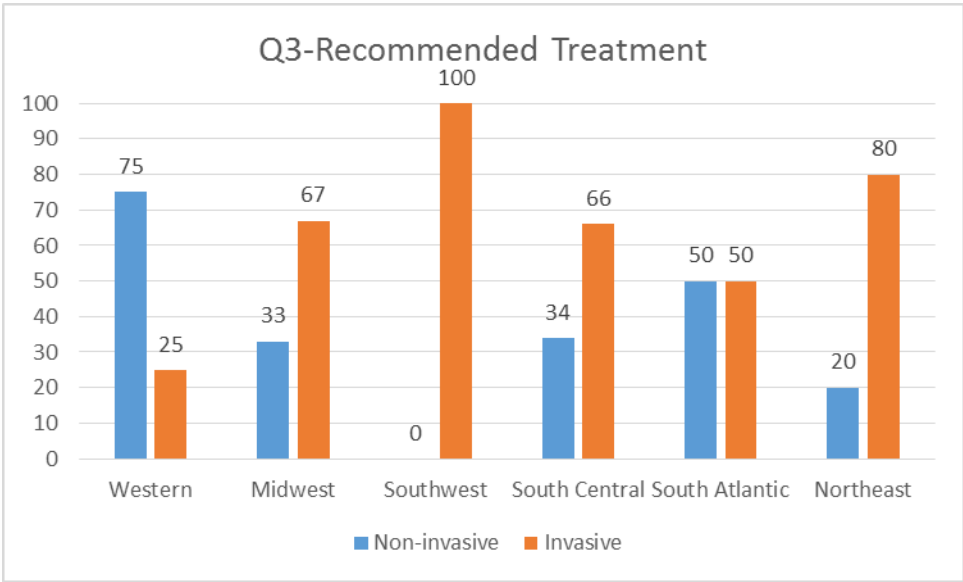
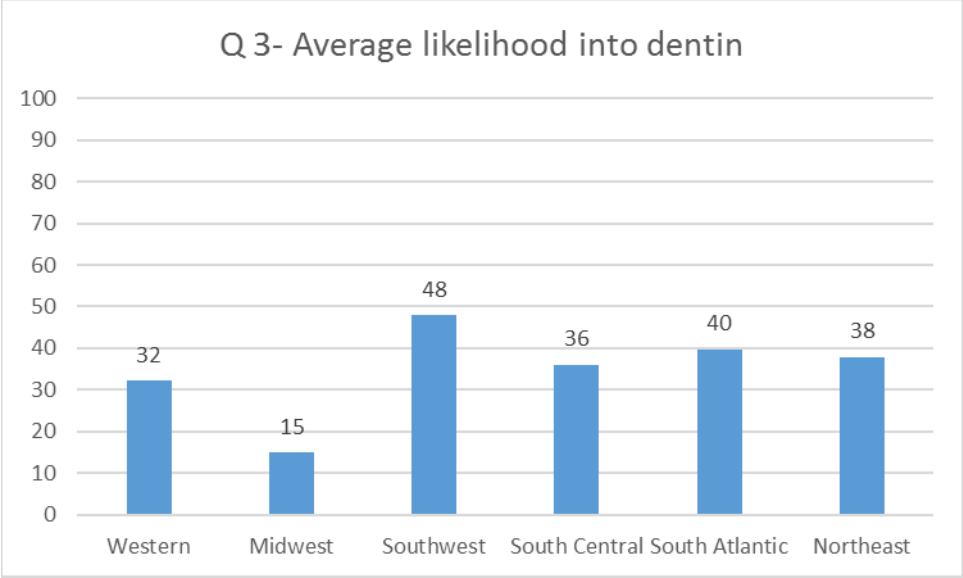


- The highest percentages for specific treatment in each region were as follows:
- Western: 50% sealant (minimal drilling or air abrasion)
  - Midwest: 67% sealant (minimal drilling or air abrasion)
  - Southwest: 60% full restoration
  - South Central: 33% sealant (minimal drilling or air abrasion); 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.

Figure 3.

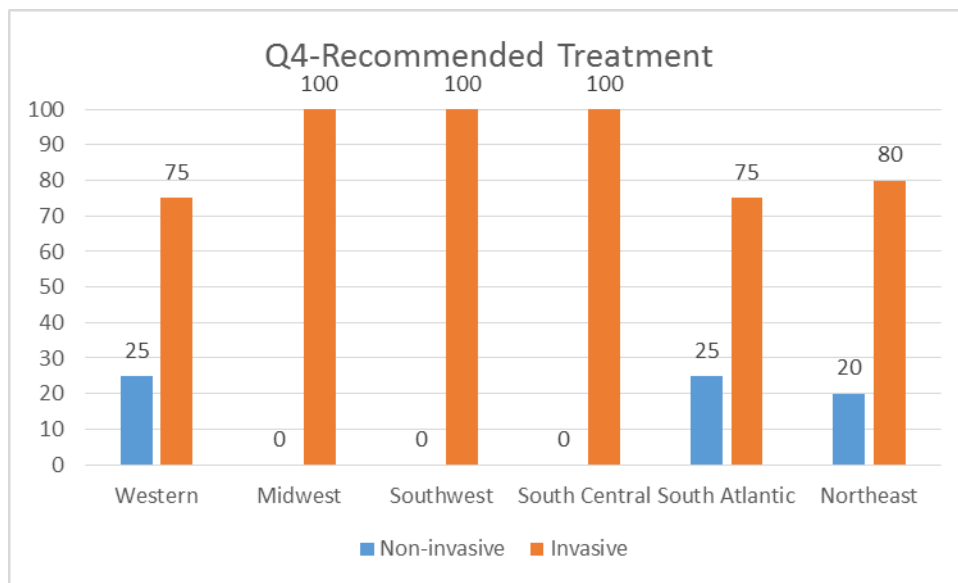
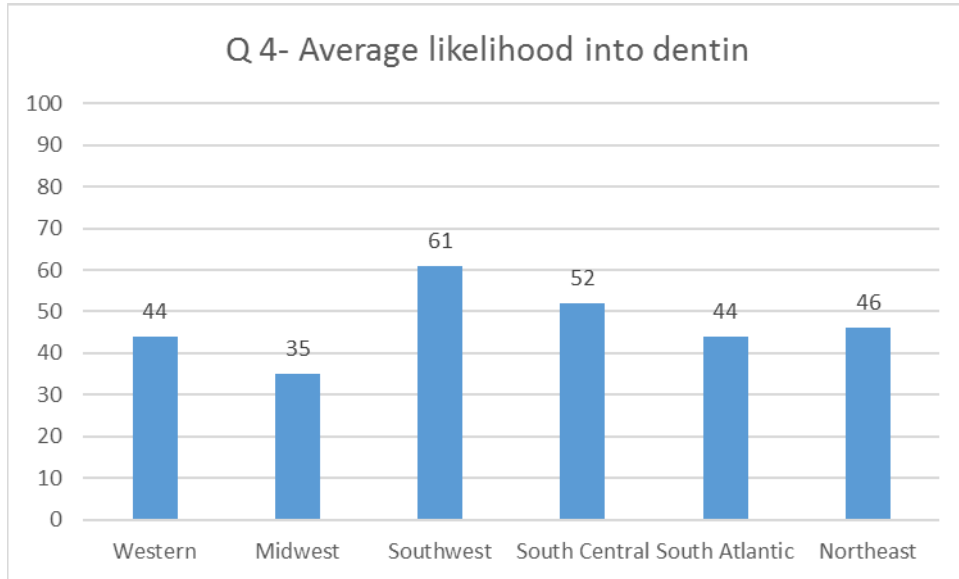


- The highest percentages for specific treatment in each region were as follows:
- Western: 50% preventive treatment
  - Midwest: 33% preventive treatment; sealant (minimal drilling or air abrasion); preventive resin restoration
  - Southwest: 40% preventive resin restoration; full restoration
  - South 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.

Figure 4.



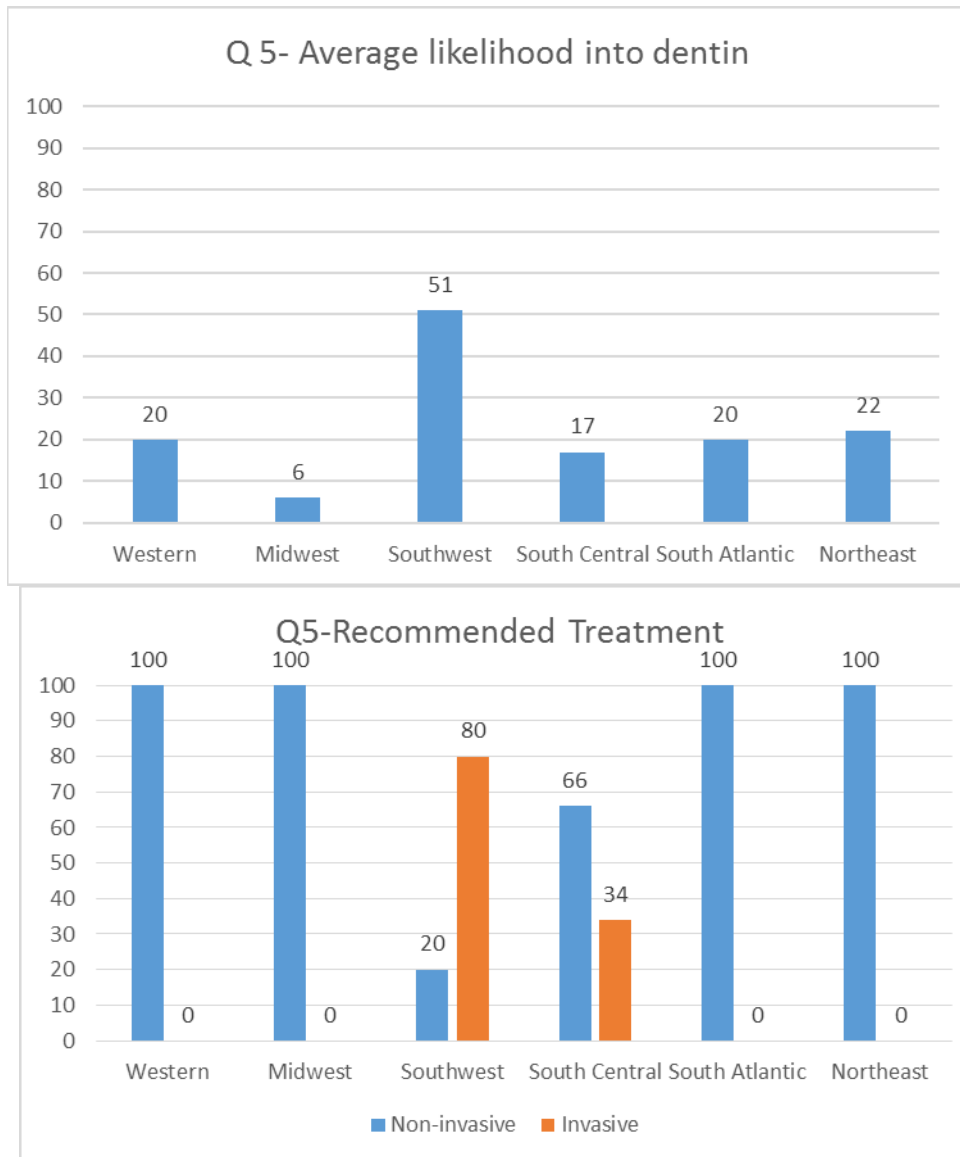
The highest percentages for specific treatment in each region were as follows:

- 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.

Figure 5.



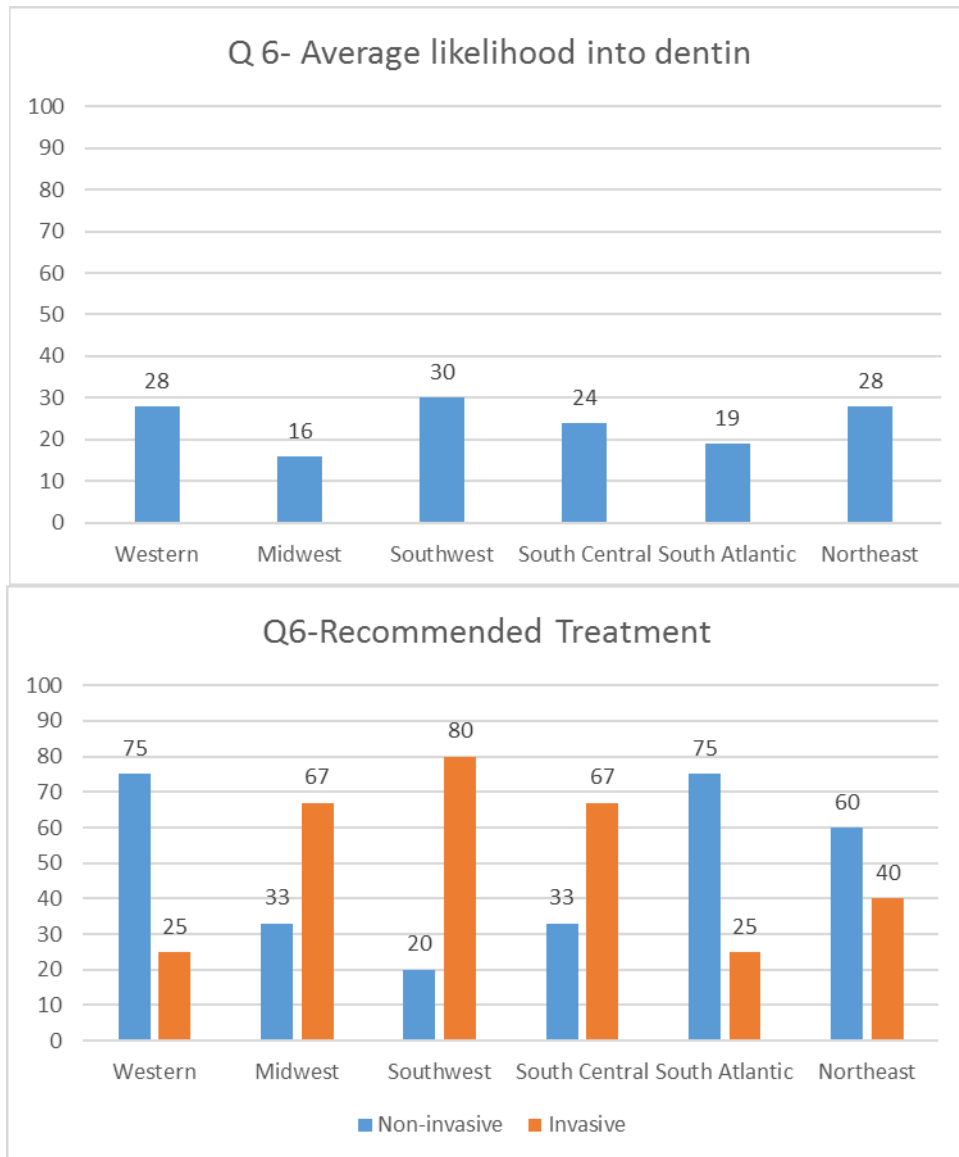
The highest percentages for specific treatment in each region were as follows:

- 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.

Figure 6.



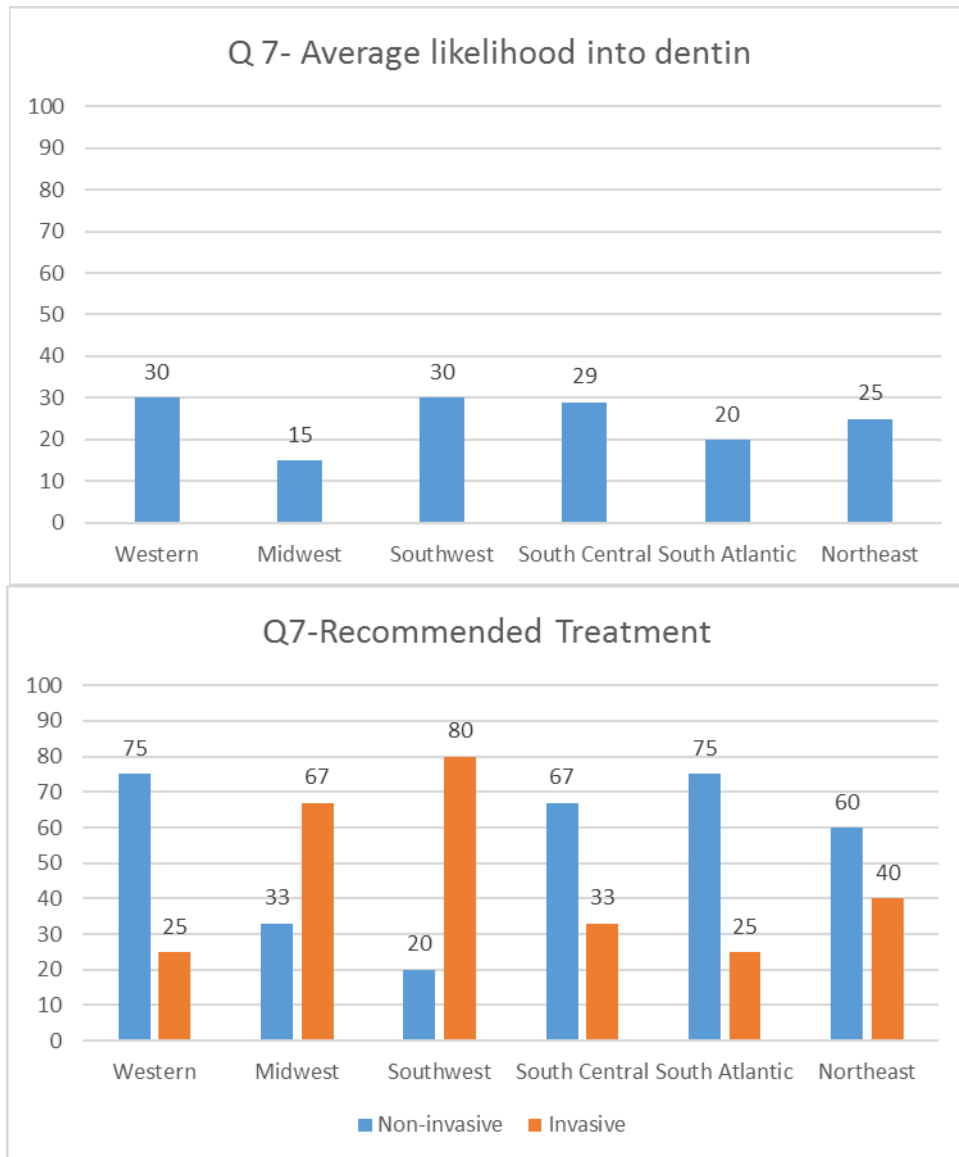
The highest percentages for specific treatment in each region were as follows:

- 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.

Figure 7.



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

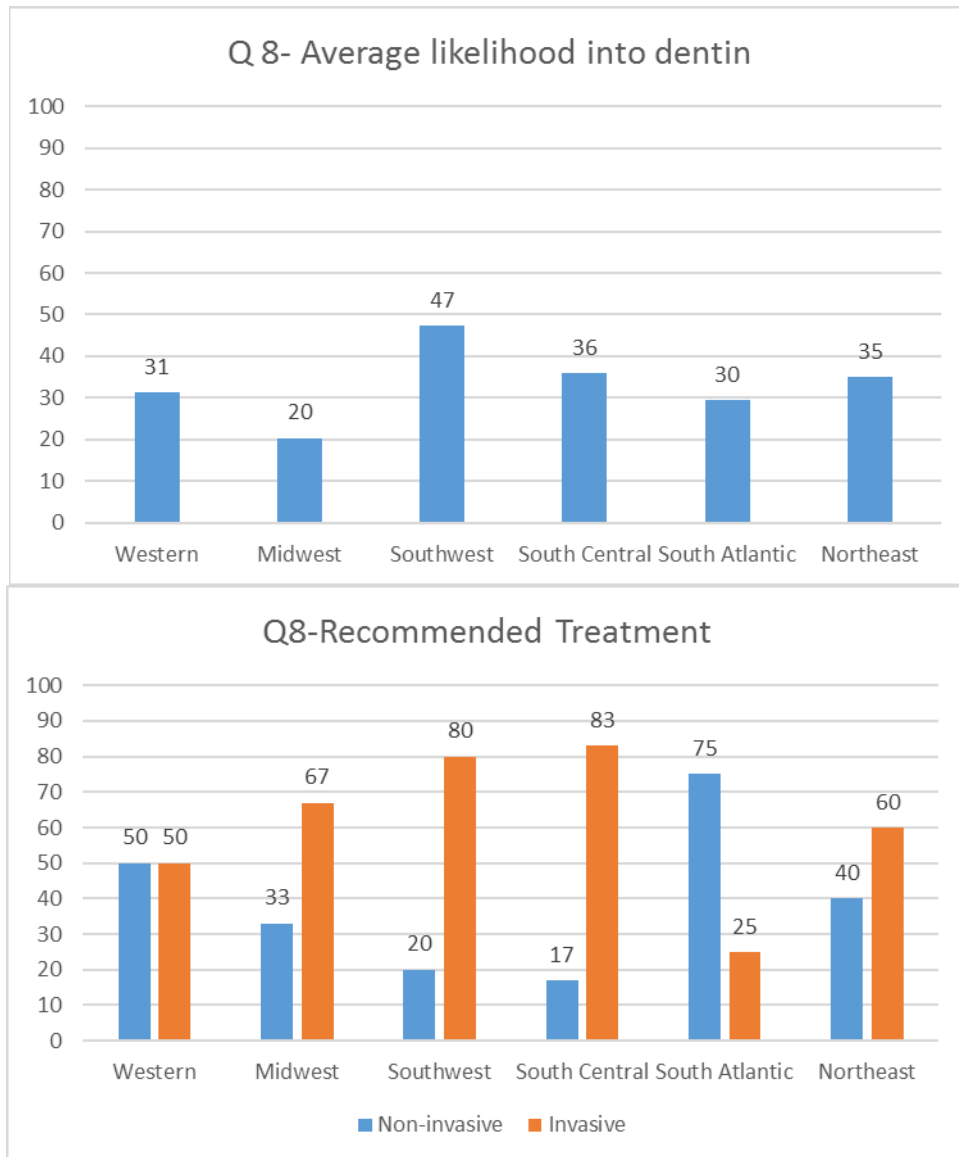
- Western: 75% preventive treatment
- Midwest: 67% sealant (minimal drilling or air abrasion)
- Southwest: 40% preventive resin restoration
- South Central: 33% preventive treatment; preventive resin restoration
- South Atlantic: 50% no treatment
- Northeast: 40% no treatment





You consider this patient to be at **elevated** risk for caries. Upon examination, the suspicious areas feel **rough**. The Spectra reading was 1.5.

Figure 8.



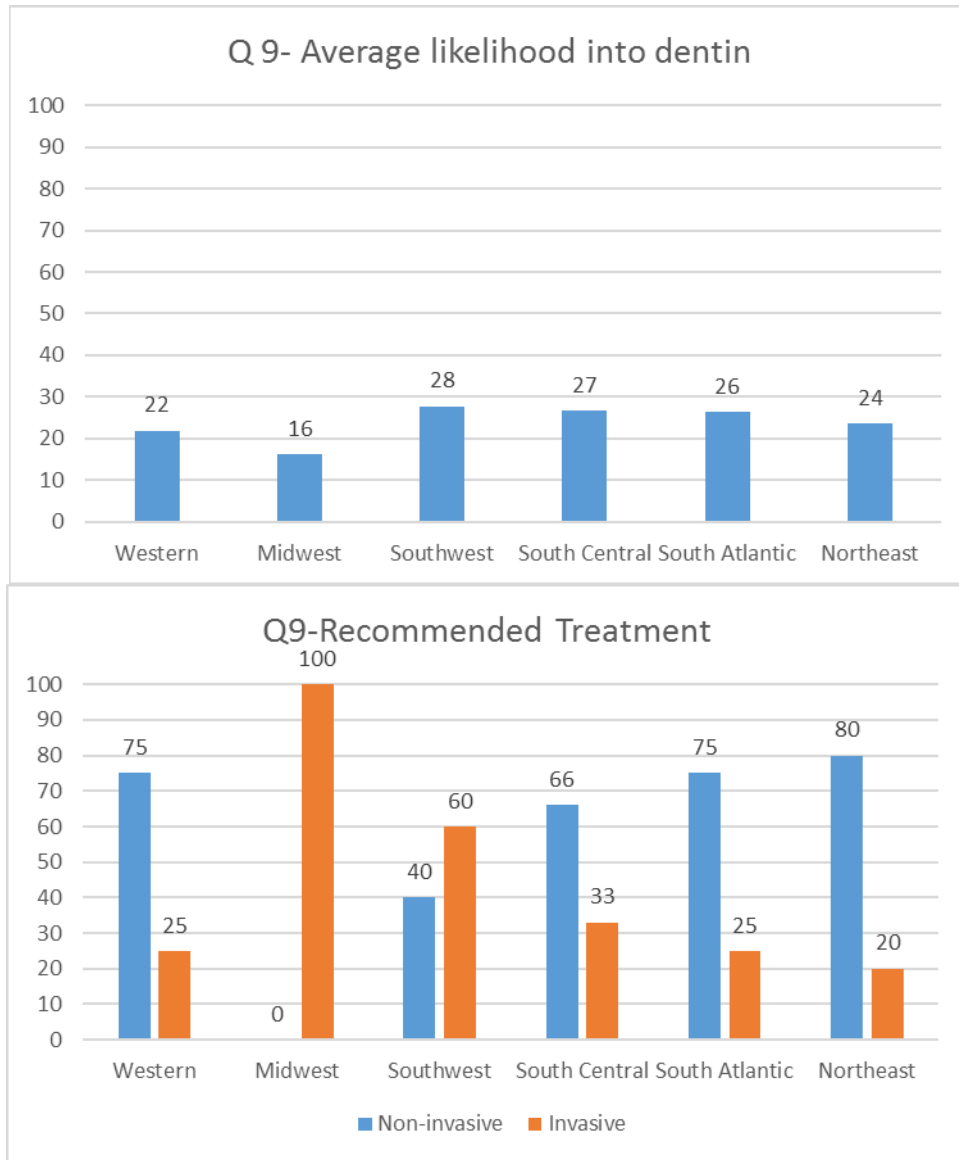
The highest percentages for specific treatment in each region were as follows:

- Western: 50% preventive treatment
- Midwest: 67% sealant (minimal drilling or air abrasion)
- Southwest: 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.

Figure 9.



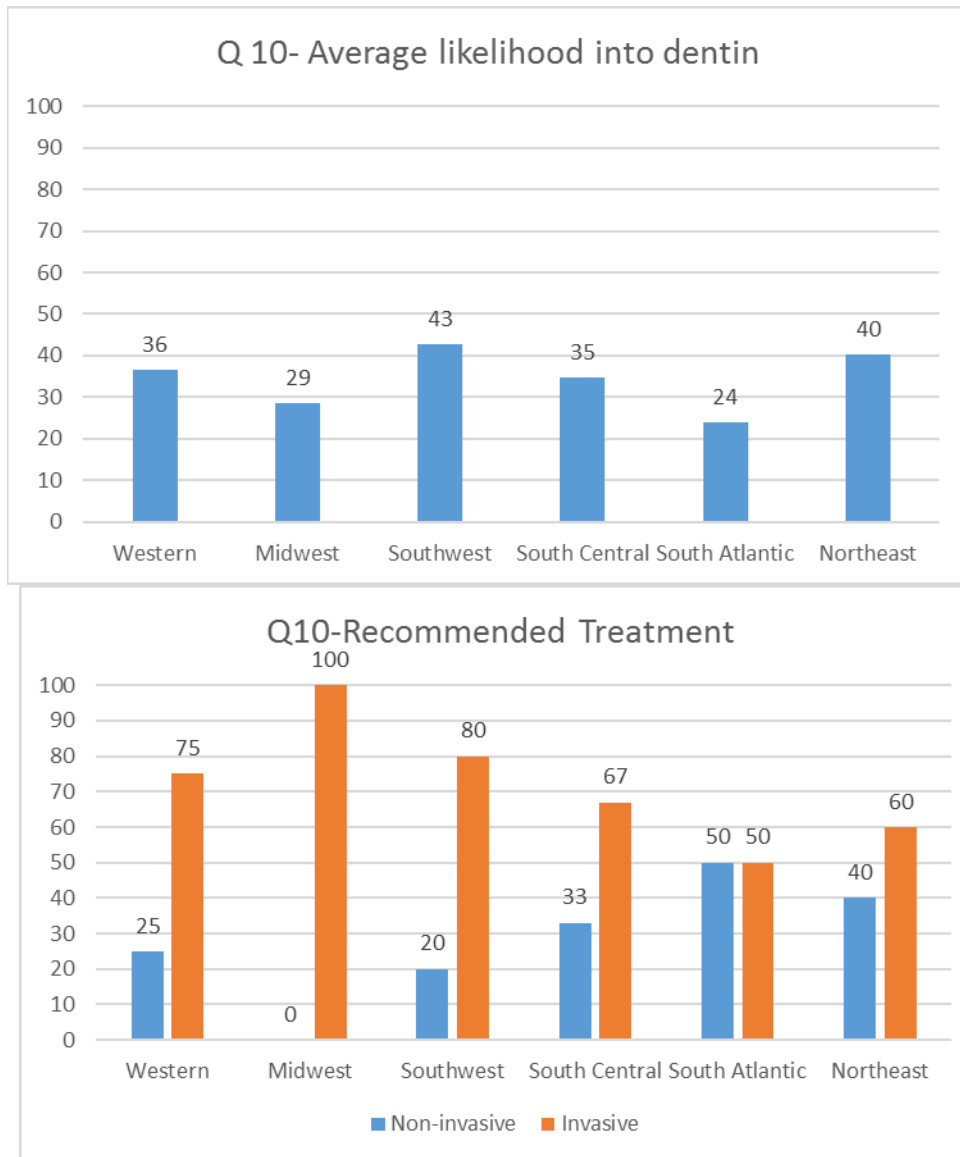
The highest percentages for specific treatment in each region were as follows:

- 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.

Figure 10.



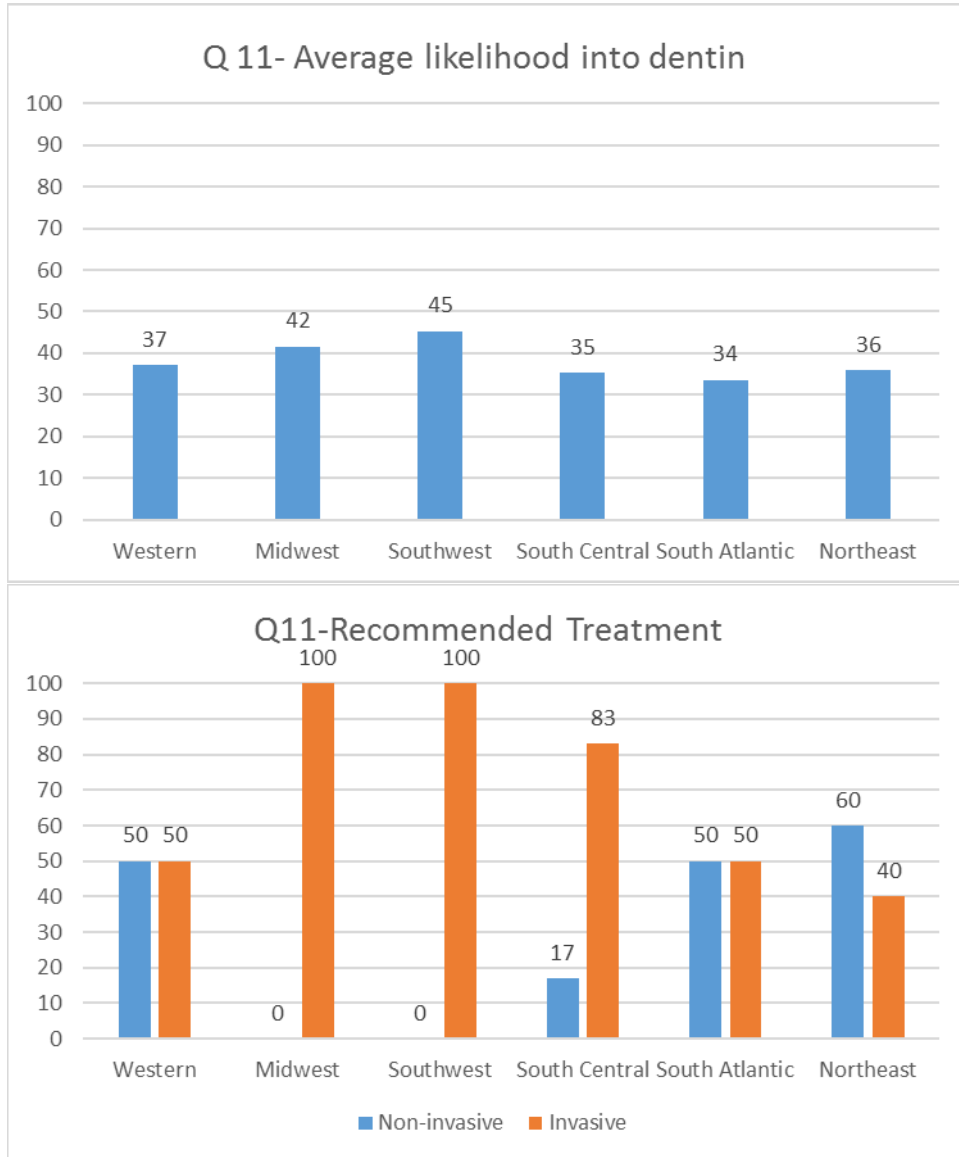
The highest percentages for specific treatment in each region were as follows:

- 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

You consider this patient to be at ***elevated*** risk for caries. Upon examination, the suspicious areas feel ***smooth***. The Spectra reading was 1.5.



Figure 11.



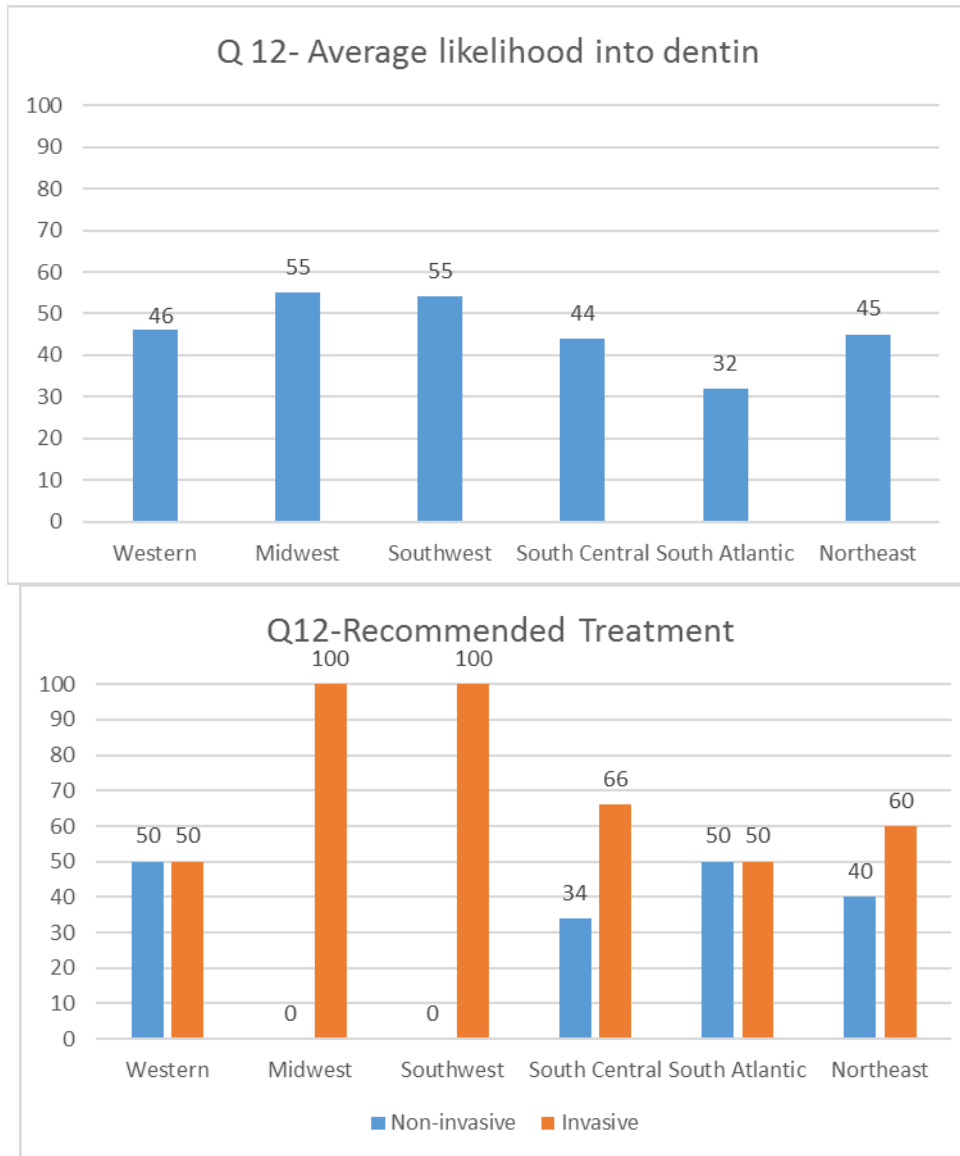
The highest percentages for specific treatment in each region were as follows:

- 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.



Figure 12.



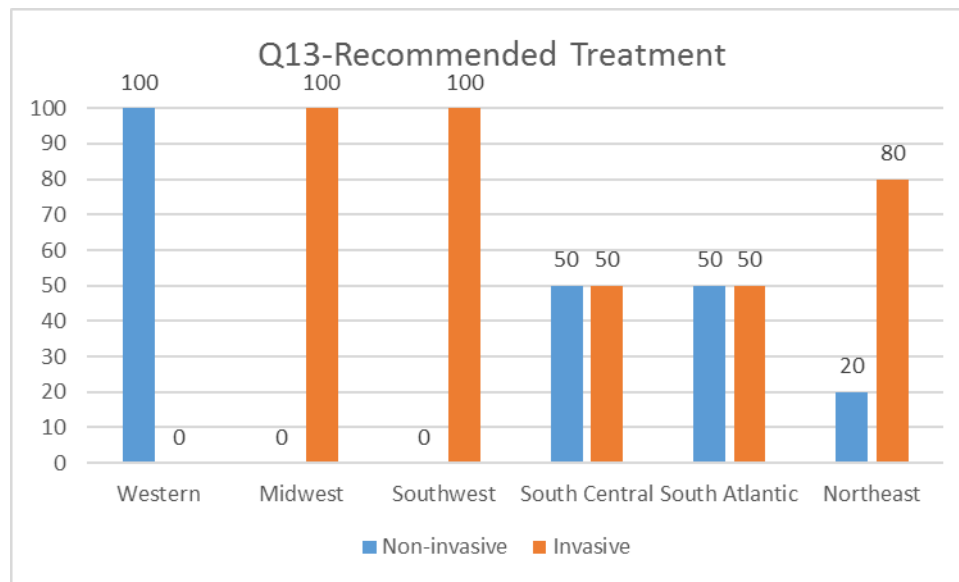
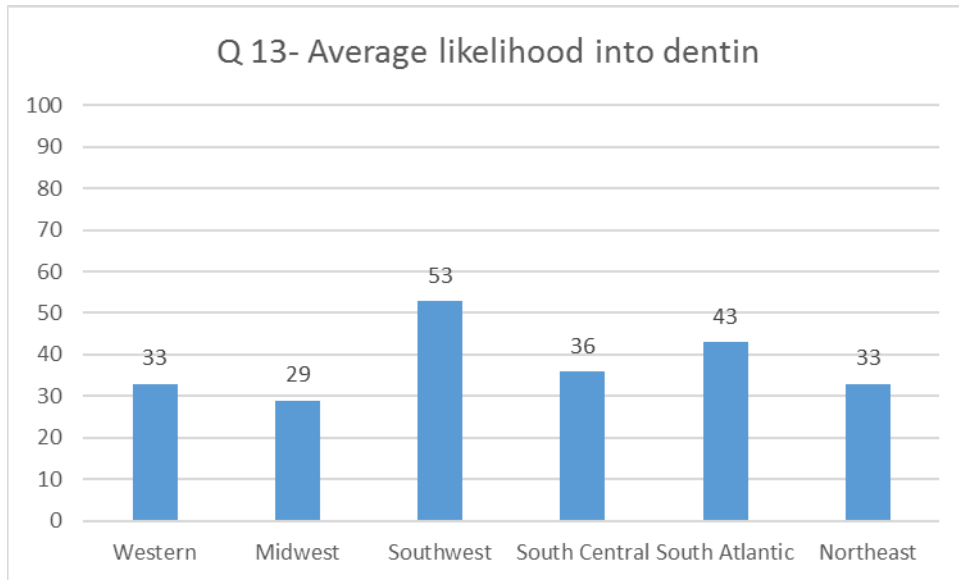
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 13.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **smooth**. The Spectra reading was 1.5.



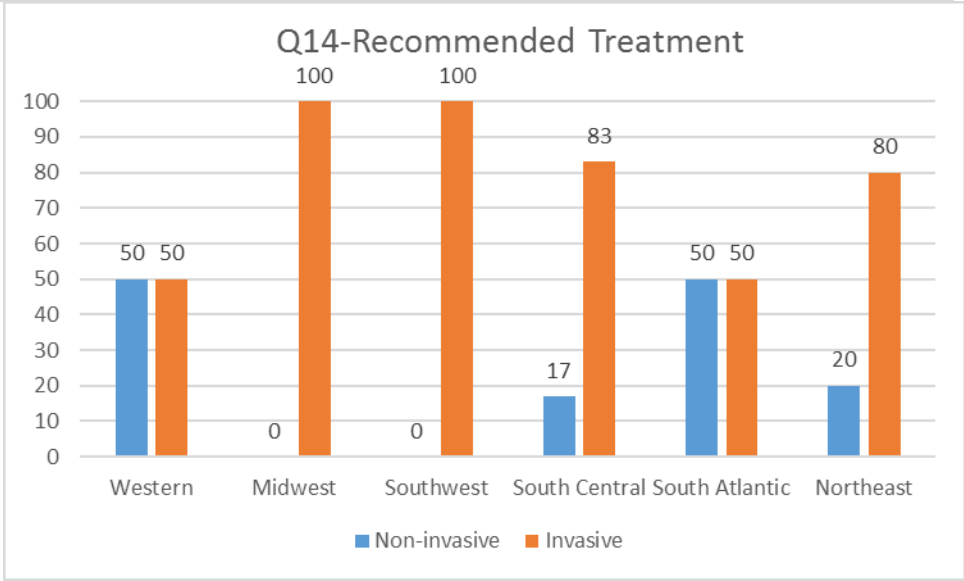
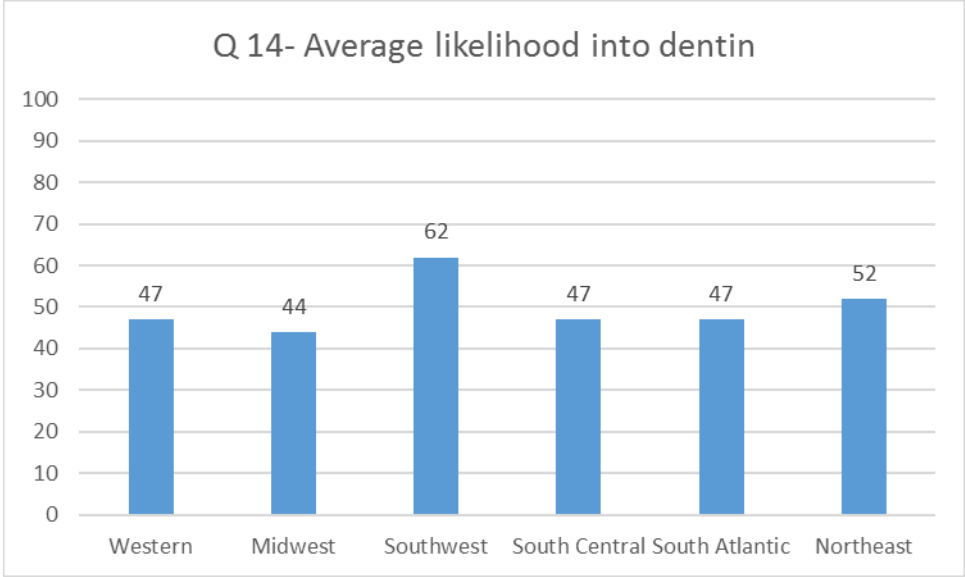
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 14.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **rough**. The Spectra reading was 1.5.

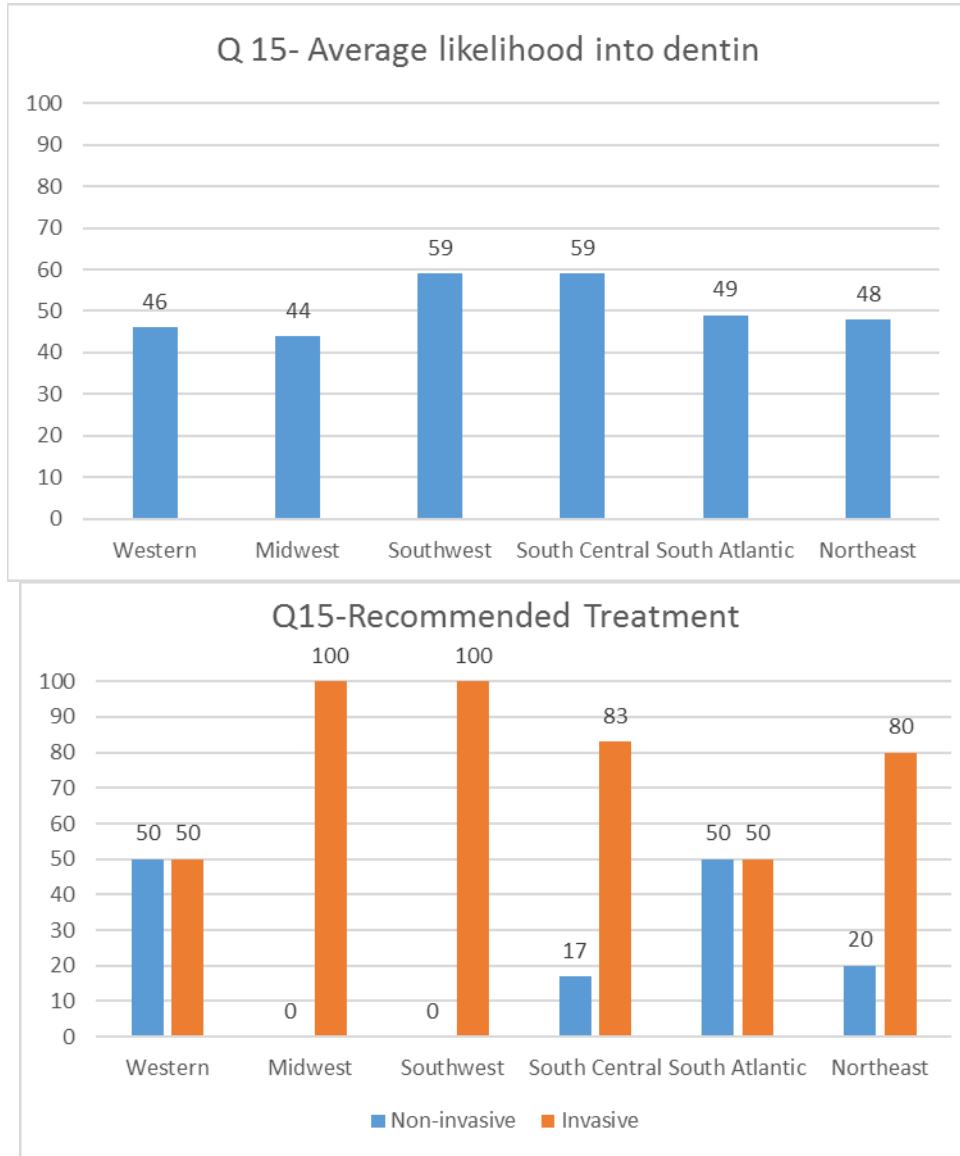


- The highest percentages for specific treatment in each region were as follows:
- Western: 25% preventive treatment; sealant; preventive resin restoration; full restoration
  - Midwest: 67% sealant (minimal drilling or air abrasion)
  - Southwest: 60% full restoration
  - South Central: 50% preventive 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.

Figure 15.



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

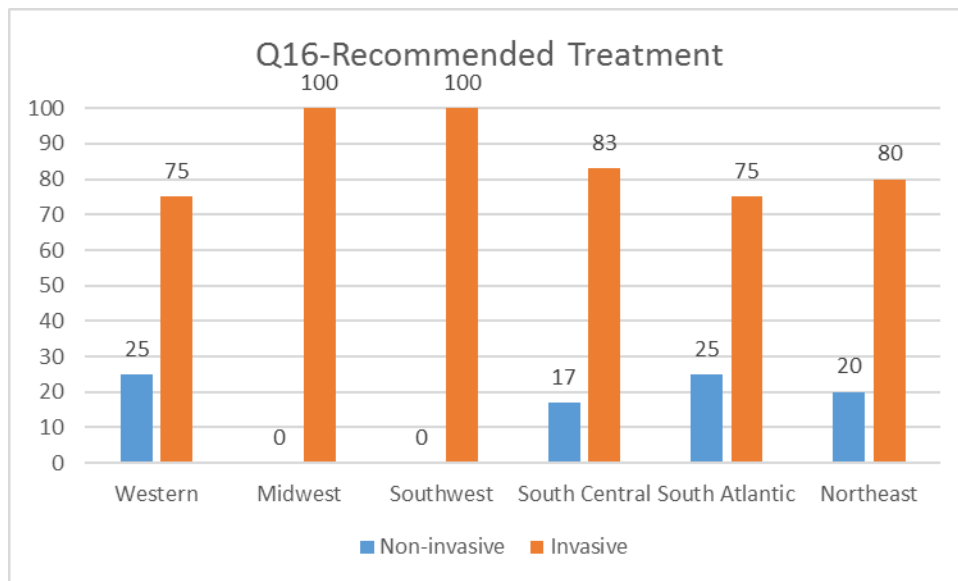
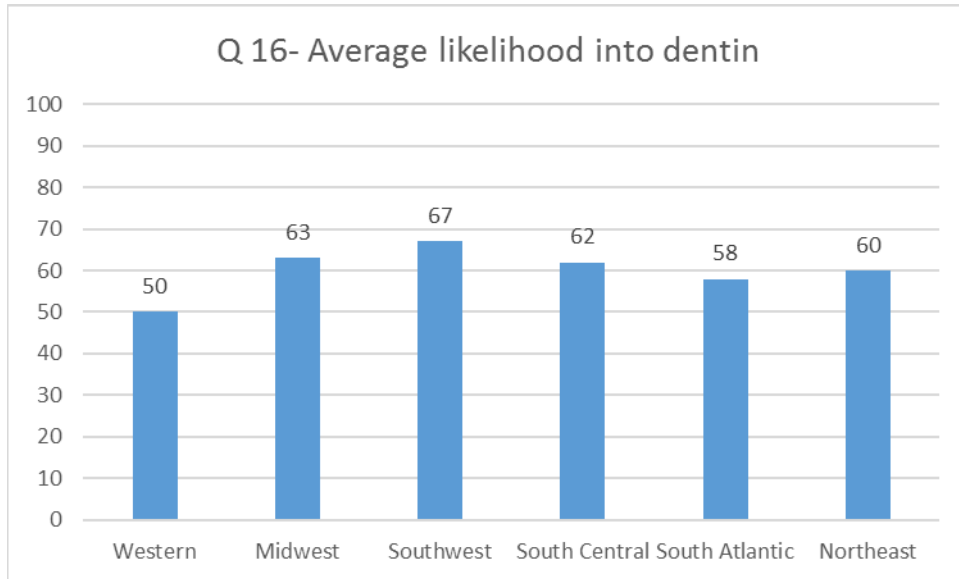
- Western: 50% preventive treatment; preventive resin restoration
- Midwest: 67% sealant (minimal drilling or air abrasion)
- Southwest: 60% preventive resin restoration
- South Central: 50% preventive resin restoration
- South Atlantic: 25% no treatment; preventive treatment; preventive resin restoration; full restoration
- Northeast: 60% full restoration





Figure 16.

You consider this patient to be at ***elevated*** risk for caries. Upon examination, the suspicious areas feel ***rough***. The Spectra reading was 1.5.



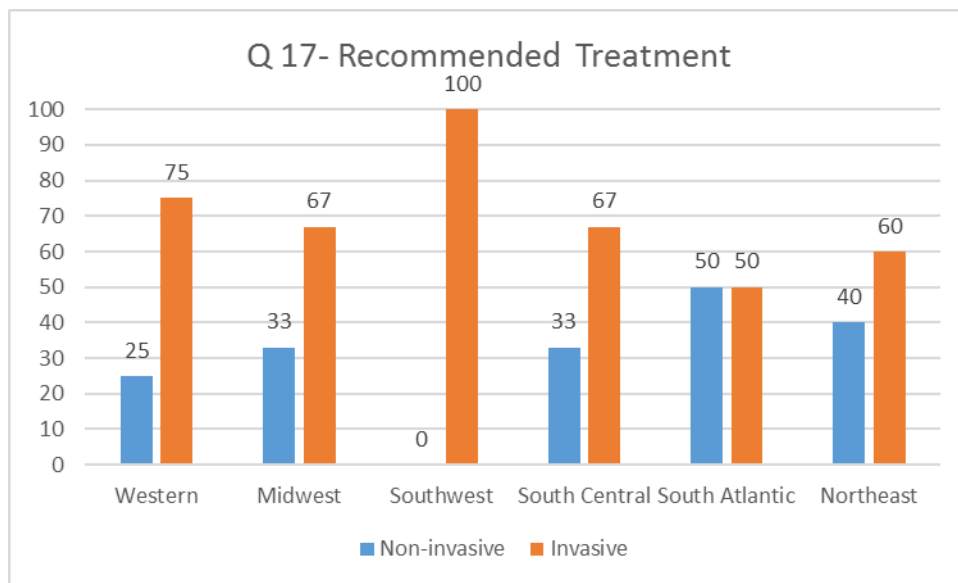
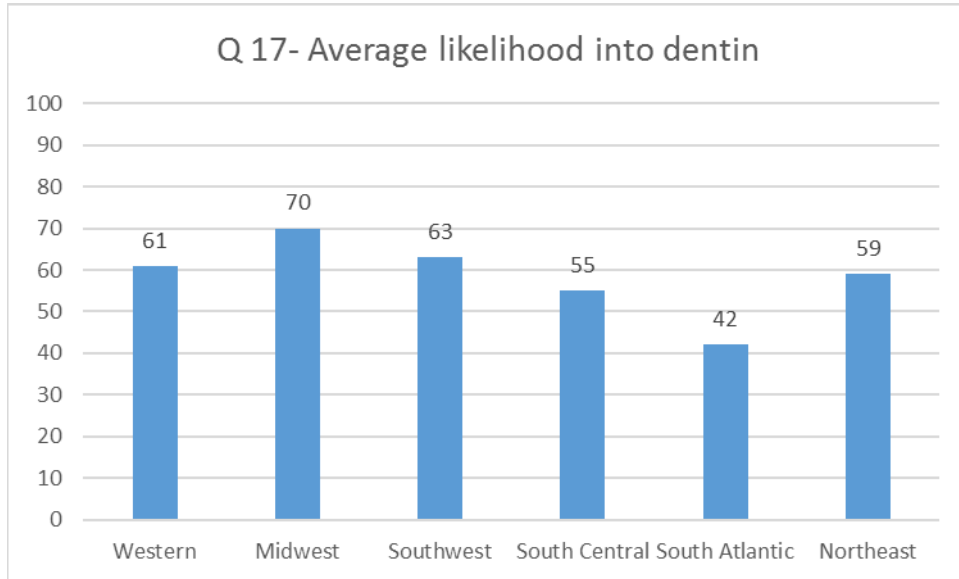
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 17.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **smooth**. The Spectra reading was 2.25.



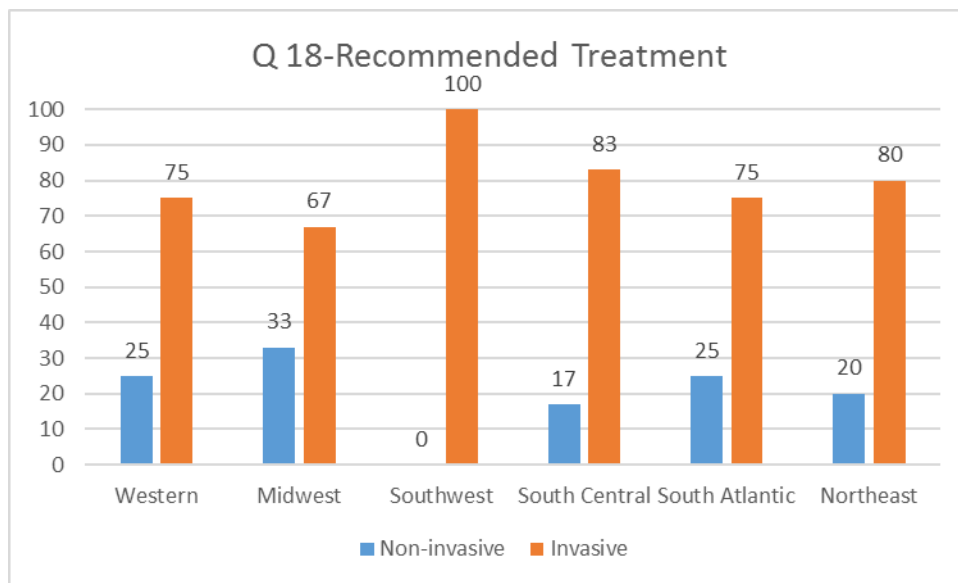
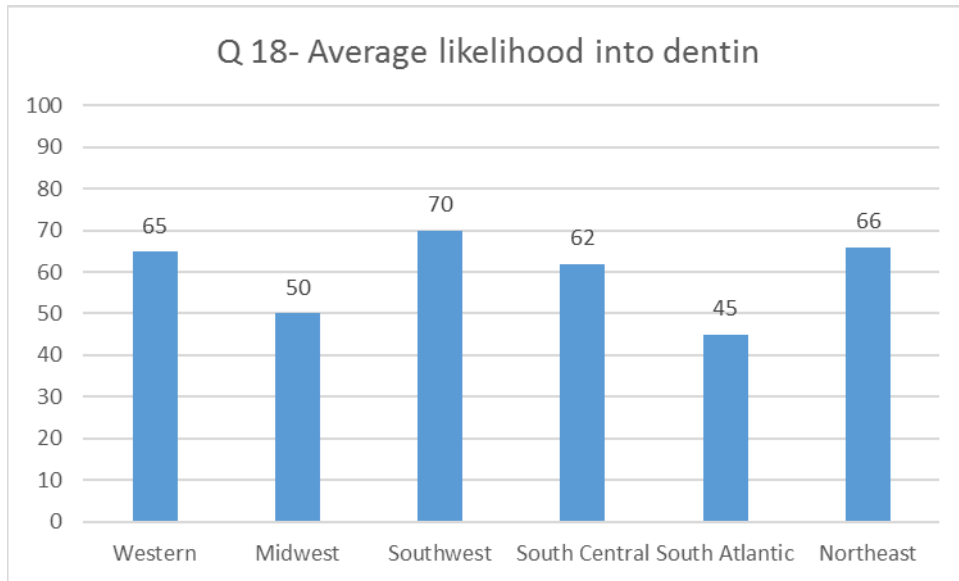
The highest percentages for specific treatment in each region were as follows:

- 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.

Figure 18.



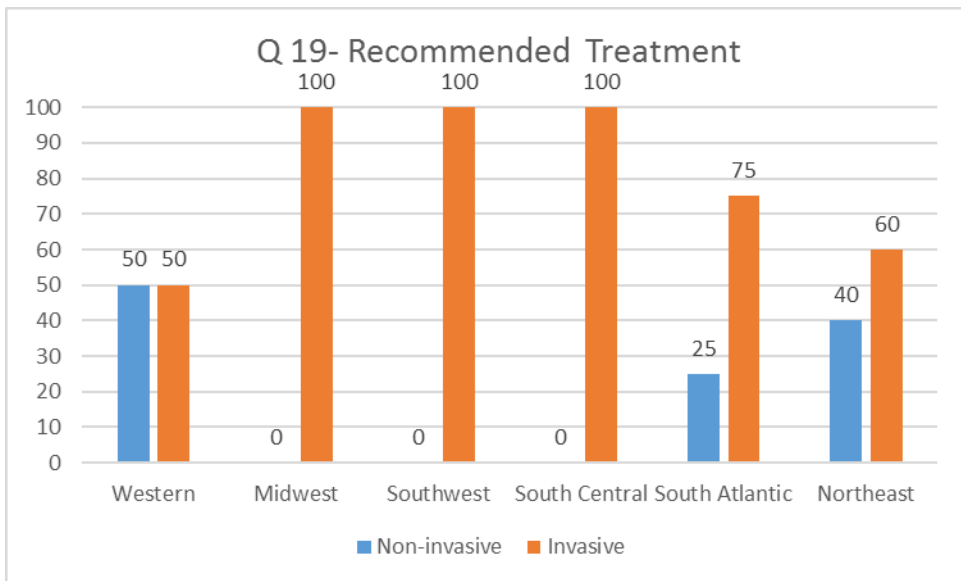
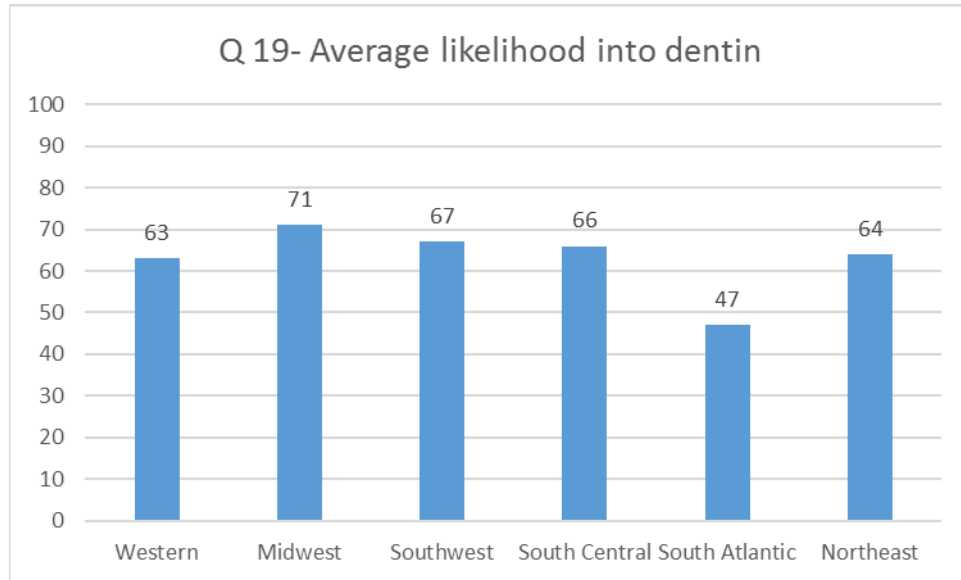
The highest percentages for specific treatment in each region were as follows:

- 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)
- 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 2.25.

Figure 19.



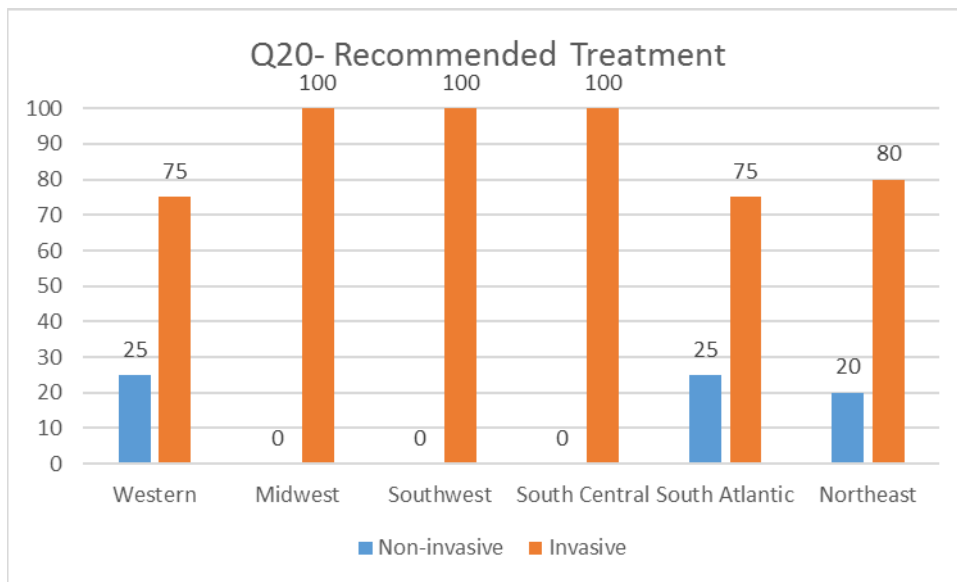
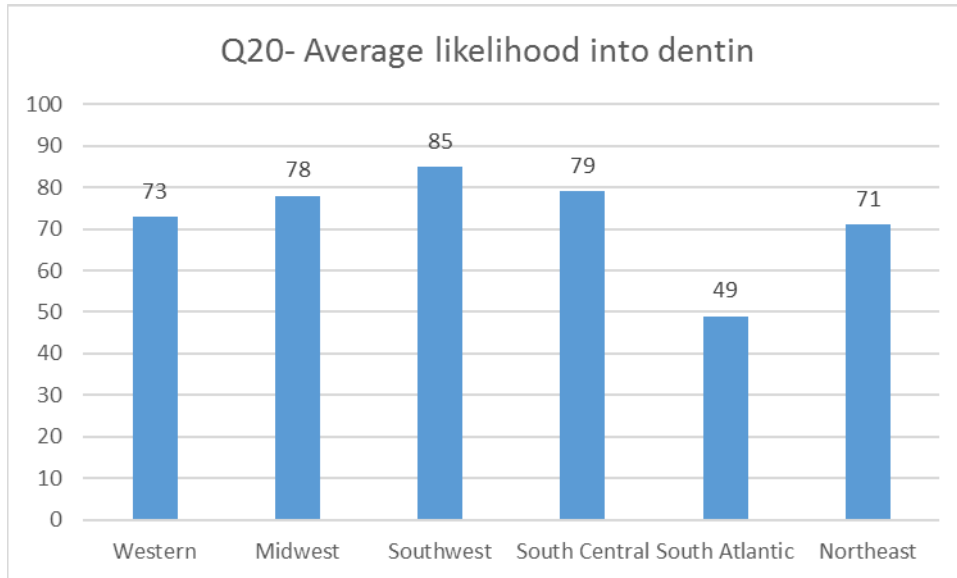
The highest percentages for specific treatment in each region were as follows:

- Western: 25% preventive treatment; sealant; preventive resin restoration; full restoration
- Midwest: 67% full restoration
- Southwest: 80% full restoration
- South Central: 50% full restoration
- South Atlantic: 25% preventive treatment; sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration
- Northeast: 60% full restoration



Figure 20.

You consider this patient to be at ***elevated*** risk for caries. Upon examination, the suspicious areas feel ***rough***. The Spectra reading was 2.25.



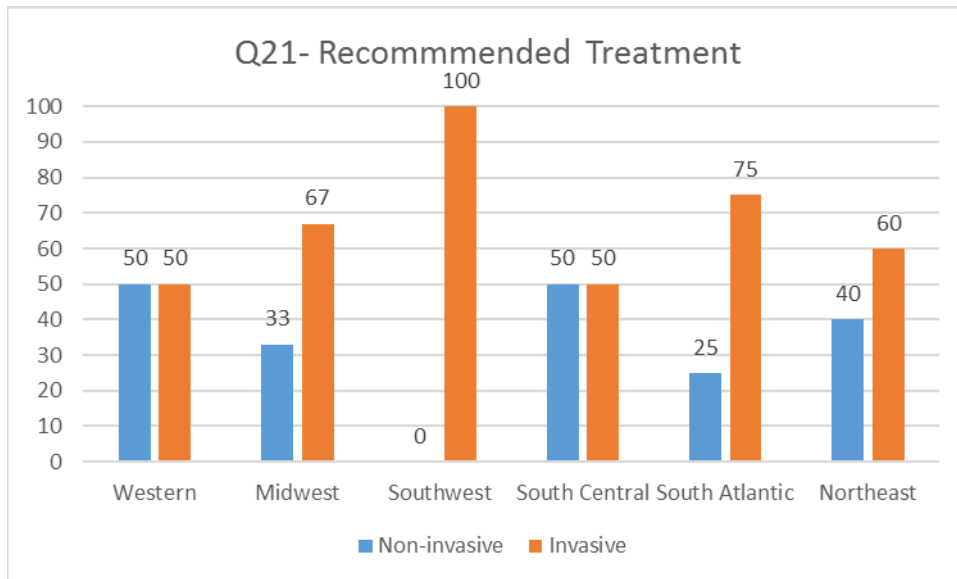
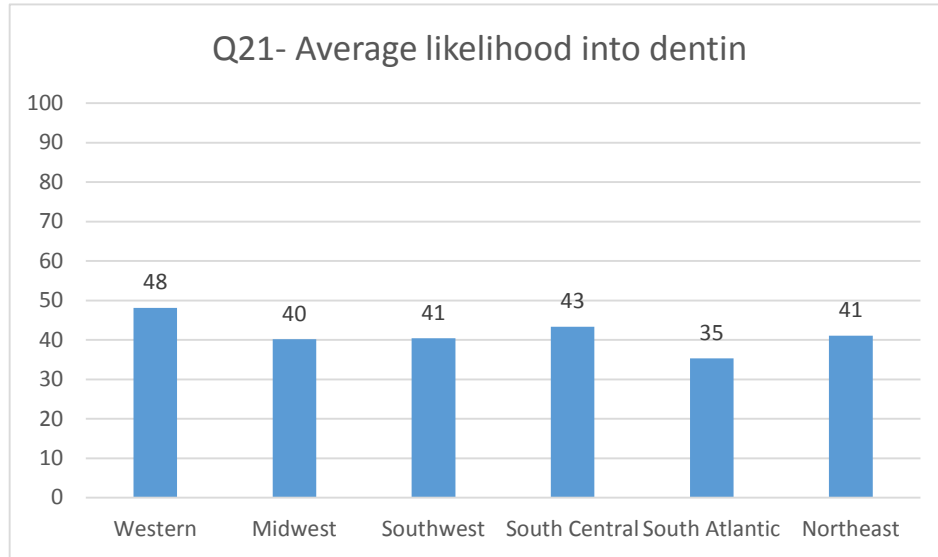
The highest percentages for specific treatment in each region were as follows:

- Western: 50% full restoration
- Midwest: 67% full restoration
- Southwest: 80% full restoration
- South Central: 67% full restoration
- South Atlantic: 50% full restoration
- Northeast: 80% 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.

Figure 21.



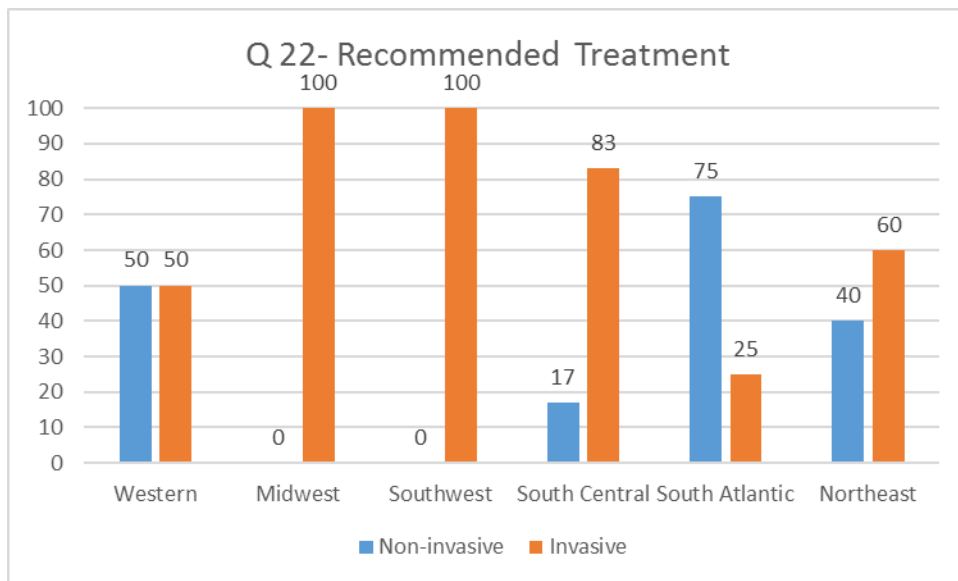
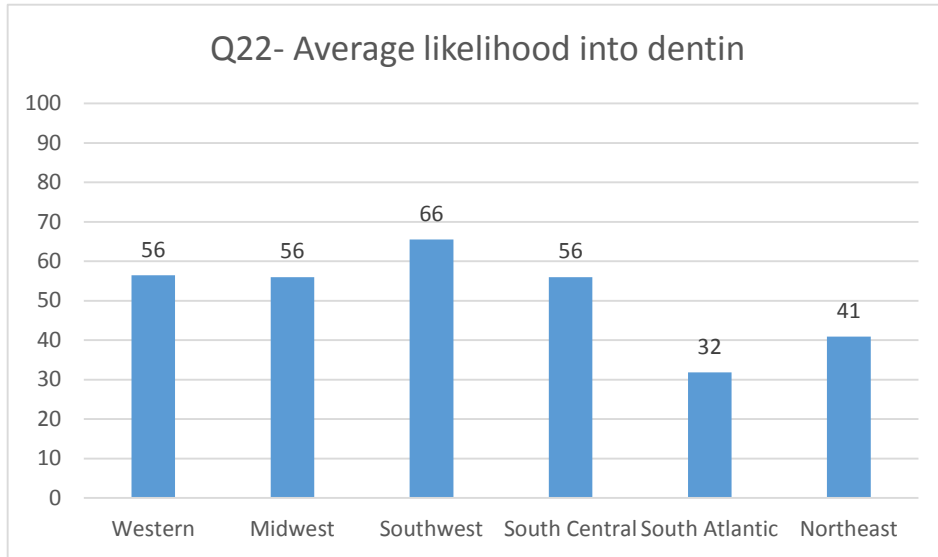
The highest percentages for specific treatment in each region were as follows:

- Western: 50% preventive treatment
- Midwest: 33% preventive treatment; sealant (minimal drilling or air abrasion); 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.

Figure 22.

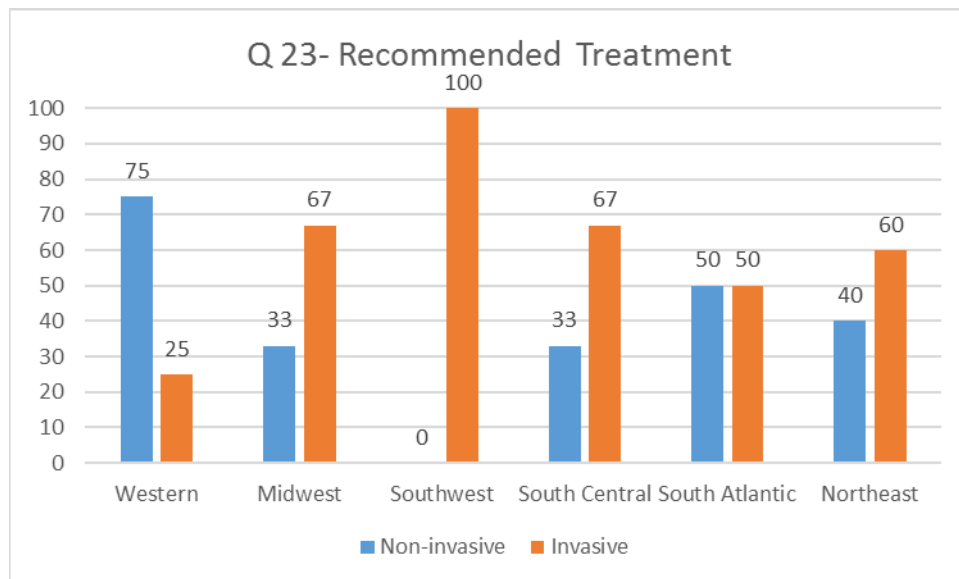
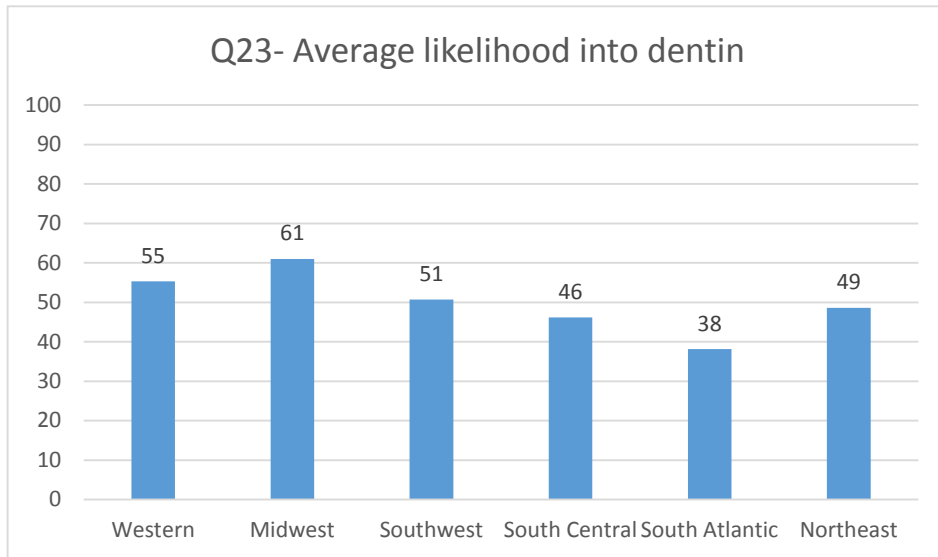


- The highest percentages for specific treatment in each region were as follows:
- Western: 50% preventive treatment
  - Midwest: 67% sealant (minimal drilling or air abrasion)
  - Southwest: 80% full restoration
  - South Central: 50% preventive resin restoration
  - South Atlantic: 50% preventive treatment
  - Northeast: 40% preventive resin restoration



Figure 23.

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:

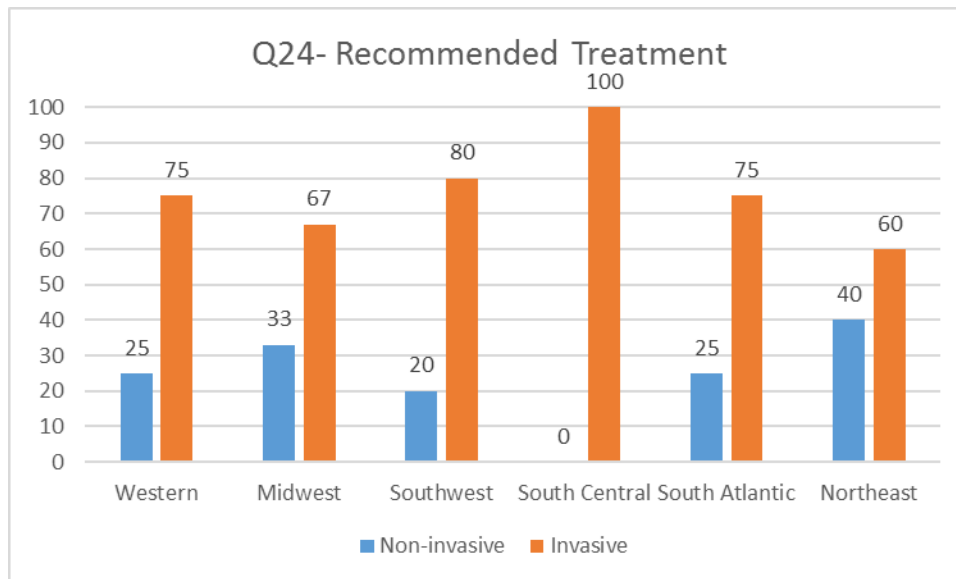
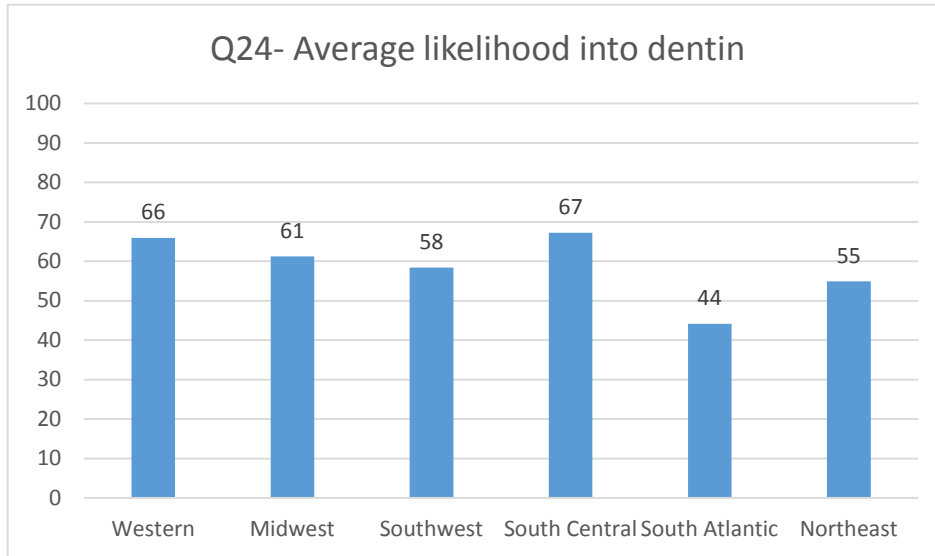
- Western: 50% preventive treatment
- Midwest: 33% no treatment; sealant (minimal drilling or air abrasion); full restoration
- Southwest: 60% full restoration
- South Central: 33% preventive treatment; preventive resin restoration; full restoration
- South Atlantic: 50% preventive treatment; preventive resin restoration
- Northeast: 20% no treatment; preventive treatment; sealant (minimal drilling or air abrasion); preventive resin restoration; full restoration





You consider this patient to be at **elevated** risk for caries. Upon examination, the suspicious areas feel **rough**. The Spectra reading was 2.25.

Figure 24.



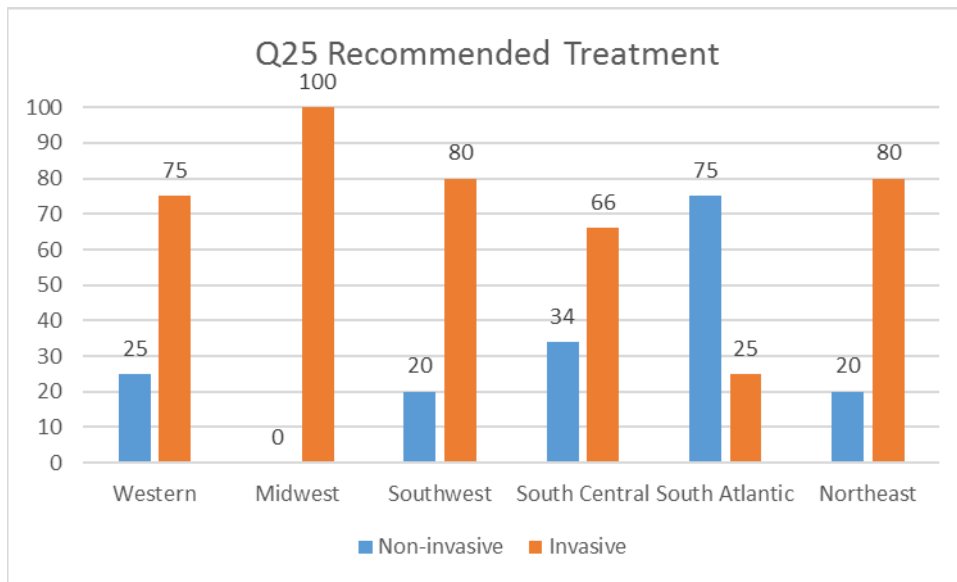
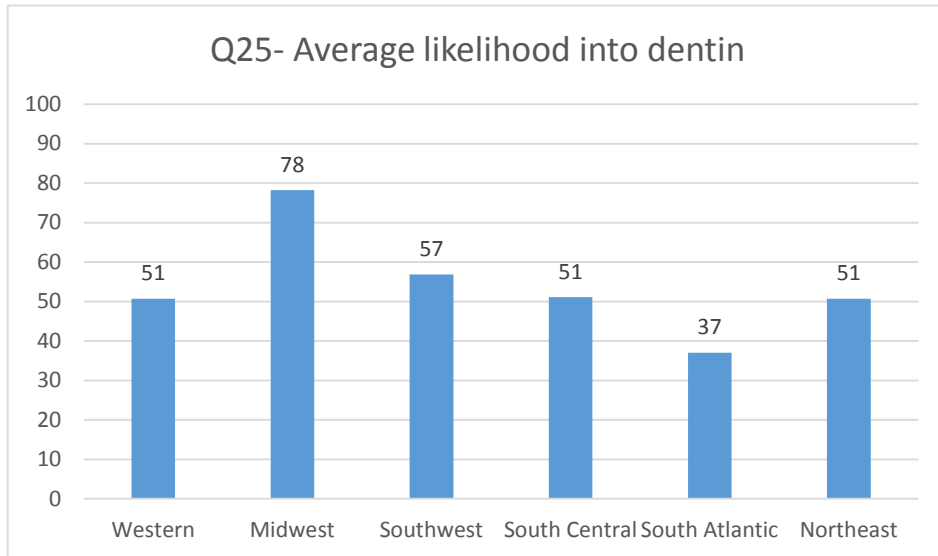
The highest percentages for specific treatment in each region were as follows:

- 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% preventive resin restoration
- Northeast: 40% full restoration



Figure 25.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **smooth**. The Spectra reading was 2.25.



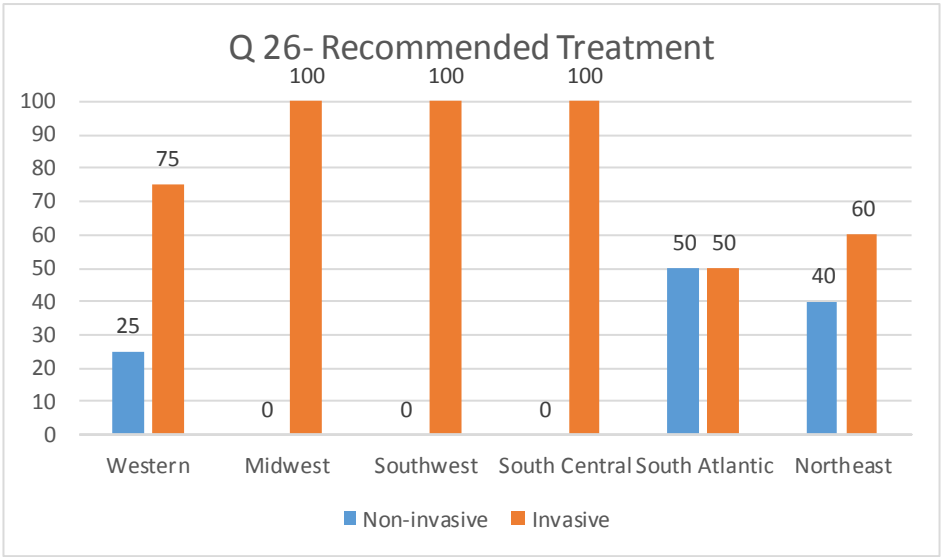
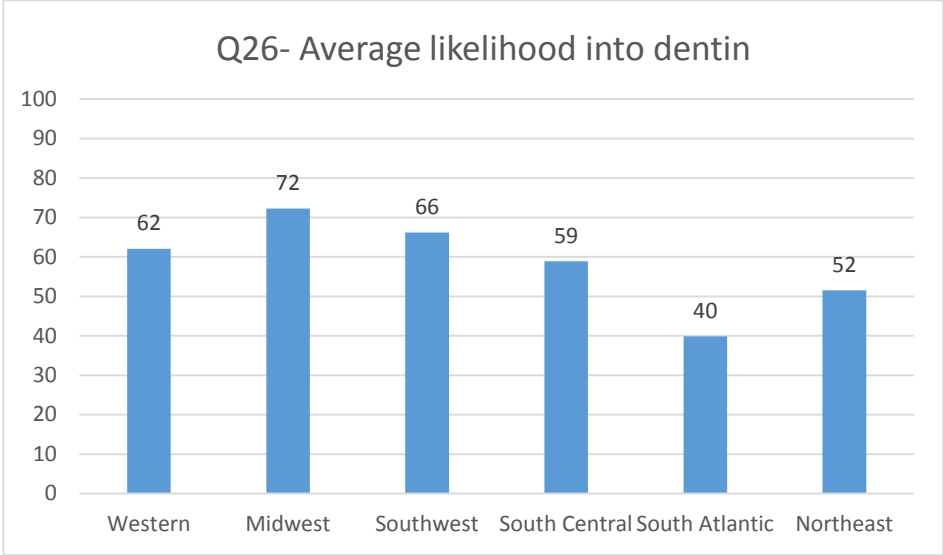
The highest percentages for specific treatment in each region were as follows:

- Western: 50% full restoration
- Midwest: 67% full restoration
- Southwest: 40% preventive resin restoration; full restoration
- South Central: 50% full restoration
- South Atlantic: 50% preventive treatment
- Northeast: 80% full restoration



Figure 26.

You consider this patient to be at ***elevated*** risk for caries. Upon examination, the suspicious areas feel ***smooth***. The Spectra reading was 2.25.



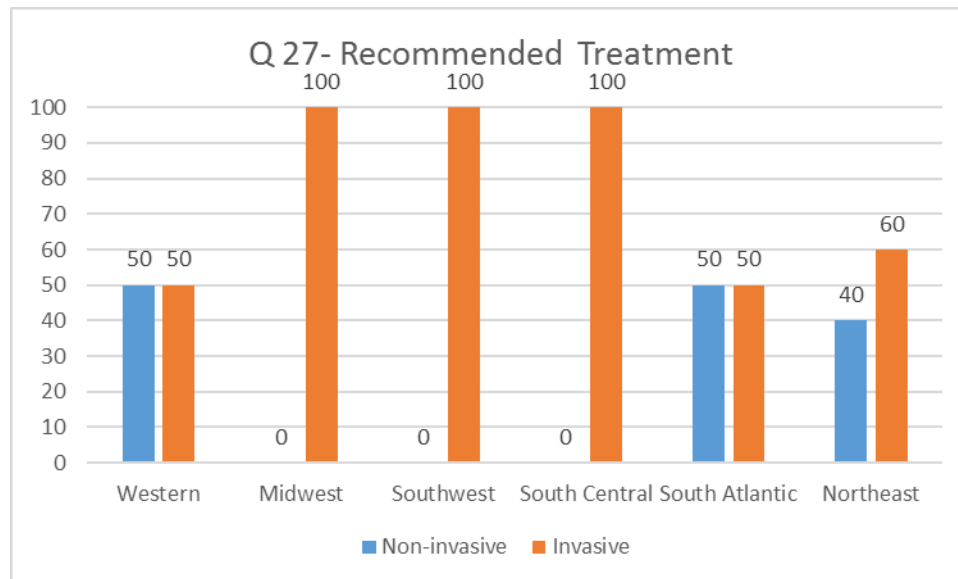
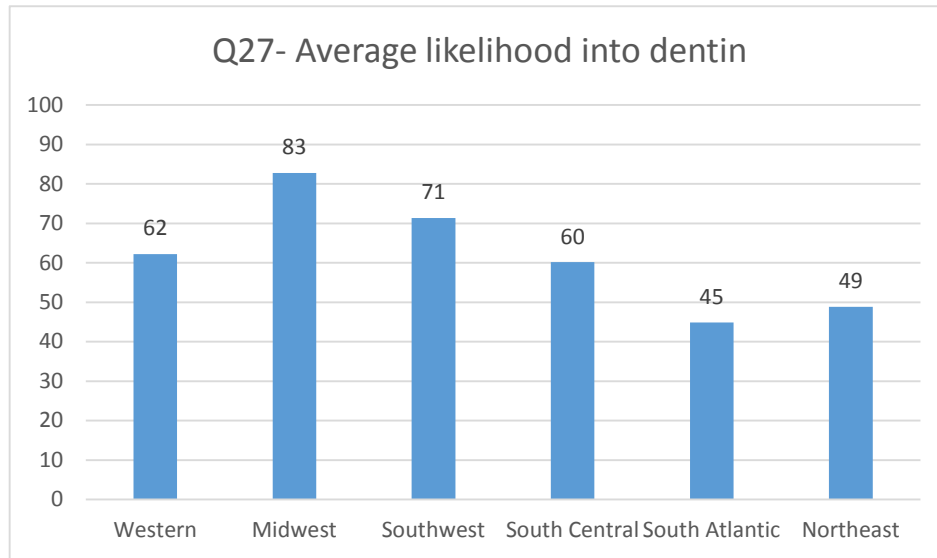
The highest percentages for specific treatment in each region were as follows:

- 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.

Figure 27.



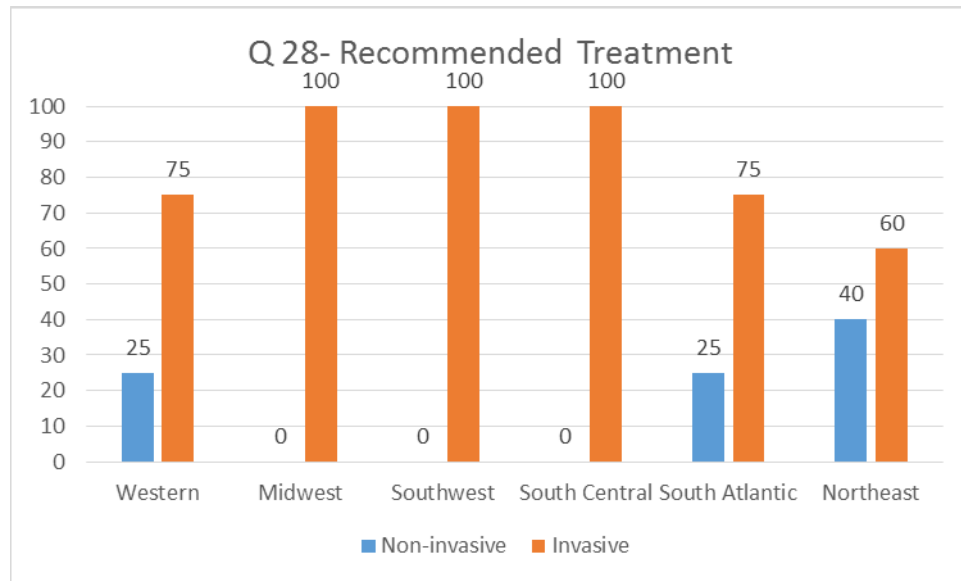
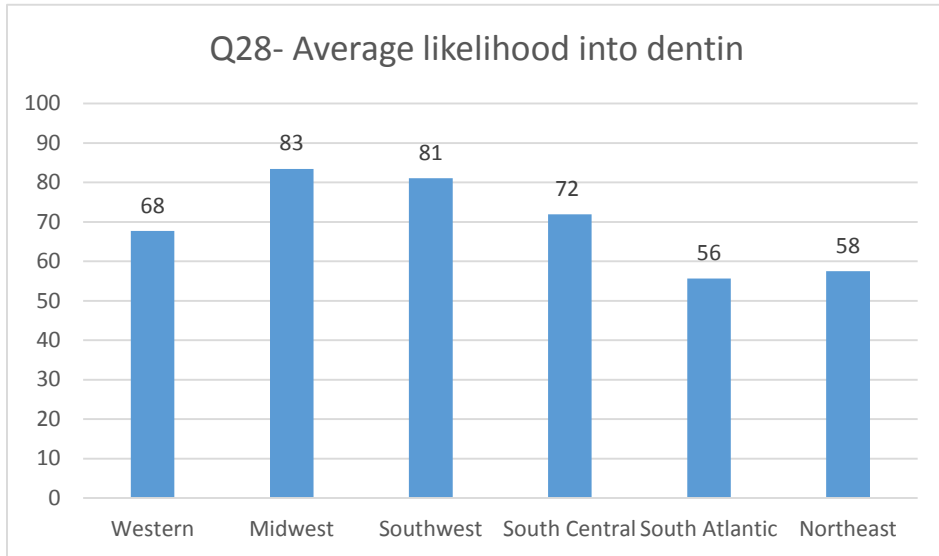
The highest percentages for specific treatment in each region were as follows:

- 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.

Figure 28.



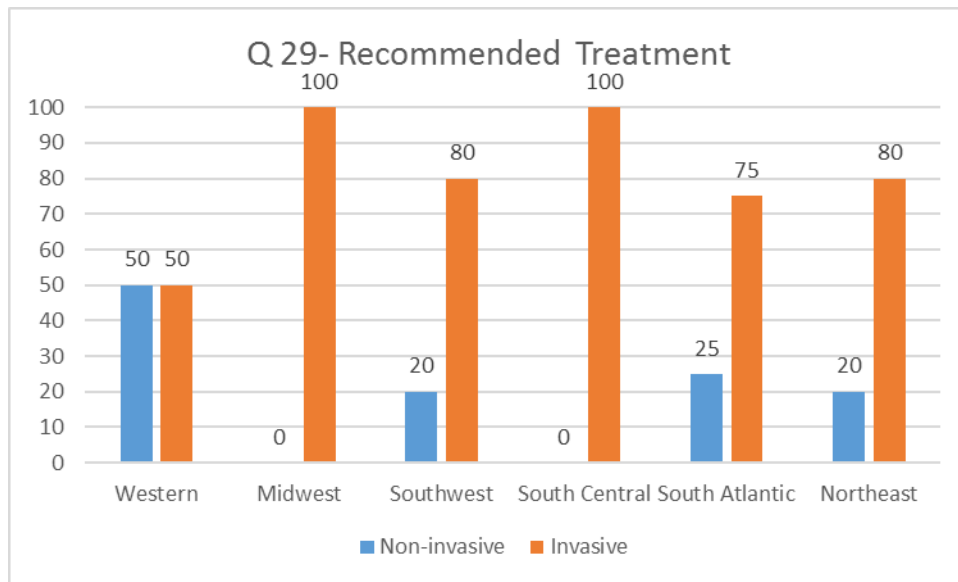
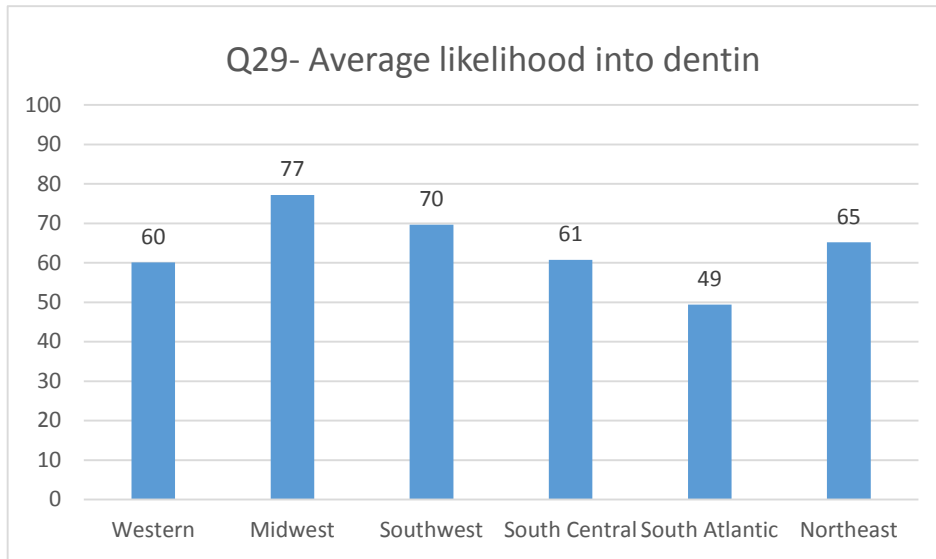
The highest percentages for specific treatment in each region were as follows:

- 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.

Figure 29.



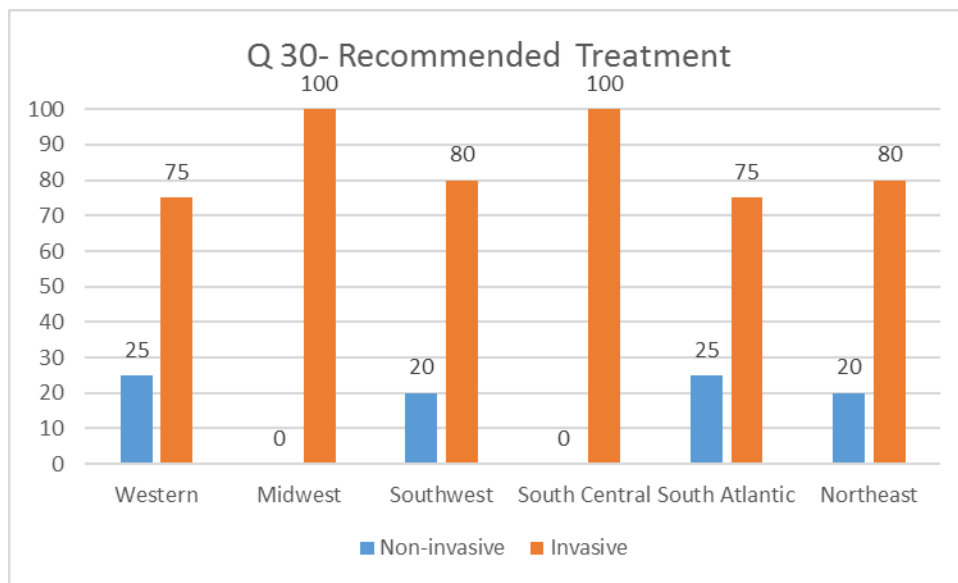
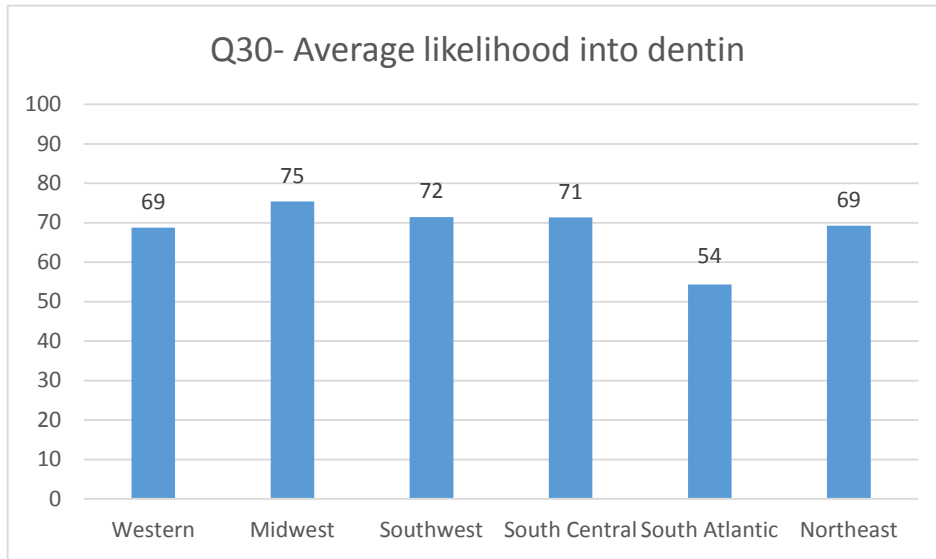
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 30.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **rough**. The Spectra reading was 2.25.



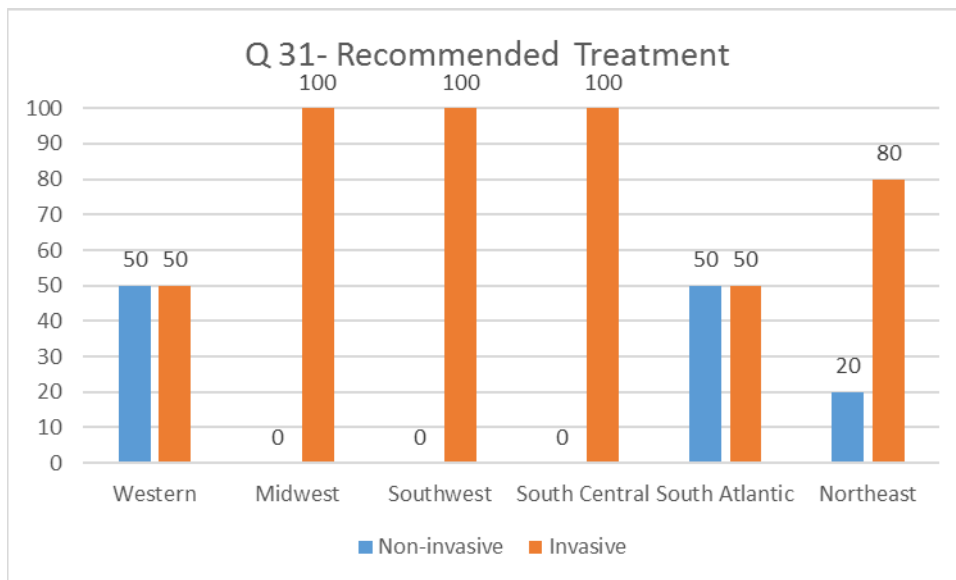
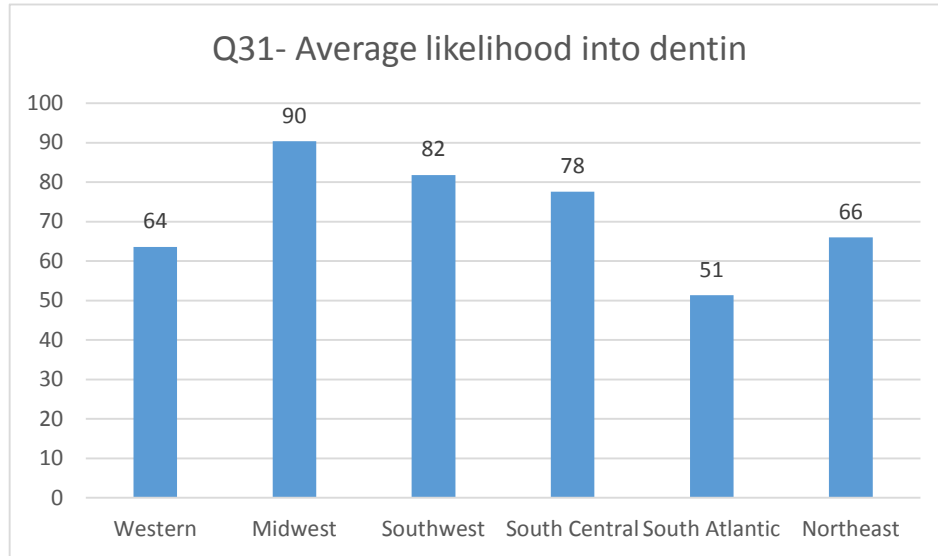
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 31.

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:

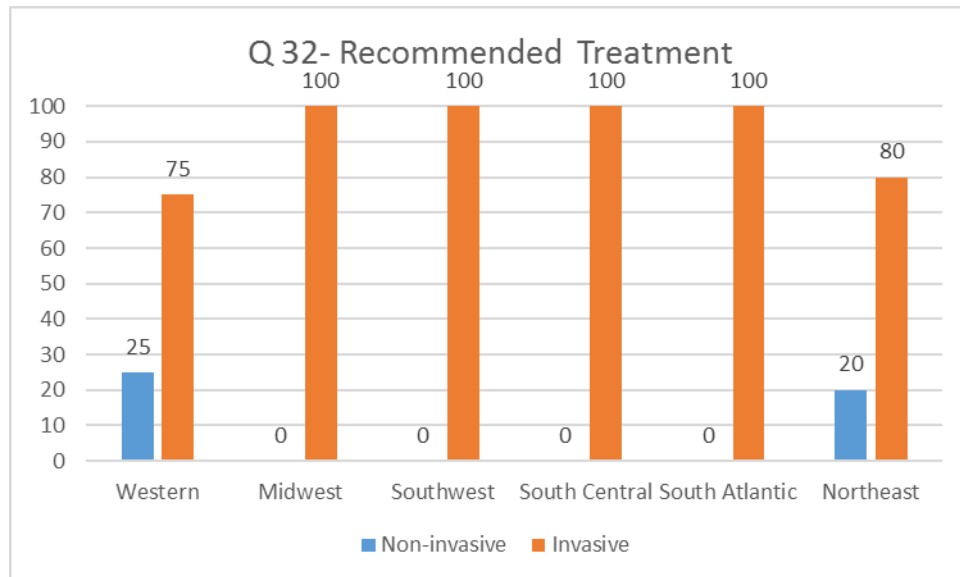
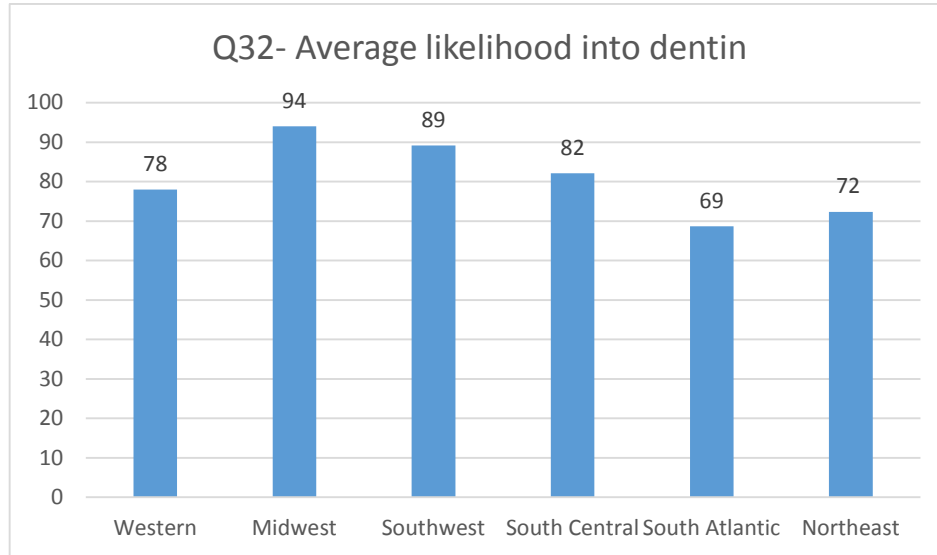
- Western: 50% full restoration
- Midwest: 67% full restoration
- Southwest: 100% full restoration
- South Central: 67% full restoration
- South Atlantic: 25% no treatment; preventive treatment; full restoration
- Northeast: 80% full restoration





Figure 32.

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 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**

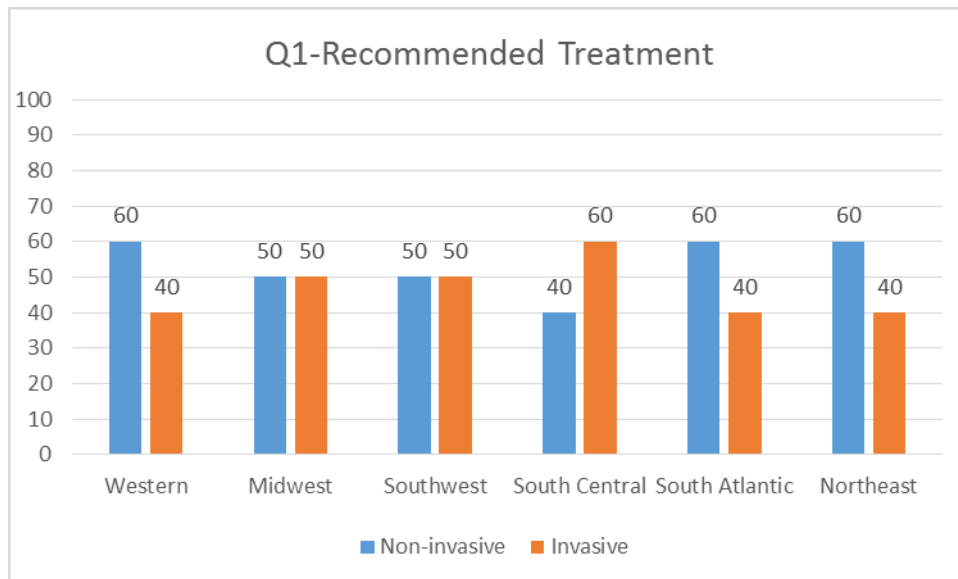
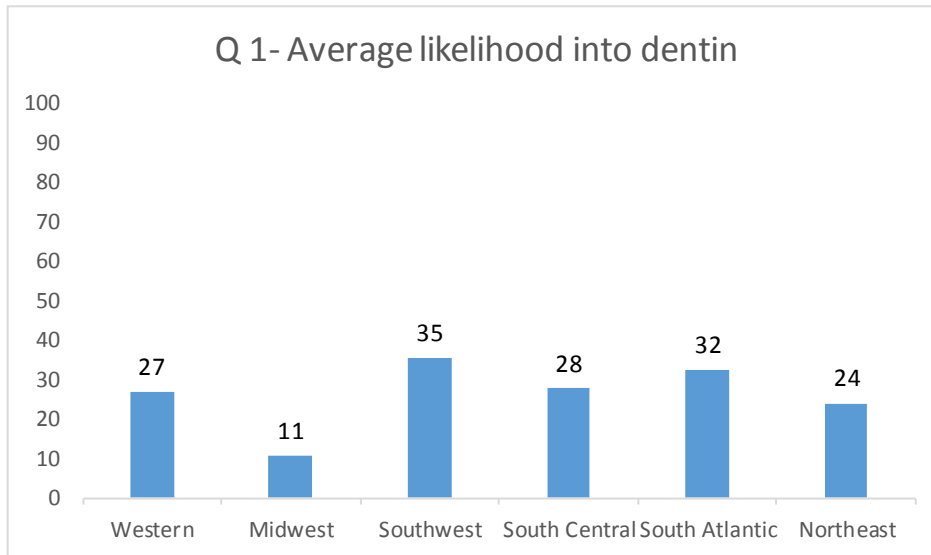
Recommended interpretation for DIAGNOdent device reading

- 0 – 10 (healthy)
- 11 – 20 outer half enamel
- 21 – 30 inner half enamel
- 30+ dentin caries



Figure 1.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **smooth**. The DIAGNOdent reading was 20.



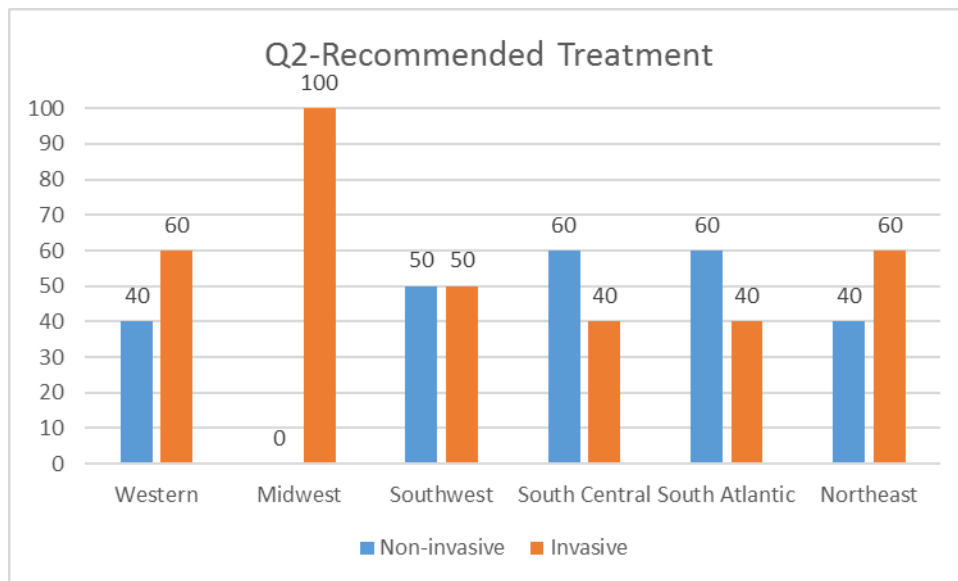
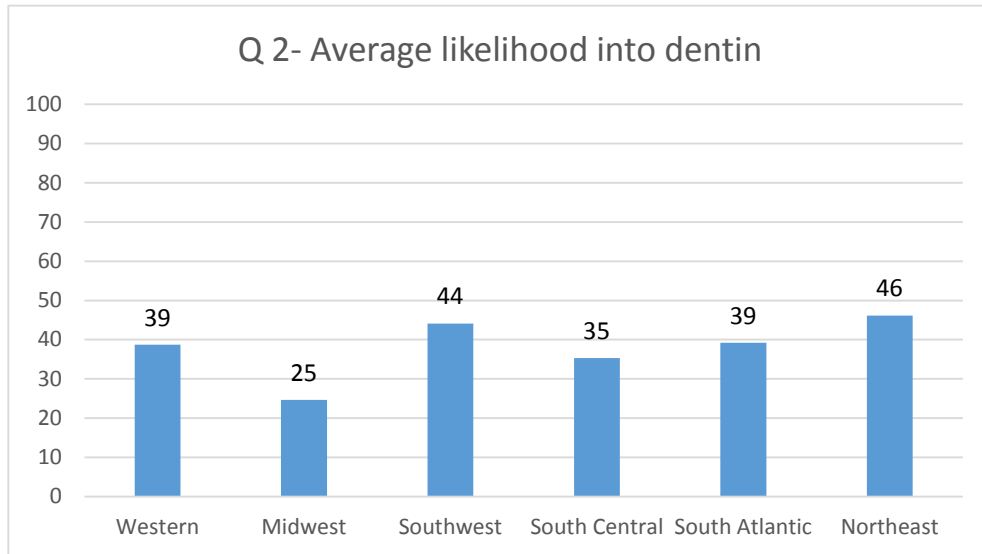
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 2.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **rough**. The DIAGNOdent reading was 20.



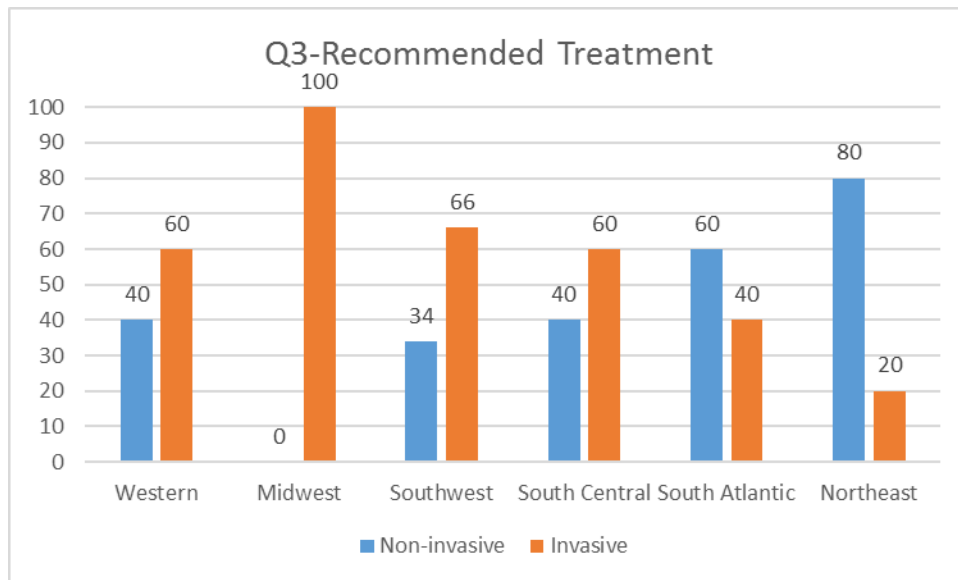
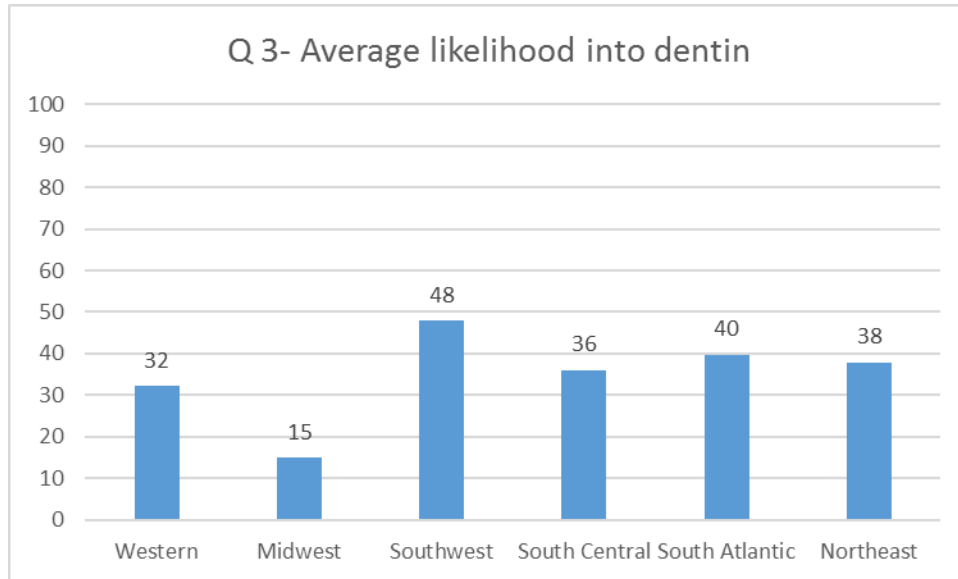
The highest percentages for specific treatment in each region were as follows:

- 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)



Figure 3.

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:

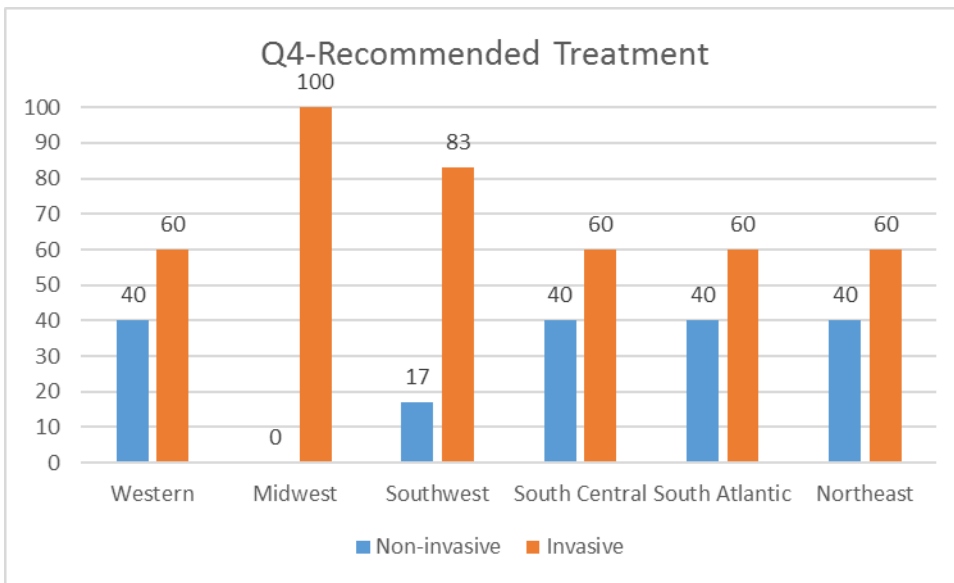
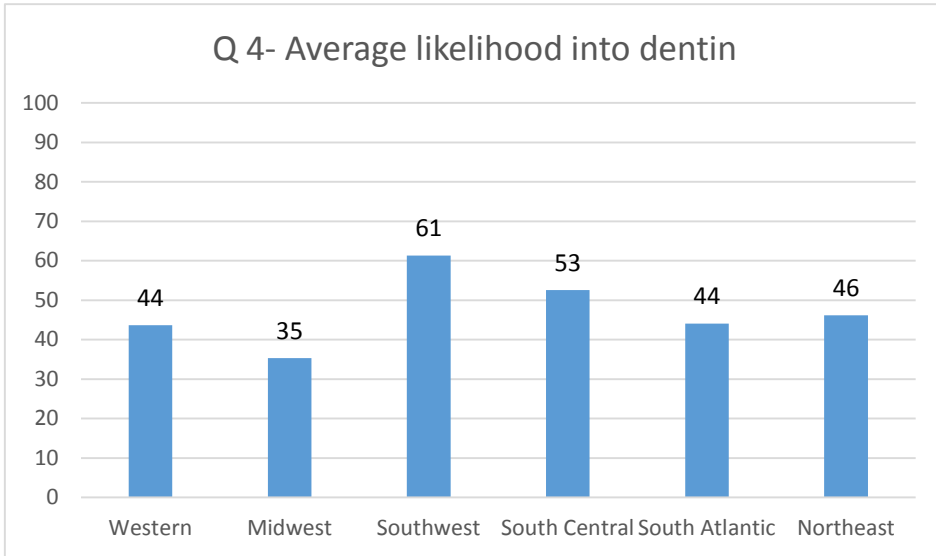
- Western: 40% preventive treatment; full restoration
- Midwest: 50% sealant (minimal drilling or air abrasion); preventive resin restoration
- Southwest: 33% preventive resin restoration
- South Central: 40% no treatment
- South Atlantic: 60% preventive
- Northeast: 40% preventive treatment





Figure 4.

You consider this patient to be at ***elevated*** risk for caries. Upon examination, the suspicious areas feel ***rough***. The DIAGNOdent reading was 20.



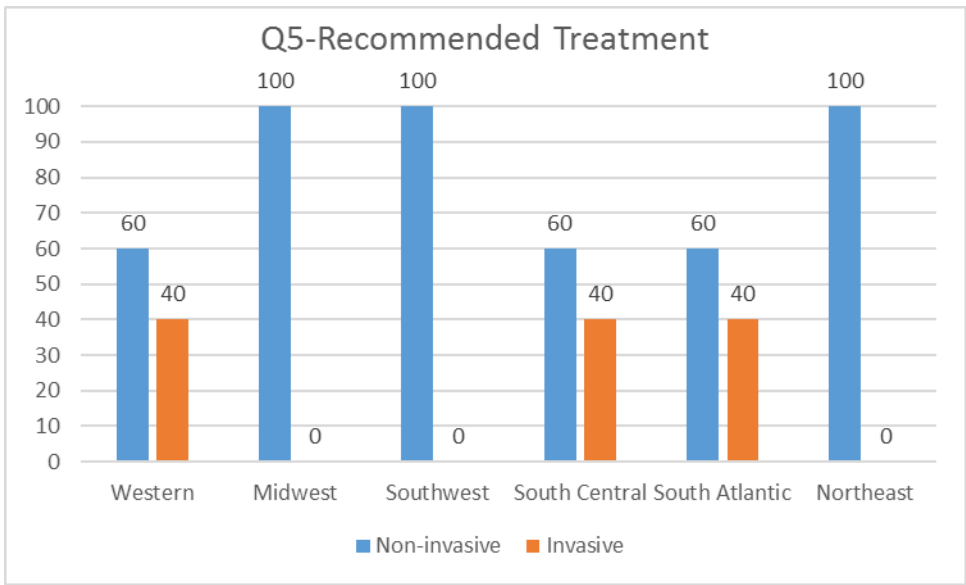
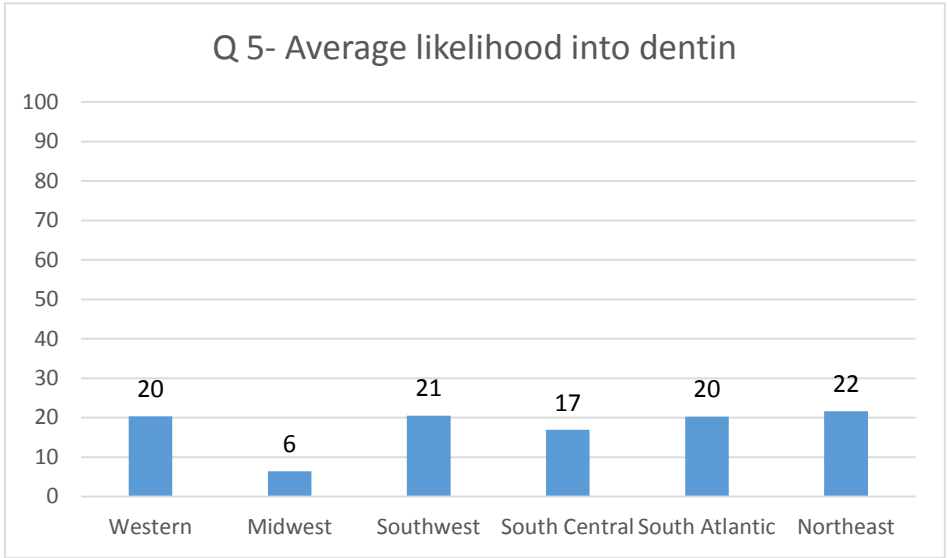
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 5.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **smooth**. The DIAGNOdent reading was 20.



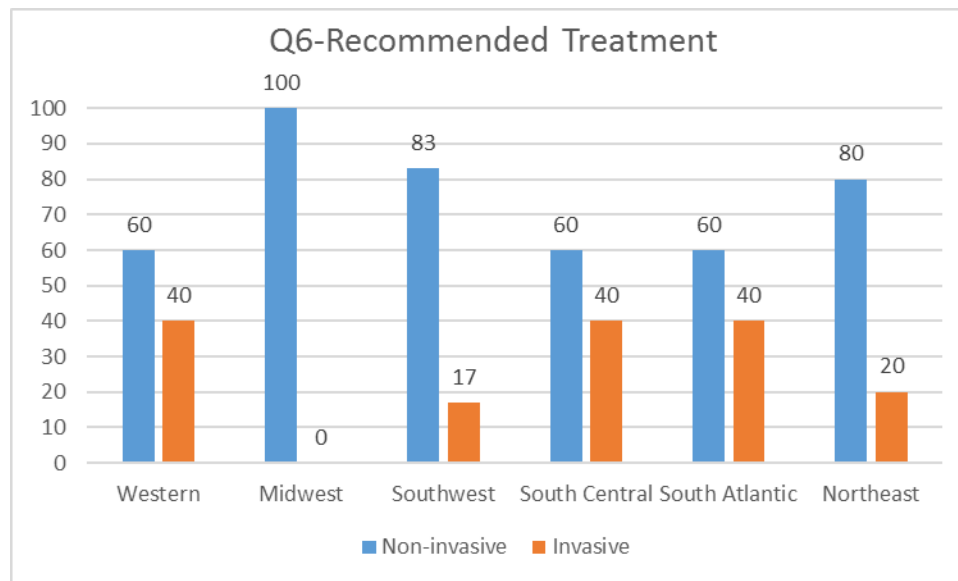
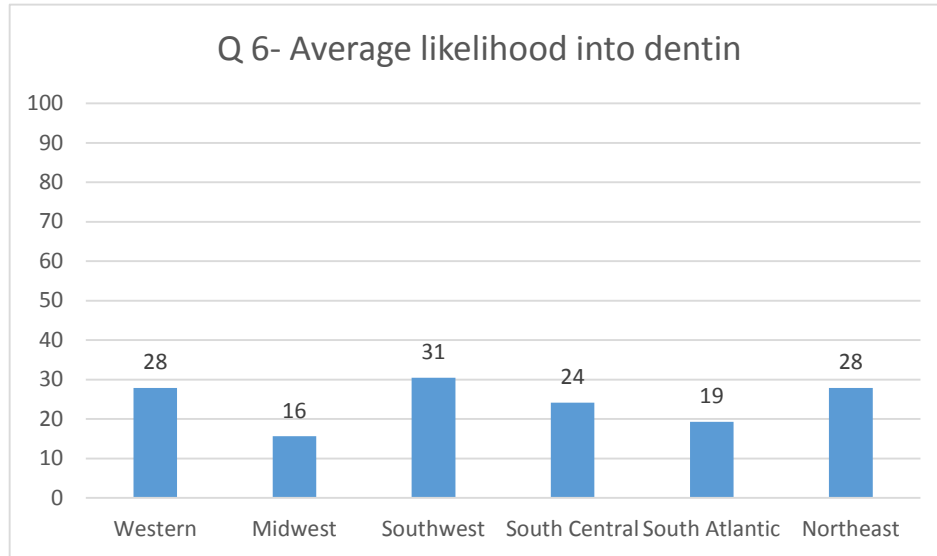
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 6.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **rough**. The DIAGNOdent reading was 20.



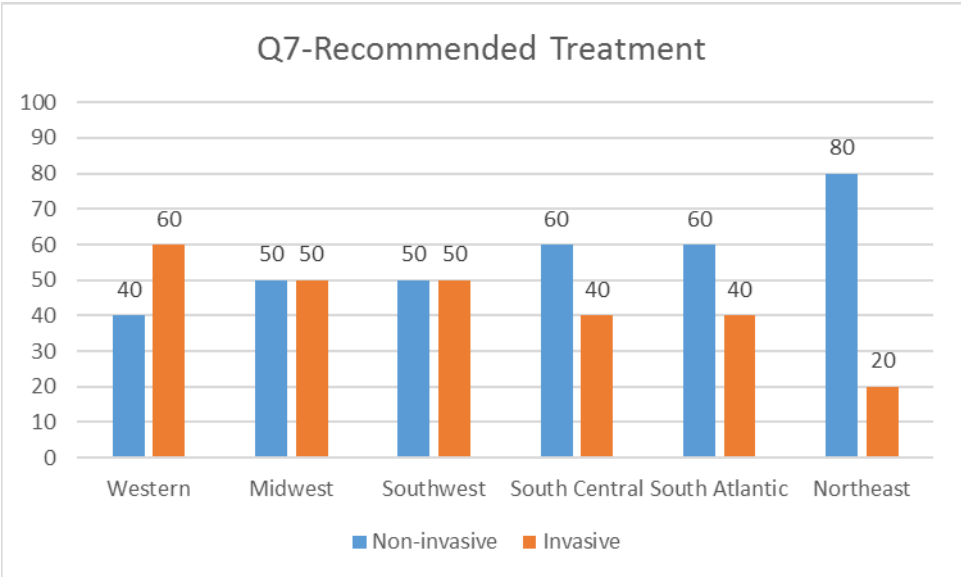
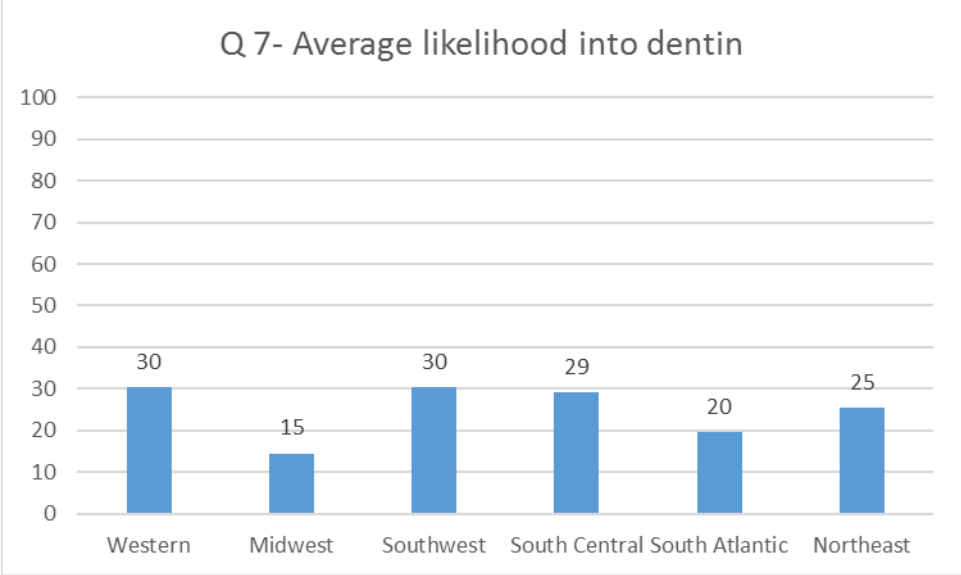
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 7.

You consider this patient to be at ***elevated*** risk for caries. Upon examination, the suspicious areas feel ***smooth***. The DIAGNOdent reading was 20.



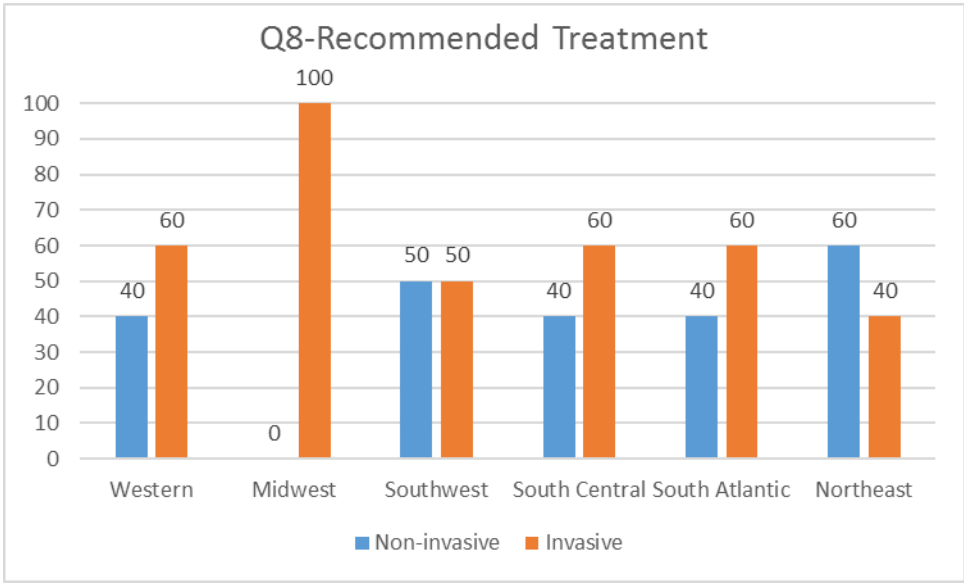
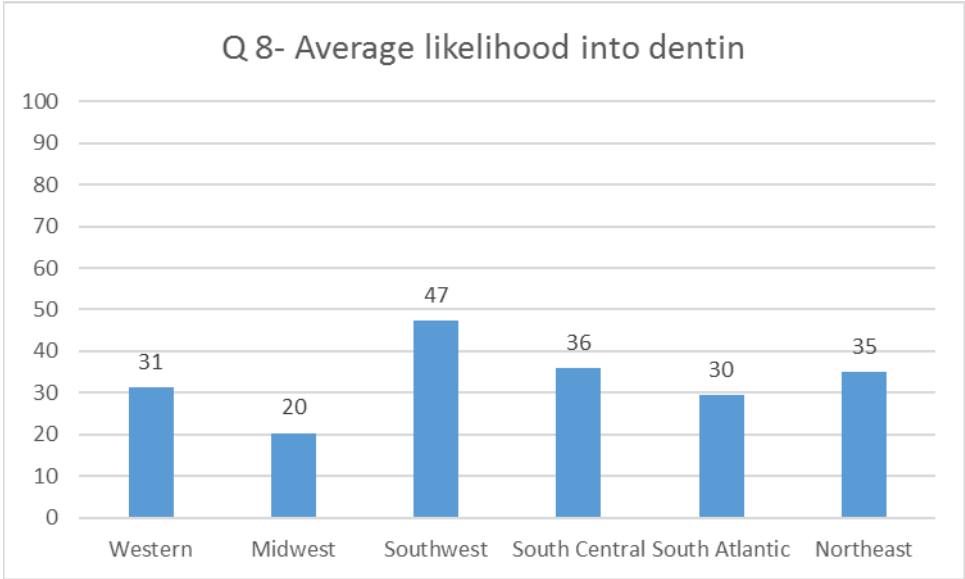
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 8.

You consider this patient to be at ***elevated*** risk for caries. Upon examination, the suspicious areas feel ***rough***. The DIAGNOdent reading was 20.



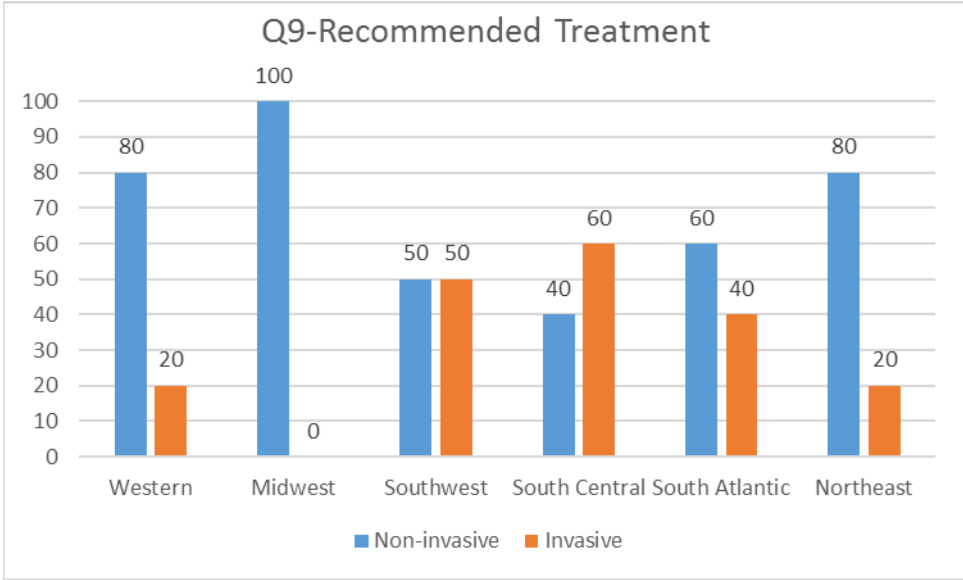
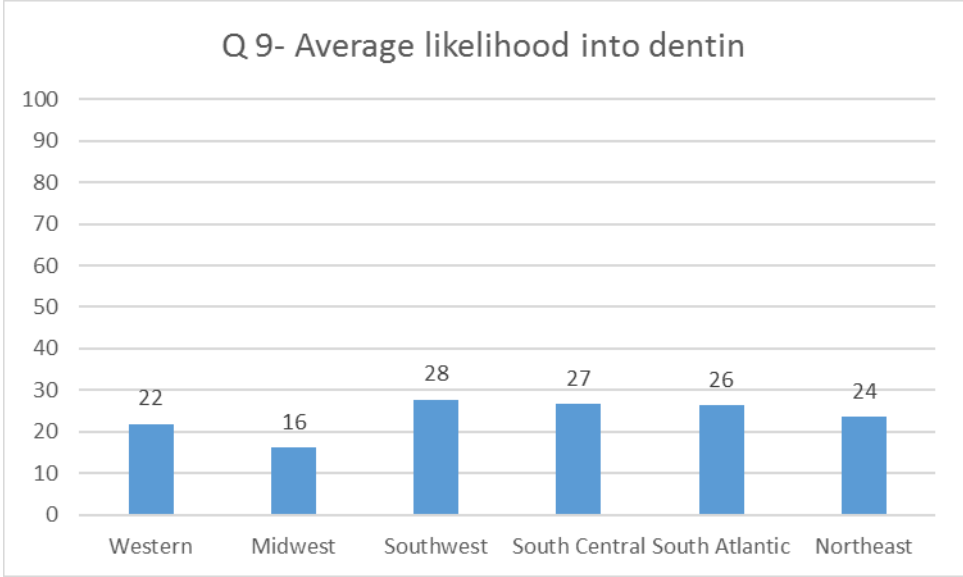
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 9.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **smooth**. The DIAGNOdent reading was 20.



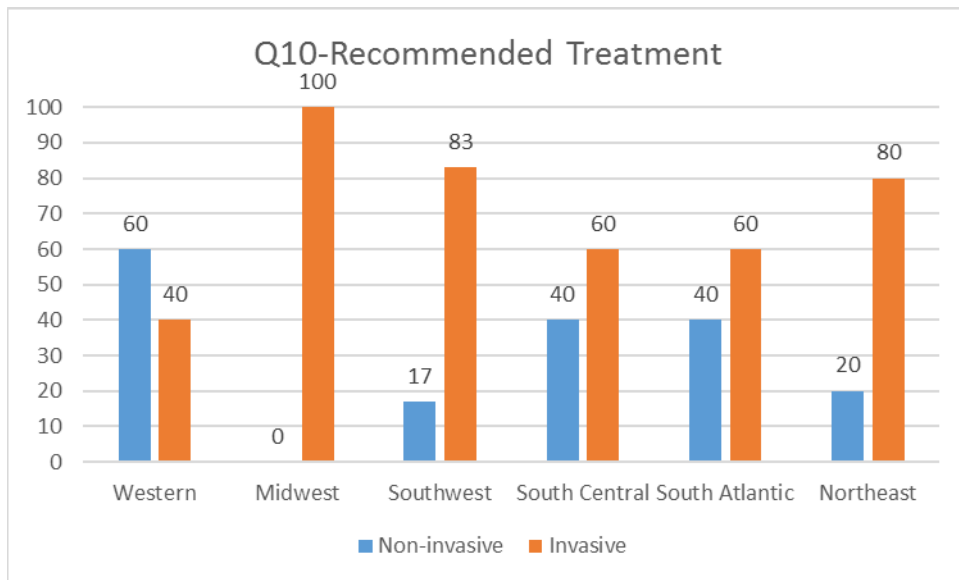
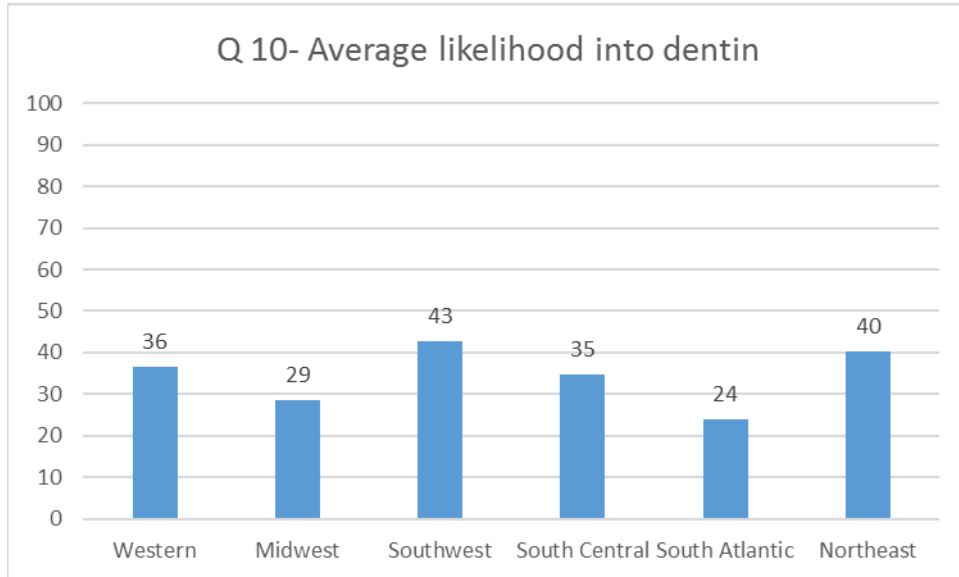
The highest percentages for specific treatment in each region were as follows:

- Western: 40% no treatment
- Midwest: 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



Figure 10.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious areas feel **rough**. The DIAGNOdent reading was 20.



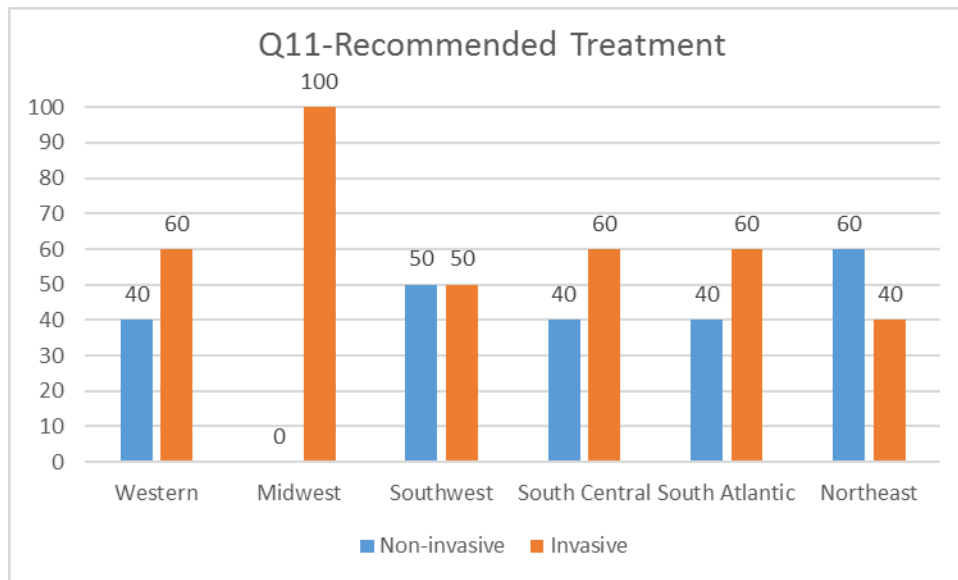
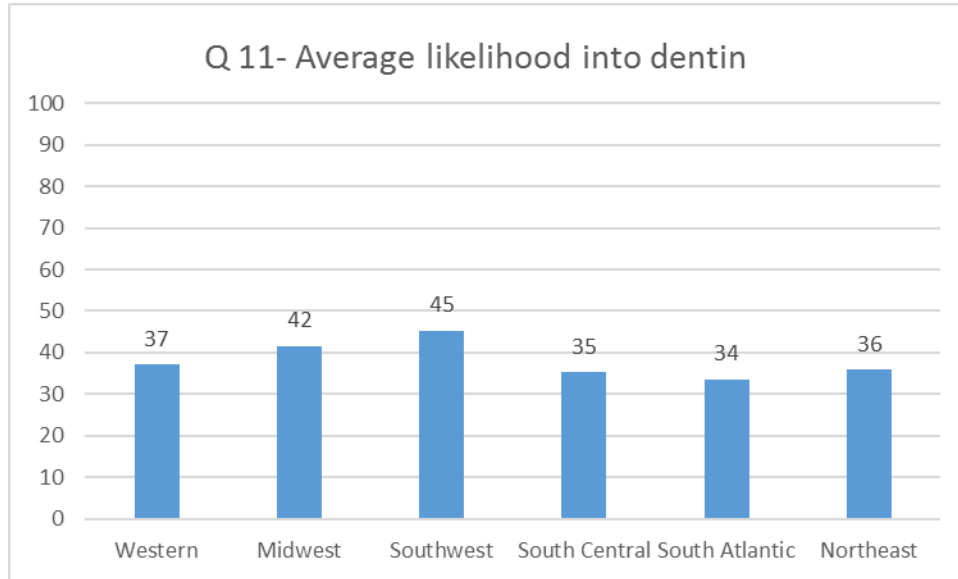
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 11.

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:

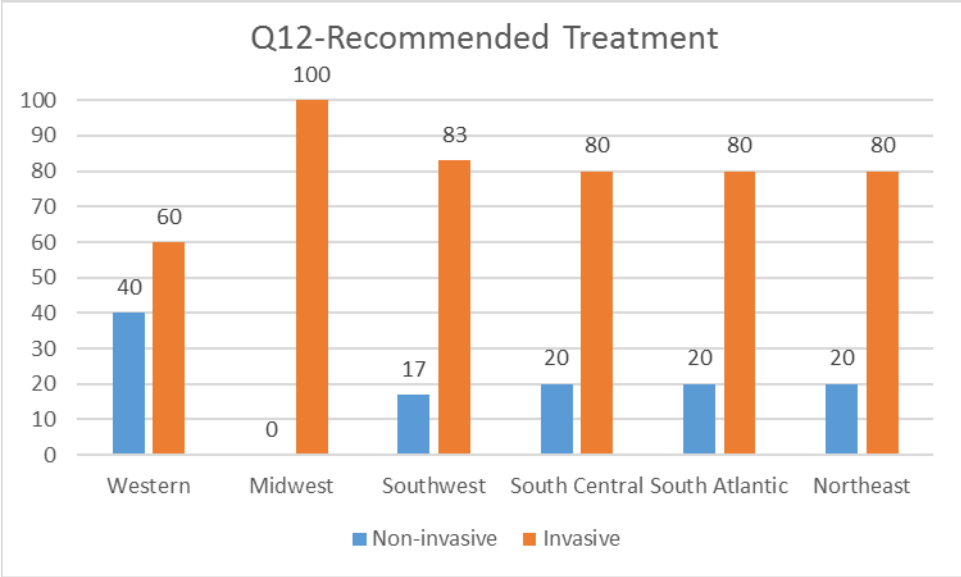
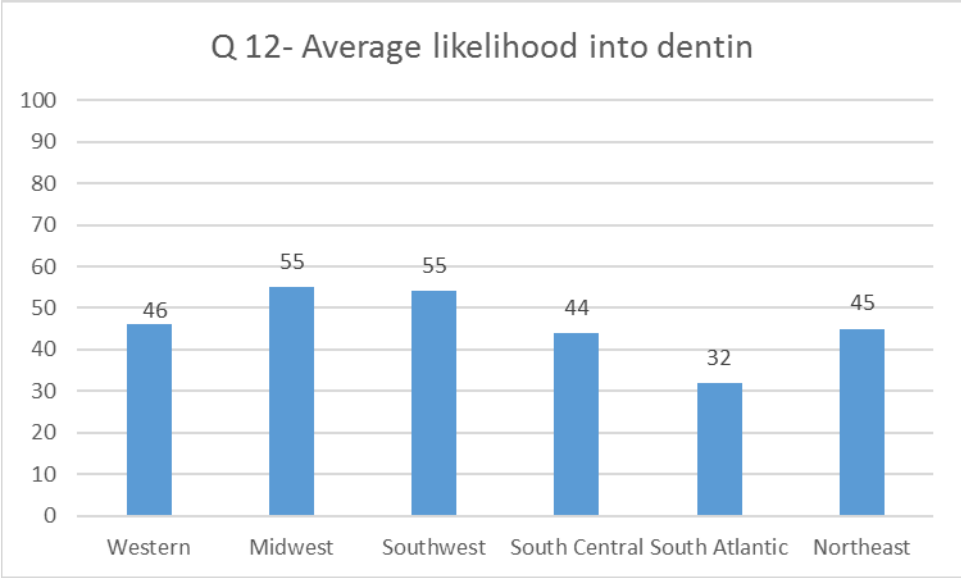
- Western: 40% full restoration
- Midwest: 50% sealant (minimal drilling or air abrasion); preventive resin restoration
- Southwest: 33% preventive treatment; preventive resin restoration
- South Central: 40% no treatment; sealant (minimal drilling or air abrasion)
- South Atlantic: 40% preventive resin restoration
- Northeast: 60% preventive resin restoration





Figure 12.

You consider this patient to be at ***elevated*** risk for caries. Upon examination, the suspicious areas feel ***rough***. The DIAGNOdent reading was 20.



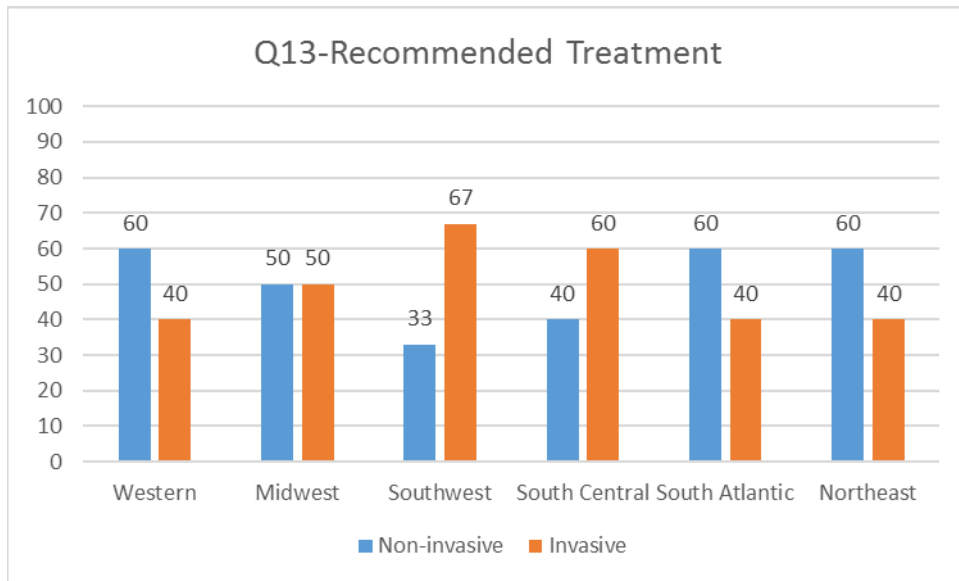
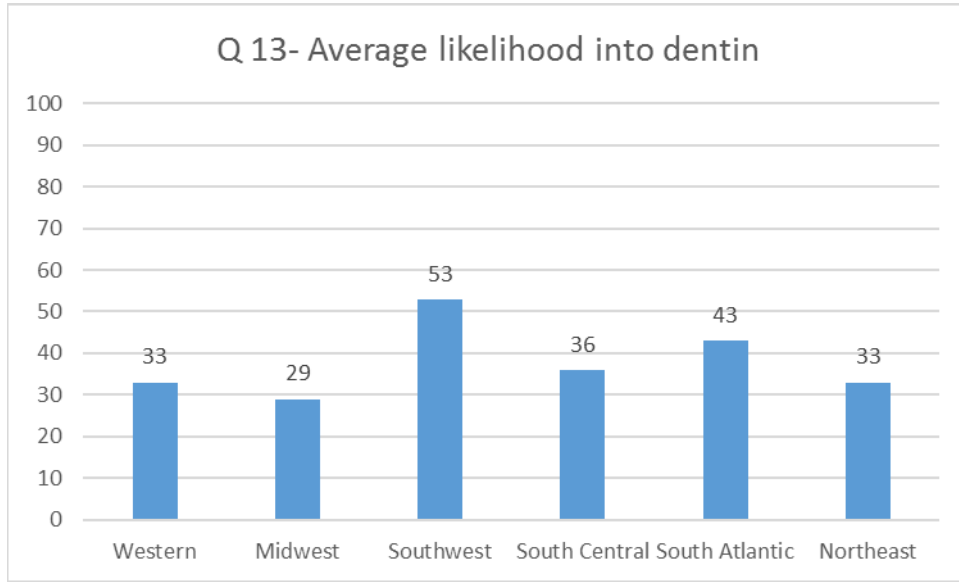
The highest percentages for specific treatment in each region were as follows:

- 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.

Figure 13.



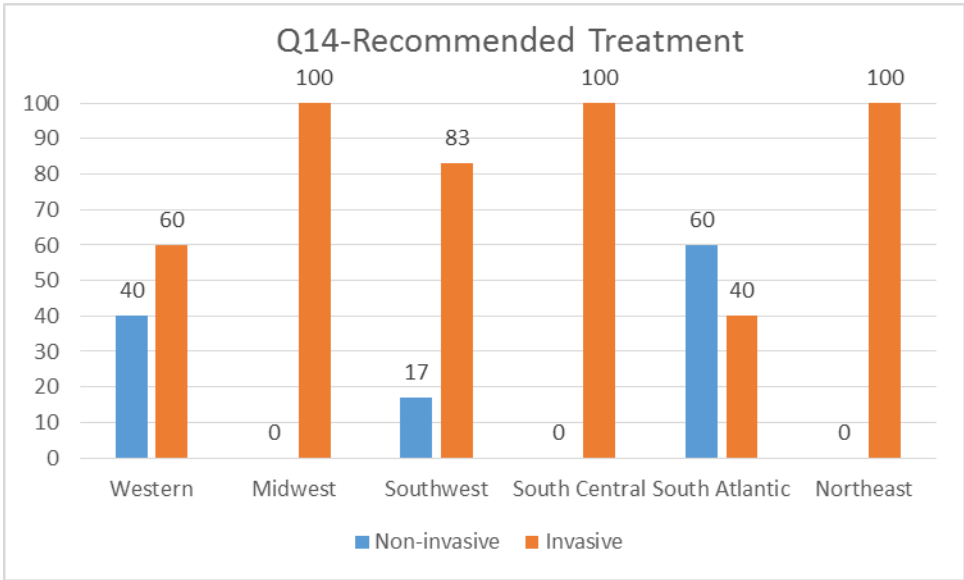
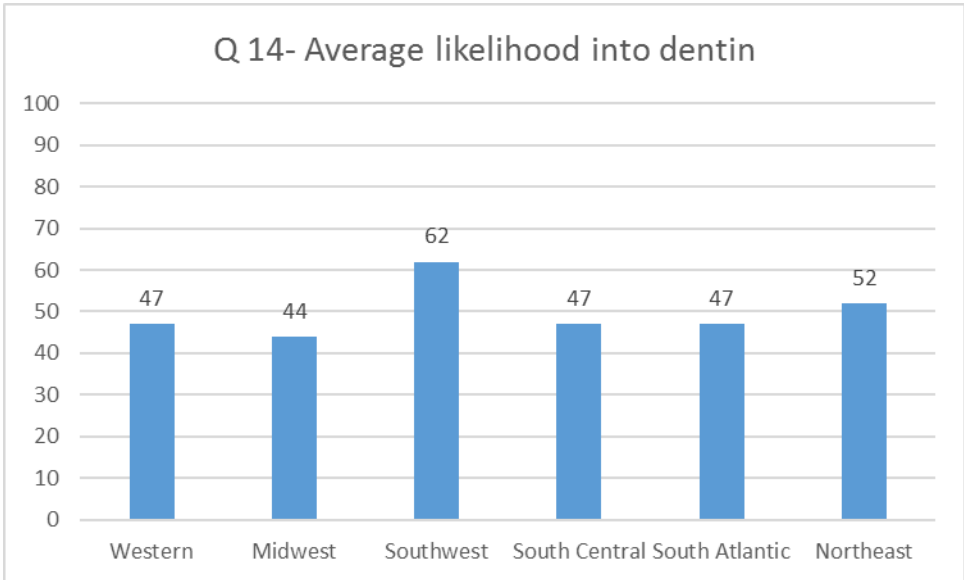
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 14.

You consider this patient to be at **low** risk for caries. Upon examination, the suspicious area feels **rough**. The DIAGNOdent reading was 20.

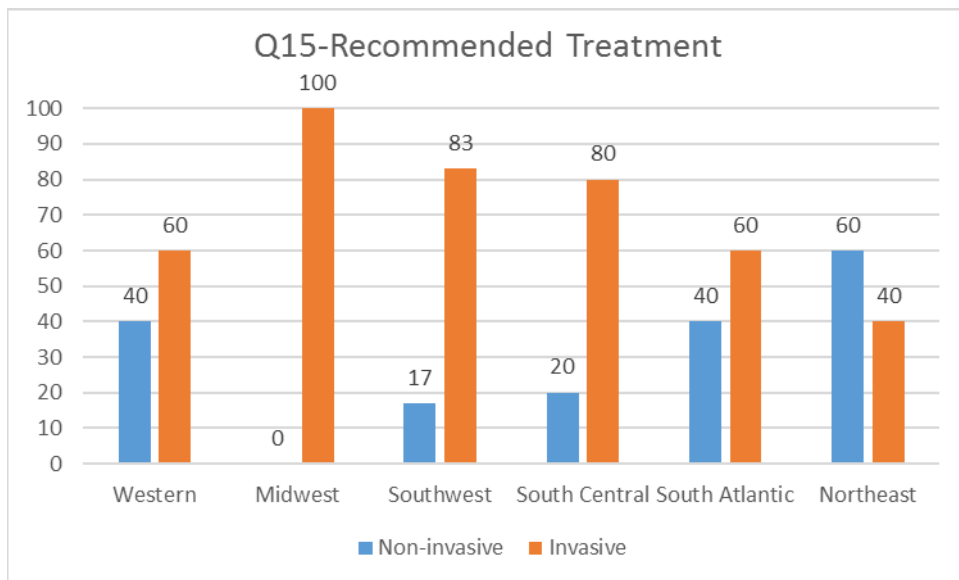
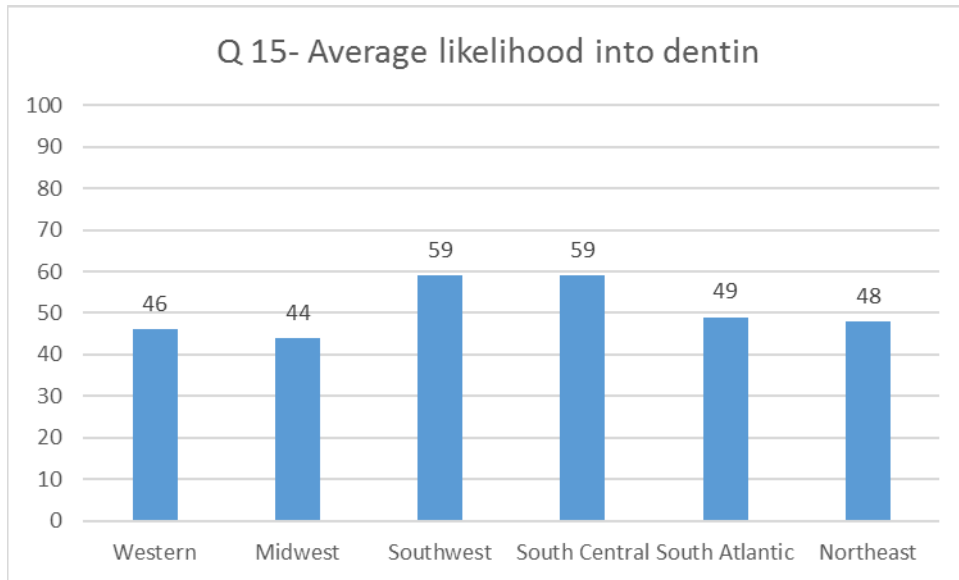


- The highest percentages for specific treatment in each region were as follows:
- Western: 40% preventive; full restoration
  - Midwest: 50% sealant (minimal drilling or air abrasion); preventive resin restoration
  - Southwest: 50% preventive resin restoration
  - South Central: 40% preventive resin restoration; full restoration
  - South Atlantic: 40% no treatment
  - Northeast: 40% sealant (minimal drilling or air abrasion); preventive resin restoration



Figure 15.

You consider this patient to be at **elevated** risk for caries. Upon examination, the suspicious area feels **smooth**. The DIAGNOdent reading was 20.



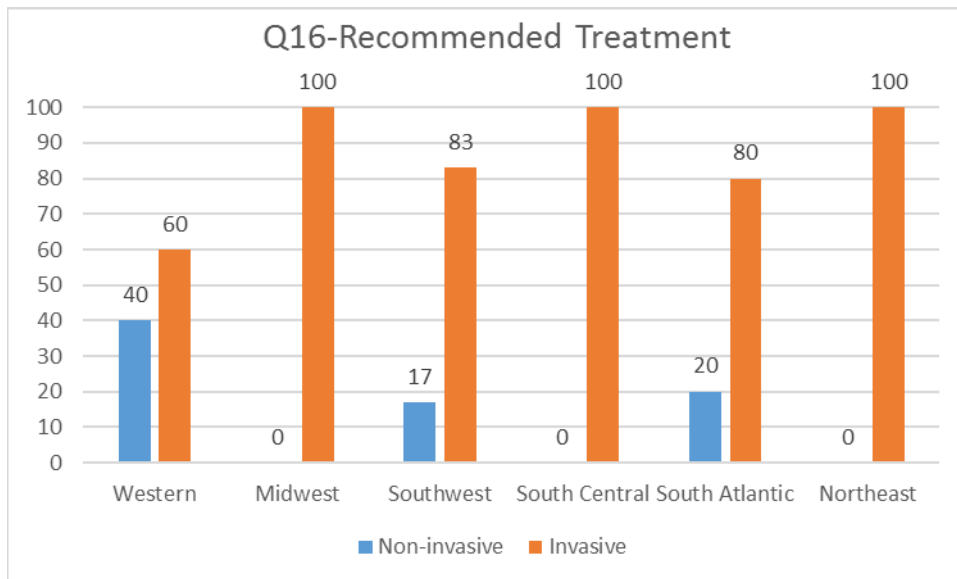
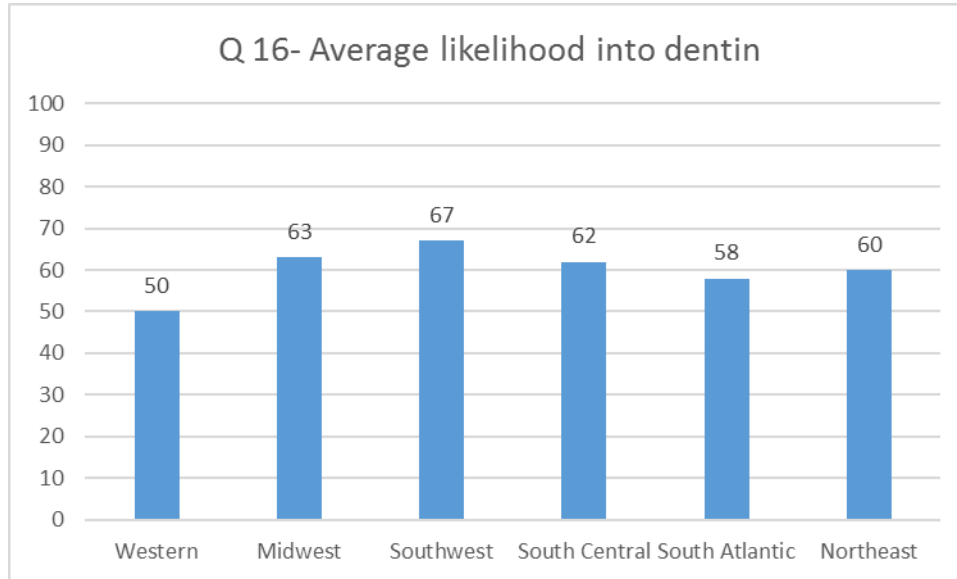
The highest percentages for specific treatment in each region were as follows:

- 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.

Figure 16.



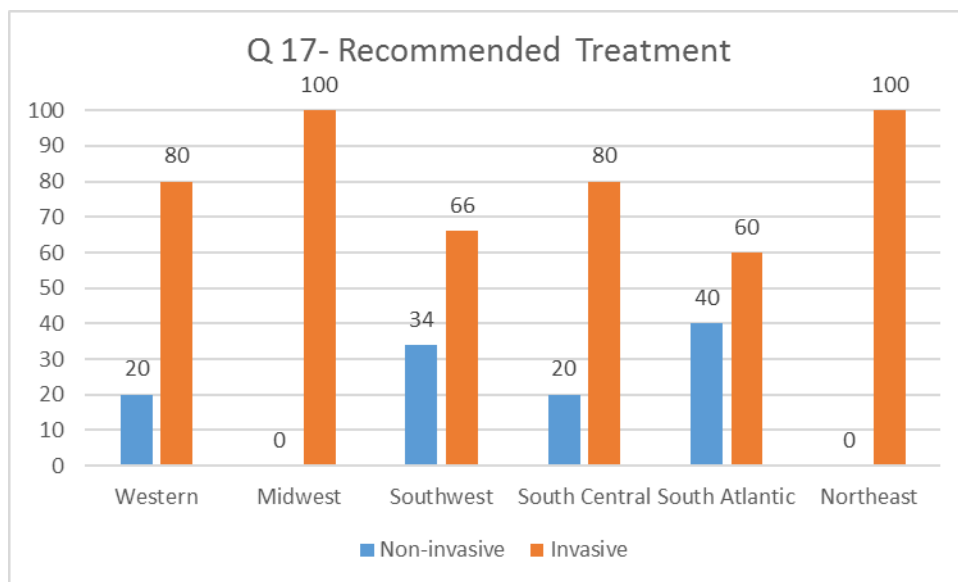
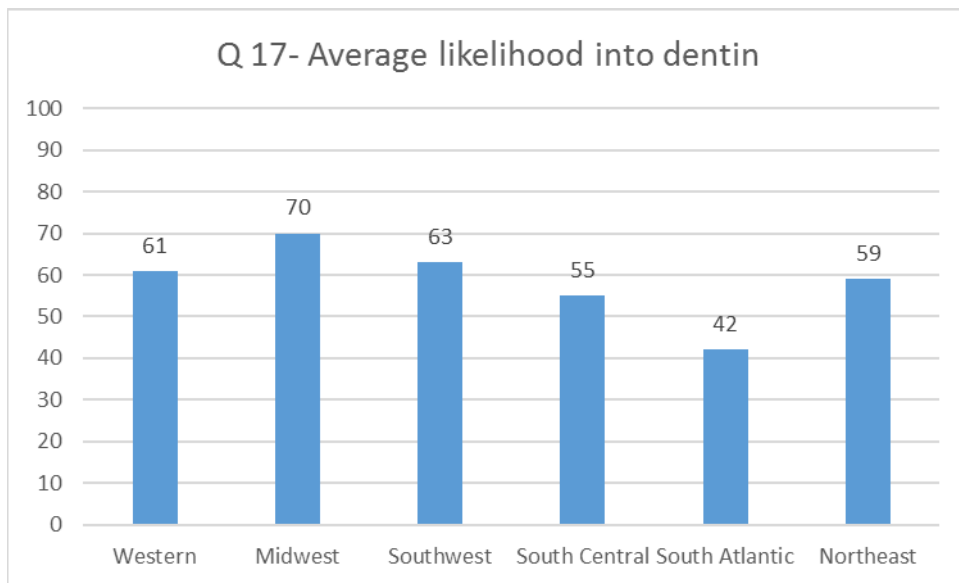
The highest percentages for specific treatment in each region were as follows:

- 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.

Figure 17.



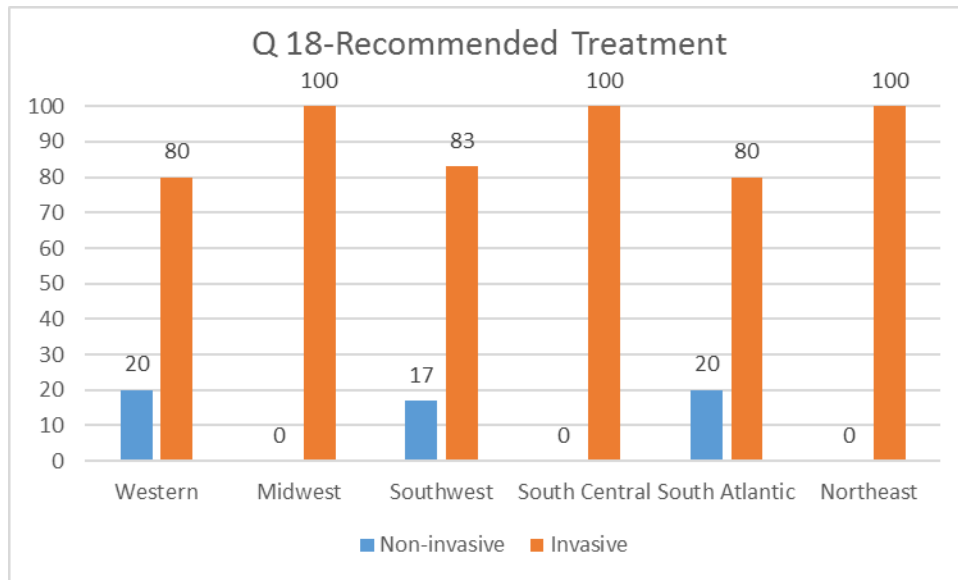
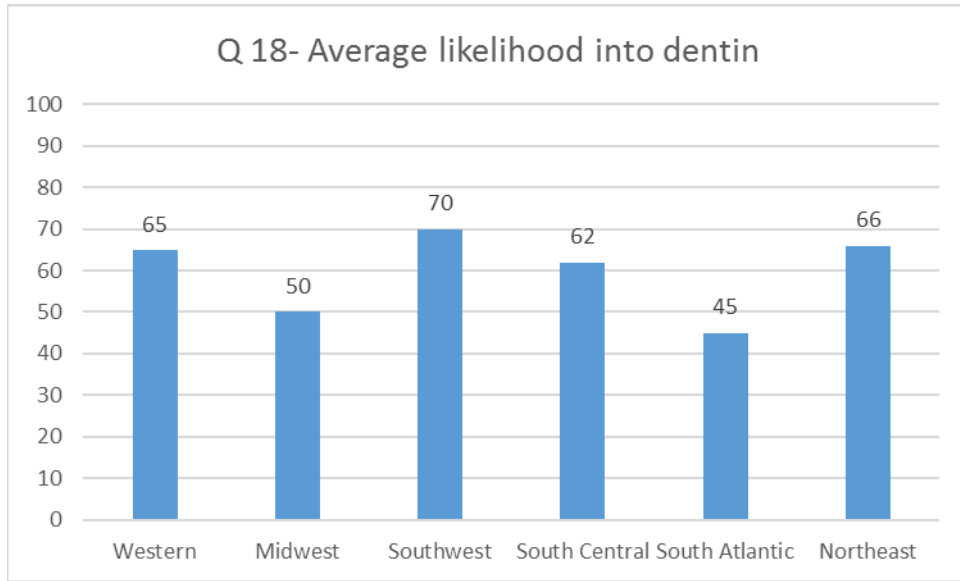
The highest percentages for specific treatment in each region were as follows:

- 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 18.

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



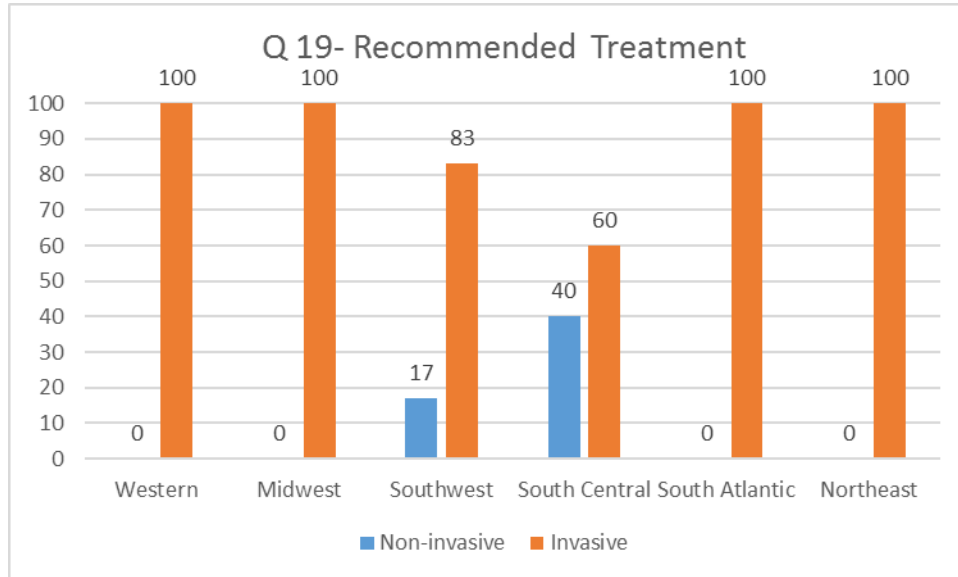
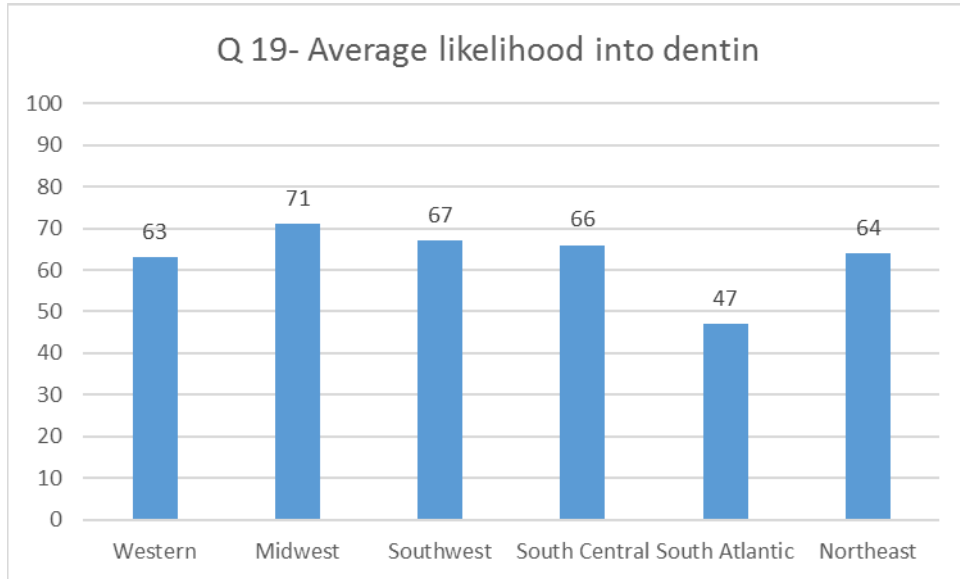
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 19.

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:

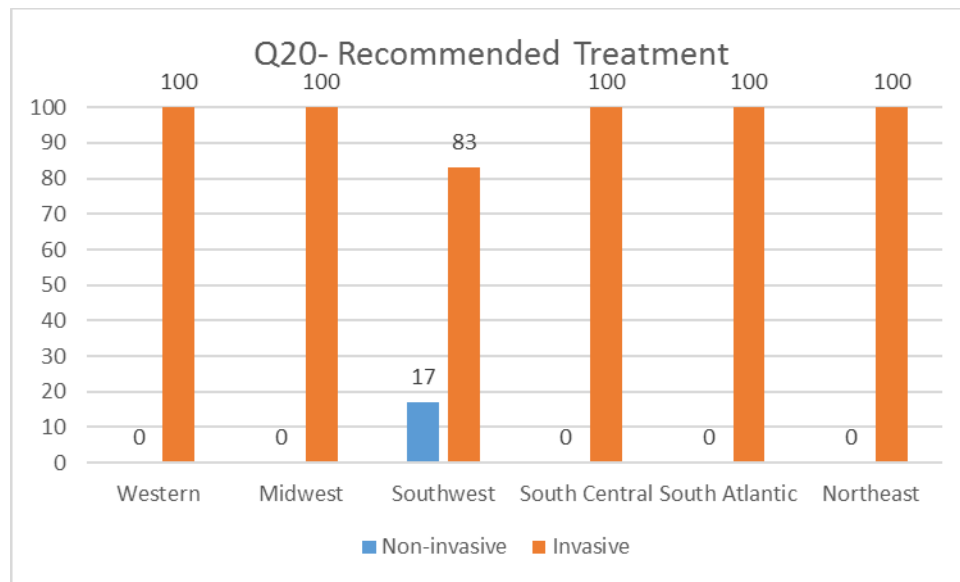
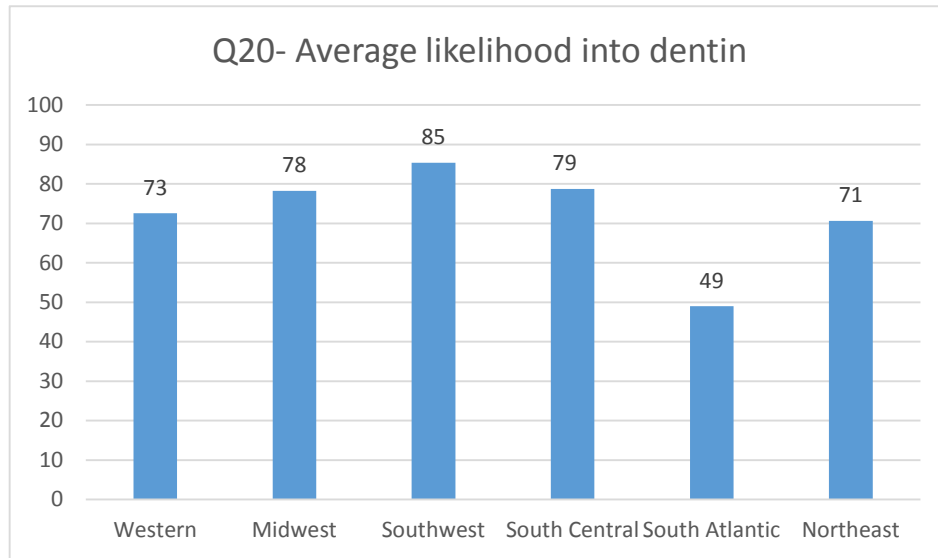
- Western: 60% full restoration
- Midwest: 100% full restoration
- Southwest: 83% full restoration
- South Central: 60% full restoration
- South Atlantic: 60% preventive resin restoration
- Northeast: 60% full restoration





Figure 20.

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



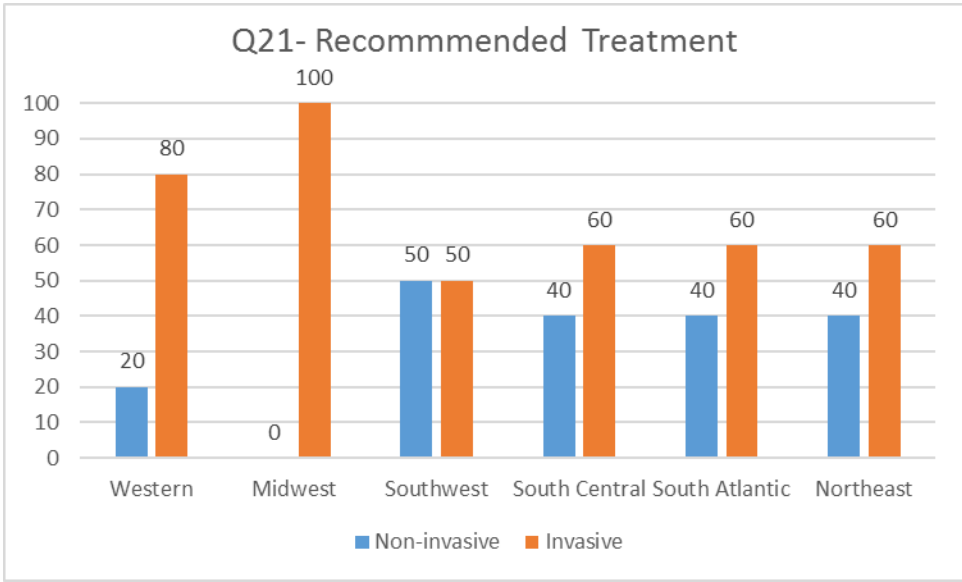
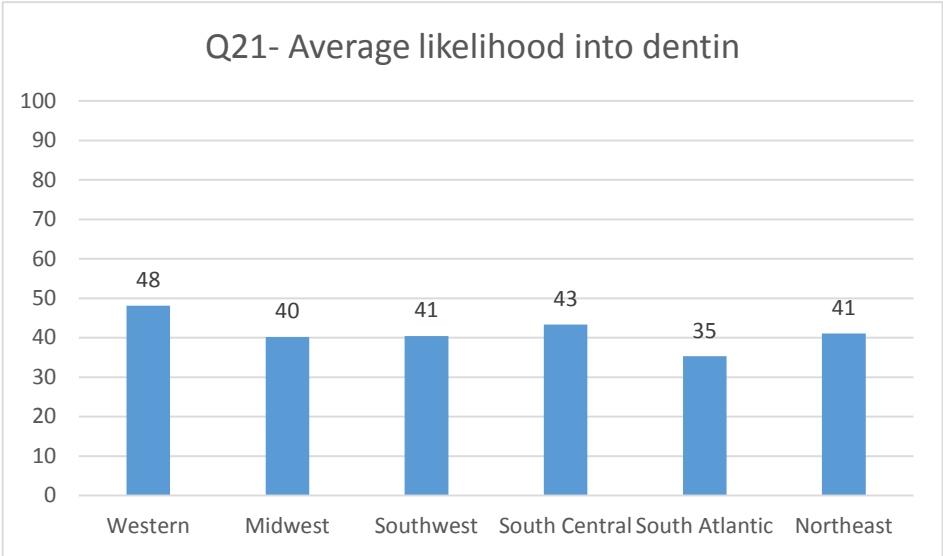
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 21.

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



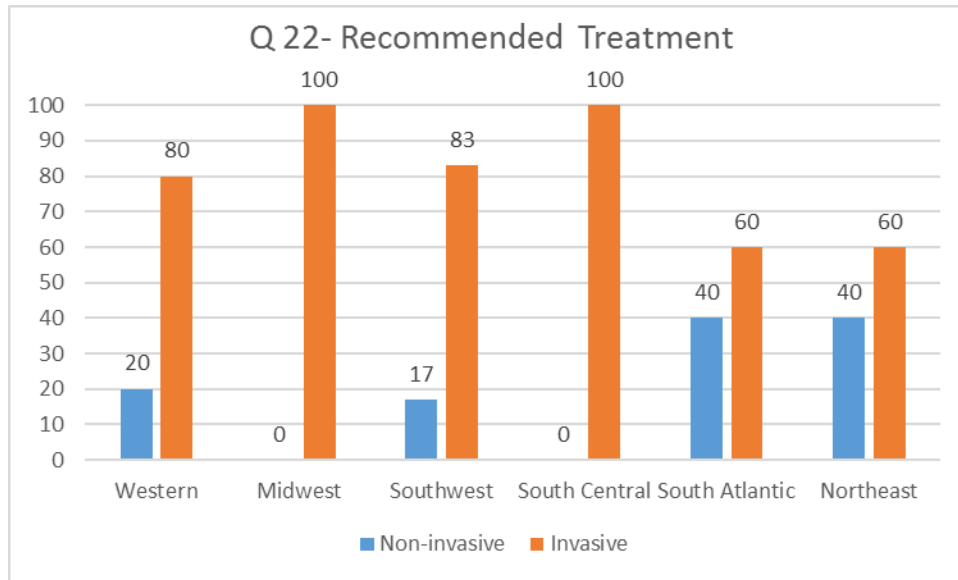
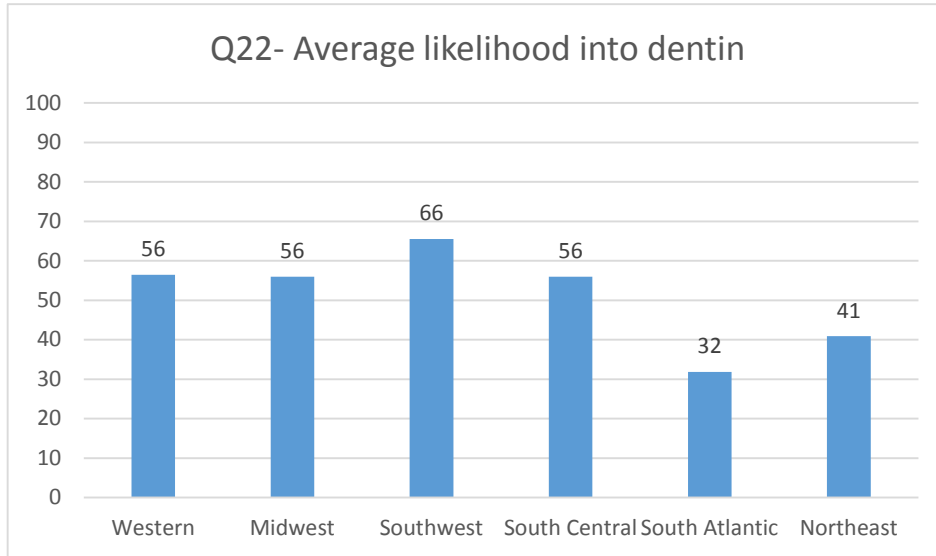
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 22.

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



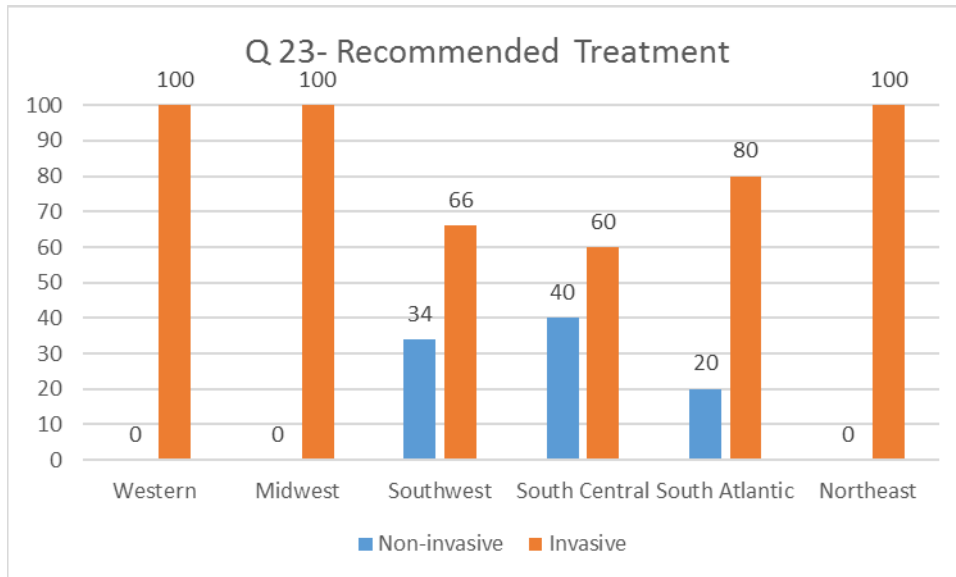
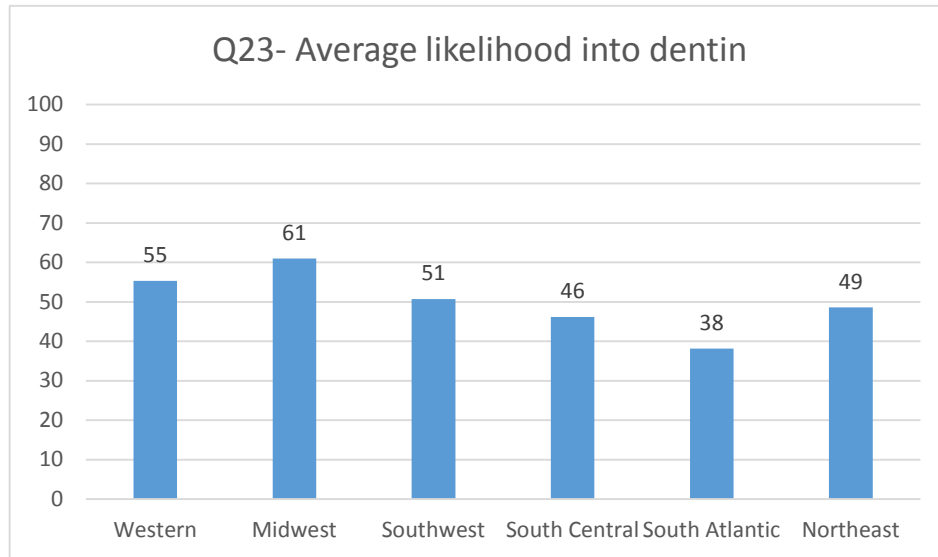
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 23.

You consider this patient to be at **elevated** risk for caries. Upon examination, the suspicious areas feel **smooth**. The DIAGNOdent reading was 40.



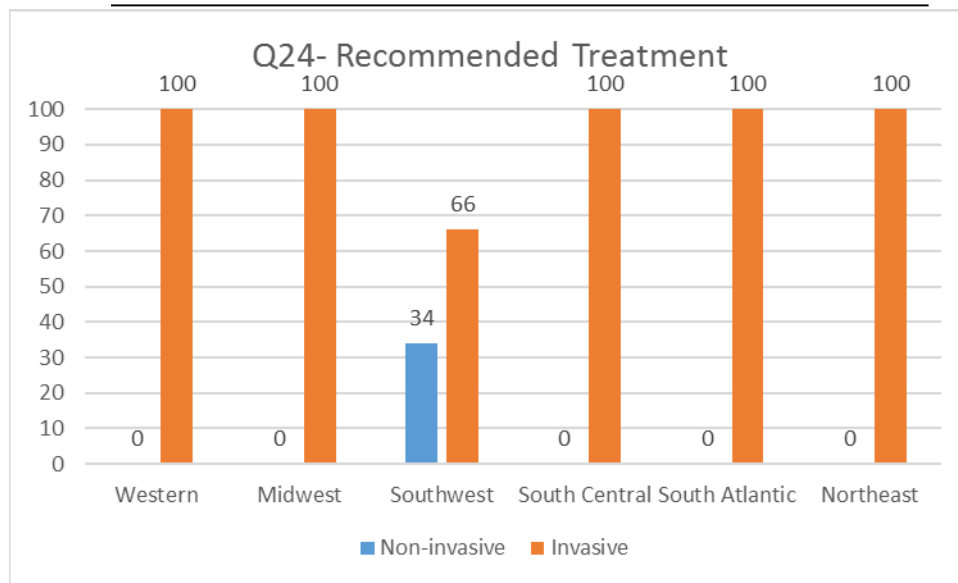
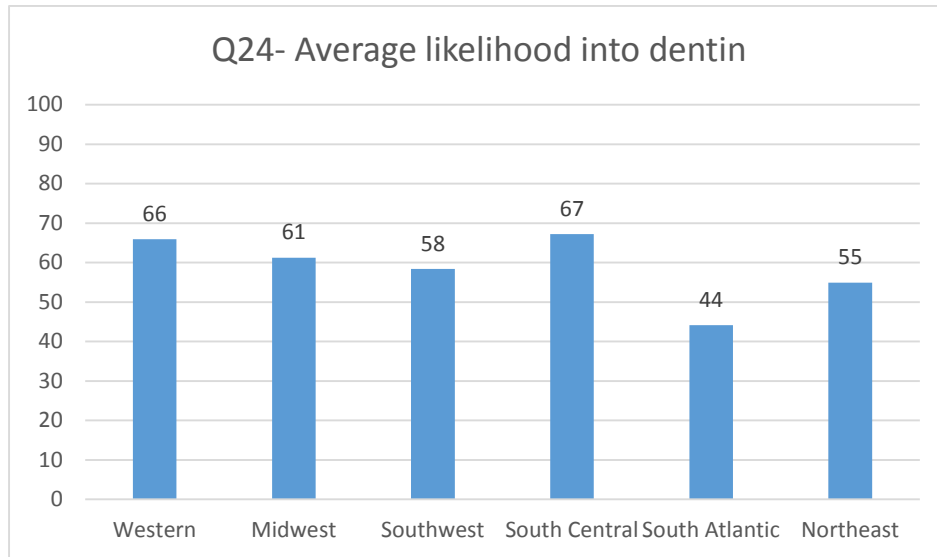
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 24.

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



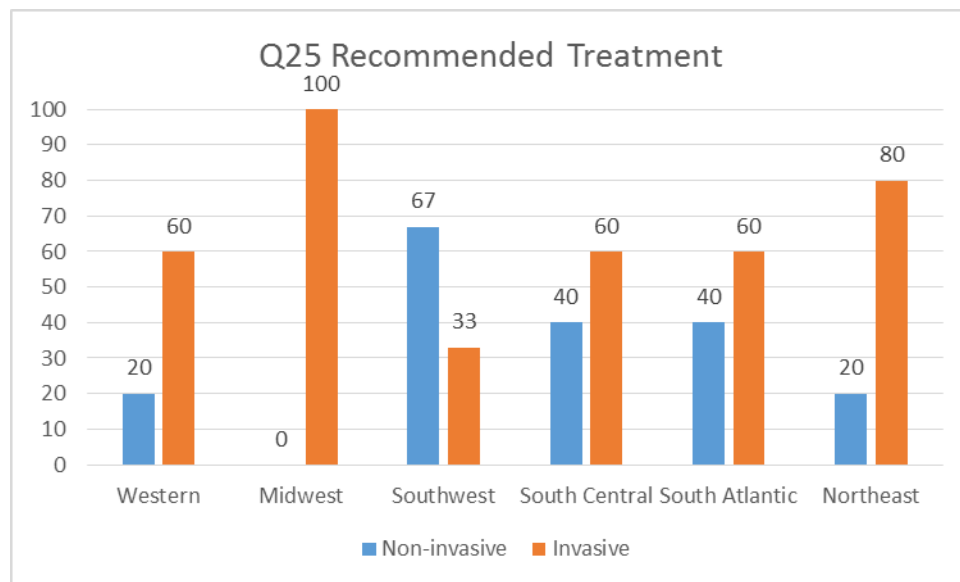
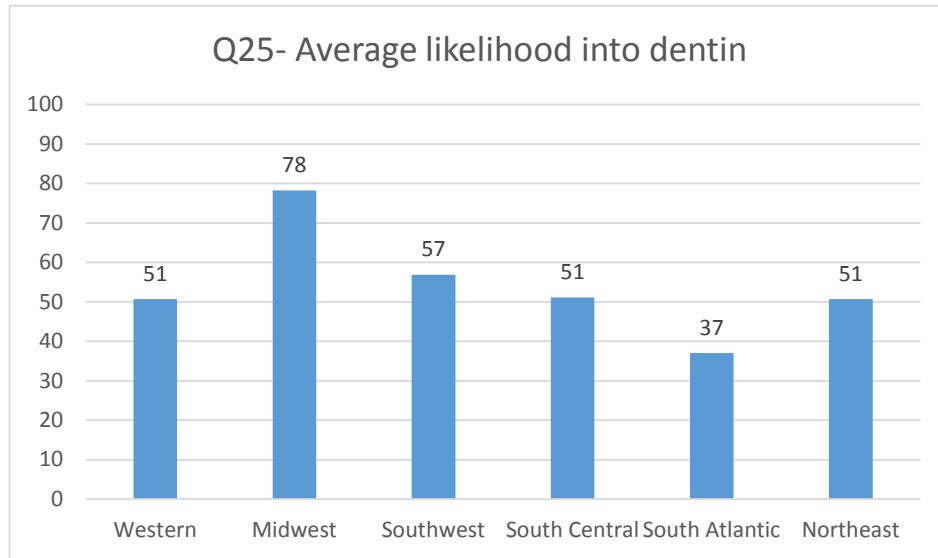
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 25.

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



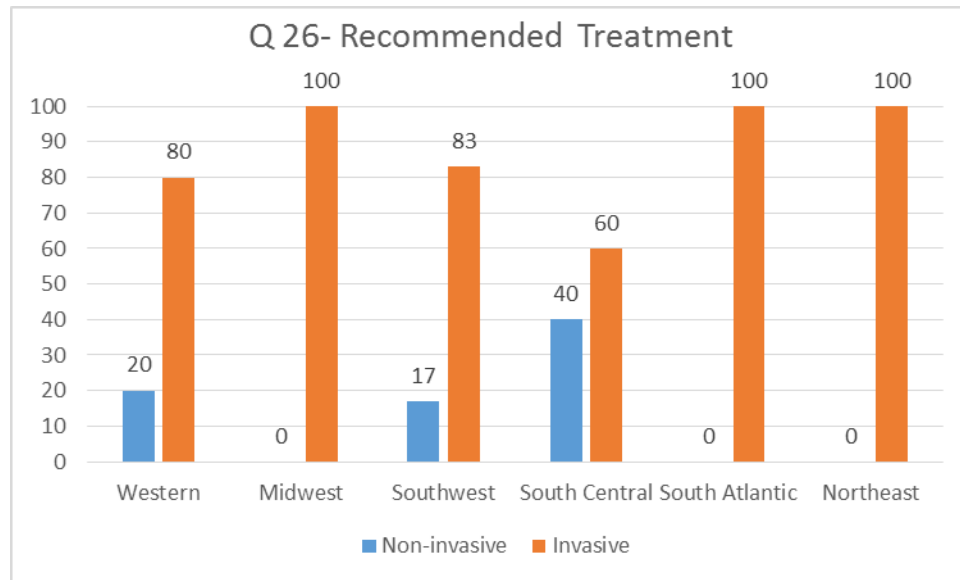
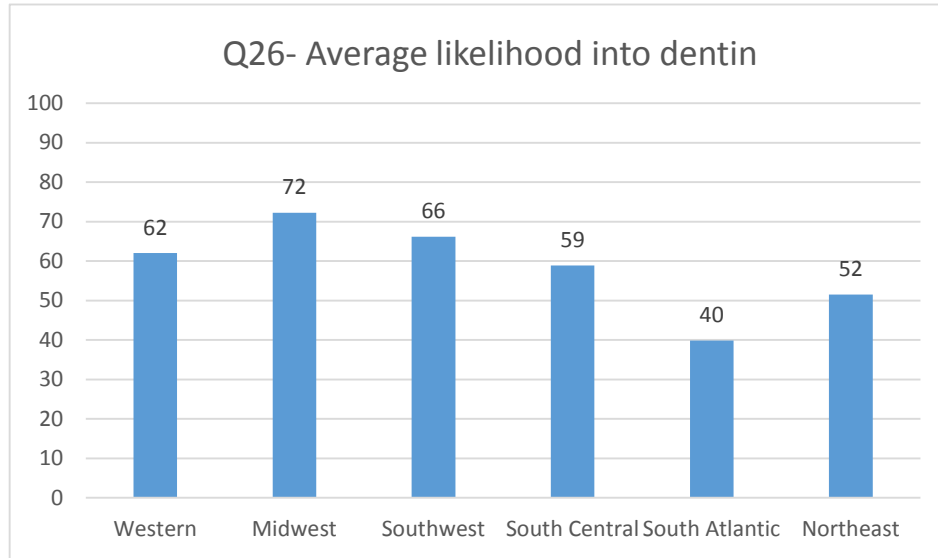
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 26.

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



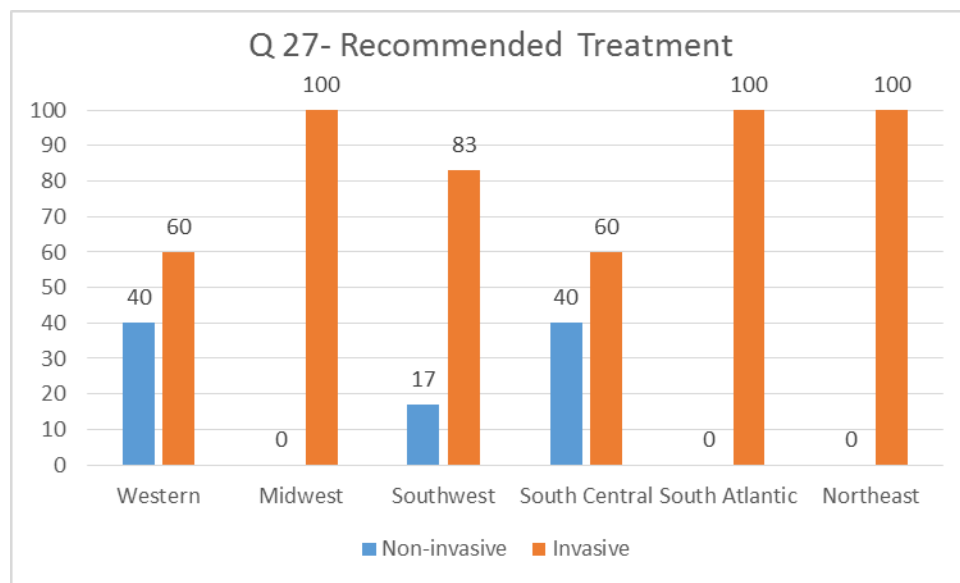
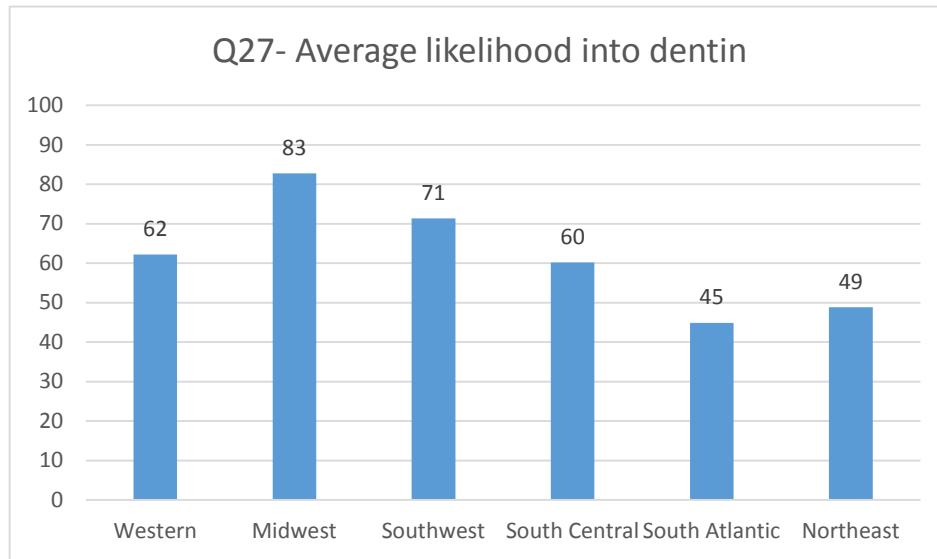
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 27.

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:

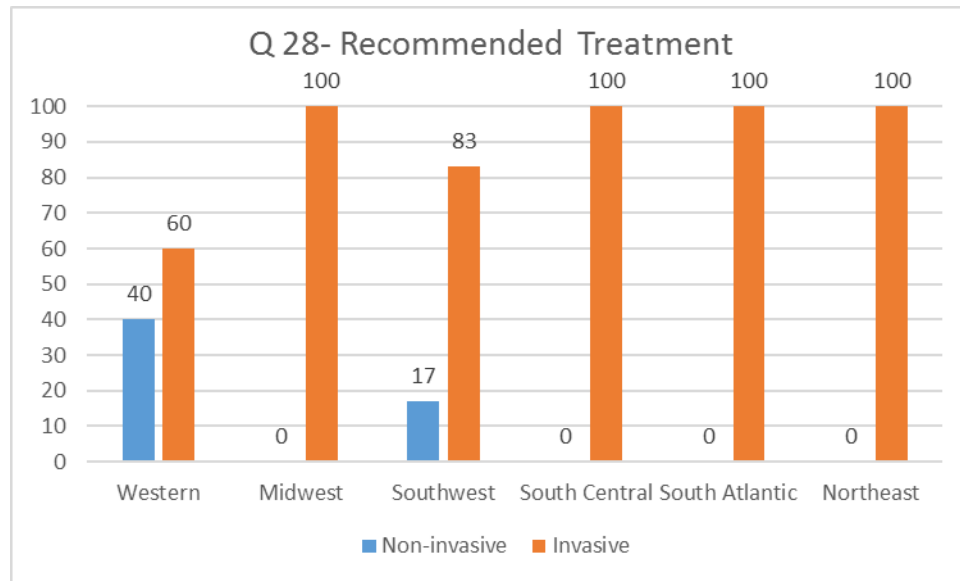
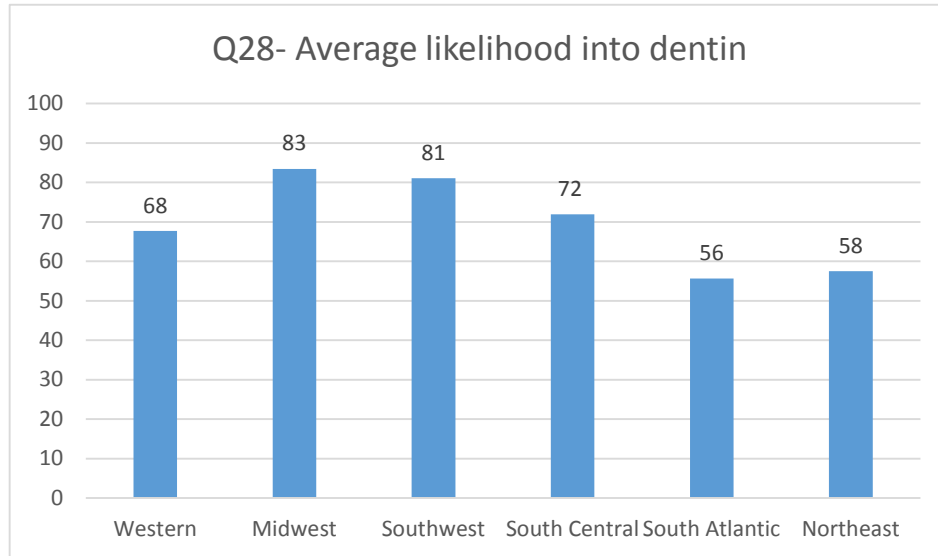
- Western: 40% full restoration
- Midwest: 100% full restoration
- Southwest: 50% full restoration
- South Central: 40% full restoration
- South Atlantic: 60% full restoration
- Northeast: 60% full restoration





Figure 28.

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



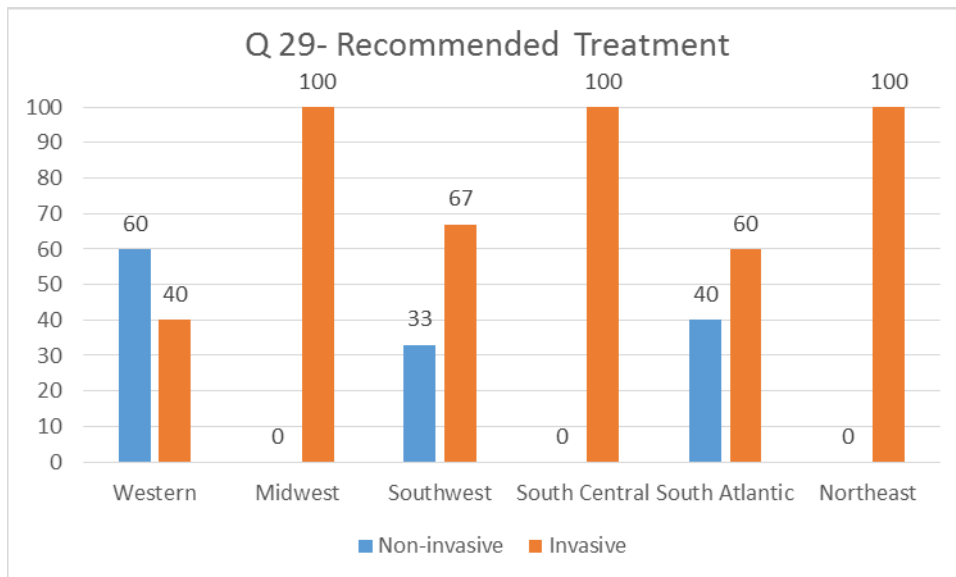
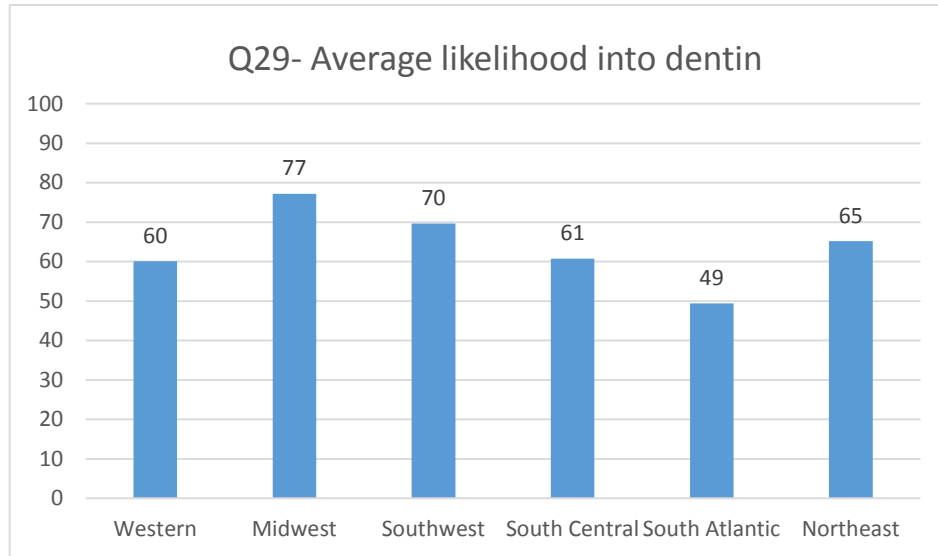
The highest percentages for specific treatment in each region were as follows:

- 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



Figure 29.

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:

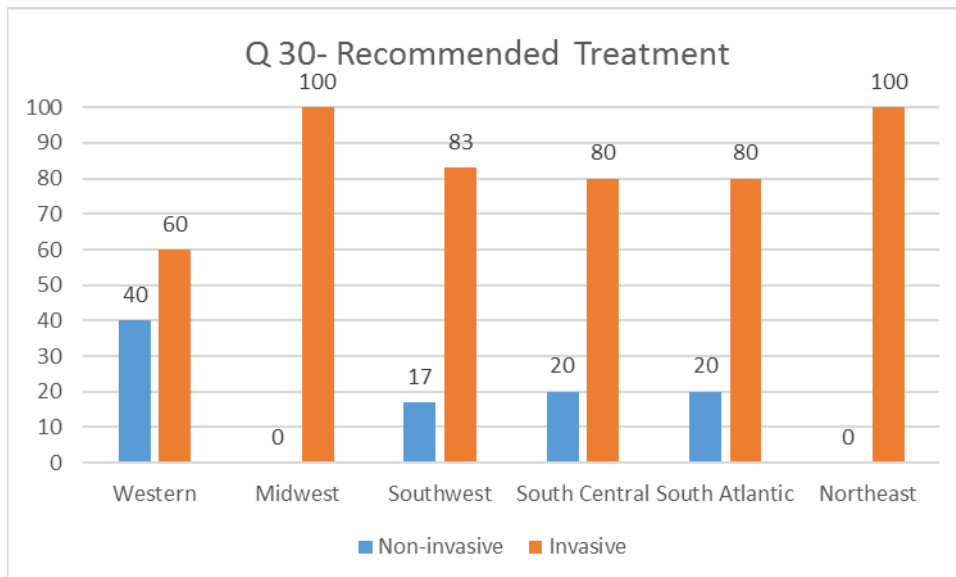
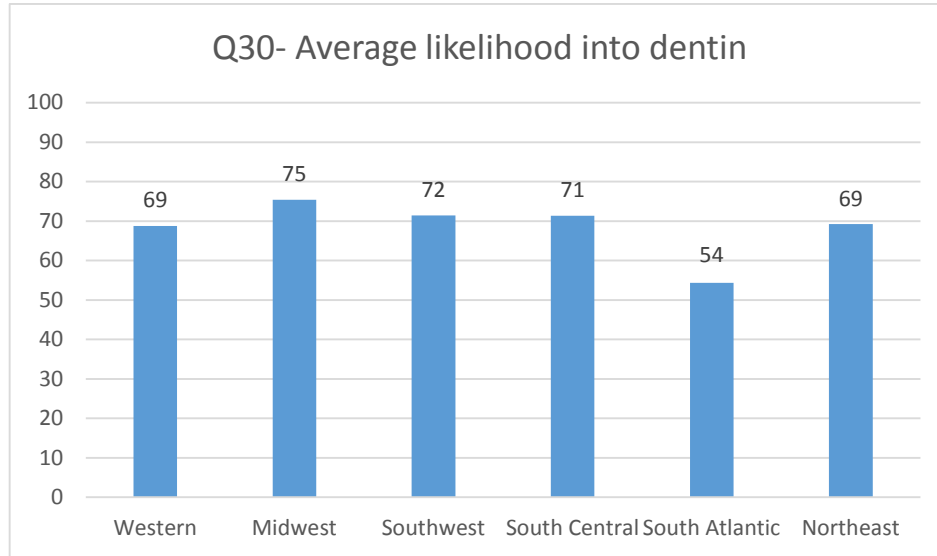
- Western: 40% no treatment
- Midwest: 100% full restoration
- Southwest: 33% preventive treatment; preventive resin restoration; full restoration
- South Central: 80% full restoration
- South Atlantic: 60% full restoration
- Northeast: 60% full restoration



You consider this patient to be at ***elevated*** risk for caries.

Upon examination, the suspicious areas feel ***smooth***. The DIAGNOdent reading was 40.

Figure 30.



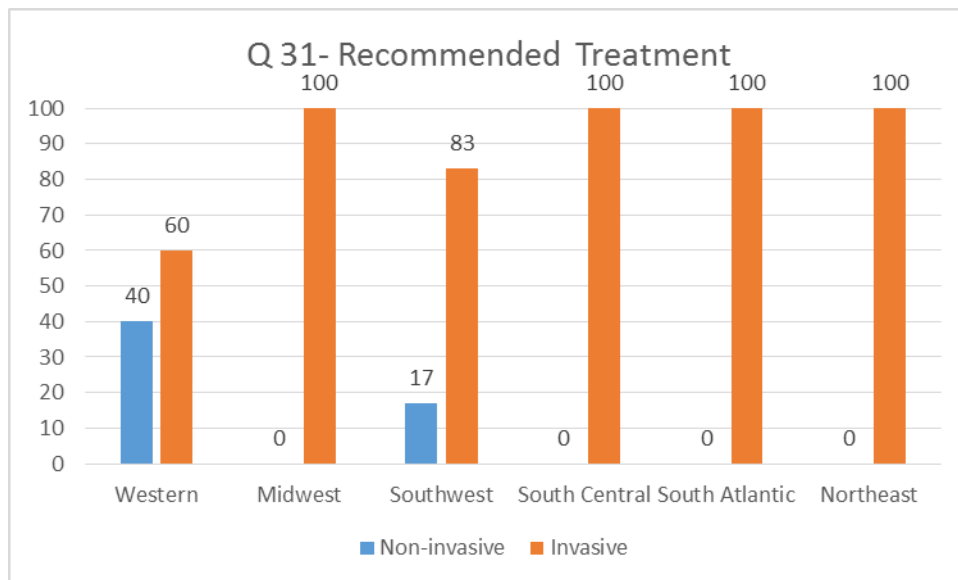
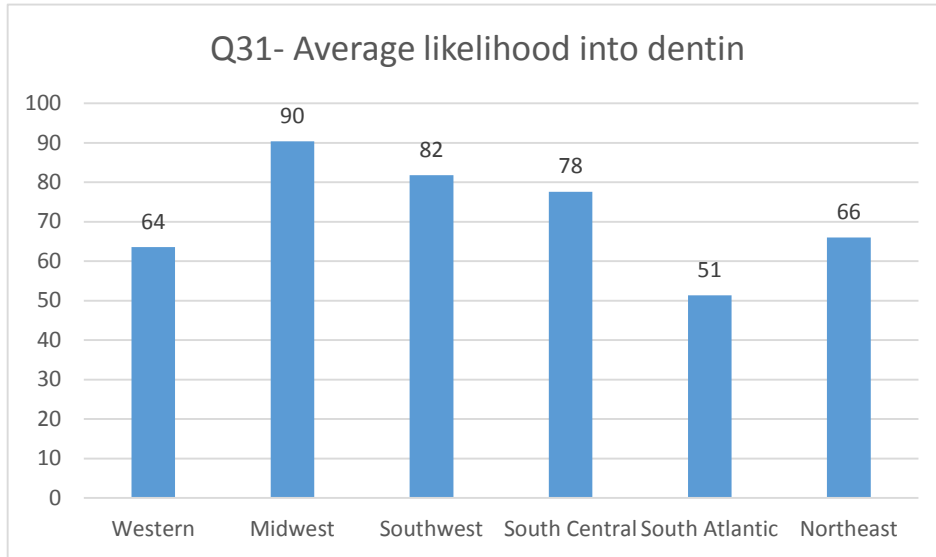
The highest percentages for specific treatment in each region were as follows:

- 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.

Figure 31.



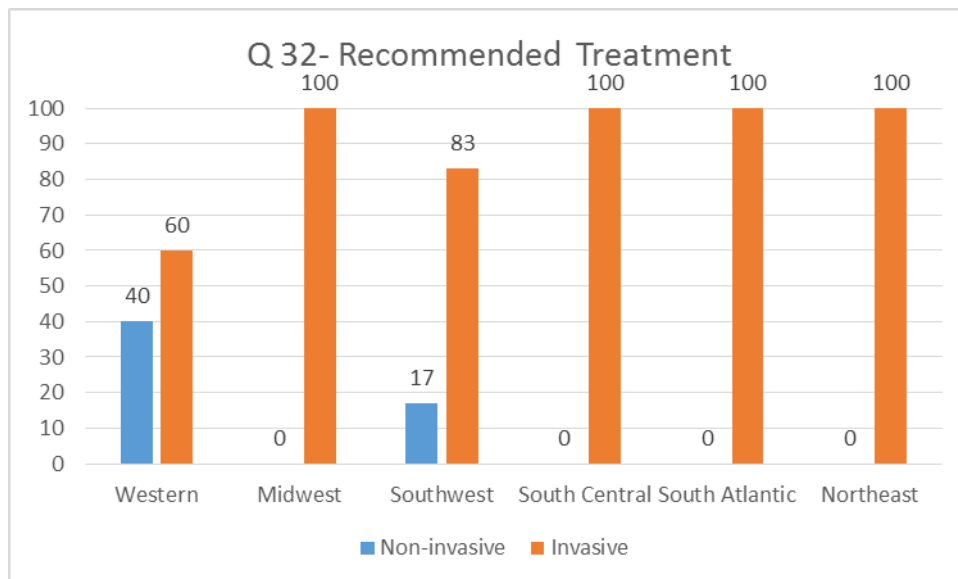
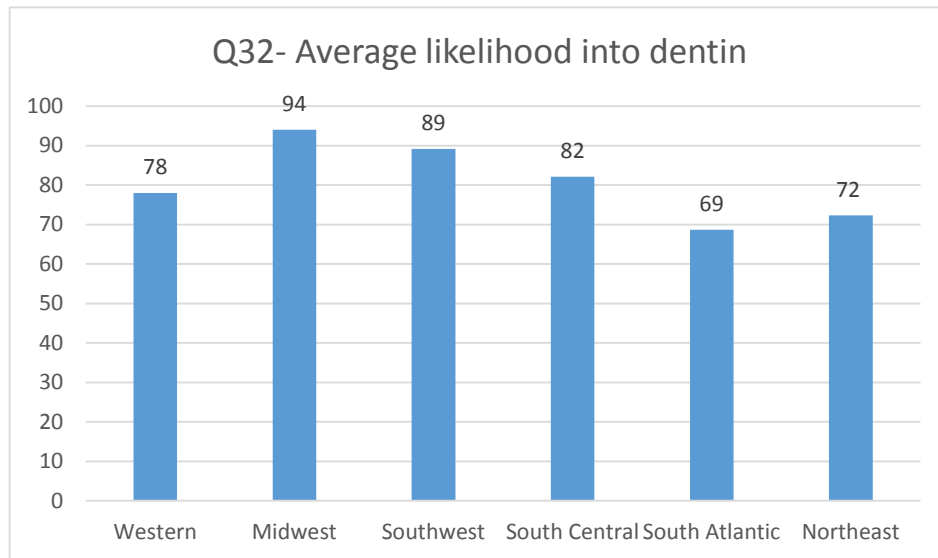
The highest percentages for specific treatment in each region were as follows:

- 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.

Figure 32.



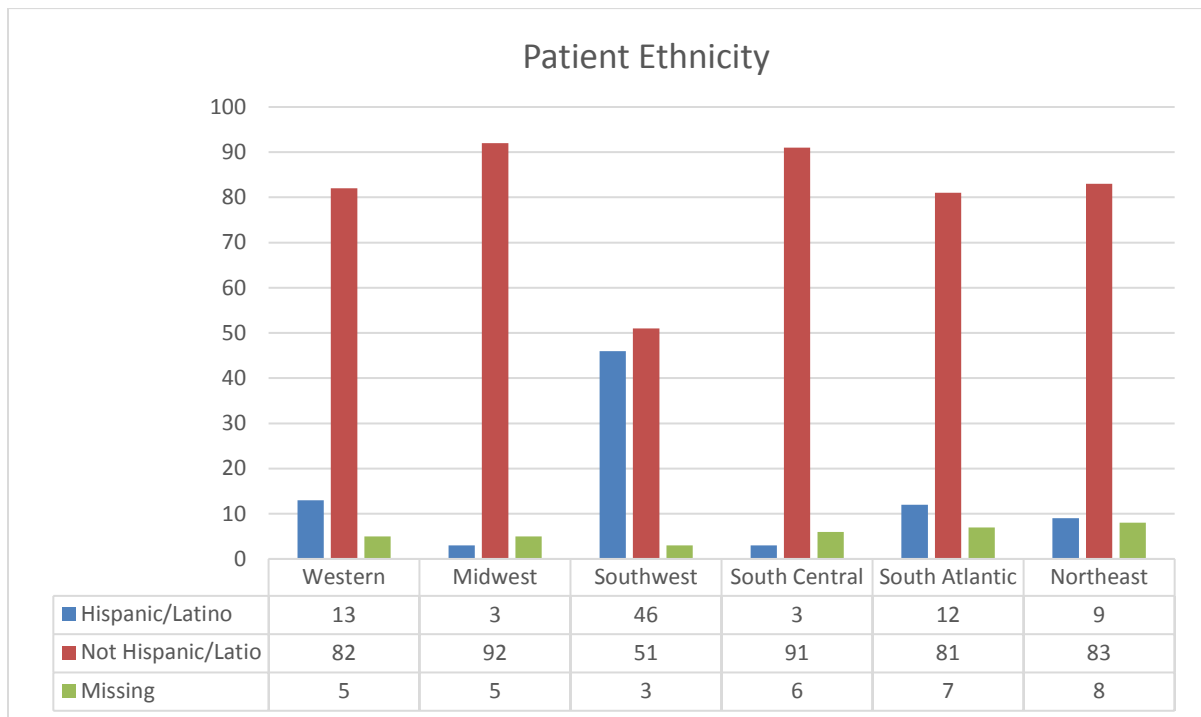
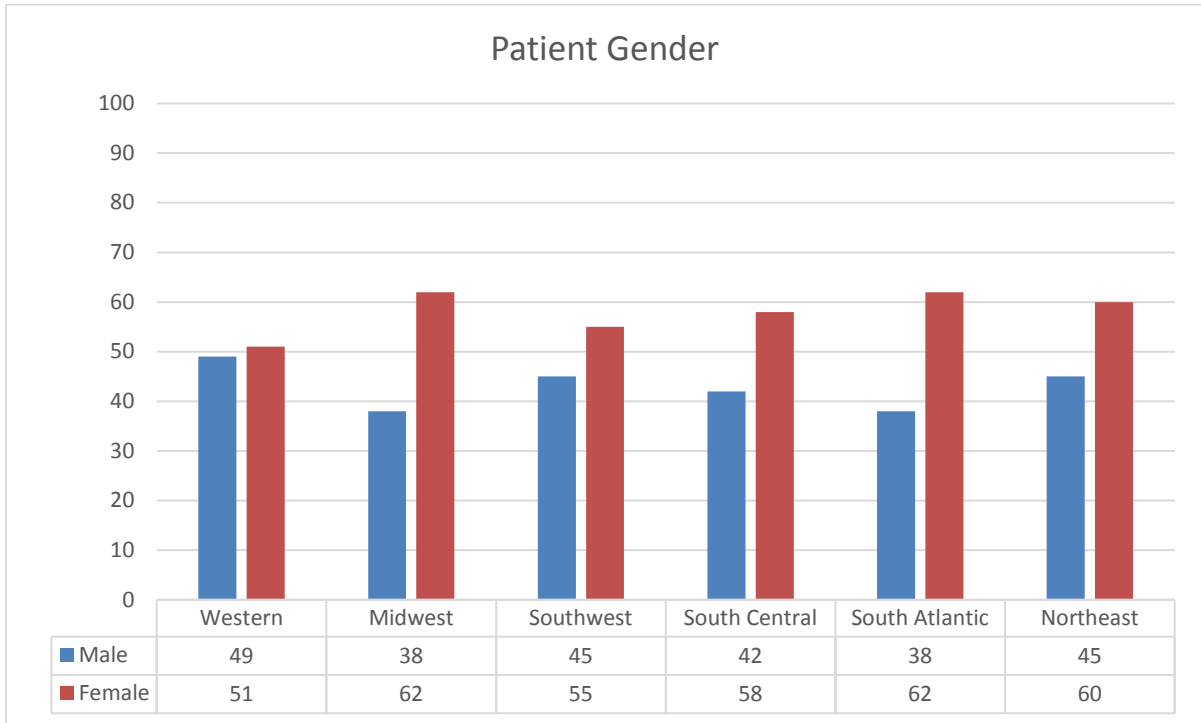
The highest percentages for specific treatment in each region were as follows:

- 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

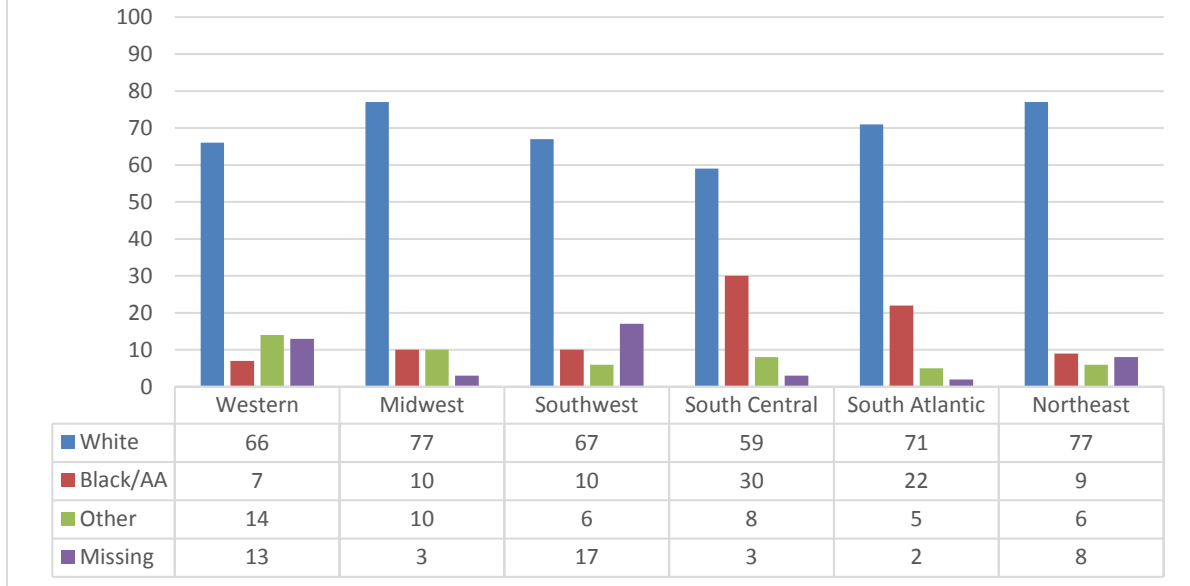
SUSPICIOUS OCCLUSAL CARIES LESIONS STUDY

Patient Characteristics

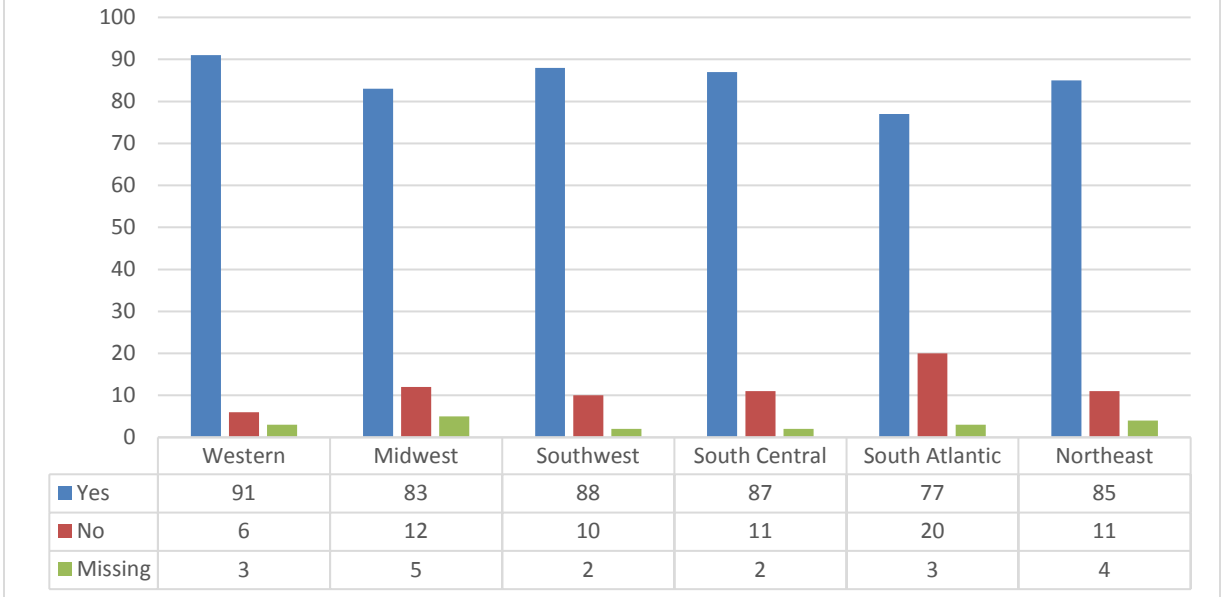
Intervention



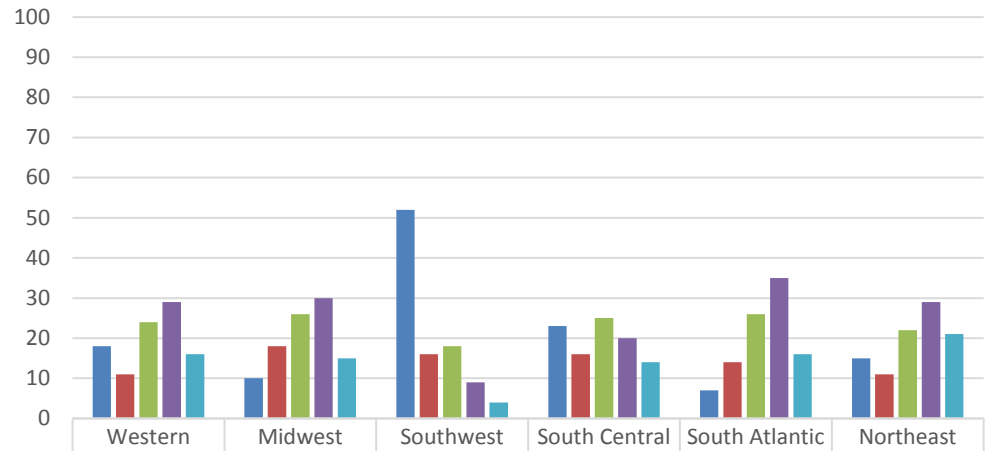
### Patient Race



### Any dental insurance



### Patient Education Level



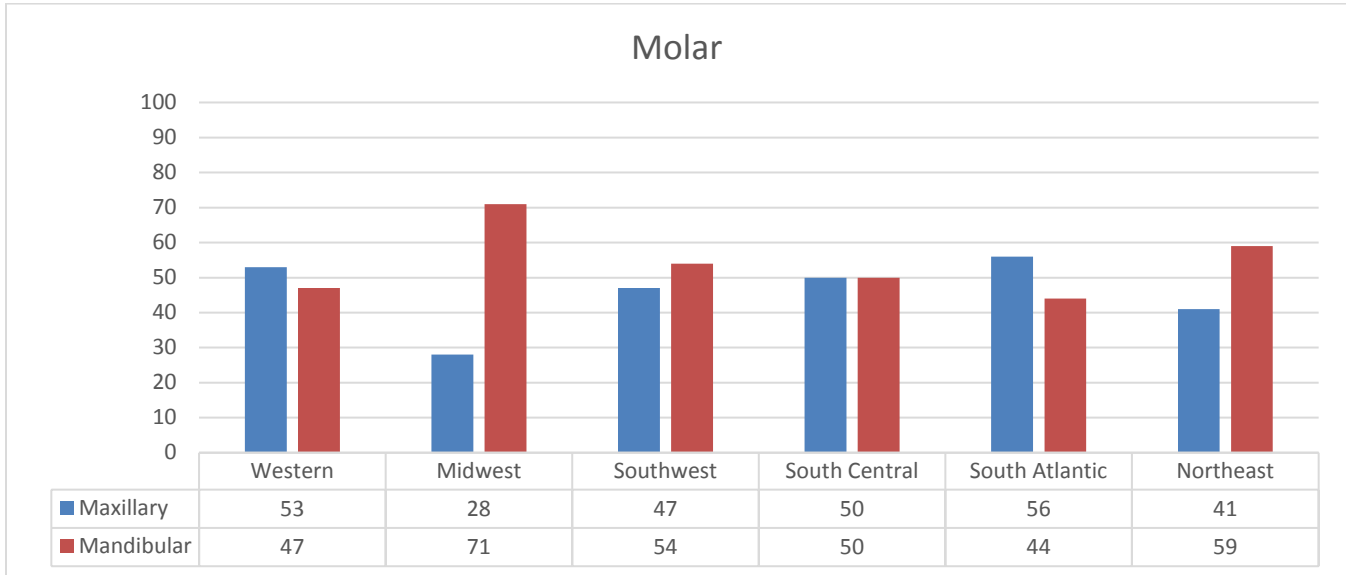
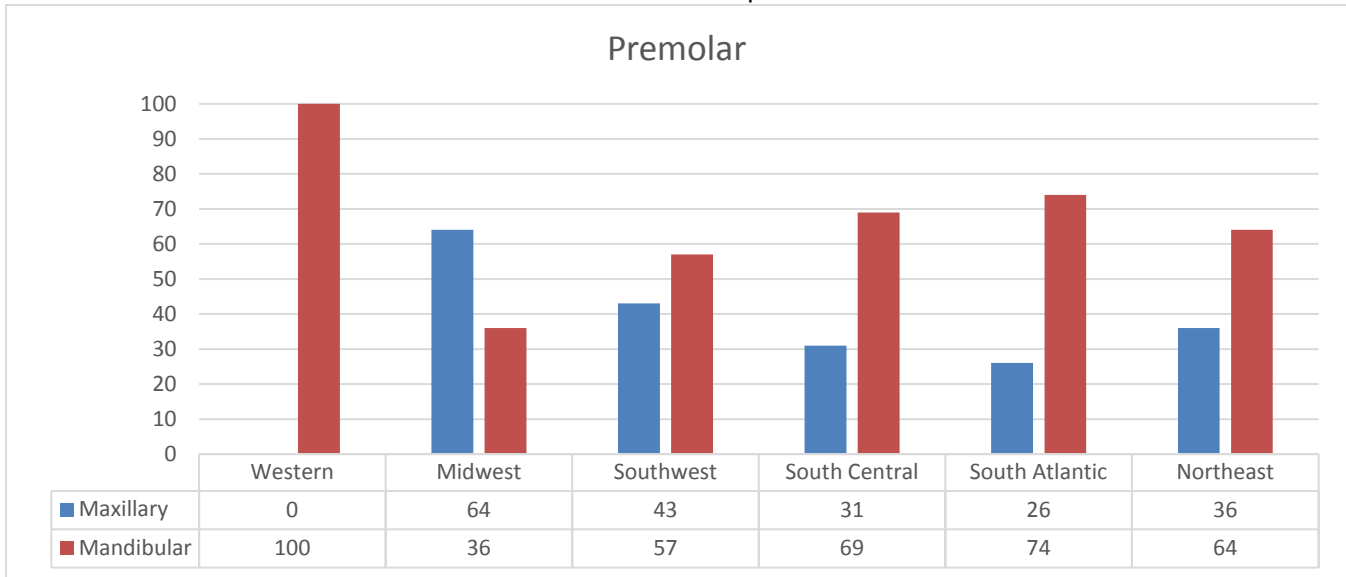
	Western	Midwest	Southwest	South Central	South Atlantic	Northeast
■ Less than high school diploma	18	10	52	23	7	15
■ HS Graduate	11	18	16	16	14	11
■ Some college	24	26	18	25	26	22
■ Bachelor's Degree	29	30	9	20	35	29
■ Graduate Degree	16	15	4	14	16	21



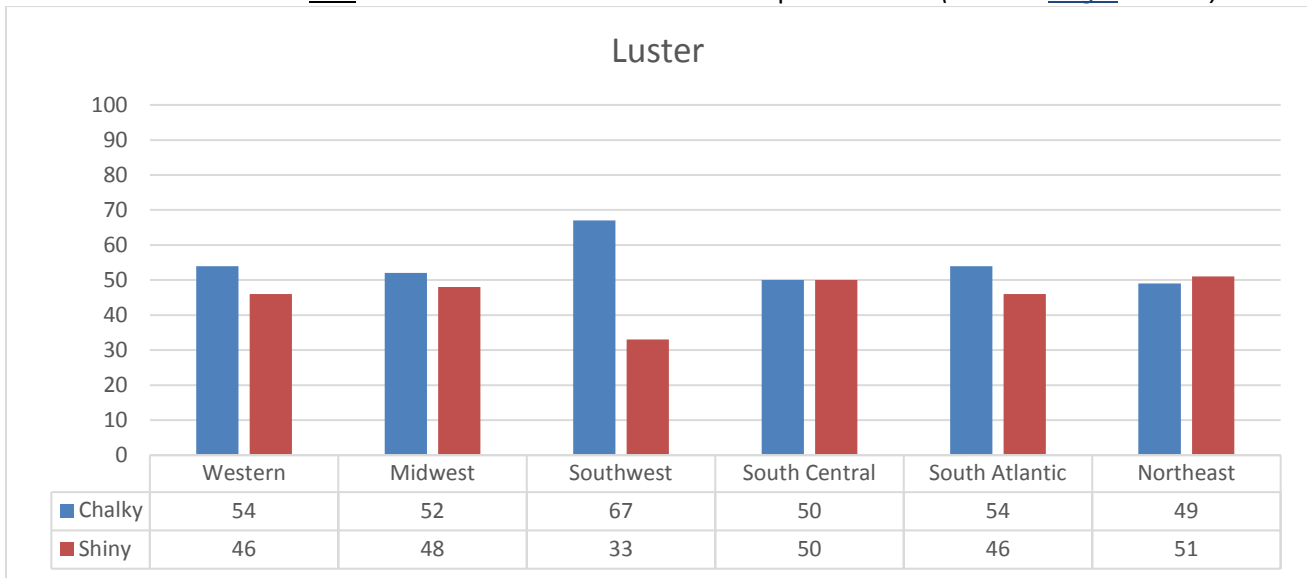
**SUSPICIOUS OCCLUSAL CARIES LESIONS STUDY**  
**Dentist Assessments**

**Intervention Phase- No Device**

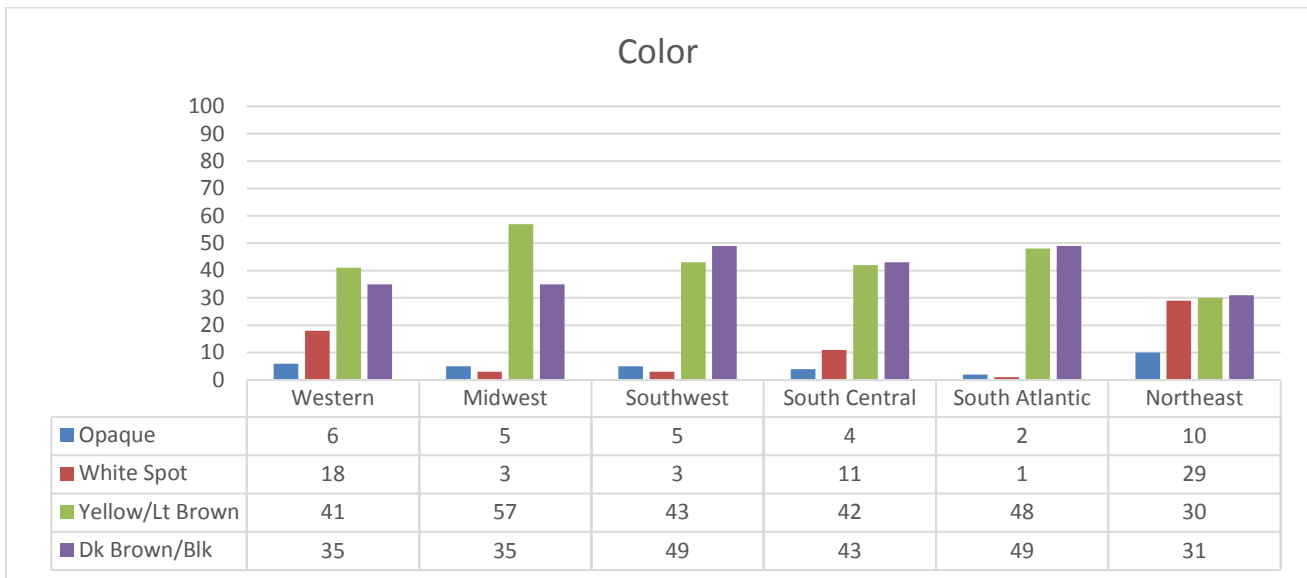
1. On which tooth is the suspicious area located?



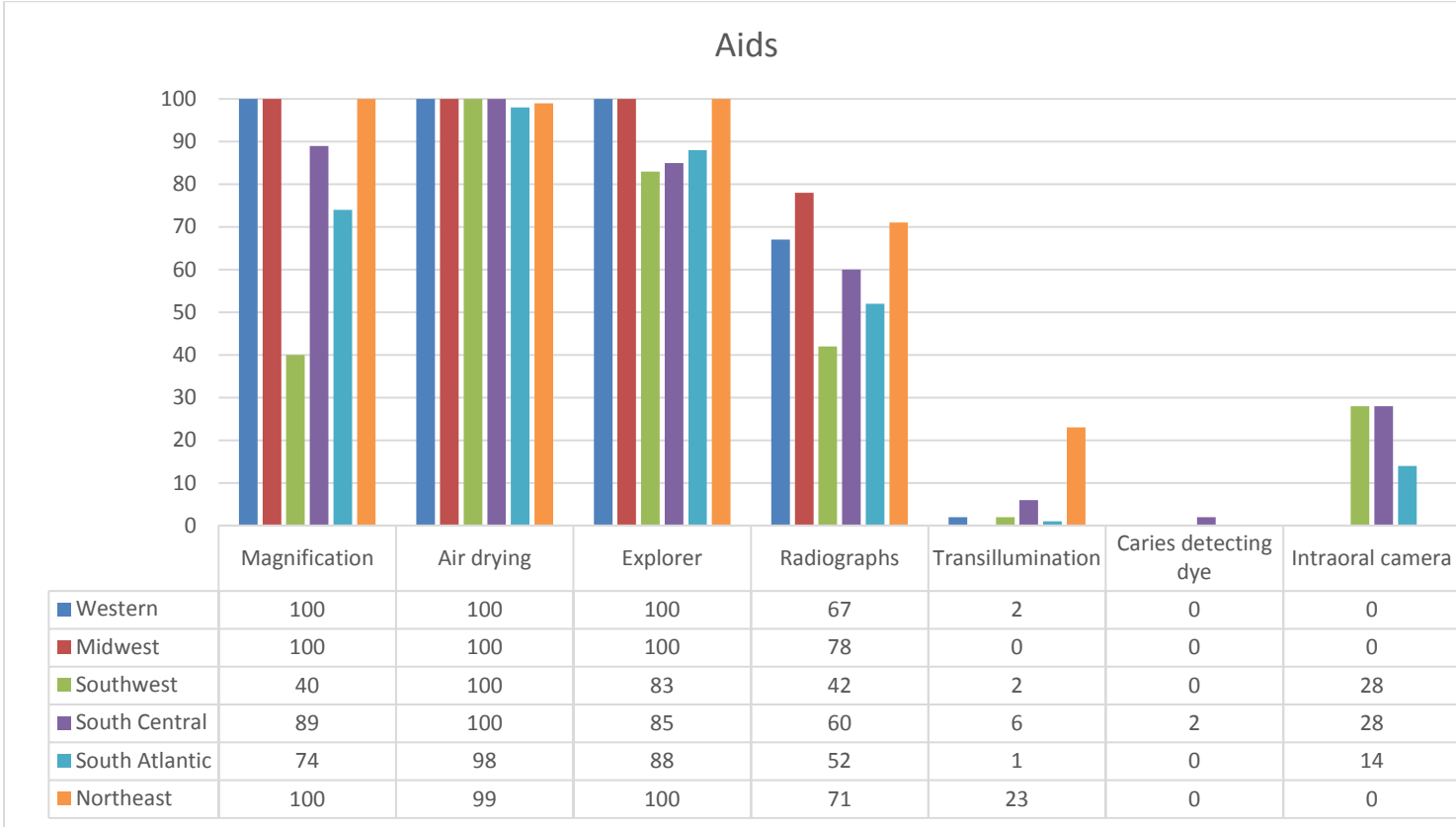
2. Which **one** best describes the **luster** of the suspicious area? (Check a single answer)



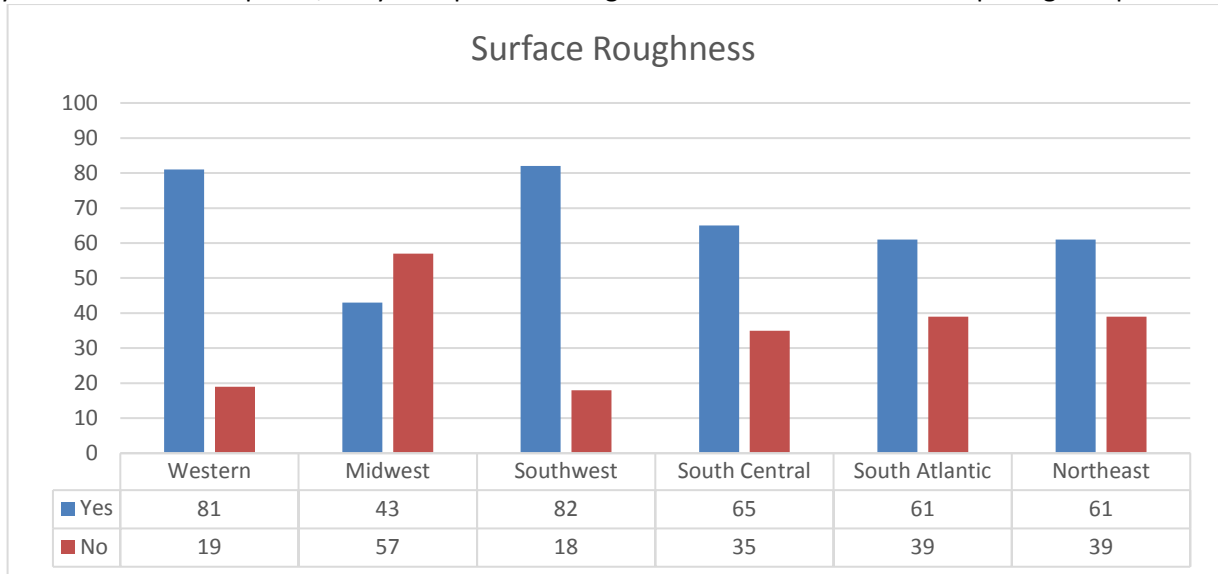
3. Which **one** best describes the **color** of the suspicious area? (Check a single answer)



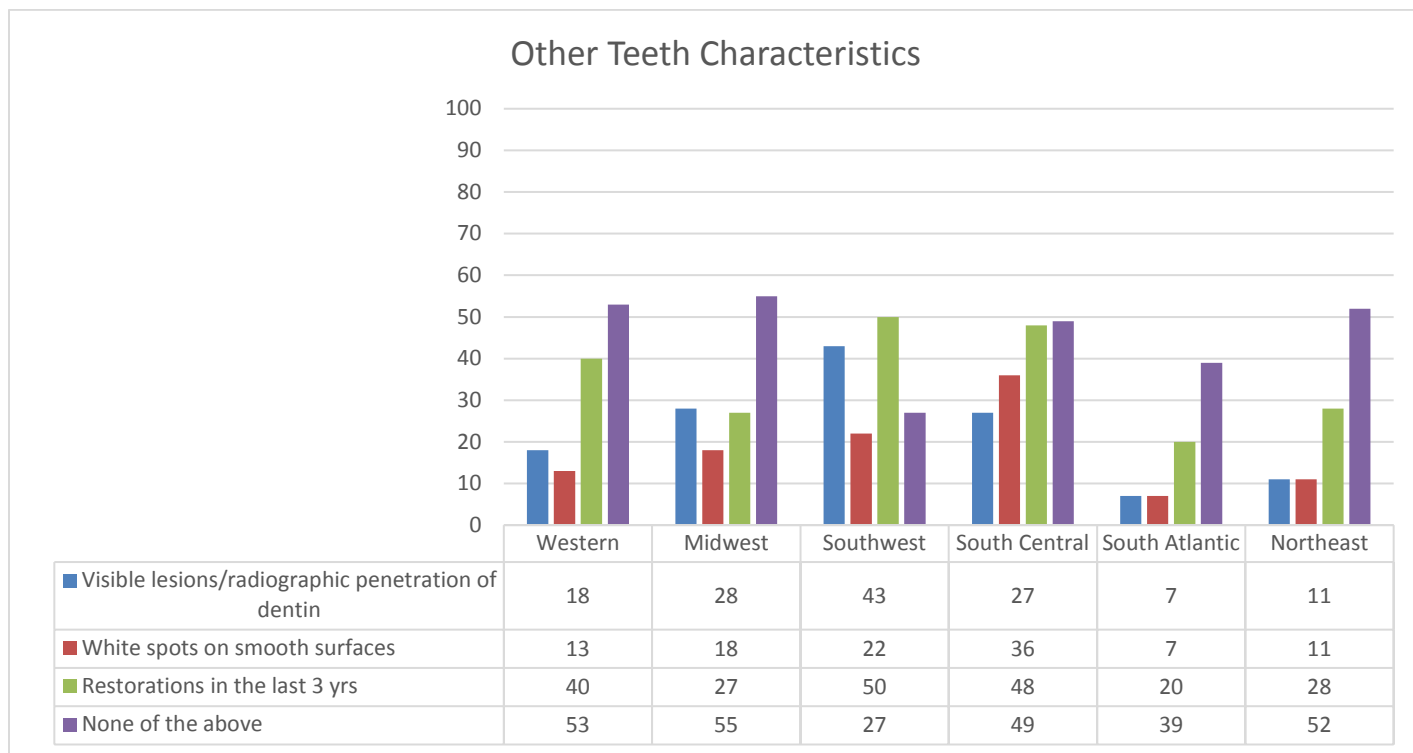
4. Which aids were used in making (not confirming) the diagnosis? (*Check all that apply*)



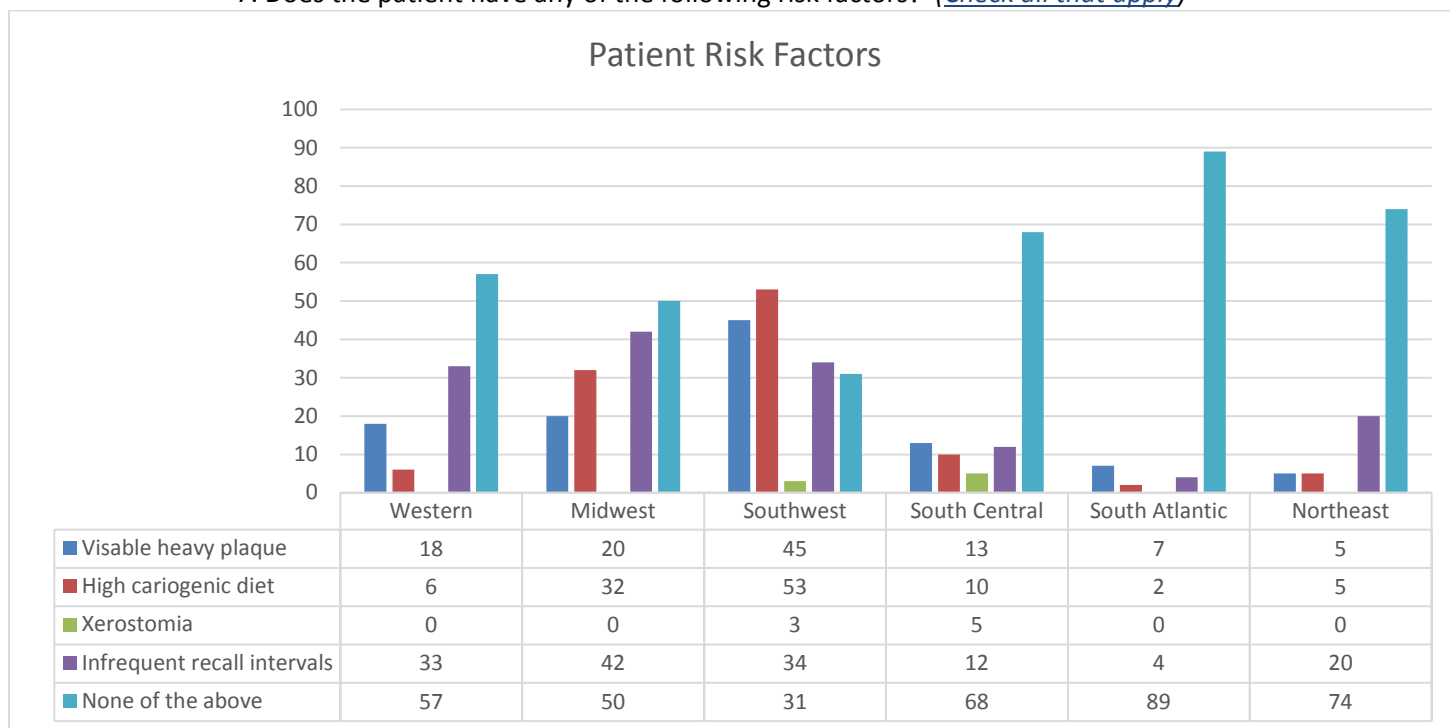
5. If you used a dental explorer, did you experience roughness of the enamel surface upon light exploration?



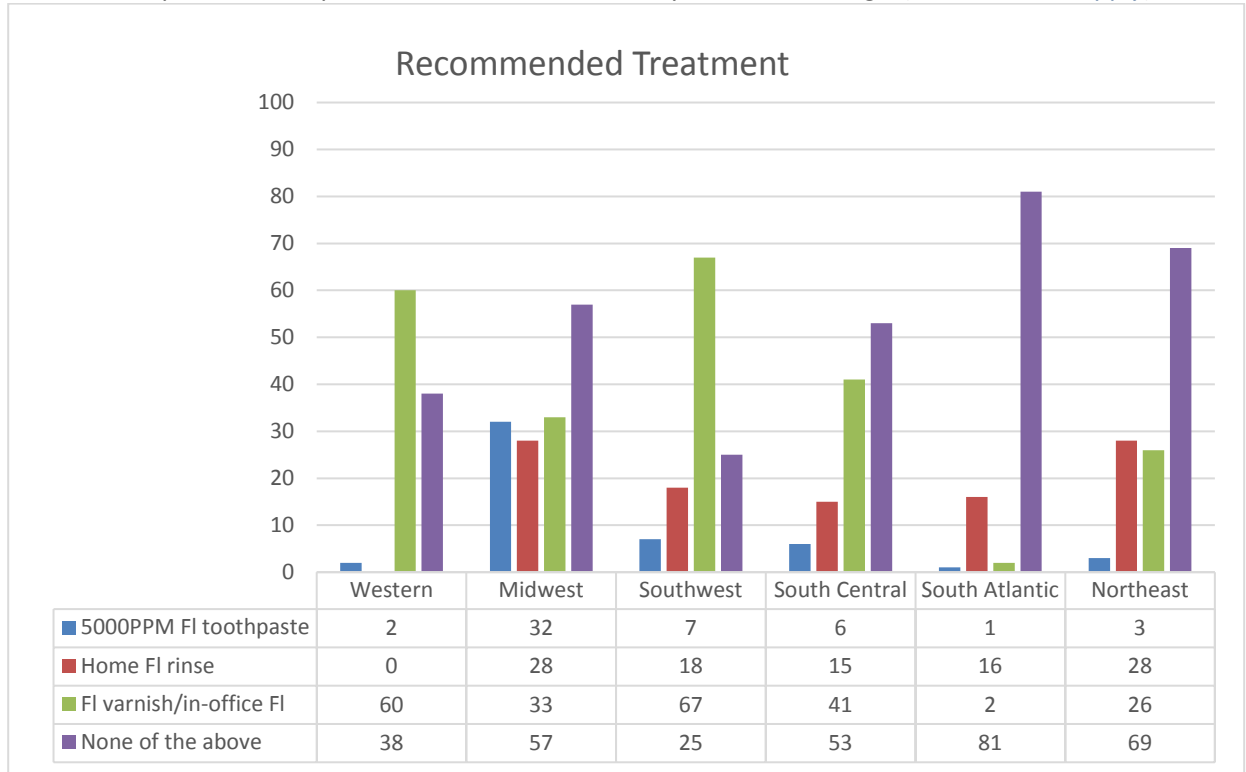
6. Do any other teeth in the mouth have any of the following characteristics? (*Check all that apply*)



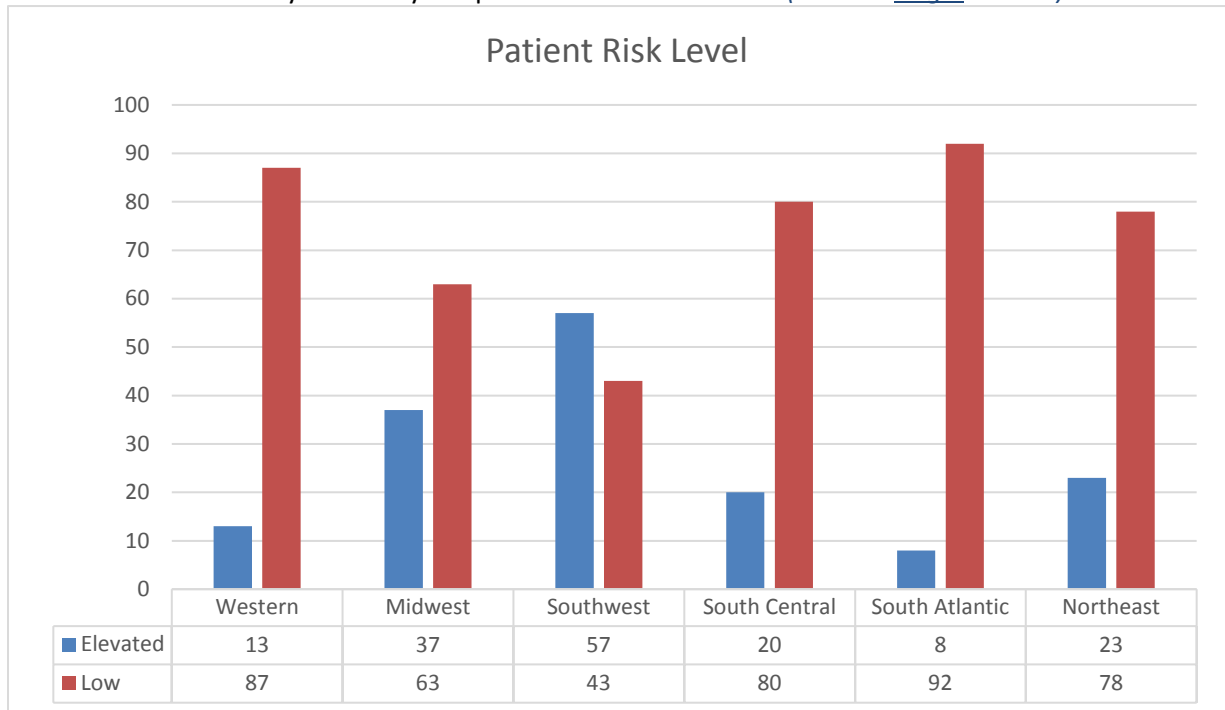
7. Does the patient have any of the following risk factors? (*Check all that apply*)



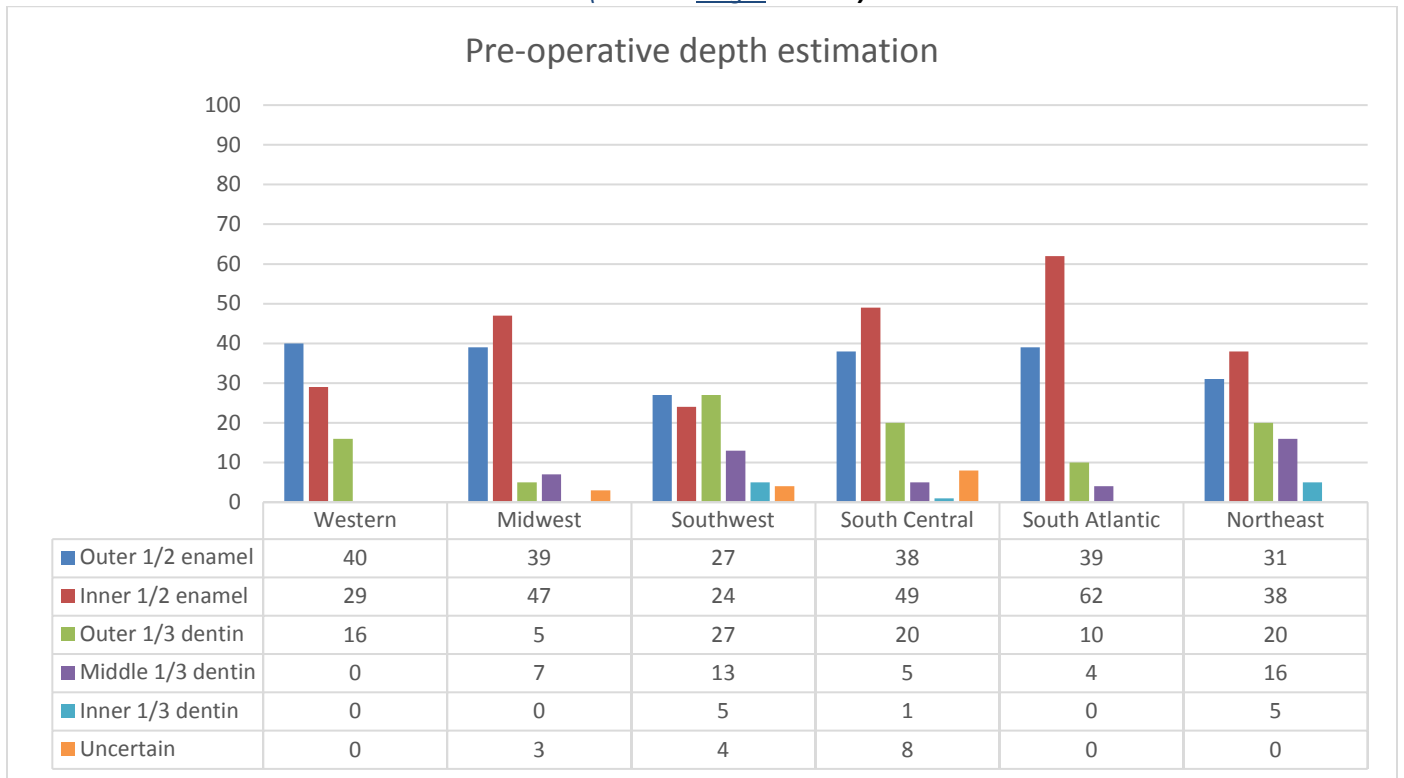
8. Has the patient been prescribed/recommended any of the following? (*Check all that apply*)



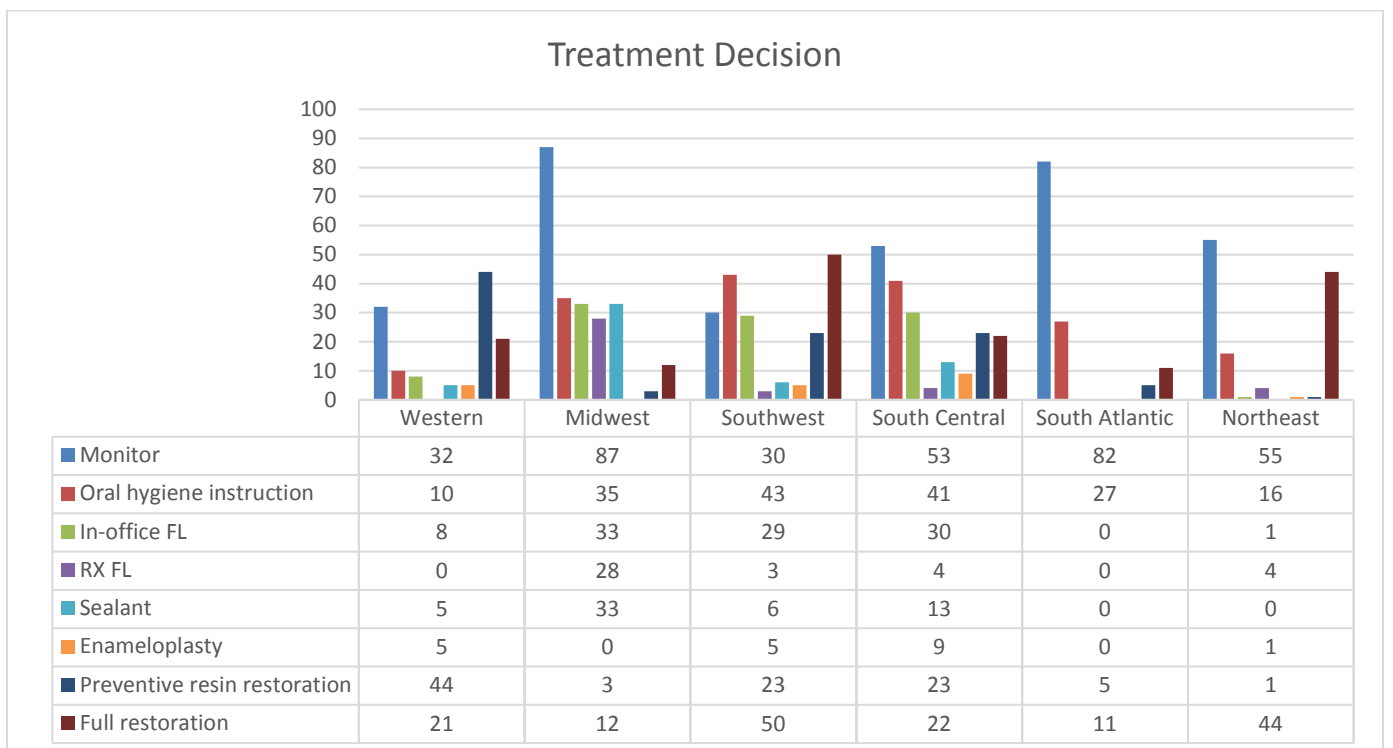
9. How would you classify the patient's caries risk level? (*Check a single answer*)



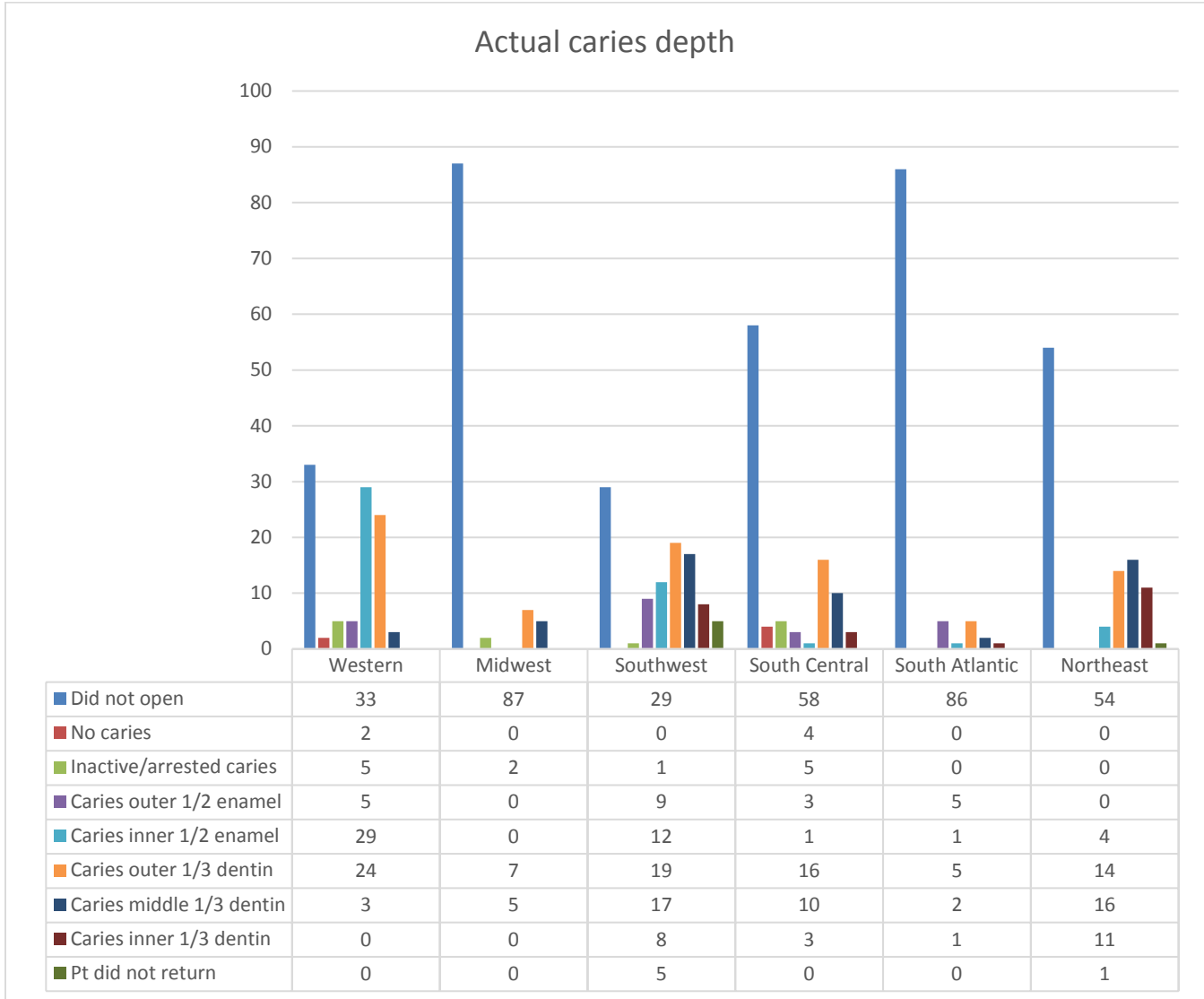
10. Before you provide any treatment, how deep do you estimate that the deepest part of the suspicious caries lesion is? (*Check a single answer*)



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



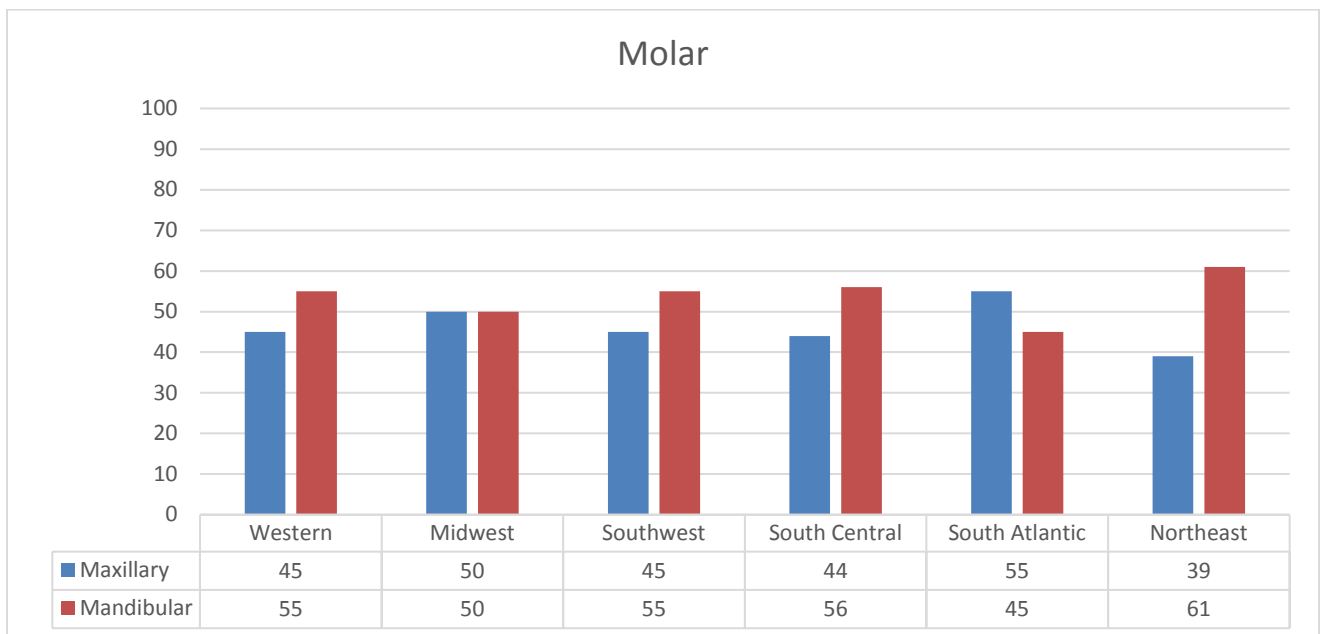
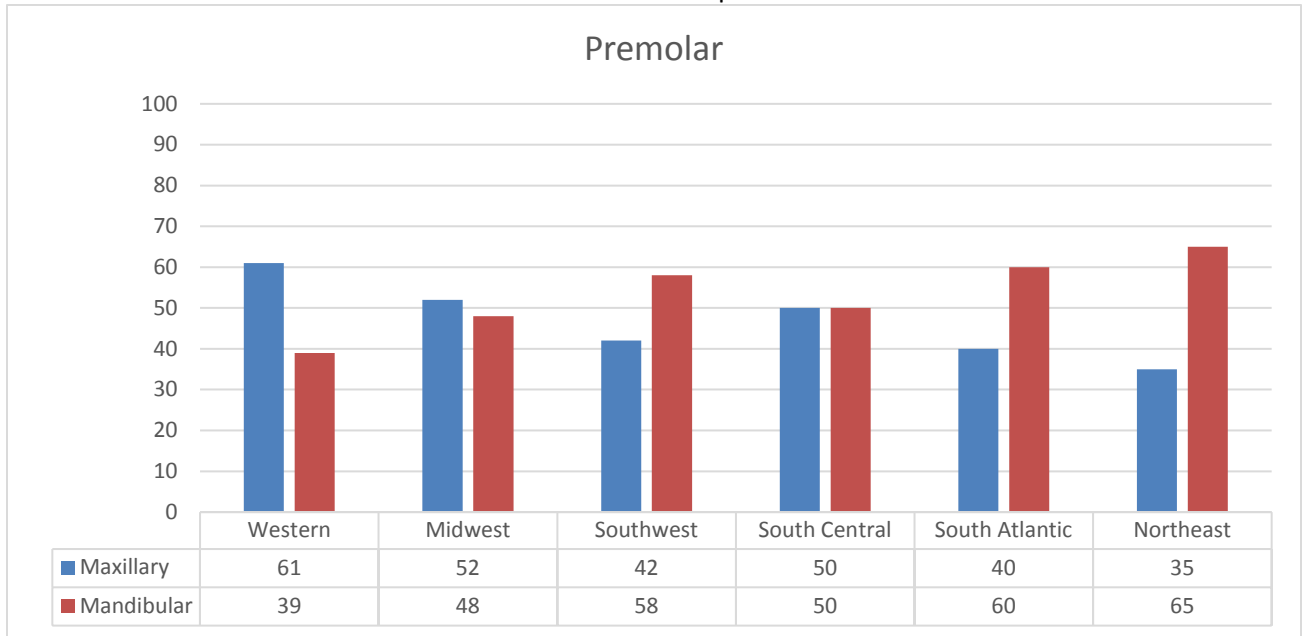
12. When you treated the lesion, what did you find? (Check a single answer)



**SUSPICIOUS OCCLUSAL CARIES LESIONS STUDY**  
Dentist Assessments

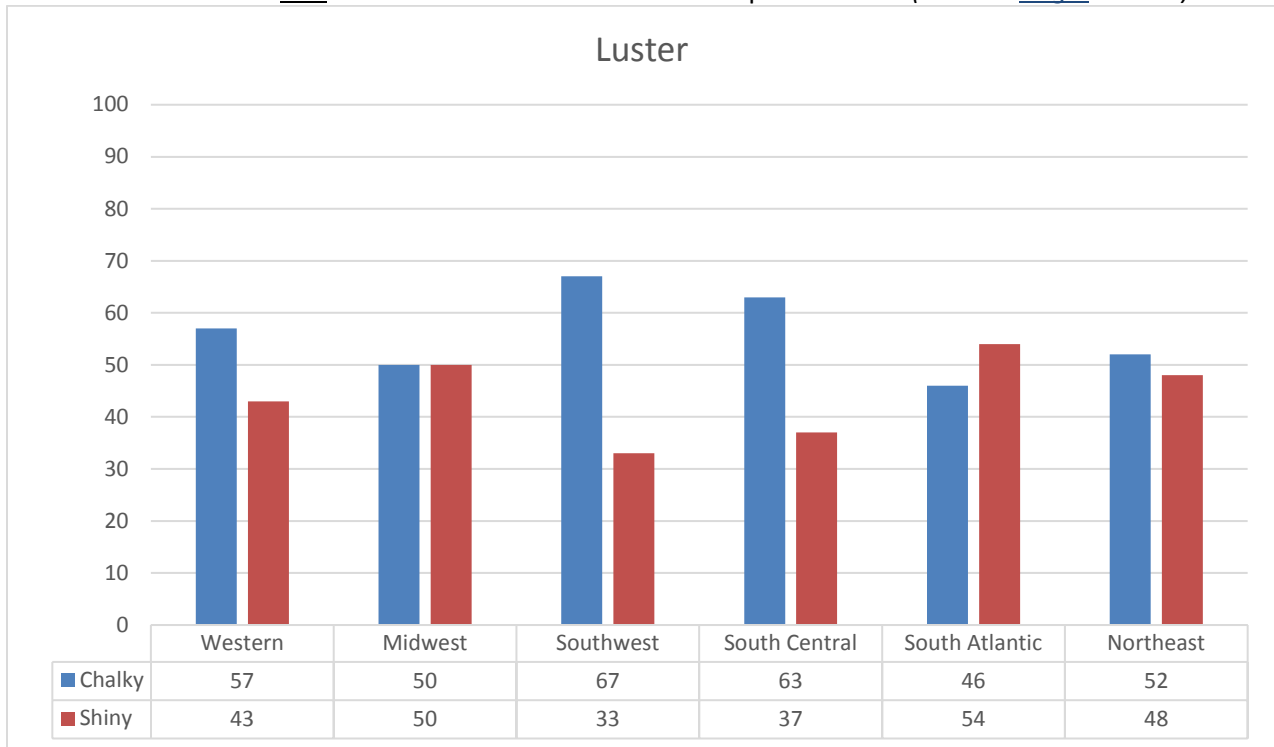
**Intervention Phase-Device**

1. On which tooth is the suspicious area located?

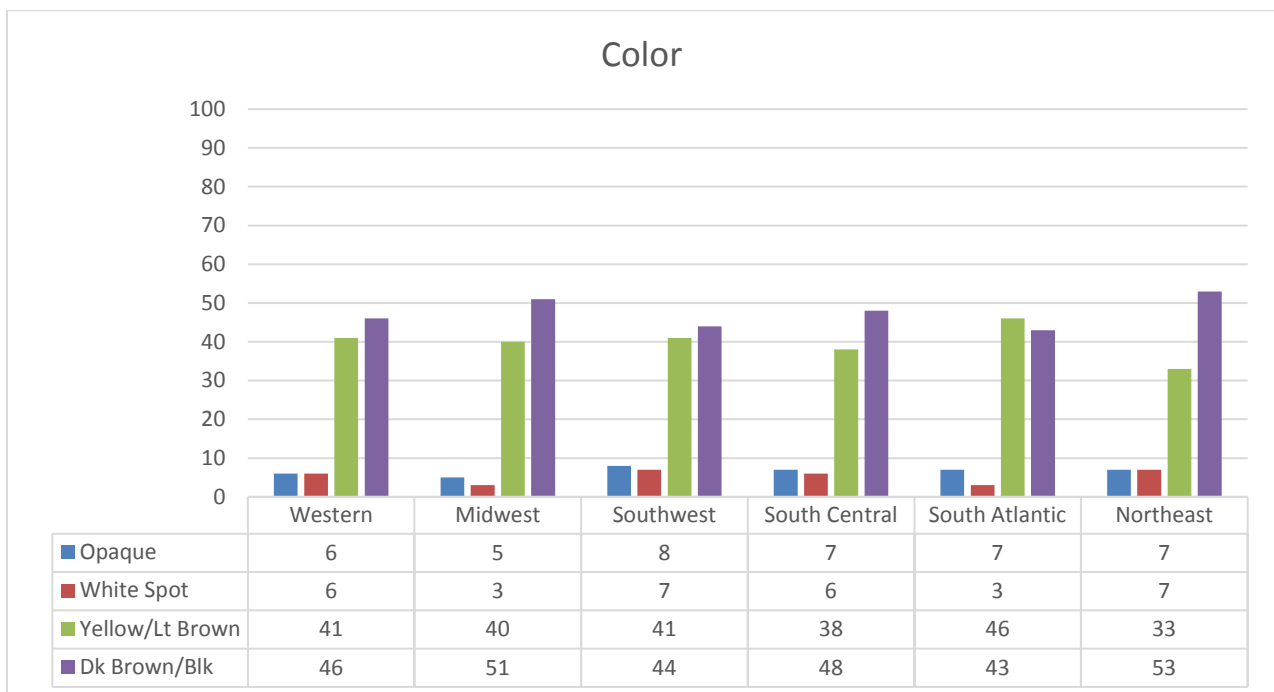




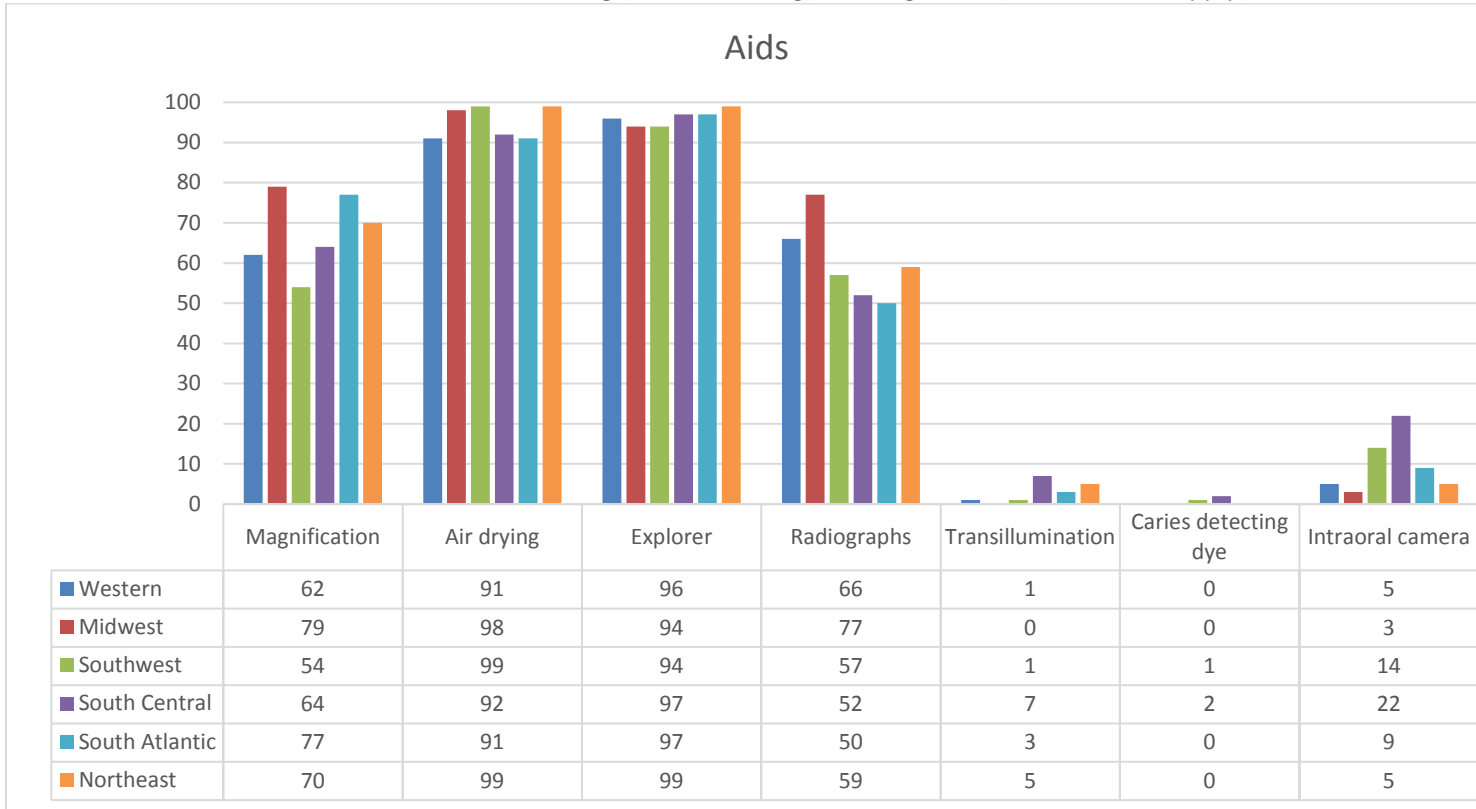
2. Which **one** best describes the **luster** of the suspicious area? (Check a single answer)



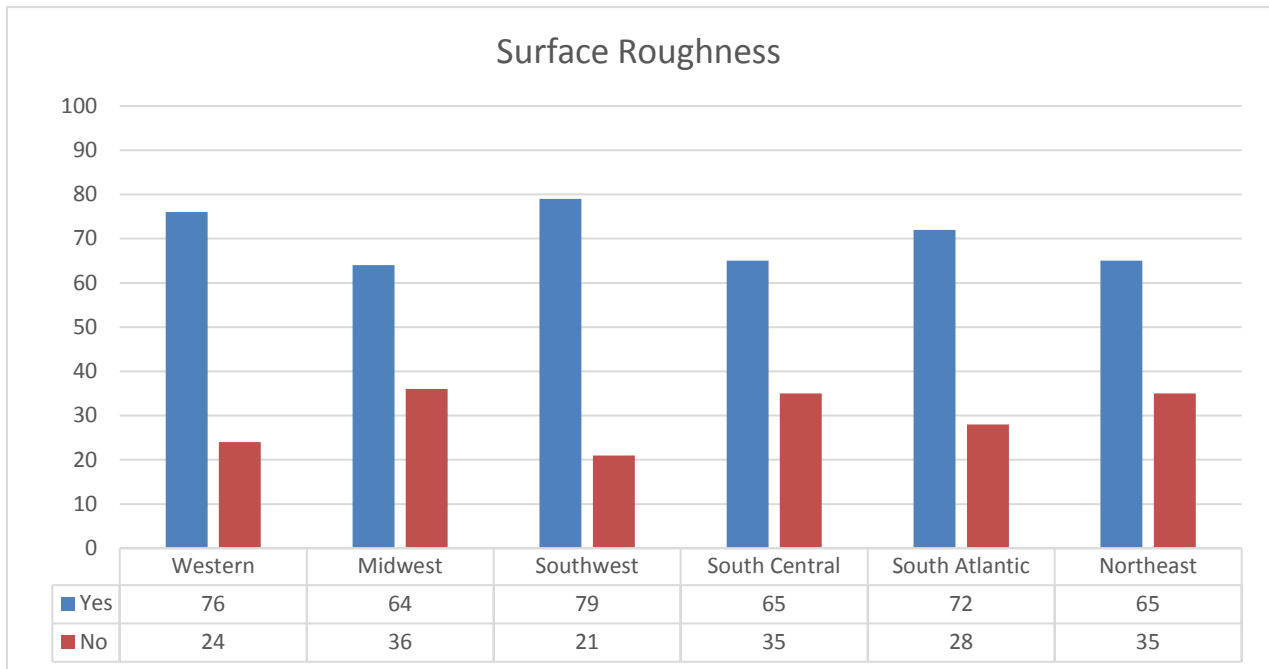
3. Which **one** best describes the **color** of the suspicious area? (Check a single answer)



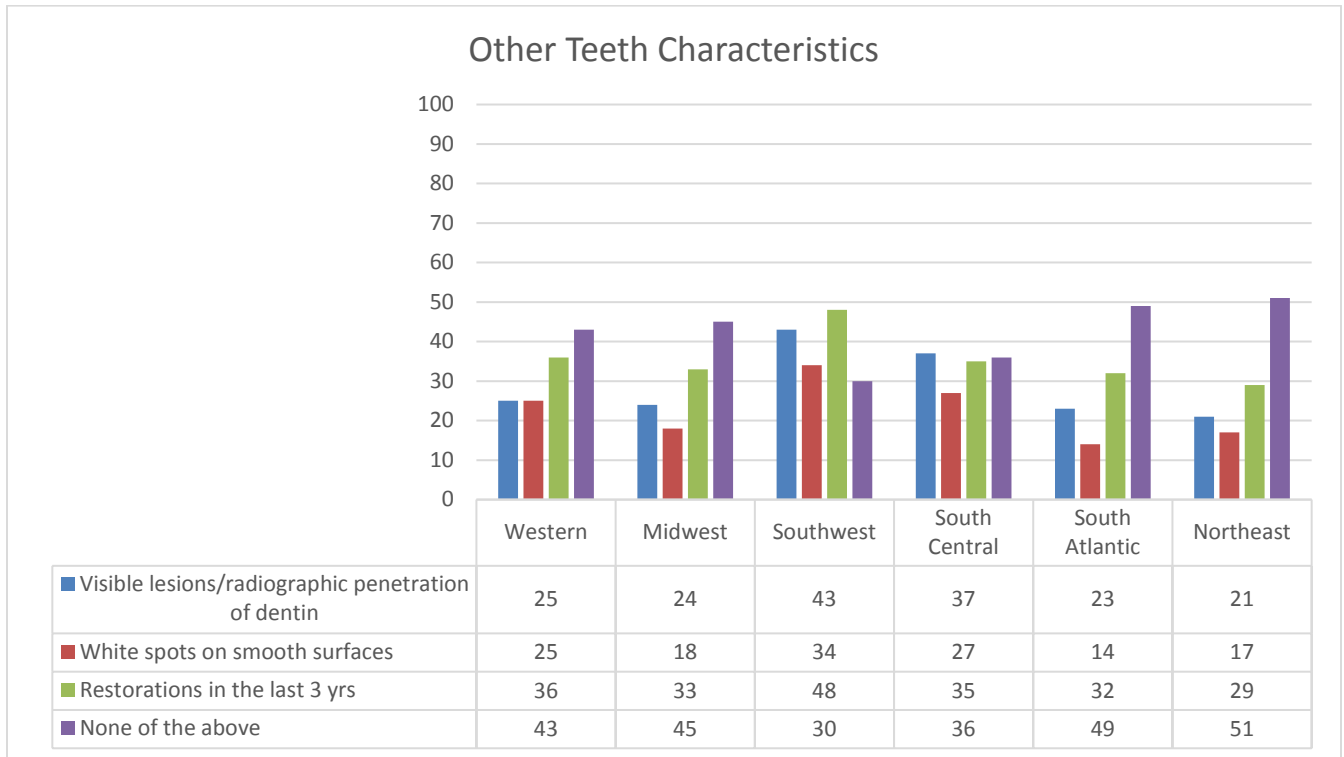
4. Which aids were used in making (not confirming) the diagnosis? (*Check all that apply*)



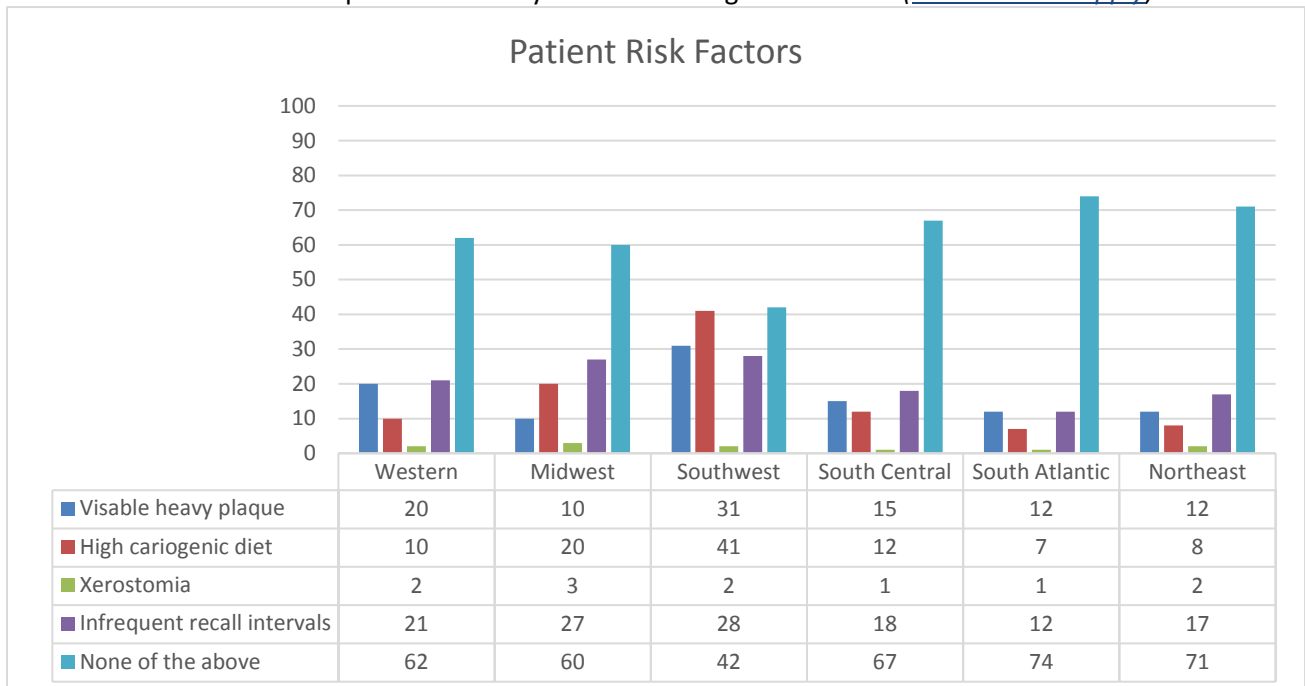
5. If you used a dental explorer, did you experience roughness of the enamel surface upon light exploration?



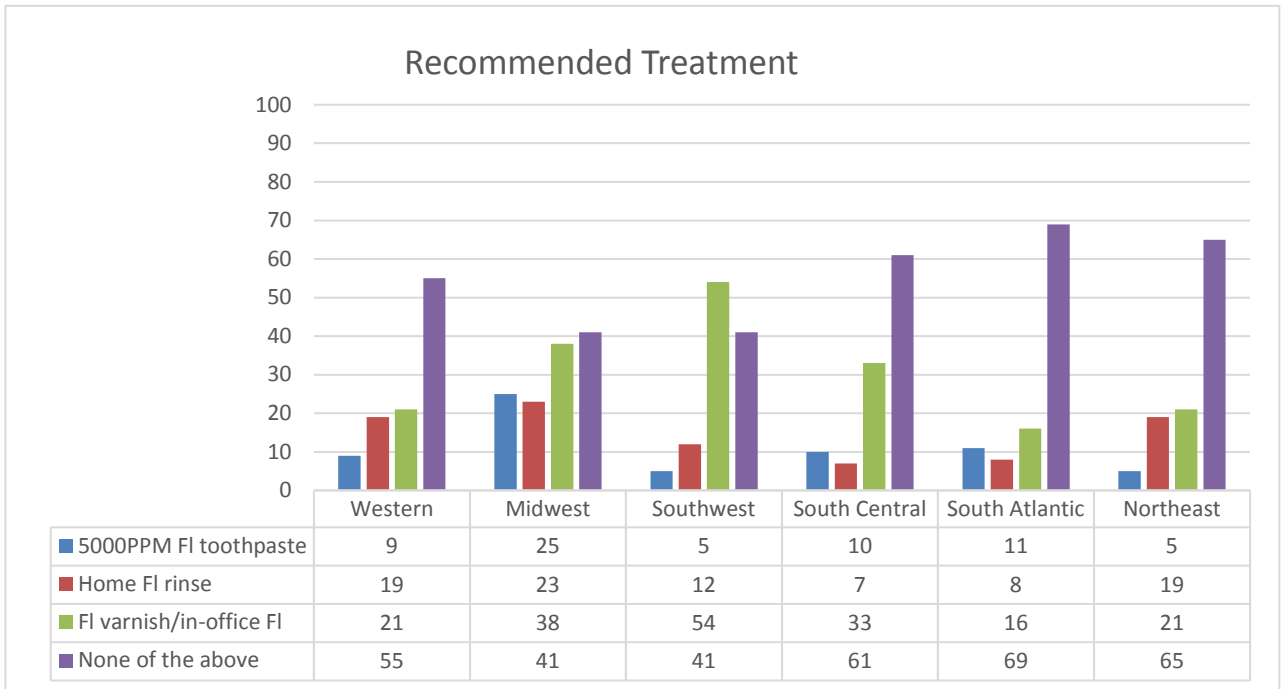
6. Do any other teeth in the mouth have any of the following characteristics? (*Check all that apply*)



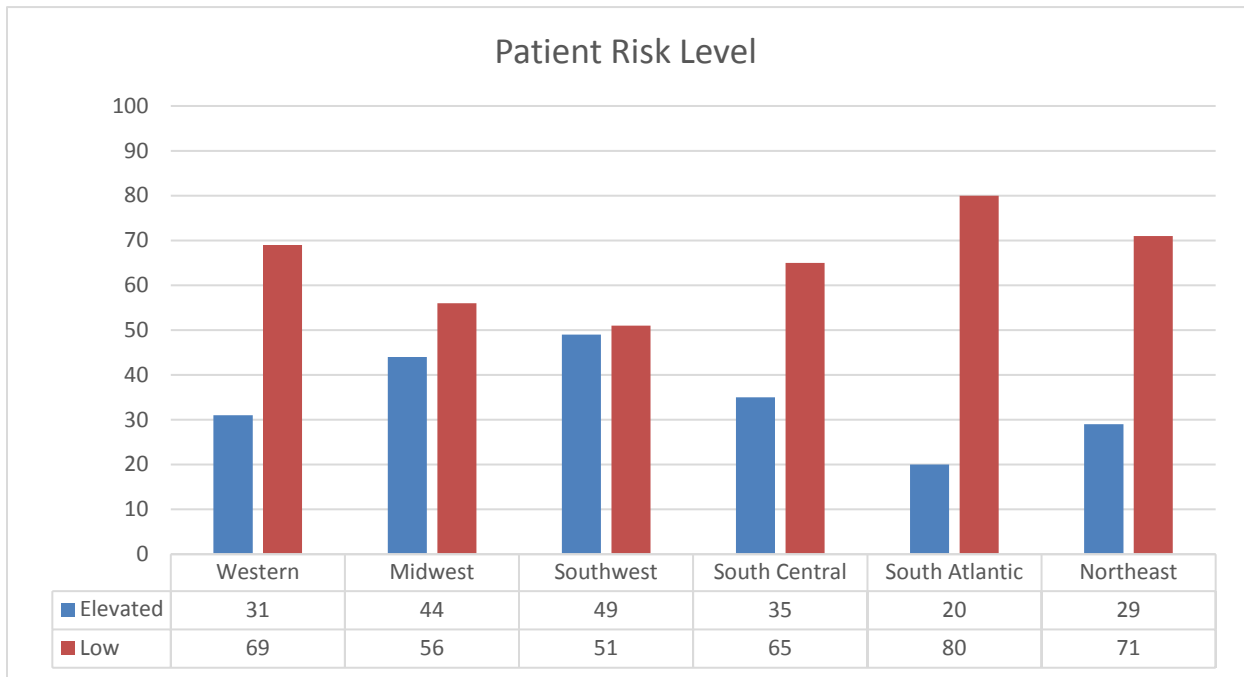
8. Does the patient have any of the following risk factors? (*Check all that apply*)



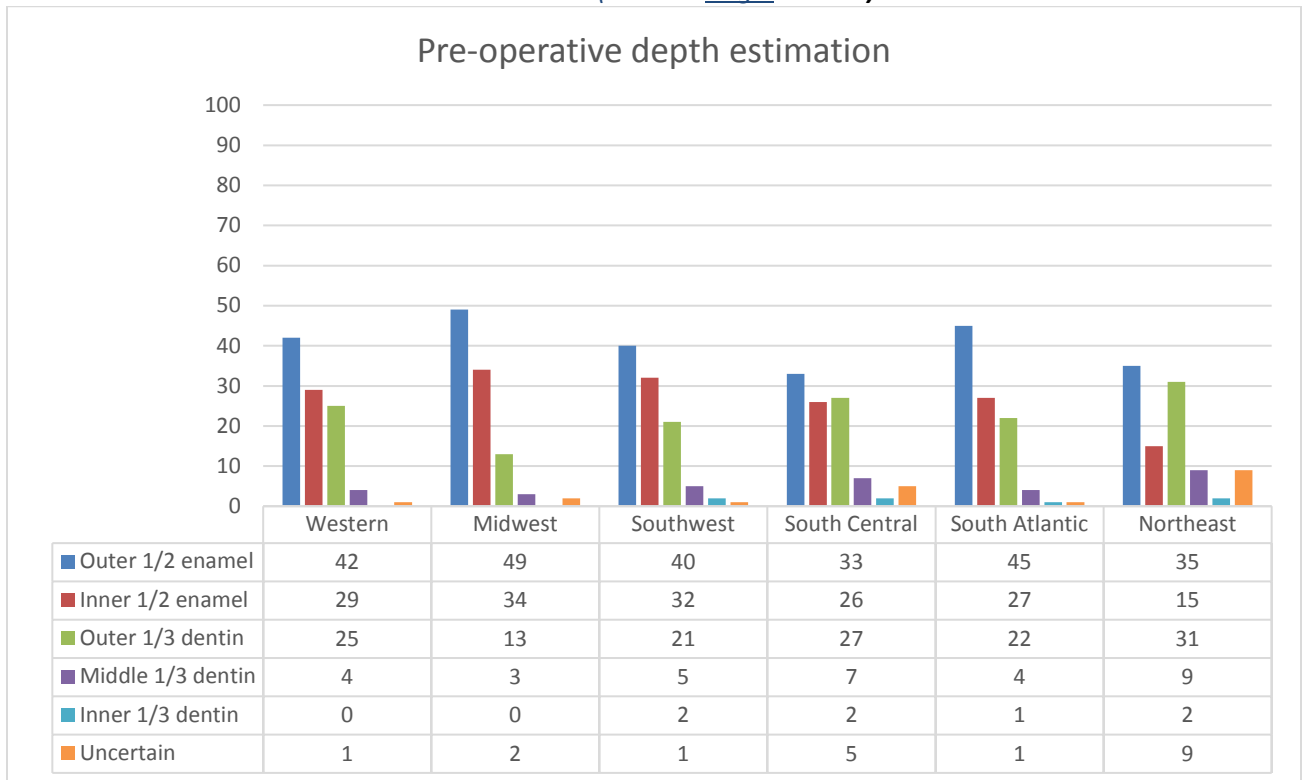
9. Has the patient been prescribed/recommended any of the following? (*Check all that apply*)



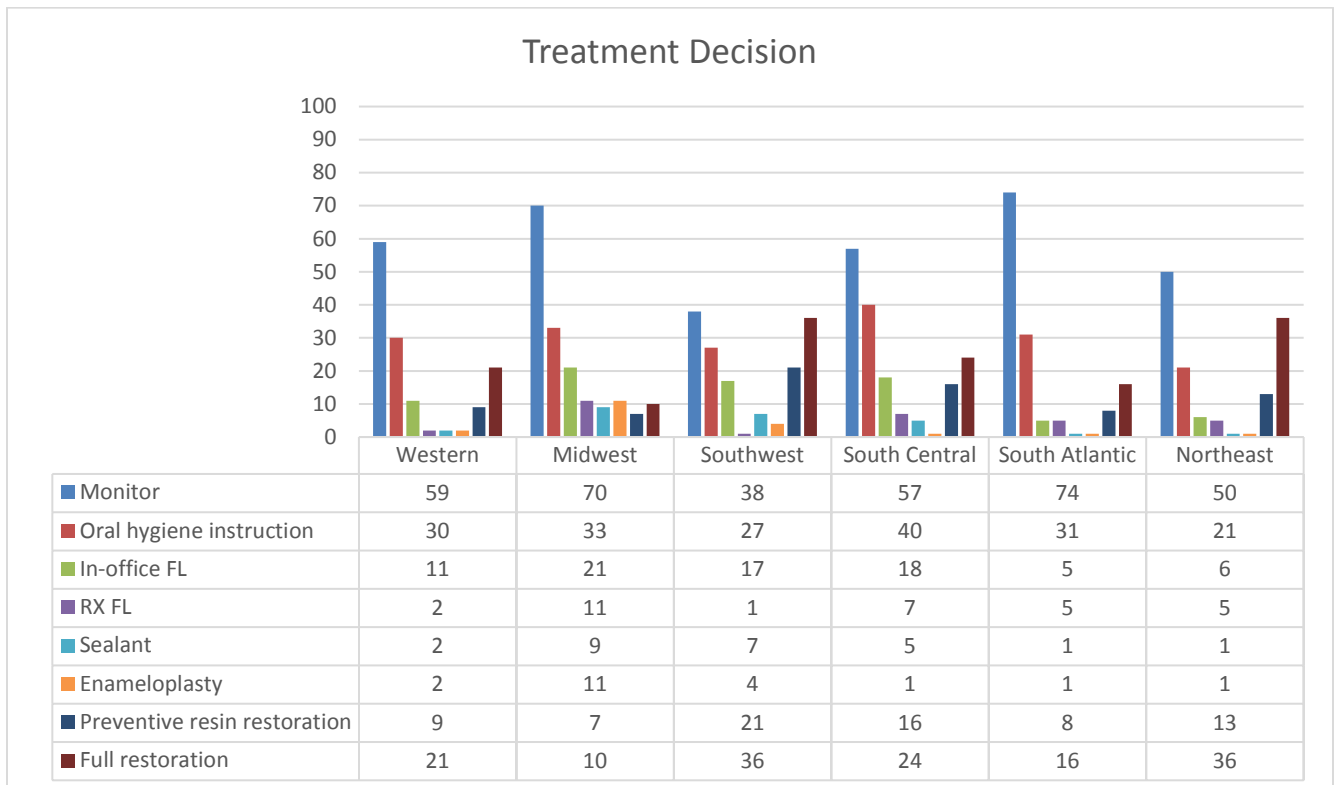
10. How would you classify the patient's caries risk level? (*Check a single answer*)



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*)



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



13. When you treated the lesion, what did you find? (Check a single answer)

