

Isolation Techniques Questionnaire

SECTION 1: PRACTICE CHARACTERISTICS

This section asks if any changes have occurred to your dental practice since you answered the National Dental PBRN Enrollment Questionnaire.

1. When you completed the National Dental PBRN Enrollment Questionnaire you had indicated you were a general dentist. Are you still a general dentist?
 - a. Yes [SKIP TO Q3] Variable Name: Q1
 - b. No Values: 1 = a, 2 = b

2. Which **one** of the following best describes your current dental practice?
 - a. Endodontist [SKIP TO END OF SURVEY] Variable Name: Q2, Q2_Other
 - b. Pediatric Dentist [SKIP TO END OF SURVEY] Q2_Other: Up to 150 characters
 - c. Periodontist [SKIP TO END OF SURVEY] Values: 1 = a, 2 = b, 3 = c, 4 = d, 5 = e, 6 = f, 7 = g
 - d. Prosthodontist [SKIP TO END OF SURVEY]
 - e. Oral/Maxillofacial Surgeon [SKIP TO END OF SURVEY]
 - f. Orthodontist [SKIP TO END OF SURVEY]
 - g. Other, please specify: _____ [SKIP TO END OF SURVEY]

3. Since you answered the National Dental PBRN Enrollment Questionnaire, have you changed your type of practice (that is: Owner of a private practice; Associate or employee of a private practice; HealthPartners Dental Group; Permanente Dental Associates; Other managed care or preferred provider organization; Public health practice; Federal government facility; Dental school or academic dental institution)?
 - a. Yes Variable Name: Q3
 - b. No [SKIP TO Q5] Values: 1 = a, 2 = b

4. Which **one** of the following best characterizes the type of practice in which you currently work?
 - a. Owner of a private practice Variable Name: Q4
 - b. Associate or employee of a private practice Values: 1 = a, 2 = b, 3 = c, 4 = d, 5 = e, 6 = f, 7 = g, 8 = h
 - c. HealthPartners Dental Group
 - d. Permanente Dental Associates
 - e. Other managed care or preferred provider organization
 - f. Public health practice, community health center, or publicly-funded clinic (but not a federal facility)
 - g. Federal government facility (e.g., VA, Department of Defense, Public Health Service)
 - h. Dental school, academic dental institution, or facility staffed by the dental school

SECTION 2: GENERAL ROOT CANAL PRACTICES

This section asks questions about your general root canal practices. By “root canals”, we mean the number of teeth treated with root canal fillings, rather than the number of canals treated.

5. Do you personally perform **one or more** root canals per month?
- Yes Variable Name: Q5
 - No [SKIP TO END OF SURVEY] Values: 1 = a, 2 = b
6. Which of the following do you use for endodontic instrumentation? Please select all that apply.
- Standard nickel-titanium (NiTi) hand K files Variable Name: Q6A, Q6B, Q6C, Q6D, Q6E, Q6E_Other
 - Engine-driven nickel-titanium (NiTi) Values: 1 if response selected, blank/missing if not selected
 - Stainless steel hand K files Q6E_Other: Up to 150 characters
 - Rotary endodontic instruments
 - Some other endodontic instrumentation, please describe:

7. Which of the following do you use for canal irrigation? Please select all that apply.
- Normal saline
 - Sodium hypochlorite Variable Name: Q7A, Q7B, Q7C, Q7D, Q7E, Q7F, Q7F_Other
 - Local anesthetic solution Values: 1 if response selected, blank/missing if not selected
 - Hydrogen peroxide
 - Chlorhexidine Q7F_Other: Up to 150 characters
 - Some other canal irrigation, please describe: _____
8. Which of the following sealers do you use during root canals? Please select all that apply.
- Zinc oxide-eugenol (ZOE)
 - Epoxy resin based Variable Name: Q8A, Q8B, Q8C, Q8D, Q8E
 - Calcium hydroxide Values: 1 if response selected, blank/missing if not selected
 - Glass ionomer Q8E_Other: Up to 150 characters
 - Some other sealer, please describe: _____
9. Which of the following obturation techniques do you use? Please select all that apply.
- Lateral condensation or vertical compaction
 - Continuous wave technique (vertical compaction of core material and sealer in apical portion of root canal using commercially-available heating devices and then back-filling the remaining portion of the root canal with thermoplasticized core material using injection devices)
 - Thermoplasticized injection technique (e.g., injection of material at a high temperature))
 - Carrier-based techniques (gutta percha is coated on a carrier before heating and/or delivery to the canal)
 - Thermomechanical compaction technique using rotary instruments
 - Use of paste fillers Variable Name: Q9A, Q9B, Q9C, Q9D, Q9E, Q9F, Q9G, Q9G_Other
 - Some other obturation technique, please describe: _____ Values: 1 if response selected, blank/missing if not selected
Q9G_Other: Up to 150 characters
10. Which of the following canal fill materials do you use? Please select all that apply.

- a. Gutta percha
 b. Resin root filling materials (Resilon®)
 c. Resin-coated gutta percha cones
 d. Endodontic paste fillers
 e. Apical barrier material (e.g., mineral trioxide aggregate)
 f. Some other canal fill material, please describe: _____
- Variable Name: Q10A, Q10B, Q10C, Q10D, Q10E, Q10F, Q10F_Other
 Values: 1 if response selected, blank/missing if not selected
 Q10F_Other: Up to 150 characters

SECTION 3: ANTERIOR TOOTH ROOT CANAL TREATMENT

This section concerns root canal treatment that you perform on anterior teeth.

11. In an average month, how many anterior tooth root canals do **you** personally perform? If you do not perform anterior tooth root canals, please enter '0'.
- a. [Enter number]

Variable Name: Q11
 Range: 0 to 99

[IF '0', SKIP TO Q13]

12. When **you** personally perform anterior tooth root canals, what percentage of the time do you use the following isolation techniques?

- a. Rubber dam: _____%
 b. Cotton roll or gauze: _____%
 c. Isolite™: _____%
 d. Some other type of isolation technique: _____% Please specify: _____
 e. Some other type of isolation technique: _____% Please specify: _____
 f. No isolation technique is used: _____%

Variable Name: Q12A, Q12B, Q12C, Q12D, Q12D_Other, Q12E, Q12E_Other, Q12F
 Range: 0 to 99
 Q12D_Other, Q12E_Other: Up to 150 characters

13. In an average month, how many anterior tooth root canals do you **refer** to a different dentist or endodontist? If you do not refer any anterior tooth root canals, please enter '0'.

- a. [Enter number]

Variable Name: Q13
 Range: 0 to 99

SECTION 4: PREMOLAR TOOTH ROOT CANAL TREATMENT

This section concerns root canal treatment that you perform on premolar teeth.

14. In an average month, how many premolar tooth root canals do **you** personally perform? If you do not perform premolar tooth root canals, please enter '0'.

- a. [Enter number]

Variable Name: Q14
 Range: 0 to 99

[IF '0', SKIP TO Q16]

15. When **you** personally perform premolar tooth root canals, what percentage of the time do you use the following isolation techniques?

- a. Rubber dam: _____%
 b. Cotton roll or gauze: _____%
 c. Isolite™: _____%
 d. Some other type of isolation technique: _____% Please specify: _____

Variable Name: Q15A, Q15B, Q15C, Q15D, Q15D_Other, Q15E, Q15E_Other, Q15F
 Range: 0 to 99
 Q15D_Other, Q15E_Other: Up to 150 characters

- e. Some other type of isolation technique: _____% Please specify:

- f. No isolation technique is used: _____%

16. In an average month, how many premolar tooth root canals do you **refer** to a different dentist or endodontist? If you do not refer any premolar tooth root canals, please enter '0'.
- a. [Enter number] Variable Name: Q16
Range: 0 to 99

SECTION 5: MOLAR TOOTH ROOT CANAL TREATMENT

This section concerns root canal treatment that you perform on molar teeth.

17. In an average month, how many molar tooth root canals do **you** personally perform? If you do not perform molar tooth root canals, please enter '0'.
- a. [Enter number] Variable Name: Q17
Range: 0 to 99

[IF '0', SKIP TO Q19]

18. When **you** personally perform molar tooth root canals, what percentage of the time do you use the following isolation techniques?
- a. Rubber dam: _____% Variable Name: Q18A, Q18B, Q18C, Q18D, Q18D_Other, Q18E, Q18E_Other, Q18F
- b. Cotton roll or gauze: _____% Range: 0 to 99
- c. Isolite™: _____% Q18D_Other, Q18E_Other: Up to 150 characters
- d. Some other type of isolation technique: _____% Please specify:

- e. Some other type of isolation technique: _____% Please specify:

- f. No isolation technique is used: _____%
19. In an average month, how many molar tooth root canals do you **refer** to a different dentist or endodontist? If you do not refer any molar tooth root canals, please enter '0'.
- a. [Enter number] Variable Name: Q19
Range: 0 to 99

SECTION 6: ROOT CANAL TREATMENT ON TEETH WITH GINGIVAL/SUBGINGIVAL CARIES

This section concerns root canal treatment that you perform on teeth with gingival/subgingival caries.

20. In an average month, how many root canals do **you** personally perform on teeth with gingival/subgingival caries? If you do not perform root canals on these teeth, please enter '0'.
- a. [Enter number] Variable Name: Q20
Range: 0 to 99

[IF '0' SKIP TO Q22]

21. When **you** personally perform root canals on teeth with gingival/subgingival caries, what percentage of the time do you use the following isolation techniques?
- a. Rubber dam: _____%

- Variable Name: Q21A, Q21B, Q21C, Q21D, Q21D_Other, Q21E, Q21E_Other, Q21F
Range: 0 to 99
Q21D_Other, Q21E_Other: Up to 150 characters
- b. Cotton roll or gauze: _____%
- c. Isolite™ : _____%
- d. Some other type of isolation technique: _____% Please specify:

- e. Some other type of isolation technique: _____% Please specify:

- f. No isolation technique is used: _____%
22. In an average month, how many root canals on teeth with gingival/subgingival caries do you refer to a different dentist or endodontist? If you do not refer any of these root canals, please enter '0'.
Variable Name: Q22
a. [Enter number] Range: 0 to 99

SECTION 7: ATTITUDES TOWARD ROOT CANAL PRACTICES AND TREATMENT

Please indicate the extent to which you disagree or agree with the following statements. There are no right or wrong answers to these questions; we are simply interested in your thoughts about the statements below.

23. I received sufficient knowledge and training in dental school on how to effectively place a rubber dam prior to performing a root canal.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q23 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

24. Cotton rolls or gauze are just as effective as the rubber dam when root canals are done on **anterior** teeth.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q24 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

25. Cotton rolls or gauze are just as effective as the rubber dam when root canals are done on **premolar** teeth.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q25 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

26. Cotton rolls or gauze are just as effective as the rubber dam when root canals are done on **molar** teeth.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q26 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

27. Isolite™ is just as effective as the rubber dam when root canals are done on **anterior** teeth.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q27 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

28. Isolite™ is just as effective as the rubber dam when root canals are done on **premolar** teeth.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q28 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

29. Isolite™ is just as effective as the rubber dam when root canals are done on **molar** teeth.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q29 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

30. Using a rubber dam during root canals reduces the likelihood of infection for patients.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q30 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

31. Using a rubber dam during root canals decreases the likelihood of infection for practitioners and office staff.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q31 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

32. Using a rubber dam when performing root canals reduces the potential for swallowed or aspirated dental items.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q32 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

33. Using rubber dams when performing root canals improves treatment effectiveness.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q33 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

34. Rubber dams control moisture very well during root canals.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q34 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

35. It's very important to use a rubber dam every time a root canal is performed.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q35 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

36. Rubber dams tear frequently.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q36 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

37. Rubber dams make it easier to perform root canals.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q37 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

38. Most dentists I know use rubber dams when performing root canals.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q38 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

39. Placing a rubber dam before performing a root canal is time-consuming.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q39 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

40. Clamp placement requires the use of additional anesthesia around the gumline when rubber dams are used to perform root canals.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q40 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

41. Using rubber dams to perform root canals is inconvenient.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q41 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

42. Patients are uncomfortable wearing a rubber dam during root canals.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q42 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

43. Maintaining an adequate supply of rubber dams in one's practice is difficult.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
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Variable Name: Q43 Values: 1 = Strongly Disagree, 2 = Disagree, 3 = Neither Agree nor Disagree, 4 = Agree, 5 = Strongly Agree

SECTION 8: SPECIFIC QUESTIONS ABOUT ROOT CANAL PRACTICES

The following questions ask about engaging in a variety of particular tasks or behaviors.

How hard or easy is it for you to

44.place a rubber dam to perform a root canal?

Very Hard	Hard	Neither Hard nor Easy	Easy	Very Easy
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Variable Name: Q44 Values: 1 = Very Hard, 2 = Hard, 3 = Neither Hard nor Easy, 4 = Easy, 5 = Very Easy

45.place a rubber dam on an **anterior** tooth to perform a root canal?

Very Hard	Hard	Neither Hard nor Easy	Easy	Very Easy
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Variable Name: Q45 Values: 1 = Very Hard, 2 = Hard, 3 = Neither Hard nor Easy, 4 = Easy, 5 = Very Easy

46.place a rubber dam on a **premolar** tooth to perform a root canal?

Very Hard	Hard	Neither Hard nor Easy	Easy	Very Easy
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Variable Name: Q46 Values: 1 = Very Hard, 2 = Hard, 3 = Neither Hard nor Easy, 4 = Easy, 5 = Very Easy

47.place a rubber dam on a **molar** tooth to perform a root canal?

Very Hard	Hard	Neither Hard nor Easy	Easy	Very Easy
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Variable Name: Q47 Values: 1 = Very Hard, 2 = Hard, 3 = Neither Hard nor Easy, 4 = Easy, 5 = Very Easy

48.fit a clamp that is too big, too small, or of awkward size for the tooth?

Very Hard	Hard	Neither Hard nor Easy	Easy	Very Easy
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Variable Name: Q48 Values: 1 = Very Hard, 2 = Hard, 3 = Neither Hard nor Easy, 4 = Easy, 5 = Very Easy

49.place a rubber dam when you have limited access and visibility of the isolated operating area?

Very Hard	Hard	Neither Hard nor Easy	Easy	Very Easy
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Variable Name: Q49 Values: 1 = Very Hard, 2 = Hard, 3 = Neither Hard nor Easy, 4 = Easy, 5 = Very Easy

50.place a rubber dam when the patient doesn't have the ability to open his/her mouth very wide?

Very Hard	Hard	Neither Hard nor Easy	Easy	Very Easy
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Variable Name: Q50 Values: 1 = Very Hard, 2 = Hard, 3 = Neither Hard nor Easy, 4 = Easy, 5 = Very Easy

51.explain to a patient the importance of using a rubber dam to perform a root canal?

Very Hard	Hard	Neither Hard nor Easy	Easy	Very Easy
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Variable Name: Q51 Values: 1 = Very Hard, 2 = Hard, 3 = Neither Hard nor Easy, 4 = Easy, 5 = Very Easy

52.communicate with the patient (as needed) during a root canal when a rubber dam is being used?

Very Hard	Hard	Neither Hard nor Easy	Easy	Very Easy
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Variable Name: Q52 Values: 1 = Very Hard, 2 = Hard, 3 = Neither Hard nor Easy, 4 = Easy, 5 = Very Easy

53.use a rubber dam to perform a root canal with a patient who is claustrophobic, talkative, a gagger, and/or has a breathing problem (e.g., COPD)?

Very Hard	Hard	Neither Hard nor Easy	Easy	Very Easy
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Variable Name: Q53 Values: 1 = Very Hard, 2 = Hard, 3 = Neither Hard nor Easy, 4 = Easy, 5 = Very Easy

54.get assistance from auxiliary staff to place a rubber dam when needed?

Very Hard	Hard	Neither Hard nor Easy	Easy	Very Easy
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Variable Name: Q54 Values: 1 = Very Hard, 2 = Hard, 3 = Neither Hard nor Easy, 4 = Easy, 5 = Very Easy

55.use a rubber dam to perform a root canal when you have competing demands in your clinic (e.g., other patients are waiting for you to check them after a cleaning)?

Very Hard	Hard	Neither Hard nor Easy	Easy	Very Easy
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Variable Name: Q55 Values: 1 = Very Hard, 2 = Hard, 3 = Neither Hard nor Easy, 4 = Easy, 5 = Very Easy

SECTION 9: ADDITIONAL COMMENTS

56. Is there anything else you think we should know about how you use isolation methods during root canal treatment?

Variable Name: Q56: Up to 4000 characters

[OPEN FIELDS FOR TEXT ENTRY BY THE RESPONDENT HERE]

SECTION 10: PAYMENT OPTIONS

57. Would you like us to send you or your practice organization \$50.00 as a thank you for completing this survey?

[] Yes, please send compensation

Variable Name: Q57

[] No [SKIP TO END OF SURVEY]

Values: 1 = Yes, 2 = No

Thank you for completing this questionnaire.