

2-1 Dentist Baseline Questionnaire

Instruction: Please answer the following questions regarding your thoughts on the **Standard Hygiene Exam Model** where you (dentist) will conduct an in-person examination for your patient in the hygiene room.

1. As of today, what personal protective equipment (PPE) do you change when switching from seeing your chair side patient to a hygiene recall exam patient? (Choose all that apply)
 - A. Gloves
 - B. Surgical mask
 - C. N95 mask
 - D. Gown
 - E. Face shield or googles
 - F. Bonnet

2. Have you charged PPE fees for hygiene recall exam patients since the COVID-19 pandemic started?
 - A. No, I do not charge PPE fees for hygiene recall patients
 - B. 1-25% of hygiene recall patients
 - C. 26-50% of hygiene recall patients
 - D. 51-75% of hygiene recall patients
 - E. 76-100% of hygiene recall patients

3. How much time do you usually spend on conducting a hygiene recall exam during a hygiene visit?
 - A. 1- 4 minutes
 - B. 5-10 minutes
 - C. More than 10 minutes
 - D. I don't conduct hygiene check during the hygiene visit

4. During the past 30 days, how much additional time do you spend on changing PPEs when conducting a hygiene recall exam? The time includes switching from your chairside patient to the hygiene recall patient and switching back to your chairside patient.
 - A. 1-4 minutes
 - B. 5-10 minutes
 - C. More than 10 minutes
 - D. I don't conduct hygiene recall exam during the hygiene visit

5. During the past 30 days, how often do you feel you have enough time to conduct hygiene recall exams?
 - A. Always
 - B. Often
 - C. Sometimes
 - D. Rarely
 - E. Never

6. During a hygiene recall exam visit, how well do your patients understand what you explain about their oral health and/or the treatment you recommend?
 - A. Very well
 - B. Somewhat well
 - C. Fair
 - D. Poor
 - E. Very poor

7. How many of your patients do you think follow through with the advice and treatment plan you recommend during the hygiene recall exam visits?
 - A. < 25%
 - B. 26-50%
 - C. 51-75%
 - D. >75%
 - E. I don't know

Electronic Device and Digital Image Use

8. Do you use a smartphone?
 - A. Yes (Continue with Question 9)
 - B. No (Skip to Question 11)

9. Do you use medical care apps on your phone (e.g. MyChart, eClinicalWorks, SimplePractice)?
 - A. Yes
 - B. No
 - C. I am not sure what apps you are referring to

10. Do you use dental care apps on your phone?
 - A. Yes (Please specify _____)
 - B. No
 - C. I don't know of any dental care apps

11. Does your office take intraoral photos for patients?
 - A. Always
 - B. Very often
 - C. Sometimes
 - D. Rarely
 - E. Never

12. Do you use oral or teeth images to facilitate patient education and/or treatment planning?
 - A. Always
 - B. Very often
 - C. Sometimes
 - D. Rarely
 - E. Never

Thank you for your responses. Please click the Submit button below to save your answers.

2-2 Dentist Post-eHygiene System Usability Scale (SUS)

Instruction: For each of the following statements, mark one box that best describes your reactions to the eHygiene exam model. **In the eHygiene model**, the hygienist in your office will take a set of teeth photos for your patient during the regular hygiene visit. It might take 5-8 minutes. The dental office will then schedule a virtual visit between you (dentist) and your patient to review exam findings using these teeth photos. You (dentist) will also review treatment plan with your patient at the virtual visit. Depends on the complexity of your patient’s oral health. The virtual visit might take 10-30 minutes.

No	Question description	Strongly disagree				Strongly agree	Score
1	I think that I would like to use the eHygiene exam model frequently.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	I found the eHygiene exam model unnecessarily complex.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	I thought the eHygiene exam model was easy to use.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	I think that I would need the support of a technical person (other than the hygienist) to be able to use the eHygiene exam model.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	I found the various steps in the eHygiene exam model were well integrated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	I thought there was too much inconsistency in the eHygiene exam model.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	I would imagine that most people would learn to use the eHygiene exam model very quickly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	I found the eHygiene exam model very awkward to use.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	I felt very confident using eHygiene exam model.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	I needed to learn a lot of things before I could start with the eHygiene exam model.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Score: _____

2-3 Dentist Post-eHygiene Questionnaire

Instruction: Please answer the following questions regarding your thoughts on the **eHygiene Exam Model**.

- A. Was the eHygiene virtual visit completed with the patient?
 - A. Yes (If Yes, skip question B and continue to question 1)
 - B. No (If No, answer question B and skip the rest of the form)

 - B. Why was the eHygiene visit not completed with the patient?
 - A. Patient did not attend visit
 - B. Dentist did not attend visit
 - C. Technical problems prevented visit from occurring
 - D. Other reason
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- 1. How much time did you spend initiating the eHygiene virtual visit? Initiation includes logging into the software interface and starting video call with your patient. Please provide your answer in estimated number of minutes: ____ ____

- 2. How much time did you spend actually conducting the eHygiene virtual visit? Please provide your answer in estimated number of minutes: ____ ____

- 3. When did you conduct the eHygiene virtual visit? (Choose all that apply)
 - A. During the day between treating patients
 - B. Lunch break
 - C. Evening when I finished daily work
 - D. Other (Please specify _____)

- 4. Do you feel conducting the eHygiene exams will add to your working time, in comparison to the standard hygiene recall exams?
 - A. Strongly agree
 - B. Agree
 - C. Neither agree or disagree
 - D. Disagree
 - E. Strongly disagree

- 5. Which types of patients do you think should be considered for the eHygiene virtual visits? (Choose all that apply)
 - A. None
 - B. Patients with good oral health who had no restorative/periodontal treatment in the past 1+ year
 - C. Patients with poor oral health who had ongoing untreated caries or periodontal disease.
 - D. Patients with non-urgent oral diseases (e.g. caries, periodontal pocket deeper than 4mm, etc.) identified by hygienists during cleaning.
 - E. Patients with urgent oral needs, e.g. pain, orofacial swelling, etc.

- F. Patients with oral mucosal lesions identified by hygienists during cleaning.
- G. All patients

6. How well do you think your patient understood what you explained about their oral health and/or the treatment you recommended during the eHygiene visit?
 - A. Very well
 - B. Fairly well
 - C. Fair
 - D. Poor
 - E. Very poor
7. How confident are you that your patient will follow through with the advice and treatment plan you recommended during the eHygiene visit?
 - A. Completely confident
 - B. Confident
 - C. Somewhat confident
 - D. Slightly confident
 - E. Not confident at all
8. Do you have any suggestions to improve the eHygiene exam model?
 - A. Yes (Please explain in detail _____)
 - B. No

Thank you for your responses.

2-4 Dentist Qualitative Interview Guide (Semi-structured)

Notes:

- This is a semi-structured interview guide designed to be conducted with dentists in a 30-min phone-interview setting.
- This interview includes questions to assess users' perceptions of the eHygiene exam model.
- The phone interview will be conducted by a research assistant trained by Dr. Kevin Fiscella, MD, MPH (Co-Investigator), who has expertise in mhealth and qualitative research.

Date: ____/____/____ (mm/dd/yyyy)

Interviewer: _____

Practitioner ID number: _____

Study participant role: Dentist Hygienist Patient

Introduction (script)

“Hello, my name is _____. I am with the eHygiene study group and I would like to talk with you about your experience of using the eHygiene virtual exam.”

“Thank you for agreeing to speak with me! This interview will take approximately 30 minutes.”

“What we talk about in this interview will be confidential and used for study purposes only.”

“Your participation is completely voluntary. If you do not wish to answer any question you do not have to do so. You are free to end the conversation at any time”

“Before I turn on the tape recorder do you have any questions?”

“Now I am going to turn on the tape recorder, is that ok?”

“The questions I am about to ask you are related to the eHygiene exam model. The eHygiene exam model refers to the study you participated in, in which the hygienist in the dental office takes a set of teeth photos for patients during the regular hygiene visit. The dentist then conducts a virtual visit with the patient to review exam findings using these teeth photos and discuss the treatment plan.”

Dentist portion

Perception

1. Can you talk about your overall experience of using the eHygiene virtual exam?
2. Please tell us any challenges or frustrations you encountered while using the eHygiene virtual exam.

Prompts – What kind of challenges / frustrations

Did you resolve it?

How did you resolve it?

Are there other challenges? Any more (until no more challenges)

3. What do you think are the benefits of the eHygiene virtual exam?

Prompts – Benefits to dental practice?

Benefits to patients?

Any other benefits (until no more)?

4. What do you feel are the drawbacks of the eHygiene virtual exam?

Prompts – Patient communication

Workflow

Technical problem

Anything else (until no more)?

5. What do you see as the role of the eHygiene virtual exam in your practice, if any?

Prompts – If yes, or no, could you please tell me why?

Service strengthening

1. What would you suggest to improve the eHygiene virtual exams?
2. What support do you need to feel comfortable using the eHygiene virtual exams?
3. Are there any system changes that you think might be needed to improve use of the eHygiene virtual exam model?

Prompts – Insurance reimbursement

Use mass media or social media

Smart phone application use

1. What is your view on using smart phone applications to deliver oral health education to patients?
2. What suggestion do you have for using smart phones to manage patient oral health?

Conclusion

“What other things you would like us to know about your experience or thoughts about eHygiene virtual exams?”

“Thank you!”