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foundation for nutritional counselling to nd a place within the dental Results hygiene practice of care. Also; developing an approach to nutritional counselling which encourages patient compliance can help eliminate. A er the study time frame; the pre-test and post-test results were barriers both of the patient and the clinician. Motivational interviewing gathered and compared. Twenty-two students (n=22) completed both (MI) can encourage positive change for patients in a friendly and re-test and post-test and age; gender; and education levels were similar unobtrusive manner. Motivational interviewing is versatile and can be that of other dental hygiene programs. Liker scale data from seven used in a wide range of health care settings; including tobacco cessation; weight management; and other healthy habit interventions [19-21]. e basis of MI is nding the patient's intrinsic motivation and attaching that to the healthy behavior [20]. ere are o en opposing feelings within the patient about change. Motivational interviewing is designed to help guide patients through this con ict and focus on perception and motivation [22]. e goal must be meaningful to the patient rather than the clinician; relying on "re ective listening and positive feedback for guiding the patient toward change" [20]. is can be challenging to the clinician to perform correctly; but can achieve greater patient success [23]. When dental hygienists nd ways to incorporate MI into their interactions with patients; improved conversations about challenging subjects can happen successfully. Simply knowing how to question patients in a way to encourage positivity can impact patient

is pilot study examined if introducing an assessment and

increased their con dence in providing nutritional counselling to their patients. e assessment and counselling tool was developed to guide the student through an MI inspired nutritional counselling session.

Methodology

health choices.

A er approval from XXX University's Institutional Review Board (HS-5836); 39 senior dental hygiene students were invited to participate in the pre-test, post-test study. e study utilized a quasi-experimental; one-group design to gather qualitative and quantitative data to evaluate change in con dence with nutritional counselling a er an educational module and use of an assessment and counselling tool. Students willing to participate completed a pre-test to measure current con dence level and experience with nutrition and MI. A er a mandatory educational module about nutrition and MI with an introduction to the assessment and counselling tool; the students were asked to practice these skills with their patients for the next three weeks. A er the study timeframe; the students were asked to complete a post-test to evaluate if their level of con dence changed.

e assessment and counselling tool was designed to be interactive between the clinician and patient. e study focused on patients with increased caries risk; are diabetic; and/or have undergone periodontal treatment; but could be used with anyone bene ting from improved nutrition. e patient was asked a series of questions using a script in the spirit of MI; shedding light on some of the risks involved with their nutritional choices and encouraging reasonable goals to set. Focusing on simple nutrition changes such as drinking more water; decreasing processed foods and sugar; or increasing fruits and vegetables were valuable initial goals made collaboratively with the patient. Healthy Eating Plate created by nutrition experts at Harvard's T.H. Chan School of Public Health was the nutritional guide used in the assessment and counselling tool due to its quality components such as choosing whole grains over re ned grains; quality proteins other than processed meat; including a variety of fruits and vegetables (not including potatoes or fruit juices); encouraging healthy fats and oils; and opting for water and limiting dairy and milk servings [24].

open with and focused on the patients' desires. One student (n=n)odule presented to the students was only one hour in duration. mentioned patients seemed more comfortable with this approachesearch indicates MI is a skill that takes a signi cant amount of Students also explained the barriers they experienced when attemptime to master [19.26]. Despite the role play during the educational nutritional counselling with their patients. e main barrier involved module and the experiences with patients during the study time a lack of patient interest. Only two students (n=2) stated a lack of patient interest. Only two students (n=2) stated a lack of patient interest. Only two students (n=2) stated a lack of patient interest. time while nine (n=9) described the reluctance of patients to discussirthermore; using MI as a mode to deliver nutritional counselling nutrition. Finally, when asked speci cally about the assessment anothen be more excive in creating lasting changes for the patient that counselling tool students reported the ease and e ectiveness of the towill improve patient health more quickly [6,19,23,28]. Completing Of the 14 responses (n=14) for this question; 100% were positive amountaritional counselling with patients is certainly more rewarding half of those responses (n=7) mentioned the ease of the counsellimben improvements are seen. When positive results are observed tool. Table II provides examples of student responses to the opewith patients; clinicians are more likely to continue with nutritional ended questions in the post-test. counselling with other patients. is may not have been appreciated by the students in the short time frame of the study. Incorporating these concepts and approaches early in education provides more time

Discussion

Nutrition can be an important yet delicate subject to examine with patients. All but one student (n =21) agreed or strongly agreed in the pre-test with the statement "A dental hygienist should discuss nutrition with his/her patient" and that student strongly agreed in the post-test. Students demonstrated no statistical change regarding their feelings about nutrition's place in dental hygiene care. Research agrees with this and establishes that dental hygienists know nutrition is important for oral health [5,17,18]. However; when asked if the student currently discussed nutrition with his/her patients there was a statistically signi cant change (p=0.049) a er the educational module and practice with the assessment and counselling tool. ere was a positive change in current nutrition discussions from the students attending the module and utilizing the tool; showing more nutritional counselling sessions happening among students. e nutritional counselling exposure to the students during the educational module could have made students more sensitive to chair side opportunities to discuss nutrition with their patients. is demonstrates the need for more exposure not only for dental hygiene students but also practicing clinicians through continuing education opportunities who may need more nutrition education and experience.

When asked about comfort level and con dence in nutritional counselling; students demonstrated a signi cant increase in both (p=0.020 and p=0.007; respectively). When asked about a lack of nutritional training; fewer students felt inadequately educated a er the module (p=0.012). rough the educational module; introduction of the assessment and counselling tool; and practice using the tool with patients; students were able to increase their con dence with nutritional counselling. Some of their con dence may have resulted from being in the last semester of their dental hygiene education with some past nutritional counselling and MI experience as well as a greater overall con dence in patient care. Introducing nutritional counselling and MI skills early in curriculum could increase the opportunities to practice and gain more con dence. Introducing concepts; particularly around MI; even during prerequisite courses could positively in uence students' con dence with these challenging skills. Gaining this con dence early could be instrumental in these skills being maintained throughout one's career. Ultimately: this would mean greater patient care and improved health for individuals; societies; and beyond.

e nal two Liker scale questions included MI and neither showed statistical signi cance. is was not surprising as MI is a di cult skill to master and being comfortable and con dent with this skill is challenging; even for seasoned clinicians [19,26]. However; both questions had a p value of just over 0.10 which shows approaching statistical signi cance of p<0.05. is could signify that with greater emphasis on MI skills and practice; comfort and con dence could improve. e educational

with patients. Further; more education and exposure to practicing clinicians could enhance patient care outside of the educational setting and for those not exposed to these concepts while in school.

Barriers were the topic of the second open-ended question. Not surprising; insu cient time was a barrier to nutritional counselling. Based on similar research; this was a common barrier to nutritional counselling [5,14]. However; in this study; time was not as frequently mentioned as expected. is could be as students tend to have extra

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