

ASSESSING THE IMPACT OF AN INNOVATIVE E-CIGARETTE CESSATION PROGRAM (R.A.K.E.) ON DENTAL PRACTITIONER KNOWLEDGE

Presenter: Marissa Mexquitic^{1,4}, MS,, **Principal Investigator:** Rahma Mungia¹, BDS, MSc, DDPHRCs, Periodontics, Kathleen Case^{1,5}, MPH, Dr.PH, **Co-Authors:** Maria Atique², DDS, Betsy Jones³, MPA
1. University of Texas Health San Antonio 2. Atique Orthodontics 3. San Antonio Council on Alcohol and Drug Awareness 4. Institute for Integration of Medicine & Science
5. Center for Research to Advance Community Health (ReACH)

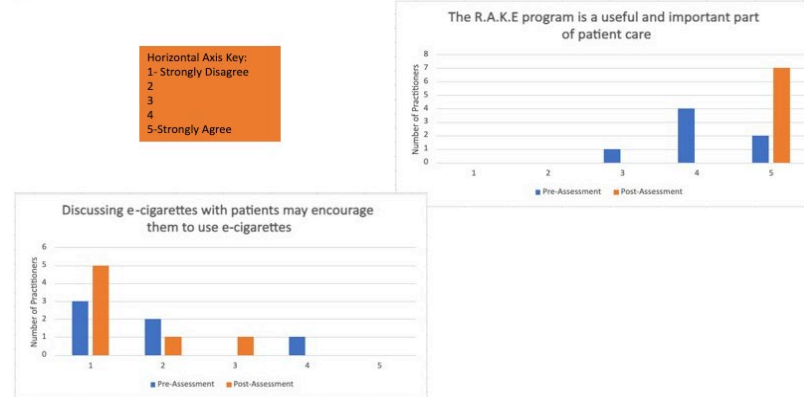
Background

- Low level of knowledge about oral effects of e-cigarette use amongst dental practitioners
- Dental practitioners are perfectly positioned to screen young patients for e-cigarette use and provide cessation counseling
- Mixed method style collaboration of community members and practitioners, led to the development of the e-cigarette cessation program: **ReACH** Assessment of Knowledge for E-cigarettes (R.A.K.E.)

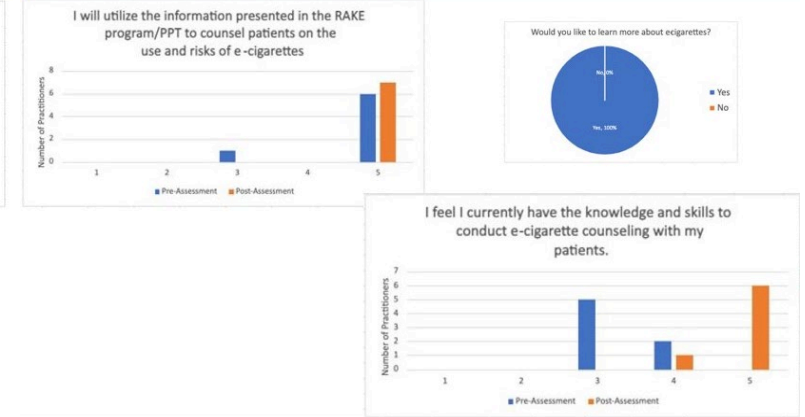


Objective: Piloting the impact of the online R.A.K.E. e-cigarette cessation program on the knowledge, awareness and usefulness for practitioners

Results



Results



Methods

- Dentists (n=6) and dental hygienists (n=1)
- 28 questions pre-assessment and 18 questions post-assessment) on REDCap platform
- Pre-assessment- Capture knowledge, attitudes, demographic characteristics and behaviors regarding e-cigarette use
- Intervention: web-based, self-paced training on the ReACH Assessment of Knowledge for E-cigarettes (R.A.K.E.) program
- Post-assessment- Also evaluated acceptance, satisfaction, and usability of R.A.K.E.

Discussion & Conclusion

- **R.A.K.E.**
 - Program provided evidence-based information to enhance practitioners' knowledge and confidence in providing e-cigarette cessation to their patients.
 - Provides online training to support e-cigarette cessation programs
- **Dental practitioners who are given current, valuable, evidence-based information and support feel more confident in providing e-cigarette cessation counseling**



Contact Information

Principal Investigator: Rahma Mungia
BDS, MSc, DDPHRCs
Associate Professor, Department of Periodontics
Director, South Texas Oral Health Network
Assistant Director/ Node Coordinator, Southwest Node, National Dental PBRN
University of Texas Health San Antonio
8403 Floyd Curl Drive, STRF MC 8258
Tel: (210) 562-5685; Fax: (210) 562-4193
Email: mungia@uthscsa.edu

References

1. Gentzke AS, Creamer M, Cullen KA, et al. Vital signs: tobacco product use among middle and high school students — United States, 2011–2018. *Morbid Mortal Wkly Rep.* 2019;68(6):157–164.
2. Texas Health and Human Services. Electronic Nicotine Delivery Systems (E-Cigarette) Report. Austin, TX: Texas Health and Human Services, Texas Department of State Health Services, 2019.
3. Soneji S, Barrington-Trimis JL, Wills TA, et al. Association between initial use of e-cigarettes and subsequent cigarette smoking among adolescents and young adults: a systematic review and meta-analysis. *JAMA Pediatr.* 2017;171(8):788–797.
4. Barrington-Trimis JL, Urman R, Berhane K, et al. E-cigarettes and future cigarette use. *Pediatrics.* 2016;138(1):e20160379.

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Objective: Piloting the impact of the online R.A.K.E. e-cigarette cessation program on the knowledge, awareness and usefulness for practitioners

Methods

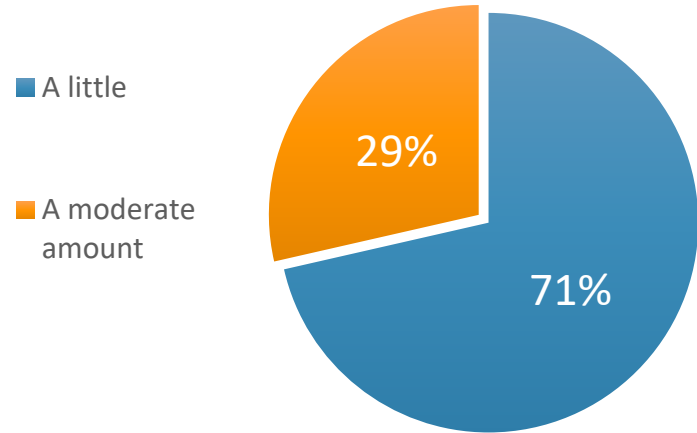
- Dentists (n=6) and dental hygienists (n=1)
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Table 1. Practitioner Demographics

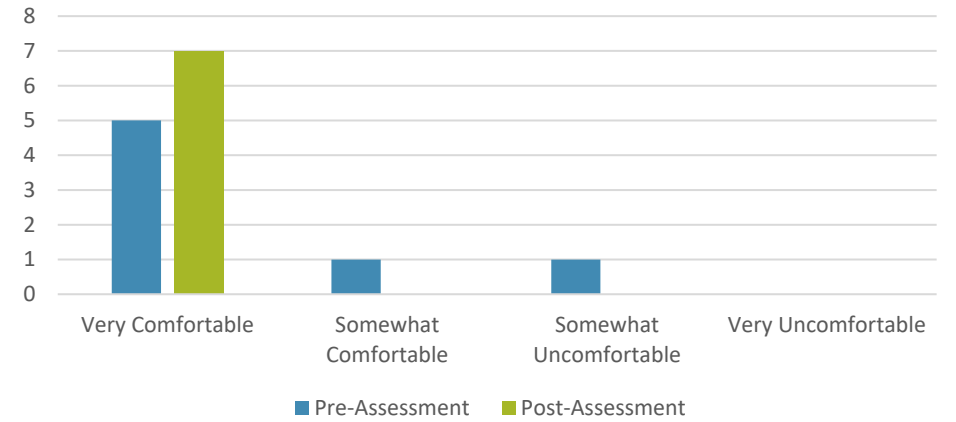
Sex	
Male	2 (28.6%)
Female	5 (71.4%)
Years of professional experience	
1-10 years	2 (28.6%)
11-20 years	3 (42.9%)
21-30 years	2 (28.6%)
Practice type	
Single private practice	6 (85.7%)
Group private practice	1 (14.3%)

Results

Pre-Assessment: How much knowledge do you feel you have about e-cigarettes?



Practitioner Comfort Level Discussing E-Cigarettes with Adolescent Patients



Results

Table 2. RAKE Evaluation	Pre-Assessment, n (%)	Post-Assessment, n (%)
The RAKE program/PPT is useful and important part of patient care.		
Strongly agree	2 (28.6%)	7 (100%)
Somewhat agree	4 (57.1%)	-
Neither agree nor disagree	1 (14.3%)	-
I will utilize the information presented in the RAKE program/PPT to counsel patients on the use and risks of e-cigarettes.		
Strongly agree	6 (85.7%)	7 (100%)
Neither agree nor disagree	1 (14.3%)	-
I feel I currently have the knowledge and skills to conduct e-cigarette counseling with my patients.		
Strongly agree	-	6 (85.7%)
Somewhat agree	2 (28.6%)	1 (14.3%)
Neither agree nor disagree	5 (71.4%)	-

Discussion & Conclusion

- R.A.K.E.
 - Program provided evidence-based information to enhance practitioners' knowledge and confidence in providing e-cigarette cessation to their patients.
 - Provides online training to support e-cigarette cessation programs
- Dental practitioners who are given current, valuable, evidence-based information and support **feel more confident in providing e-cigarette cessation counseling**



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BDS. MSc, DDPHRCS

Associate Professor, Department of Periodontics

Director, South Texas Oral Health Network

Assistant Director/ Node Coordinator, Southwest Node, National Dental PBRN

University of Texas Health San Antonio

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Tel: (210) 562-5685; Fax: (210) 562-4193

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