Implementation of a Tobacco and Cannabis Vaping Prevention Program in a School-Based Health Center

Fair Haven
Community Health Care

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Background

- The American Academy of Pediatrics (AAP) has issued a statement stressing the urgency of reducing tobacco and cannabis use in adolescents due to the serious health effects and high addiction potential¹.
- 7.8% (1.21 million) high school students report vaping within the last 30 days².
 3.5% (410,000) middle school students reported vaping within the last 30 days².
- 5.5% (410,000) initiatie scribol students reported vaping within the last 3
- More than 1 in 4 youth (26.3%) that use a vape device use it daily²
 Timely prevention and treatment services remains challenging¹.
- New programs and policies require a comprehensive, multi-pronged approach and need to be implemented at individual, school, and community levels³.
- AAP & The United States Preventative Services Task Force (USPSTF): clinicians should provide vaping screening and guidance starting by age 11y 3.4.
- School-based health centers (SBHCs) are poised to provide a multifaceted approach and meet current recommendations ^{5,6}.
- Framework: Pender's Health Promotion Model⁷ & Adolescent Health Literacy^{8,9}

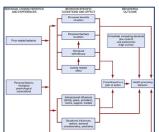


Figure 1. Pender's Health Promotion Model⁷

Figure 2. Adolescent Health Literacy Framework⁸



Purpose

- Increase students' knowledge of the dangers of vaping.
- Increase students' positive perceptions of a vape-free lifestyle.
- Increase referrals to the SBHC's addiction medicine services.
- Provide an evidence-based vaping prevention education program to students in 6-8th grade.
- Bring awareness to school staff of the national concerns for vaping, and the role of the SBHC in prevention and support services.

Method

- Setting- SBHC located in a middle school in an underserved city in CT.
- Participants- 6th, 7th and 8th grade students; 78% Hispanic/Latino; 12% AA/Black
- Repeated cross-sectional, pre-post study design.
- Program implementation: CATCH My Breath (CMB), an evidence-based vaping prevention program recommended by USPSTF^{3,10}.

Procedure SBMC NP CATOH My Seath betaining and coordination of program with PE territorial and consent statement and consent statem

Results

- Among 168 eligible individuals, 15 (9%) completed the program and 14 (8%) completed the pre- and post-surveys.
- Knowledge gained:
 - Results: Survey scores increased from pre- (M=6.07, SD=2.056) to post-program (M=8.50, SD=1.990, t(13) = 3.222, p = .007).
- Positive Perception of being vape-free:
 - Results: Survey scores increased from pre- (M=15.64,SD=3.054) to post-program (M=18.07, SD=3.054 t(13) = 3.465, p = .004).
- Confidence in remaining vape-free:
 - Results: Survey scores increased from pre- (M=6.79, SD=2.992) to post-program (M=9.43, SD=2.377, t(13) = 2.959, p = .011).
- Increase in SBHC referrals:
 - 2-months post program: 12 new students referred to the SBHC by the principal for vaping on school grounds.

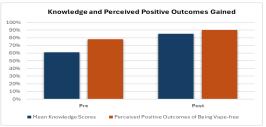


Figure 3. Mean knowledge and mean perceived positive outcomes as percentages



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Figure 4. Examples of a student's socia media post and warning labels created during CMB

Conclusion

- CMB delivered by the SBHC had a significant positive impact on students' vaping knowledge and on perceptions of remaining vape-free.
- Students gained confidence in applying that knowledge when saying "no" to a peer.
- Increased school staff awareness and referrals to the SBHC.
- Supports Pender's theory that perceived benefits of action, self-efficacy, and interpersonal influences lead to health promoting behavior.
- Supports the Adolescent Health Literacy Framework that an increase in health literacy among adolescents is correlated with lower e-cigarette use, lower susceptibility, and higher risk perception.
- Limitations: convenience sample, self-report surveys, longitudinal effects

Significance

- CMB is a useful program that SBHCs can implement to:
 - Reduce gaps in knowledge.
 - Promote a vape-free lifestyle.
 - Provide tools to navigate challenging peer situations.
- SBHCs play a key role in ensuring that our diverse, at-risk youth receive essential vaping prevention services, equitable healthcare access, and improved long-term health outcomes.

Acknowledgements

Thank you to my major advisor, Dr. McNeil, my associate advisor, Dr. Elwell, and my mentor, Dr. Oldfield, for all your support and guidance.

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References QR Code: