

Parent Perspectives on a Pharmacy-Based Infographic Intervention on Adolescent Vaping and E-Cigarette Use



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Background

- Adolescent vaping and electronic cigarettes (e-cigarettes) are a public health emergency
 - Declared by FDA commissioner in 2018¹
- E-cigarettes contain more nicotine than traditional cigarettes
 - Increases risk of addiction and other harm^{2,3}
- Significant increase in e-cigarette products since development^{4,5}
 - Thousands of products, billion-dollar market
- Pharmacists are extremely accessible healthcare providers
 - Potential to serve role in adolescent e-cigarette use

Objectives

To understand parents of adolescents' impressions of an infographic designed to educate families on health risks and consequences of adolescent vaping and use of e-cigarette products, and the perceived role of pharmacists

Recruiting and **Participants**

- Pharmacy-disseminated recruitment flyers and emails
- Parents of adolescents aged 12-18 years were recruited

Study Design

- Virtual semi-structured interviews with parents
- Designed to explore perceptions of the infographic and knowledge of e-cigarettes

Methods

Data Collection

Semi-structured interviews were conducted with parents to explore their perspectives on a pharmacist-provided vaping educational resource

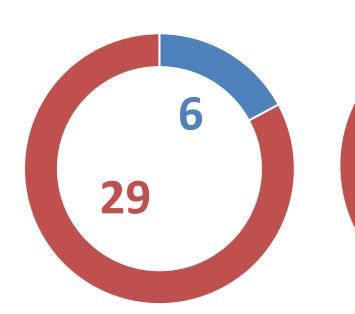
Data Analysis

- Independent thematic analysis by two team members on transcriptions
- Inductive coding methods and master codebook to minimize discrepancies (Kappa = 0.83)

Results **Participant Quotes**

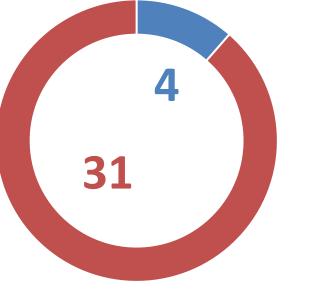
Gender Race and College Marital Educated Ethnicity Identity Status

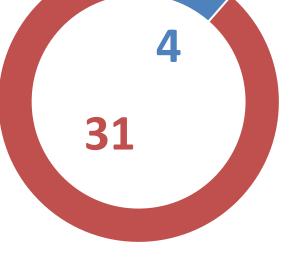
Participant Demographics (n)



■ Male 82.9%

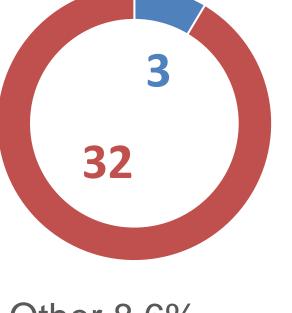
■ Female 17.1% ■ College 88.6%







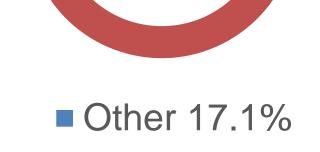




■ Caucasian 91.4%

Top Codes by File





■ Married 82.9%

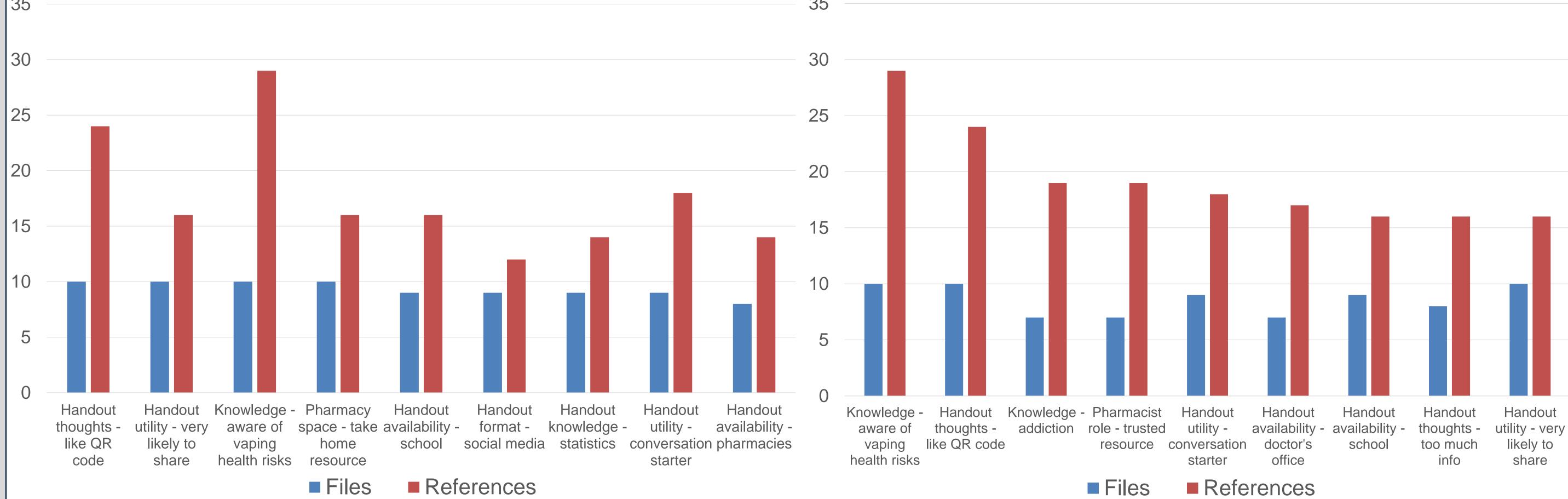
• "...pharmacists have kind of been, you know, a, a trusted source of, of health care more, you know, than before perceived, you know, that way, like with the vaccines and everything. So I think that might be a place people feel safe and comfortable getting information from. And, you know, I talk to pharmacists about, you know, side effects of medications and stuff like that, so it's, it kind of fits in along with that, the information..." - Parent 2 (12 y/o child)

• "I think just to have the knowledge and the information, I would definitely share it. Um, and whether my child was doing that or knew somebody that was doing it, it would be beneficial to, to share the information, so then maybe she can relay it to somebody else." - Parent 7 (14 y/o child)

Conclusion

- Infographic contained important information on adolescent vaping and e-cigarettes use
- Parents supported the dissemination by pharmacists
- Families could benefit from this infographic, facilitating informed decisions
- Pharmacists can provide further education and recommendations to address vaping concerns





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References

- Hamberger ES, Halpern-Felsher B. Vaping in adolescents: epidemiology and respiratory harm. Curr Opin Pediatr. 2020;32(3):378-383. doi:10.1097/MOP.0000000000000896
- 2. Dinardo P, Rome ES. Vaping: The new wave of nicotine addiction. Cleve Clin J Med. 2019;86(12):789-798. doi:10.3949/ccjm.86a.19118 3. Park JA, Crotty Alexander LE, Christiani DC. Vaping and Lung Inflammation and Injury. Annu Rev Physiol. 2022;84:611-629.
- doi:10.1146/annurev-physiol-061121-040014 4. Besaratinia A, Tommasi S. Vaping epidemic: challenges and opportunities. Cancer Causes Control. 2020;31(7):663-667.
- doi:10.1007/s10552-020-01307-y 5. E-cigarette products sold on the market quadruple in just one year. Truth Initiative. https://truthinitiative.org/research-resources/emerging-
- tobacco-products/e-cigarette-products-sold-market-quadruple-just-one