

Electronic Cigarette Use And Willingness To Use Approved Nicotine Replacement For Cessation

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Support

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Background

- Increased public interest
- Increased trial and use
- Concerns?
- Potential benefits?

Background

- Clinical counseling & messaging
- We examined cessation activity among current cigarette smokers and the use of electronic cigarettes.

Methods

- Administered Fall 2012
- Random Digit Dial Landline Frame
 - Survey Research Laboratory at the Social Science Research Center, Mississippi State University
- Probability-based Internet Panel
 - GfK: Panel members were recruited by probability-based sampling, and households were provided with access to the Internet and hardware if needed

Results

- RDD Landline
 - N= 1,507
 - Co-operation rate, 88%;
- Probability-based Internet Panel
 - N=1,594
 - Final completion rate, 63%
 - Length of time on the panel ranged from 21 days to 13 years, median time on panel was 1.5 years

Weighting

- Both sampling frames were weighted based upon 2011 U.S. Census estimates to be representative of the U.S. population
- Composite adjustments were then computed to combine the two sampling frames.
- A re-standardized weight was computed so that the weighted sample size matched the sum for effective sample size for both independent frames

Three Year Trend – Lifetime Prevalence of Electronic Cigarette Use

2010
n = 3,240
% (95% CI)

2011
n = 3,059
% (95% CI)

2012
N=3,101
% (95% CI)

1.8

7.3

10.6

(1.3-2.3)

(6.4-8.2)

(9.5-11.7)

Current Cigarette Smokers, N= 490

- 40.4% have tried an electronic cigarette
- 8.8% currently use electronic cigarettes
- 44.3% have made a quit attempt in the past year
- 60.4% would be willing to try NRT to quit cigarette smoking

Current Cigarette Smokers & Quit Attempts, N= 490

Has tried an electronic cigarette

- At least one quit attempt in the past year: 45.4%
- Has not: 36.4%, $p=.045$.
- Quit attempt in the past year (OR=1.8, 95% CI = 1.2 - 2.6)

Current Cigarette Smokers: Electronic Cigarettes & NRT, N= 490

Willing to use an FDA-approved nicotine

- Has tried the electronic cigarette: 70.1%
- Has not: 53.8%, $p < .001$.
- Use of the electronic cigarette (OR=1.9, 95%CI 1.3-2.9)

Discussion

- Cigarette smokers who want to quit appear to be more willing to try multiple approaches
- Electronic cigarette trial is an important predictor for receptivity to FDA-approved nicotine replacement medications.
- Clinicians may consider that patients who have used these products may also be willing to use nicotine replacement medications for cessation.

Limitations

- Self-report data
- Potential for noncoverage bias

Questions?

*Minh-Tri 1st Place
winner, FAMRI/
AAP/Richmond
Center Art Contest
2010*



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