



Support

- Flight Attendant Medical Research
 Institute through a grant to the American
 Academy of Pediatrics Julius B.
 Richmond Center of Excellence
- Legacy



Background: Trends in Electronic Cigarette Use

| | 2010 | 2011 | 2012 | 2013 |
|--|------------|------------|------------|------------|
| | n = 3,240 | n = 3,059 | N=3,101 | N=3,245 |
| | % (95% CI) | % (95% CI) | % (95% CI) | % (95% CI) |
| Ever Use | 1.8 | 7·3 | 10.6 | 13.0 |
| | (1.3-2.3) | (6.4-8.2) | (9.5-11.7) | (11.8-14.) |
| Current | 0.3 | 0.8 | 2.6 | 6.8 |
| Use | (0.1-0.5) | (0.5-1.1) | (2.0-3.2) | (5.9-7.7) |
| AMERICAN ACADEMY OF PEDIATRICS Julius B. Richmond Center of Excellence Nicotine & Tobacco Research (2014) doi: 10.1093/ntr/ntu213 | | | | |

Background: Electronic Cigarette Use, 2013

Nondaily Never Former Smokers **Daily Smokers Smokers** Smokers % (95% CI) % (95% CI) % (95% CI) % (95% CI) 3.5 13.5 47.0 54.2 **Ever Use** (2.7-4.3) (11.1-15.9) (38.5-55.5) (48.7-59.7)Current 1.4 5.4 34.1 30.3 Use (0.9-1.9)(3.8-7.0)(26.0-42.2) (25.2-35.4)

Nicotine & Tobacco Research (2014) doi: 10.1093/ntr/ntu213

- Background: Among all current electronic cigarette users
- 12.6% are never smokers
- 19.9% are former smokers
 - 5.8% are former smokers who quit before 2007
- Somewhere between 18.4% & 32.5% of current electronic cigarette users were not smoking combustible cigarettes when they initiated use

Nicotine & Tobacco Research (2014) doi: 10.1093/ntr/ntu213

Methods

- Administered Fall 2013
- 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

Julius B. Richmond
Center of Excellence

Results

- RDD Landline
 - N= 1,552
 - Co-operation rate, 91.9%
- Probability-based Internet Panel
 - N=1,693
 - Final completion rate, 63.5%
 - Length of time on the panel ranged from 44 days to 14 years, median time on panel was 2.2 years

AMERICAN ACADEMY OF PEDIATRICS
Julius B. Richmond

Results

- 85.7 of adults have never tried an ecigarette
 - Never smokers (n = 1,438)
 - Former Smokers (n = 618)

AMERICAN ACADEMY OF PEDIATRICS
Julius B. Richmond

Susceptible to E-Cigarettes

- Never smokers: 6.7%
- Former smokers: 13.9%
 - p<.05
- Never smokers
 - 18-24: 17.7%
 - 25-44: 6.5%
 - 45-64: 4.4%
 - 65+: 1.8%
 - p < .05

- Former smokers
 - 18-24: 47.4%
 - 25-44: 21.4%
 - 45-64: 11.1%
 - 65+: 5.8%
 - p <.05

AMERICAN ACADEMY OF PEDIATRICS
Julius B. Richmond
Center of Excellence

Susceptible to E-Cigarettes

- Have seen an e-cigarette ad: 17.4%
- Have not: 12.5%
 - p<.05
 - 18-24: 28.2% v. 16.2%, ns
 - 25-44: 20.3% v. 11.8%, p=.007
 - 45-64: 15.1% v. 14.5%, ns
 - 65+: 9.6% v 5.5%, ns

Julius B. Richmond
Center of Excellence

Discussion

- Over 20% of young adult never and former smokers who have never tried e-cigarettes are susceptible to using them in the future.
- The substantial number of vulnerable young adult nonsmokers illustrates the imperative for sales and marketing regulation to protect nonsmokers from being recruited to e-cigarette use and possible nicotine addiction.
- Until the risks of e-cigarettes are better defined, it is irresponsible to allow an unrestrained industry to encourage uptake of a potentially hazardous product.

Julius B. Richmond
Center of Excellence

Limitations

- Self-report, cross-sectional data
- Non-validated modification of Pierce's Susceptibility to Smoking variables

AMERICAN ACADEMY OF PEDIATRICS
Julius B. Richmond



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



