Call of Abstracts - "International conference on the E-Cigarette: patterns of use and health impacts"



Call of abstracts

"International conference on the E-Cigarette: patterns of use and health impacts" - Paris, on 5-6th December 2022

Submission form

Poster & oral presentation

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Background information

Type of submission

Oral or poster

Theme of conference

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Using ecological momentary assessment via text messaging to measure cigarette and e-cigarette use patterns

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Abstract details (poster & oral)

Background, method, results and conclusions

Background

Given the potential harms of dual use, it is important to reduce overlap when using e-cigarettes (ECs) as harm reduction among smokers. The process of how smokers switch to ECs, however, is not well understood. In a pilot study among current smokers with pulmonary disease, participants record daily cigarette use by responding to daily text message prompts. Through this study, we sought to evaluate the potential of ecological momentary assessment (EMA) via text messaging for measuring patterns

of switching behaviors among those transitioning from cigarettes to ECs.

Methods

Participants receive EMA text message prompts asking about cigarette and EC use throughout the day at approximately four-hour intervals for 12-weeks. Text messages are managed through a mass text messaging service. Participants were incentivized to respond to texts monetarily based on response rate. Data was validated against self-reported cigarettes per day (CPD) collected via survey. The data was analyzed for response rates as well as general trends in cigarette to EC switching patterns.

Results

Overall, response rates were high among study participants (n=28) with >95% response over 12-weeks. Of the participants with 0% response rate in week 12, many have response rates below 50% at or prior to week 8. On average the text-message reported CPD was approximately 34% lower than survey estimated use. Throughout the 12-weeks, it was observed that as EC use increased, there was a decrease in CPD. This effect is seen most strongly in the first 20 days and seems to continue for the length of the study with EC use surpassing cigarette use around day 40.

Conclusions

Text messaging is a feasible method for collecting CPD data and EMA may be more reliable than survey estimates due to recall bias. Further exploration is need to better understand patterns of EC supplementation and replacement of cigarettes as well as to understand contributing factors to individuals with lower response rates.

Main messages

EMA data collected via text message have the potential to reveal patterns of EC and cigarette use not observable with standard survey collection. Further EMA studies are needed to examine patterns of dual-use and switching.

Type of study / research

Longitudinal

Geography of the study

Outside Europe

Funding of study

Federal source

No

State source

No

Nonprofit Grant Funding Entity Source

No

Nonprofit Grant Funding Entity Source

No

Academic Institution Source

Yes

Pharmaceutical Industry Source

No

Tobacco/E-Cigarette Industry Source

No

Declaration of interest

The submitter declares that during the past 5 years have a direct nor indirect link (professional*, personal or financial**) with the tobacco and e-cigarette companies

No