

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

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Abstract title

Second-hand smoke exposure in households switching from cigarette to e-cigarette use

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Abstract details (poster & oral)

Background, method, results and conclusions

Background

The risks of secondhand cigarette smoke (SHS) exposure are well documented, resulting in a voluminous literature demonstrating a causal relationship with numerous negative health outcomes. The particle size distribution for e-cigarette (EC) emissions is similar to that of cigarettes, indicating a risk for EC particles to enter deep into the lungs and have adverse respiratory and cardiovascular effects. However, there are only a handful of studies that have directly investigated the health effects of secondhand EC exposure. We sought to evaluate the potential impact of switching from cigarettes to ECs on air quality and the health impact on those exposed to EC SHS.

Methods

In an ongoing longitudinal cohort pilot study, we are recruiting current smokers who agree to switch from cigarettes to ECs and who are currently living with at least one non-smoker/non-EC user. Baseline air quality measures were collected within each household, and the health status of non-smoking residents was assessed. Air quality and health measurements will be repeated at 12-weeks and 6-months and assessed along with reported cigarette and EC use.

Results

At baseline, of the 55 smokers recruited, 60.0% currently live with at least one non-smoker/non-EC user. Within these households EC use is more often allowed anywhere in the home as compared to cigarette smoking (43.6% vs. 23.6%). Collecting in-home air quality and health measurements is feasible in this population.

Conclusions

A substantial portion of current smokers live with at least one non-smoker/non-EC user. EC use is more widely accepted throughout the home compared to cigarette smoking. This poses a potential hazard as residents are more likely to experience EC SHS. More information is needed regarding the impact of EC use on home air quality and the health impact of EC SHS exposure on non-smoker/non-EC users.

Main messages

Air quality is likely altered in homes of smokers switching to EC, but its effect on the health of those exposed to EC SHS has not been thoroughly explored. More research is needed to develop evidence-based policies concerning EC use.

Type of study / research

Human study

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