

# 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

### Contact details of the corresponding author

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### Background information

#### Type of submission

Oral

#### Theme of conference

Health impact

## Keywords

Effects of major components of e-cigarette

Health impact

Public health

## Abstract title

Unintended consequences of vaping: injuries from poisonings and explosions

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## Abstract details (poster & oral)

### Background, method, results and conclusions

**Background:** The use of vaping products or their unsafe storage can have unintended consequences. Most information about unintended consequences come from case reports or poisons and burns centres. Incidents of poisonings, explosions and fires associated with vaping are rare and the true prevalence is unknown. However, the effects can cause severe harm and more preventative measures are needed.

**Methods:** We conducted a systematic review of literature, including case studies of intentional and accidental poisonings and injuries related to vaping products, published between August 2017 and -July 2021. We additionally sought data from national and international poisons centres, as well as the London Fire Brigade.

**Results:** We identified 22 studies from international poisons/surveillance centres and case reports/studies; the majority of participants were young children who accidentally swallowed e-liquids. We identified 25 cross sectional surveys and case studies that reported injuries from malfunctioning vaping devices; most injuries occurred whilst the user was carrying their device in their trouser pocket. Severe burns and injuries required intensive and prolonged medical treatment. Fires caused by cigarette smoking are considerably more common than vaping related fires with numbers to be presented in the symposium.

**Conclusions:** Accidental ingestion is the most common cause of poisonings related to vaping products, and incidents of poisoning in children are often preventable. Incidents of explosions are very rare but have severe consequences. We identified a number of limitations with the studies, including that more research is required on the type of vaping implicated in poisoning, fires and explosions, which would then inform future regulations.

### Main messages

Education by relevant authoritative bodies and vape shops should reinforce safe storage, away from similar looking medicines e.g eye drops and children's medicine; and the safe carrying and charging of vaping products and batteries.

### Type of study / research

Systematic review

### Geography of the study

International (including Europe)

### Funding of study

### Federal source

Yes

**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