

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

Title

Ms

First name

Fanny

Last name

Pélissier

E-mail

pelissier.f@chu-toulouse.fr

Institution / company

Toulouse-Purpan University Hospital

Unit / department

Poison Control Center

Address

Place du Dr Baylac, Pavillon Louis Lareng
Toulouse, 31059
France

Background information

Type of submission

Oral or poster

Theme of conference

Health impact

Keywords

Prevention

Public health

Social determinants

Abstract title

E-cigarette and e-liquids: national reports received by French Poison Control Centers from July 2019 to December 2020

Author's contact details :

Title

Ms

First name

Fanny

Last name

Pélissier

E-mail

pelissier.f@chu-toulouse.fr

Institution / company

Toulouse-Purpan University Hospital

Co-author's contact details :

Number of co-authors

4

Co-author 1

Juliette Bloch ANSES

Co-author 2

Benoit Labarbe ANSES

Co-author 3

Cécilia Solal ANSES

Co-author 4

Nicolas Franchitto Poison Control Center/Addiction Center/CERPOP

Abstract details (poster & oral)

Background, method, results and conclusions

Background: E-liquids are of particularly concern as a growing body of literature suggested an increased risk of exposure incidents related to e-cigarette use and misuse. Since the early 2000s, electronic cigarettes and their e-liquid refills have been the subject of several studies by poison control centers to describe the circumstances of exposure and their severity.

Method: All e-liquids exposure cases reported to French Poison Centers from July 1, 2019 to December

31, 2020 were reviewed. The distributions of exposures by demographic and clinical factors were determined. The overall severity was defined according to the Poison Severity Score. Chi-square tests and multivariable logistic regression analysis were used to test associations.

Results: 919 cases were included in the study. Fifty-one cases of exposure to e-liquids per month on average were notified to CAPTVs during the study period. Age ranged from one month to 89 years, with a mean age of 16.6 ± 18.6 years and a median age of 4 years. Most of the patients were male (55.7%). The majority of cases were accidental (95.0%) and concerned children under 5 years for 53.8% of them. Ingestion was the most common route of exposure (73.7%) and especially in children < 5 years (94.8%) ($p < 0.001$). Symptoms were noticed for half of patients, and the most common were nausea/vomiting (31.6%), followed by eye pain (28.2%), abdominal pain (15.7%) and headaches (3.8%). 455 exposures resulted in null severity, 437 were coded with minor poisoning, 24 with moderate poisoning and three severe. No death was noticed.

Conclusions: Involuntary exposures to e-liquids occurred more likely in children less than 5 years of age mainly by ingestion. Severe exposures were uncommon when unintentional conversely to intentional ingestions. These results indicate that surveillance of such exposures by the toxicovigilance network should continue to prevent these exposures and injuries and to focus on regulations of these products.

Main messages

Main messages: Our study underlines the need to continue to declare any new products composition to competent authorities and to prevent exposure for children by increasing educational message.

Type of study / research

Original study

Geography of the study

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