

# 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

Health impact

## Keywords

Addiction

Harm reduction

Vulnerable populations

## Abstract title

REWARD DEFICIENCY SYNDROME : A RATIONAL OF TOBACCO HARM REDUCTION

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### Number of co-authors

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## Abstract details (poster & oral)

### Background, method, results and conclusions

- Background :  
smoking is a real addiction with a severe psycho-behavioral dependence. Only 1 in 4 smokers succeed in quitting. Those with risky genetic deficits, such as low dopaminergic function in the brain's reward site, are at high risk for relapse and face major health risks
- Methods :  
This overview is based on bibliographic data targeting substance abuse vulnerability factors, in particular the Reward Deficiency Syndrome.
- Results :  
The path to addictive behaviors is facilitated by various determinisms such as personality traits, environmental factors, genetic and epigenetic factors. Reward deficiency syndrome is the salient expression of this, that result in a hypodopaminergic state and a predisposition to obsessive, compulsive and impulsive behaviors . All of these behaviors have been linked with low dopamine function due to an association with the presence of the TAq A1 polymorphysm of DRD2. The brain may compensate for the lack of pleasure by seeking an external source of dopaminergic stimulation like smoking, alcohol, drugs, food, sex and gaming. This presentation sheds light on the Reward Deficiency Syndrome as a rational of Tobacco Harm Reduction.
- Conclusions :  
individuals In vulnerable populations with comorbid mental disorders or living in an unfavorable socioeconomic environment , seek nicotine to regulate their mood and to self-medicate a reward

deficiency syndrome. Electronic cigarettes offer them this opportunity free from a large part of the toxins contained in the smoke of conventional cigarettes. Electronic cigarettes, can constitute an unparalleled opportunity to reduce the prevalence of tobacco-related scourges.

## Main messages

Main messages :

- Individuals with DRD2-A1 gene form smoke to self-medicate and alleviate the hypodopaminergic cerebral state.
- For smokers in difficulty quitting, electronic Cigarettes are a safer alternative to deliver nicotine.

## Type of study / research

Original study

## Geography of the study

International (including 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

No

### 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