WHY E-CIGARETTES SHOULD BE

MORE REGULATED AND HOW TO DO IT

Jacopo Trapletti April 2019

What are E-Cigarettes?

Quoting Lempert e-cigarettes are: "devices that deliver an aerosol by heating a solution typically composed of propylene glycol and/or glycerol (glycerin), nicotine and flavoring agents". E-cigarettes come in different shapes, sizes and designs (Figure 1).



Figure 1 Source: NIDA, E-cigs Factsheet

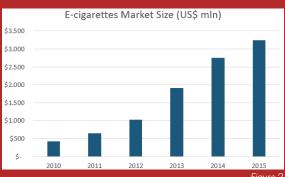
What are the issues?

The study of the US Department of Health and Human Services (DHHS) confirms that e-cigarettes are still a **product as harmful as tobacco**. In particular, e-cigs deliver nicotine, a highly addictive substance, which can damage the brain development, especially during adolescence. In addition, the World Health Organization (WHO) discovered that the aerosols from e-cigarettes contain other toxic chemicals and the long term use of this type of inhalation can cause breathing problems. Moreover, Primack, in his study, found out a common trend: a person who smokes e-cigs is "four time more likely" to start smoking "real" cigarettes.

However, smokers, especially teenagers, don't perceive e-cigarettes as harmful. 11 This misconception is favored by the current regulation of e-cigs use, that is permissive and ambiguous, especially in regard to marketing and use restrictions. 2

Trends

E-cigarettes firstly appeared in the US in 2006. Since then the market size has grown impressively, taking advantage of the lack of a clear and uniform federal regulatory strategy. In 2015 its value was around \$3,25 billion with a predicted sales of \$2,5 billion (Figure 2).²



Data Source: PHLC Original Infographic

This increase was followed by a growth in e-cigarettes use among US teenagers.

In 2018, 1 every 5 high school student smoked e-cigs. The upward trend can be seen in Figure 3, which shows the percentage of students using tobacco and e-cig products from 2011 to 2018.

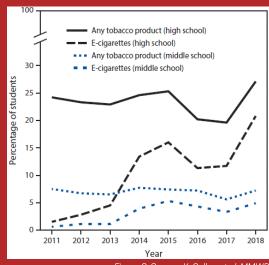
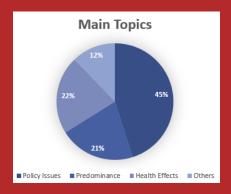
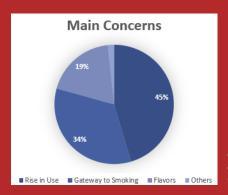


Figure 3, Source: K. Cullen et al, MMWR

Media's Reaction and Public Opinion

Because of their influence on public opinion, news media may greatly help to eradicate the misconceptions about e-cigarettes. In fact, a recent study reports that the main topics of wide interest debated by the media are: e-cigarette **policy/regulatory issues** (45,1%), e-cigarette **predominance** (21,0%) and **health effects** (21,7%). Furthermore, focusing on the e-cig epidemy among young people the main concerns brought up by media are: the **rise in e-cigarette use** (45,4%), its potential **gateway to smoking** (33,9%) and its **appeal of flavors** (19,0%).





Figures 4 and 5 Data Source: Wackowski et al, NTR. Original Infographic

Why Focusing On Marketing and Use Restrictions?

Marketing and use are the most important issues in e-cigarettes regulation that should be improved.

Regarding marketing: the boost in the use of e-cigs among teens is strictly connected to their **exposure to e-cigarettes advertisement campaigns**. Teens are attracted by ads that induce them to perceive e-cigarettes as "cooler, more fun, healthier, and more enjoyable" than cigarettes. Currently there are no defined rules about misleading product claims and the advertisements of e-cigarettes, which allows e-cigs companies to target young people as the most profitable consumers. Regarding use limitations: many existing smoke-free laws **do not restrict the use of the e-cigarettes in indoor public places**, since these products emit an aerosol instead of secondhand smoke.

Implementing this type of rules may be a stimulus to quit smoking as it is for regular cigarettes smokers. It may also diminish or even prevent the imitation effect, potent above among adolescents.

Current Regulation

In 2016, the US Food and Drug Administrations (FDA) issued a decisive rule deeming ecigarettes within their authority.

The main points of this new regulation are:

- Inclusion of e-cigarettes containing nicotine as tobacco products for certain purposes.
- Imposition of the minimum legal sale age at 18.
- Required submission of ingredients, listing and reporting Harmful and Potentially Harmful Constituents.
- Requirements of premarket review and warning labels.

NEXT STEPS

Knowing that marketing and use are the most important and controversial aspects about e-cigarettes that need to be regulated, and taking into consideration that the e-cigarettes market is a branch which is constantly evolving and changing, the next step that the federal government should take is **to implement new laws custom-made for e-cigarettes**. 9 Some possible suggestions are:

- Introducing control on misleading product claims about ecigarettes, and prevent e-cigarettes dealers from targeting minors as main consumers through the use of advertising that emphasizes sex appeal, individualism and overall coolness.
- Banning e-cigs advertisement from tv and especially social media.
- Implementing restrictions for the use of e-cigarettes in indoor public spaces, as it is for the use of regular cigarettes and all the others main tobacco products.
- Supporting campaigns of correct information on the effective consequences of the e-cig.use in collaboration with the Health System and the Educational System.

How will these initiatives help?

It appears clear that definite restrictive regulations in the use of e-cigs and less appealing marketing campaigns will **obscure the presence of these devices in public spaces**, thus **reducing the curiosity of nousers of all ages and the imitation effect** that is spontaneous above all among adolescents. These consequences are supported by Farrelly's study which connects antismoking campaigns targeted at youth to "substantial declines in youth smoking": the first antismoking campaign direct to youth resulted in a decline of 22% in use among students. ¹⁰

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Name: Jacopo Trapletti PID: 730335339