The E-cigarette – a New Tool to Aid Smoking Cessation

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This editorial shows that, despite controversies in the public health community and among professionals regarding the role of e-cigarettes as an aid to stopping smoking, and although the potential health risks of long-term use of nicotine are unknown, modern devices should be regarded more as a solution than a problem. Clinicians, owing to the high morbidity and mortality of smoking should include e-cigarettes as efficient tools to help smokers to quit smoking or at least as a substitute for cigarettes. Effort is needed to improve knowledge about this tool.

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Smoking cessation, e-cigarettes, tobacco harm reduction

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A new social phenomenon has occurred since the end of the first decade of the 21st century, namely, the rise of the electronic cigarette (e-cig) also called the electronic nicotine delivery system (ENDS). The two names are not strictly equivalent, as the latter implies the presence of nicotine.

As a lung physician confronted daily with the difficult challenge of smoking cessation, in this article, I will consider only the nicotine-containing devices. This is a social issue as neither pharmaceutical industry, nor the tobacco industry predicted that e-cigs would become so popular in the absence of big advertising campaigns. The first models looked like cigarettes (cigalikes) and appeared more as gadgets than as a possible tool for smokers wanting to quit smoking. The inventor, a Chinese person named Hon Lik was nevertheless pushed to design a product delivering nicotine without dangerous components, after witnessing his father dying from a lung cancer. We do not know if this pharmacist and engineer was aware of Russel’s claim that “people smoke for nicotine but they die from tar”.

Health professionals were not the initiators of this way of stopping or reducing smoking, the initiative came from the population of smokers itself. The Public Health community, all over the world, was, and still is, very reluctant to endorse the practice. The ideological reason is an opposition to the concept of harm reduction itself. Tobacco harm reduction (THR) is considered by opponents as compromising smoking cessation constituting a gateway to smoking among non-smoking adolescents. The real-world situation is the 80% failure of abstinence with the current approved treatments of nicotine dependence in the general population. So if electronic cigarettes are at least as efficient as nicotine patches for smoking cessation, we should utilise them for this indication, if they are proven to be not at all, or much less dangerous for health, which seems to be the case.

Many surveys show that a number of users who quit will continue to ‘vape’, which is considered a safer way, not to smoke, but to vaporise nicotine. For those people, we are in the THR situation. A more scientific reason to contest the place of e-cigs in smoking cessation is still the absence of large randomised controlled trials. The Cochrane Review on the subject states that electronic cigarettes may have the same efficacy as the nicotine patch, and with a short time use of up to two years, not seeming to be deleterious for human health.

Today, if cigalikes (first generation e-cigarettes) are no longer regarded as nicotine substitutes, this is not the case for the second and, mostly, third generation e-cigs, which deliver nicotine to the brain almost as fast as a classical cigarette. A population study of smokers, not using smoking cessation help from health professionals (HP), showed a much better success with e-cigs, than with nicotine replacement therapy (NRT) such as patches bought over the counter.

Therefore, when a HP is confronted to a smoker unable or unwilling to quit after using licensed medicines, it is mandatory to encourage the use of last-generation electronic cigarettes. This is a challenge not only for lung physicians, cardiologists, oncologists and other specialists,
but also for general practitioners, who have a duty to improve their
knowledge about the e-cigs and e-liquids filling the numerous devices
of unequal quality on the market.

In Belgium, during the formation delivered to HP specialising in smoking
cessation, “tobacologists”, we include lectures and workshops about
nicotine containing e-cigarettes, now legal, as a tool for the smokers who
have failed with licensed products for stopping smoking.1 The policy of
including electronic cigarettes as a tool in the smoking cessation process
is a cornerstone of Public Health England,2 which has also published
guidelines on practical issues regarding e-cigarette use.3

This document concludes that ‘use of e-cigarettes by never smokers
remains negligible and evidence does not support the view that
e-cigarettes are acting as a gateway into smoking among young people’.4 To
leave the discussion open on this controversial issue, a report about
the 2014 National Youth Tobacco Survey (NYTS) in the US, stresses the
complexity of defining patterns of frequency, temporality and poly-use
in youth (cigarette, cigar, smokeless tobacco, e-cigarette). They ask for
several waves of longitudinal surveys before closing the question.5

Regarding smoking cessation, even if we still do not have robust
evidence-based proof of efficacy, there is a huge amount of positive
observation from millions of ex-smokers, driving our decision to
recommend e-cigarettes to smokers unable to sustain abstinence with
available medications and strategies. A return to breathing only air in the
vast population of satisfied vapers will be a challenge for the future, as
vaping is not the ultimate goal for optimal health.6

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