

FDA warning on drug for quitting smoking needs rethink, say researchers

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Credit: University of Bristol

Researchers from the University of Bristol have called for the USA Food and Drug Administration's 'black box' warning for smoking cessation drug varenicline to be lifted.

In 2005, varenicline was released as the first oral drug to aid with quitting smoking since bupropion in 1997. However, in 2009 the FDA

put a 'Black Box warning' on varenicline, following concerns over its neuropsychiatric safety and reports that some users were experiencing suicidal behaviour.

Black Box warnings are the strongest warning the FDA issues, and they are "designed to call attention to serious or life-threatening risks." (3) These warnings must be issued with all prescriptions of the drug in question. The FDA's only escalation after a Black Box warning is to force a drug to be recalled or withdrawn from the market.

In a piece of work funded by the National Institute for Health Research, Dr Neil Davies and Dr Kyla Thomas, from the University of Bristol's School of Social and Community Medicine, described the current scientific evidence regarding the causal relationship between varenicline and neuropsychiatric safety of patients. Their editorial, published in the journal *Addiction*, argues that these neuropsychiatric signals were due to those people prescribed varenicline being at higher risk of adverse events even before treatment.

Dr Davies said: "It's likely patients and clinicians would see the FDA's Black Box warning about serious adverse neuropsychiatric events as implying varenicline is responsible for those events. We know people who are prescribed medication are at a higher risk than the [general population](#), even before they start treatment. Smokers, however, are on average poorer, sicker and more likely to have [mental health problems](#) than the general population.

"Recently-published randomized trials, and observational studies based on analyses of data from patients prescribed varenicline, have provided strong evidence the [drug](#) does not cause adverse neuropsychiatric events. On the strength of this evidence, the European Medicines Agency lifted its warning about possible suicidal risks from varenicline in April this year."

Dr Thomas said: "Effective regulation has to balance all the evidence on efficacy and safety, even when evidence is sparse and potentially unreliable. The Black Box warnings issued for varenicline may have confused smokers and physicians about the strength of the scientific [evidence](#) about varenicline's neuropsychiatric risks.

"This has serious consequences; fewer people are likely to have been prescribed varenicline as a result of these warnings, and safety concerns may have led to fewer people quitting smoking. From the first warnings in November 2007 to today, 4.1 million people are likely to have died from smoking related disease in the US alone. It is time for the FDA updated its guidance on [varenicline](#) and remove the Black Box warning."

More information: Neil M Davies et al. The FDA and Varenicline: Should Risk Communication Be Improved?, *Addiction* (2016). [DOI: 10.1111/add.13592](#)

Provided by University of Bristol

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