Ramping up e-cigarette voltage produces more formaldehyde -study | Reuters



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But he questioned the legitimacy of comparing the effect of formaldehyde delivered in a cigarette to that delivered via hemiacetal, in droplet form, in an e-cigarette. The effect on organs could be entirely different, he said.

Other critics said that in the real world most "vapers" do not push the voltage to the levels seen in the study as the taste would become unpalatable. They also noted that the overall health risk of conventional cigarettes, which contain 70,000 toxins in addition to formaldehyde, is far greater than any formaldehyde risk associated with e-cigarettes.

"Lifelong smokers face a greater than 1 in 2 chance of dying from smoking-related diseases, including a roughly 1 in 10 chance of dying from lung cancer," said Jed Rose, director of the Center for Smoking Cessation at Duke University Medical Center.

Pankow conceded that the study could have contained more context about overall relative risk, but said the authors "just wanted to get it out."

They submitted it to the NEJM in the form of a letter, which a spokeswoman for the journal said was peer-reviewed. Pankow said letters tend to be less detailed than other studies.

David Abrams, executive director of the Schroeder Institute for Tobacco Research and Policy Studies at the anti-tobacco group Legacy, said he was concerned the study would be taken out of context "in the worst possible way."

For most vapers who use e-cigarettes as intended, he said, the findings show "there are nondetectable levels of formaldehyde ... which means people can use them to help them quit smoking lethal cigarettes."

(Reporting by Toni Clarke in Washington; Editing by Michele Gershberg and Richard Chang)

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