

New tool calculates lives saved, policy implications of tobacco control





Credit: Yale University

New estimates from a web-based tool that tracks tobacco use created by the Yale School of Public Health show that the recent federal law raising the age of legal tobacco purchase to 21 could save over 100,000 lives



over the rest of this century.

The same tool further breaks down the lives saved within each of the 50 states and Washington, D.C. For example, the federal law will save 8,900 lives in the state of New York, 13,800 in Florida and more than 6,800 in North Carolina by 2100.

The Tobacco Control Policy (TCP) tool is an <u>interactive simulation</u> modeling application developed by Jamie Tam, assistant professor at the Yale School of Public Health, Rafael Meza, associate professor at the University of Michigan School of Public Health, and the NCI-funded Cancer Intervention and Surveillance Modeling Network (CISNET) lung consortium. In addition to minimum age laws, the tool also simulates the potential state-by-state effects of smoke-free air laws, cigarette taxes and increasing state tobacco control expenditures.

The TCP tool was designed to facilitate tobacco control decision-making at the local, state and national levels, providing the latest data in an easyto-understand format so that people can understand the potential health benefits of different policies when weighing various options. Legislators and other decision-makers often have to make choices for public health with little knowledge about potential long-term health impacts.

"We want to address this gap," said Tam "Our team makes projections about the future under different tobacco <u>policy</u> scenarios using simulation modeling. We want to make it easier for everyone to understand and explore the health benefits of tobacco control policies being considered. Simulation models are rarely accessible to people outside of the <u>research community</u>, so we developed a tool that is designed to be interactive, user-friendly, and informed by the latest data."

The policy simulation tool is unique in that it takes into account the



existing state policy environment when predicting the effects of new policies. For example, before the federal Tobacco 21 law went into effect, 41% of the U.S. population was already living somewhere with a local or state Tobacco 21 law, which reduces the impact of the federal law itself. The researchers accounted for this underlying policy context when modeling the impact of new policies.

The tool works similarly with cigarette taxes—the public health impact of a \$1 increase in the price of cigarettes really depends on the state context.

"You're going to get the biggest bang for your buck in states where the price of cigarettes is low, compared to states that already have high <u>tobacco</u> taxes," Meza said. "Our tool gives the user results that are specific to the policy and place they are interested in."

The TCP tool has been updated to reflect the most recent tobacco use trends and the latest data across states. The researchers gathered state-bystate information from the Campaign for Tobacco Free Kids, the American for Nonsmokers' Rights and the Centers for Disease Control and Prevention. They combined this with research about policies' effectiveness to simulate more than 2,200 different policy scenarios and their impact on population health outcomes.

"Now," Tam said, "policymakers, <u>health</u> advocates and the general public have these numbers at their fingertips. We want this to be used by everyone."

More information: Tobacco Control Policy Simulator: <u>tobaccopolicyeffects.org/</u>



Provided by Yale University

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