## Changes in kretek use between 2011 and 2021 among Indonesian adults aged ≥15 years

N. Kodriati<sup>1,2</sup>, J. Shi<sup>3</sup>, N. Jacques<sup>4,5</sup>, J. Morton<sup>3</sup>, L. Popova<sup>1</sup>, L. Pan<sup>4</sup>

<sup>1</sup>Georgia State University, School of Public Health, Atlanta, United States of America, <sup>2</sup>University of Ahmad Dahlan, Faculty of Public Health, Yogyakarta, Indonesia, <sup>3</sup>CDC Foundation, Noninfectious Disease Programs, Atlanta, United States of America, <sup>4</sup>Centers for Disease Control and Prevention, Global Tobacco Control Branch, Office on Smoking and Health, Atlanta, United States of America, <sup>5</sup>CyberData Technologies, CyberData Technologies, Herndon, United States of America

<u>Type selection</u>

Category: Research

Is your research: Original

**Preferred presentation type**: Full Oral presentation **Track**: Track 3: Health Consequences and Cessation

Domain: Multi-Sector Engagement and Global Cooperation in Tobacco Control, Advocacy for Tobacco Control

## **Title**

## **Research Abstract Text**

**Background**: In 2018, Indonesia had the highest tobacco smoking prevalence (33.4% among adults) in the world, with kretek (clove cigarettes) being the most popular tobacco products. This study examines changes in kretek use among Indonesian adults (≥15 years) between 2011 and 2021 by selected sociodemographic and tobacco control factors.

**Methods**: Data from the Global Adult Tobacco Survey (GATS) Indonesia in 2011 (n=8,305, response rate=95.4%) and 2021 (n=9,156, response rate=94%) were analyzed. GATS uses nationally representative, multistage cluster sampling. Multivariable logistic regression calculated adjusted prevalence ratios (aPR) for kretek use changes over time controlling for sociodemographic characteristics, knowledge of smoking harm, exposure to secondhand smoke, proand anti-tobacco messages.

Results: Overall, crude prevalence of kretek use was 31.5% (95% CI, 29.8%–33.3%) in 2011 and 28.6% (95% CI, 27.1%–30.1%) in 2021. Adjusted prevalence decreased relatively by 8% (aPR, 0.92; 95% CI, 0.86–0.98), from 31.3% (95% CI, 29.9%–32.8%) in 2011 to 28.8% (95% CI, 27.5%–30.1%) in 2021. Notably, adjusted prevalence among men decreased by 8% (aPR, 0.92; 95% CI, 0.85-0.99), from 53.9% (95% CI, 51.1%–56.8%) in 2011 to 49.6% (95% CI, 46.9%–52.3%) in 2021, while adjusted prevalence among women remained consistently low, at 3.4% (95% CI, 2.4%–4.5%) in 2011 and 2.3% (95% CI, 1.5%–3.0%) in 2021. Significant reductions were observed among adults aged 45–64, rural residents, individuals without schooling or tertiary education, adults with a low or middle wealth index, individuals' aware of the harms from smoking, those exposed to secondhand smoke or anti-tobacco messages, and adults without exposure to tobacco advertising.

**Conclusions**: While progress has been made in reducing kretek use, prevalence remains high, particularly among men. Comprehensive tobacco control policies, including stricter advertising regulations and expanded anti-tobacco campaigns, can help to address this issue.

## **Confirmation and Consent**

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