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Determinants of e-cigarette use among a sample of high school students in Jakarta, Indonesia

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Abstract

Objectives

The aim of this study was to determine the predisposing, enabling and reinforcing factors associated with electronic cigarette (e-cigarette) use among high school students in Jakarta, Indonesia.

Methods

This cross-sectional study took place in eight high schools in Jakarta, Indonesia. A total of 767 students were recruited by multistage cluster random sampling. Bivariate and multivariate statistical analyses were employed to determine the associations between socio-demographic, predisposing, reinforcing and enabling factors and e-cigarette use.

Results

Respondents were 54.1% male and the mean age was 16 years old [standard deviation (SD): 1.02]. In this sample, 32.2% of students (n = 247) had ever used e-cigarettes and 11.8% of students were e-cigarette users (n = 90). Several measured factors were positively associated with e-cigarette use, including: current smoking of conventional cigarettes [odds ratio (OR): 2.06]; perception that e-cigarettes are less addictive than conventional cigarettes (OR: 1.98); perception that e-cigarettes do not cause cancer (OR: 2.38); parental acceptance of e-cigarette use (OR: 3.80); and having enough money to buy e-cigarettes (OR: 3.24). The only variable found that was negatively associated with e-cigarette use was teacher's use of e-cigarettes (OR: 0.34).

Conclusions

This study found that student social influences, perceptions about and accessibility to e-cigarettes were significantly positively associated with e-cigarette use among high school students in Jakarta, Indonesia. This study highlights the importance of educating students, their parents and teachers regarding safety and potential health hazards of using e-cigarettes. Efforts to implement and enforce youth access restrictions on e-cigarettes in Indonesia are crucial to preventing further uptake of these products.

Keywords: [addictive](#); [adolescent](#); [behaviour](#); [electronic nicotine delivery systems](#); [smoking](#)

▶ Introduction

▶ Methods

▶ Results

▶ Discussion

▶ Acknowledgements

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