



Tobacco

31 July 2023



Key facts

- Tobacco kills up to half of its users who don't quit (1–3).
- Tobacco kills more than 8 million people each year, including an estimated 1.3 million non-smokers who are exposed to second-hand smoke (4).
- Around 80% of the world's 1.3 billion tobacco users live in low- and middle-income countries.
- In 2020, 22.3% of the world's population used tobacco: 36.7% of men and 7.8% of women.
- To address the tobacco epidemic, WHO Member States adopted the WHO Framework Convention on Tobacco Control (WHO FCTC) in 2003. Currently 182 countries are Parties to this treaty.
- The WHO MPOWER measures are in line with the WHO FCTC and have been shown to save lives and reduce costs from averted healthcare expenditure.

Overview

The tobacco epidemic is one of the biggest public health threats the world has ever faced, killing over 8 million people a year around the world. More than 7 million of those deaths are the result of direct tobacco use while around 1.3 million are the result of non-smokers being exposed to second-hand smoke (4).

All forms of tobacco use are harmful, and there is no safe level of exposure to tobacco. Cigarette smoking is the most common form of tobacco use worldwide. Other tobacco products include waterpipe tobacco, cigars, cigarillos, heated tobacco, roll-your-own tobacco, pipe tobacco, bidis and kreteks, and smokeless tobacco products.

Around [80% of the 1.3 billion tobacco users worldwide](#) live in low- and middle-income countries, where the burden of tobacco-related illness and death is heaviest. Tobacco use contributes to poverty by diverting household spending from basic needs such as food and shelter to tobacco. This spending behaviour is difficult to curb because tobacco is so addictive.

The economic costs of tobacco use are substantial and include significant health care costs for treating the diseases caused by tobacco use as well as the lost human capital that results from tobacco-attributable morbidity and mortality.

Key measures to reduce the demand for tobacco

Surveillance is key

Good monitoring tracks the extent and character of the tobacco epidemic and indicates how best to tailor policies. Almost half of the world's population are regularly asked about their tobacco use in nationally representative surveys among adults and adolescents.

[More on monitoring tobacco use](#)

Second-hand smoke kills

Second-hand smoke is the smoke that fills restaurants, offices, homes, or other enclosed spaces when people smoke tobacco products. There is no safe level of exposure to second-hand tobacco smoke. Second-hand smoke causes serious cardiovascular and respiratory diseases, including coronary heart disease and lung cancer, and kills around 1.3 million people prematurely every year.

Over a quarter of the world's population living in 74 countries are protected by comprehensive national smoke-free laws.

[More on second-hand smoke](#)

Tobacco users need help to quit

Among smokers who are aware of the dangers of tobacco, most want to quit. Counselling and medication can more than double a tobacco user's chance of successful quitting.

National comprehensive cessation services with full or partial cost-coverage are available to assist tobacco users to quit in only 32 countries, representing around a third of the world's population.

[More on quitting tobacco](#)

Pictorial health warnings work

Hard-hitting anti-tobacco mass media campaigns and pictorial health warnings prevent children and other vulnerable groups from taking up tobacco use, and increase the number of tobacco users who quit.

Over half the world's population live in the 103 countries that meet best practice for graphic health warnings, which includes among other criteria, large (50% or more of the main areas of the package) pictorial health warnings displayed in the local language.

Around 1.5 billion people live in the 36 countries that have aired at least one strong anti-tobacco mass media campaign within the last 2 years.

[More on tobacco health warnings](#)

Bans on tobacco advertising lower consumption

Tobacco advertising promotion and sponsorship (TAPS) increases and sustains tobacco use by effectively recruiting new tobacco users and discouraging tobacco users from quitting.

One third of countries (66), representing a quarter of the world's population, have completely banned all forms of TAPS.

[More on tobacco advertising bans](#)

Taxes are effective in reducing tobacco use

Tobacco taxes are the most cost-effective way to reduce tobacco use, especially among youth and low-income groups. A tax increase that increases tobacco prices by 10% decreases tobacco consumption by about 4% in high-income countries and about 5% in low- and middle-income countries.

Even so, high tobacco taxes are rarely implemented. Only 41 countries, with 12% of the world's population, have introduced taxes on tobacco products so that at least 75% of the retail price is tax.

[More on tobacco taxes](#)

Illicit trade of tobacco products must be stopped

The illicit trade in tobacco products poses major health, economic and security concerns around the world. It is estimated that 1 in every 10 cigarettes and tobacco products consumed globally is illicit.

Experience from many countries demonstrates that illicit trade can be successfully addressed even when tobacco taxes and prices are raised, resulting in increased tax revenues and reduced tobacco use.

The WHO FCTC Protocol to Eliminate the Illicit Trade of Tobacco Products (ITP) is the key supply side policy to reduce tobacco use and its health and economic consequences.

[More on eliminating the illicit trade of tobacco products](#)

Newer nicotine and tobacco products

Heated tobacco products (HTPs) are tobacco products that produce aerosols containing nicotine and toxic chemicals upon heating of the tobacco, or activation of a device containing the tobacco. They contain the highly addictive substance nicotine, non-tobacco additives and are often flavoured.

Despite claims of “risk reduction”, there is no evidence to demonstrate that HTPs are less harmful than conventional tobacco products. Many toxicants found in tobacco smoke are at significantly lower levels in HTP aerosol but HTP aerosol contains other toxicants found sometimes at higher levels than in tobacco smoke, such as glycidol, pyridine, dimethyl trisulfide, acetoin and methylglyoxal.

Further, some toxicants found in HTP aerosols are not found in conventional cigarette smoke and may have associated health effects. Additionally, these products are highly variable and some of the toxicants found in the emissions of these products are carcinogens.

[More on heated tobacco products](#)

Electronic cigarettes (or e-cigarettes) are the most common form of electronic nicotine delivery systems (ENDS) and electronic non-nicotine delivery systems (ENNDS) but there are others, such as e-cigars and e-pipes. ENDS contain varying amounts of nicotine and harmful emissions. Use of ENDS/ENNDS products is colloquially referred to as 'vaping'. However this does not mean that they are harmless or emit water vapour.

E-cigarette emissions typically contain nicotine and other toxic substances that are harmful to users and non-users who are exposed to the aerosols second-hand. Some products claiming to be nicotine-free have been found to contain nicotine.

Evidence reveals that these products are harmful to health and are not safe. However, it is too early to provide a clear answer on the long-term impacts of using them or being exposed to them. Some recent studies suggest that ENDS use can increase the risk of heart disease and lung disorders. Nicotine exposure in pregnant women can have negative health consequences on the fetus, and nicotine, which is a highly addictive substance is damaging for brain development.

[More on e-cigarettes](#)

Nicotine pouches are pre-portioned pouches that contain nicotine and are similar to traditional smokeless tobacco products such as snus in some respects including appearance, inclusion of nicotine and manner of use (placing them between the gum and lip). They are often promoted, as "tobacco-free", which can be used anywhere and in some jurisdictions, such as the US, they are referred to as "white pouches".

WHO response

There is a fundamental and irreconcilable conflict between the tobacco industry's interests and public health policy interests. The tobacco industry produces and promotes a product that has been proven scientifically to be addictive, to cause disease and death and to give rise to a variety of social ills, including increased poverty.

The scale of the human and economic tragedy that tobacco imposes is shocking, and also preventable. The tobacco industry is fighting to ensure the dangers of their products are concealed, but we are fighting back.

The WHO FCTC is a milestone in the promotion of public health. It is an evidence-based treaty that reaffirms the right of people to the highest standard of health, provides legal dimensions for international health cooperation and sets high standards for compliance. Since its entry into force in 2005, the WHO FCTC has 182 Parties covering more than 90% of the world's population.

In 2007, WHO introduced a practical, cost-effective initiative to scale up implementation of the demand reduction provisions of the WHO FCTC, called MPOWER.

The 6 MPOWER measures are:

- **Monitor tobacco use and prevention policies.**
- **Protect people from tobacco use.**
- **Offer help to quit tobacco use.**
- **Warn about the dangers of tobacco.**
- **Enforce bans on tobacco advertising, promotion and sponsorship.**
- **Raise taxes on tobacco.**

WHO has been monitoring MPOWER measures since 2007. For more details on progress made for tobacco control at global, regional and country level, please refer to the series of [WHO reports on the global tobacco epidemic](#).

[More on MPOWER](#)

References

(1) Doll R, Peto R, Boreham J, Sutherland I. Mortality in relation to smoking: 50 years' observations on male British doctors. *BMJ*. 2004 Jun 26;328(7455):1519.

(2) Banks, E., Joshy, G., Weber, M.F. *et al*. Tobacco smoking and all-cause mortality in a large Australian cohort study: findings from a mature epidemic with current low smoking prevalence. *BMC Med* **13**, 38 (2015).

(3) Siddiqi, K., Husain, S., Vidyasagaran, A. *et al.* Global burden of disease due to smokeless tobacco consumption in adults: an updated analysis of data from 127 countries. *BMC Med* **18**, 222 (2020).

(4) [Global Burden of Disease \[database\]](#). Washington, DC: Institute of Health Metrics; 2019. IHME, accessed 17 July 2023

Guide

- [Plain packaging of tobacco products: evidence, design and implementation](#)

Publications

- [WHO global report on trends in prevalence of tobacco use 2000-2025, fourth edition](#)
- [WHO report on the global tobacco epidemic 2021](#)

More about tobacco

- [Tobacco Free Initiative](#)
- [WHO Framework Convention on Tobacco Control](#)
- [More about tobacco: topical overview](#)