Women and tobacco: a call for including gender in tobacco control research, policy and practice

Amanda Amos,1 Lorraine Greaves,2,3 Mimi Nichter,4 Michele Bloch5

ABSTRACT

Objectives Female smoking is predicted to double between 2005 and 2025. There have been numerous calls for action on women’s tobacco use over the past two decades. In the present work, evidence about female tobacco use, progress, challenges and ways forward for developing gendered tobacco control is reviewed.

Methods Literature on girls, women and tobacco was reviewed to identify trends and determinants of tobacco use and exposure, the application of gender analysis, tobacco marketing, the impact of tobacco control on girls and women and ways to address these issues particularly in low-income and middle-income countries.

Results Global female tobacco use is increasingly complex, involving diverse products and factors including tobacco marketing, globalisation and changes in women’s status. In high-income countries female smoking is declining but is increasingly concentrated among disadvantaged women. In low-income and middle-income countries the pattern is more complex; in several regions the gap between girls’ and boys’ smoking is narrow. Gendered analyses and approaches to tobacco control are uncommon, especially in low-income and middle-income countries.

Conclusions Tobacco control has remained largely gender blind, with little recognition of the importance of understanding the context and challenges of girls’ and women’s smoking and secondhand smoke exposure. There has been little integration of gender considerations in research, policy and programmes. The present work makes a case for gender and diversity analyses in tobacco control to reflect and identify intersecting factors affecting women’s tobacco use. This will help animate the WHO Framework Convention on Tobacco Control’s concern for gender specificity and women’s leadership, and reduce the impact of tobacco on women.

INTRODUCTION

Tobacco use, particularly cigarette smoking, has long been recognised as an important threat to girls’ and women’s health in high-income countries (HICs) and is increasingly recognised as an important threat to girls’ and women’s health in low-income and middle-income countries (LMICs) where the epidemic is growing. This health threat has three main facets: tobacco use by women, exposure to secondhand smoke (SHS) from male smokers and the diversion of family resources from food, shelter, healthcare and education to purchase tobacco products.

The past 20 years have seen numerous calls for action on women and tobacco, and for considering the impact of tobacco on maternal and child health and on women’s economic well-being.1–11 However, tobacco control in HICs and LMICs has remained largely gender blind. There has been little recognition of the importance of understanding the context and challenges of girls’ and women’s smoking and exposure to SHS, and the increase in women’s smoking in LMICs.1 6–12 Thus, many opportunities for knowledge generation and effective responses to women’s tobacco use remain lost or overlooked.

While the omission of gender affects our understanding and response to women’s and men’s tobacco use, this paper focuses on girls and women. We also focus largely on cigarette smoking as accurate data on women’s smokeless tobacco use are available for only a minority of countries. In this paper we describe what is known about patterns, trends and determinants of girls’ and women’s tobacco use and SHS exposure, the importance of gender analysis, the marketing of tobacco to girls and women, the impact of tobacco control and potential future directions in addressing these issues, particularly in LMICs.

GIRLS’ AND WOMEN’S TOBACCO USE

The global prevalence of smoking is currently far higher among men than women, 41.1% versus 8.9% in 200513 (table 1). However, global male smoking rates have peaked and are on the decline while women’s rates are still rising.14 Furthermore, the gap between men’s and women’s smoking prevalence is small in the regions of the Americas and Europe, and in high-income and upper-middle-income countries. In contrast, in the majority of low-income and low-middle-income countries (and in the regions of Africa, Southeast Asia, Eastern Mediterranean and Western Pacific) women’s smoking prevalence remains under 5%. However, regional and individual country estimates often mask vast disparities in women’s prevalence between and within countries, due to such factors as socioeconomic status (SES), educational attainment, race/ethnicity and geography. Prevalence data show that despite important regional differences, the gap between boys’ and girls’ cigarette smoking is far narrower than that between adult men and women in all regions (table 2).15 16

Accurate data on tobacco use during pregnancy and women’s SHS exposure are available for only a minority of countries.12 17 Current global trends indicate that smoking by women is on the rise and is increasingly associated with disadvantage, whether measured by education, income or other indicators of social exclusion.18–20 In countries with the longest history of women’s smoking such as the USA, Canada, Australia and in Western Europe, smoking...
associated with increases in smoking. Young urbanised women and political participation) and smoking has been positively linked between gender empowerment (measured by economic cigarette purchasing power) and increasing educational status increasing gross domestic product in LMICs (which increases economic independence, concluded that there was no support for a causal relationship between increased equality and increased smoking among women in HICs. Strategies aimed at addressing the smoking epidemic in women therefore need to be grounded in a multifaceted understanding of women’s smoking patterns and trends, and how gender intersects with social position, identity, ethnicity and religion.27

is already concentrated in the most disadvantaged groups. In several European countries, including the UK, Norway and Spain, the highest smoking uptake rates are now seen in disadvantaged girls.22

A recent analysis of World Health Survey data from 50 countries19 shows how tobacco use is spreading from HICs to LMICs, particularly among disadvantaged groups, and how these trajectories differ by gender, age and stage of diffusion of smoking in a country (as described in the four-stage cigarette smoking epidemic model of Lopez and colleagues23). This analysis reveals that the key drivers of the tobacco epidemic such as increasing gross domestic product in LMICs (which increases cigarette purchasing power) and increasing educational status (which increases awareness of health risks) have a differential impact on women and men, and are mediated by gendered social, cultural and economic factors. These factors include social norms and restrictions on women’s smoking, as well as shifts in women’s social and economic status.

Women’s emancipation and increases in status have long been associated with increases in smoking. Young urbanised women are often among the first to adopt cigarette smoking in LMICs. The link between gender empowerment (measured by economic and political participation) and smoking has been positively correlated,24 establishing that as the gender empowerment measure for women rises, so does the gender smoking ratio. While the correlation of women’s status with smoking uptake may explain initiation, it may not explain the economic and gendered patterns of smoking once diffusion has occurred.25 For example, Pampel,26 using a complex set of indicators to measure a ‘gender-equality’ hypothesis that included social and cultural as well as economic independence, concluded that there was no support for a causal relationship between increased equality and increased smoking among women in HICs. Strategies aimed at addressing the smoking epidemic in women therefore need to be grounded in a multifaceted understanding of women’s smoking patterns and trends, and how gender intersects with social position, identity, ethnicity and religion.27

### THE HEALTH IMPACT OF WOMEN’S TOBACCO USE AND EXPOSURE TO SHS

Although women and men who smoke share excess risks for many diseases, women also experience risks that are unique to them or that are higher in women compared to men.4 28 29 Smoking is causally linked to cervical cancer, a leading cause of death from cancer among women in LMICs.30 Some evidence links active smoking and exposure to SHS to increased risk of breast cancer.31 A recent systematic review and meta-analysis found that, compared with non-smokers, women smokers have a 25% greater RR of coronary heart disease than male smokers, after controlling for other cardiovascular risk factors.32 The negative health impact of maternal smoking on fetal development has been well documented.33

### LIMITATIONS IN RESEARCH ON GIRLS, WOMEN AND TOBACCO

While there has been an upsurge in research on gender and tobacco over the past two decades, including studies on the health effects of smoking and the determinants of smoking uptake and cessation,28 39 this has been limited in several important respects.

### Defining gender

To date, studies have been limited in their treatment and understanding of sex and gender. Biological and physiological factors (‘sex’) and social, economic and cultural influences (‘gender’) have, when considered at all, been conceptualised and treated as distinct and separate domains. However, recent theoretical arguments have shown that sex and gender are often inseparable concepts and that their effects are interactive and

### Table 1 Prevalence of smoking any tobacco product, adults ≥15 years, 2006

<table>
<thead>
<tr>
<th>Region/Age Group</th>
<th>Male ≥15 years*</th>
<th>Female ≥15 years*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africa</td>
<td>3.1</td>
<td>1.9</td>
</tr>
<tr>
<td>Americas</td>
<td>4.5</td>
<td>1.8</td>
</tr>
<tr>
<td>South-East Asia</td>
<td>6.1</td>
<td>1.9</td>
</tr>
<tr>
<td>Europe</td>
<td>8.2</td>
<td>1.8</td>
</tr>
<tr>
<td>Eastern Mediterranean</td>
<td>6.5</td>
<td>1.8</td>
</tr>
<tr>
<td>Western Pacific</td>
<td>8.6</td>
<td>1.8</td>
</tr>
</tbody>
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### Table 2 Cigarette smoking and other tobacco product use, girls and boys, aged 13—15 years, 1999—2008

<table>
<thead>
<tr>
<th>Region</th>
<th>Percentage prevalence cigarette smoking, (susceptibility), * girls</th>
<th>Percentage prevalence cigarette smoking, (susceptibility), * boys</th>
<th>Percentage prevalence other tobacco use, girls</th>
<th>Percentage prevalence other tobacco use, boys</th>
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<tbody>
<tr>
<td>WHO region</td>
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<tr>
<td>Africa</td>
<td>5 (14)</td>
<td>14 (17)</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td>Americas</td>
<td>15 (25)</td>
<td>14 (23)</td>
<td>7</td>
<td>12</td>
</tr>
<tr>
<td>Eastern Mediterranean</td>
<td>2 (14)</td>
<td>7 (20)</td>
<td>9</td>
<td>14</td>
</tr>
<tr>
<td>Europe</td>
<td>17 (33)</td>
<td>21 (26)</td>
<td>8</td>
<td>12</td>
</tr>
<tr>
<td>South-East Asia</td>
<td>2 (13)</td>
<td>10 (16)</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>Western Pacific</td>
<td>8 (13)</td>
<td>19 (15)</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>Total</td>
<td>7 (19)</td>
<td>12 (19)</td>
<td>8</td>
<td>12</td>
</tr>
</tbody>
</table>


†Includes pipes, waterpipes, cigar, smokeless tobacco, and bidis.
blended. Sex and gender also each exist on continua, making the notion of ‘differences’ less relevant than developing more nuanced measures of sex/gender factors, particularly in research design. These advances pose theoretical and methodological challenges for gender and diversity analysis in tobacco control. Potential strategies for addressing these challenges include the use of relevant training manuals and texts, requiring or providing guidelines for consideration of sex, gender and related factors for research funding, as is done by the Canadian Institutes for Health Research and US National Institutes of Health, or for publication in tobacco control journals. Similar approaches are relevant to practice and programme design—particularly those that engage gender and diversity considerations in assessing better practices or developing clinical or public health guidelines (eg, the WHO report Gender Analysis in Health: A Review of Selected Tools).

Gender and diversity

In addition, relatively few studies of women smokers have explored the ways in which gender intersects with other dimensions of diversity including age, disadvantage, religion, SES, occupation and race/ethnicity to create conditions and complexities that increase the risk of tobacco use and/or SHS exposure. Some research in HICs has used quantitative and qualitative methods to undertake nuanced and sophisticated analyses which explore tobacco use and exposure in the context of the diversity of girls’ and women’s lives, circumstances and experiences. These approaches have shown how women’s risks of becoming and remaining smokers relate to gendered and disadvantaged life trajectories and biographies that often include early pregnancy, lone motherhood, deprivation and violence. In addition, women with the least success in quitting often live in environments where smoking is normative and there is little support for quitting.

Smoking initiation studies have found that the meanings that young people attach to smoking are gendered and smoking may act as a marker of gender and identity. Gender differences have been found in HICs with regard to the perceived value of smoking in relation to, among other factors, affect control, creating and maintaining social relationships, body image, weight control, enhancing social identity and status (social capital), and as self-medication. Some studies have also found that women have greater difficulty quitting compared to men. Although the mechanisms are not well understood, they are probably related to biological and psycho-social aspects of addiction and dependence. Several studies have found that nicotine replacement therapy is less effective in women than men. Non-nicotine cues to smoke appear to be more important for women than for men, and smoking has a perceived functional value in the lives of low-income single mothers, who use smoking to cope and provide care in disadvantaged circumstances, making cessation more difficult.

A narrow focus on HICs

Most studies have been carried out in HICs where the patterns and trajectories of girls’ and women’s tobacco use and SHS exposure differ from those in LMICs. Few studies have explored the interaction between gender and smoking uptake and/or cessation in LMICs. While studies conducted in the Philippines and Indonesia found similar reasons for female smoking uptake and continuation as in HICs, few studies have explored protective factors within specific cultural contexts that promote resiliency in women and girls and serve to inhibit smoking. Studies in HICs have shown how unequal power relationships and restricted living circumstances can limit women’s ability to reduce exposure to SHS for themselves and their children, arising from smoking by others (usually men) in the home and workplace. In LMICs, where women’s social, political and economic power is often limited, women have even less ability to protect themselves and their children from exposure to SHS from male smokers.

MARKETING OF TOBACCO TO GIRLS AND WOMEN

The limited response of the tobacco control community in applying gender and diversity based analyses to tobacco control contrasts starkly with the comprehensive gendered approach of the tobacco industry. Given their low smoking prevalence, women and girls in many countries represent a vast ‘untapped market,’ and a prime target of the tobacco industry. The tobacco industry appears increasingly focused on LMICs, where it has long been culturally inappropriate for women and girls to smoke. In developing its marketing campaigns, the tobacco industry builds on over 80 years of experience of successful gender sensitive and specific marketing to women in HICs. In the early 20th century, cigarette companies in HICs learnt that ‘cultural mores may be shifted by design’ to ‘engineer’ the consent of women smokers. Numerous studies have shown that global advertising to women seeks to link smoking to desirable female attributes such as independence, modernity, glamour, stress relief and weight control.

Increasingly in LMICs, upscale young women feature in cigarette advertisements. In Indonesia, recent advertisements for a popular young adult brand feature an affluent, attractive, modern woman using a cell phone. The caption, ‘Yesterday is gone, Clas Mild is Today,’ implies that smoking is a behaviour to which a modern woman should aspire. Depicting women in tobacco advertising in cultures where women do not smoke helps to normalise the association between women and tobacco.

Brands also employ particular features such as cigarette size, ‘taste,’ images and packaging to attract women. In recent years in HICs, brands including Vogue, Silk Cut and Virginia Slims have introduced ‘purse packs’—small lipstick sized boxes containing ‘Superslim Light’ cigarettes which are half the size of regular cigarettes (figure 2). Slim cigarettes in feminised packs are increasing in LMICs. In Indonesia in 2009, the first superslim clove cigarette was introduced for women (A-Volution), which is packaged in a lipstick tube shape. More than 100 brands of slim and super slim cigarettes are available in the Russian Federation, some featuring packs designed by fashion designers (figures 3 and 4).

Linkages between modernity and smoking feature prominently in tobacco advertising. In the Philippines and South Korea, modernisation tends to narrow gender differences in youth smoking. Thus, continuing modernisation throughout Asia may increase smoking prevalence among young women, a pattern that is already evident in some countries. Indeed, tobacco companies adapt their marketing strategies to cultural contexts, including women’s social and economic position in particular societies.

A recent review of studies largely from HICs documented a causal relationship between tobacco advertising and promotion and increased tobacco use, as well as between exposure to depictions of smoking in movies and youth smoking initiation. This emphasises the importance of bans and restrictions on tobacco industry marketing, as required by the WHO Framework Convention on Tobacco Control (FCTC), to constrain the potential for growth in women’s and girls’ tobacco use in LMICs.
THE IMPACT OF TOBACCO CONTROL POLICIES ON WOMEN AND GIRLS

In HICs tobacco control policies have had a major impact in reducing smoking prevalence, though these declines have not been equitable across population subgroups. There is evidence, mostly from HICs that elements of comprehensive tobacco control policies that reduce overall tobacco use can have different and sometimes more limited impacts among girls and women, particularly those of low SES.84

Price and taxation

Price increases reduce smoking prevalence and consumption in young people and adults.85 86 No consistent gender differences have been found among adults, however, a systematic review of US studies found young men were more responsive to price than young women.85 Studies in HICs find that low SES smokers are more price responsive than those of higher SES.86 However, in many LMICs, cigarettes are available by the single stick; thus increases in price and taxation may be less likely to have a significant impact since cost increases may not be as obvious to the user.

Smoke-free policies

Studies in HICs have found that where workplace policies are not comprehensive, low SES occupations such as the female-dominated hospitality industry are the least protected from SHS.65 In California, a US state which has comprehensive smoke-free legislation, low SES women reported higher workplace exposure to SHS, more exposure to SHS in the home and less control over home smoking policies than high SES women.87 Comprehensive smoke-free public places legislation can also encourage home smoking restrictions and reductions in children’s exposure to SHS. However, this is not always the case; research in Scotland revealed that following the introduction of comprehensive smoke-free legislation, children’s SHS exposure

![Clas Mild advertisements from Indonesia.](image1)

![Cigarette brands, including slim and superslim versions, aimed at women in Europe.](image2)

![Advertisement and examples of packaging for Vogue cigarettes in Russia.](image3)
Notably, strong evidence from several LMICs documents that women have low awareness of the health risks of smoking and have misconceptions about the harm of ‘light/low tar’ cigarettes. Studies in China, India, Indonesia and the Democratic Republic have found that while people (including health professionals) were generally aware that smoking is harmful they were less aware of specific health risks beyond cancer, particularly for those smoking at relatively low levels.\textsuperscript{90, 92–95} One study in China found that over two-thirds of female smokers thought that ‘light’ or low tar cigarettes were less harmful than regular cigarettes,\textsuperscript{96} while another Chinese study found that awareness of ‘cigarettes made for women’ (women’s brands) and believing that they were less harmful to health predicted smoking experimentation in female students.\textsuperscript{97} With regards to smoking during pregnancy, a study in Pakistan found that only 7% of women knew that smoking could lead to low birth weight; only one third of women knew that smoking caused lung disease.\textsuperscript{98} Similarly, a study in Zambia and the Democratic Republic of Congo found that pregnant women’s knowledge of the health risks of smoking and SHS exposure was very limited.\textsuperscript{99} A study in South Africa found that over 45% of pregnant women who were smokers at the beginning of their pregnancy continued to smoke while pregnant. While most had some knowledge that smoking was harmful to their own health, they knew little about the impact of smoking during pregnancy.\textsuperscript{100} Additionally, in HICs and LMICs, insufficient attention has been paid to women’s indigenous beliefs about smoking. In particular, the risk of having a low birthweight baby is often not a major concern for women, who may be unaware of the importance of normal birth weight, and may view quitting smoking as more stressful for the fetus than continuing to smoke.\textsuperscript{47, 100}

**INTEGRATING GENDER AND DIVERSITY-BASED APPROACHES TO TOBACCO CONTROL**

In light of these analyses and trends, tobacco control strategies aimed at stopping and ultimately reversing the smoking epidemic in women need to be grounded in a multifaceted understanding of women’s smoking patterns. This would take into account accelerated diffusion of cigarette smoking, gender inequities and gender relations, disadvantage and vulnerability to tobacco use. It would require more nuanced indicators of women’s empowerment and emancipation and understanding of how gender intersects with other aspects of diversity such as social position, identity, ethnicity and religion.\textsuperscript{28} Given the lack of understanding of the harm of tobacco (particularly in LMICs), women-specific tobacco prevention education and cessation programmes need to be developed which clearly address misconceptions and local concerns.

Tobacco control therefore urgently needs to develop a more robust research base for developing such interventions for girls and women. In HICs, considerable research has focused on preventing and reducing tobacco use by women, especially pregnant women. In contrast, in LMICs, few studies have addressed women’s tobacco use and SHS exposure.\textsuperscript{12} While it has been established that protective factors that operated in many LMICs, including cultural and economic constraints on women’s smoking, are eroding because of globalisation and modernisation, little documentation exists on the woman-specific effects of these changes.

There is a need for quantitative and qualitative research at the individual, the community and the healthcare settings levels. Qualitative research methods, informed by gender and diversity considerations, such as participant observation, interviews and

**Figure 4** Russian advertisements for Glamour Superslims on Moscow Metro, and advertising free gifts.
focus groups, would generate a deeper understanding of the complexity of social contextual forces which contribute to reported changes in women’s tobacco use and SHS exposure in LMICs. Additionally, community-based participatory research in which community members work side by side with researchers to develop theory-based, culturally relevant tobacco control strategies, including policy approaches, would be useful.

Community engagement fosters research and capacity building and has the potential to promote ownership and sustainability by mobilising communities to be active participants in tobacco control.

Applying a sex, gender and diversity based analysis to tobacco control research will enable measures, policies and programmes to be developed which are more salient to girls and women’s lives, experiences and circumstances. For example, gender sensitive smoking prevention could help girls develop positive self-images and peer approval without cigarettes. Reassessing nicotine dependence measures such as the Fagerstrom test to take sex, gender, ethnic and ‘race-related factors into account will improve treatment options for women and diverse populations. Multiple approaches are needed to denormalise tobacco use for women and girls. Health professionals in LMICs need training on the sex and gender specific health harms of tobacco, as well as gender sensitive skills training for approaching women about their tobacco use or exposure to SHS in every clinical encounter. In all countries, programmes should aim to empower women to reduce their exposure to SHS which may largely be from men’s smoking.

A smoke-free household initiative movement has begun in India and Indonesia. Although women in these countries involved in this movement initially expressed little self-efficacy to change smoking behaviour among men, they recognised, following culturally and gender sensitive health education on the harm of SHS, that a community-wide ban on household smoking might be effective. Now, Project Quit Tobacco International is fostering smoke-free homes, framing household smoking bans as an expression of collective responsibility and cultural pride. SHS is framed as a family health issue and an act of caring and being responsible for one’s family.

Gender sensitive approaches to reducing SHS in the home would recognise that in HICs exposure is greatest in low SES households, often led by women. Rather than increasing women’s guilt and shame about exposing their children to SHS, a gender-sensitive approach would acknowledge women’s desire to protect their children’s health, and support them in coping with caring for their families in restricted circumstances while reducing SHS in the home.

CONCLUSIONS
Increased female tobacco use poses serious threats to women’s health, maternal and child health, and family health and economic well-being. The global picture of female tobacco use is increasingly complex, involving a range of tobacco products and responding to diverse factors including tobacco marketing, globalisation, urbanisation, modernisation and shifts in women’s status and roles. The challenge for the 21st century is to prevent a further rise and reduce currently high levels of tobacco use by women, while ensuring that women’s status continues to improve,

What this paper adds
- Tobacco companies are using gendered approaches to target girls and women.
- However, gendered analyses and approaches to tobacco control research, policy and practice are uncommon, especially in low-income and middle-income countries.
- This paper argues for gender and diversity analyses in tobacco control and illustrates how this should be used to reduce the impact of tobacco on women.

REFERENCES
Women and tobacco: part of the bigger picture

The article on women and tobacco by Amos et al provides a comprehensive overview of issues relating to the use of tobacco and the problems of tobacco control in girls and women. The authors highlight the problem of the more disadvantaged women in high income countries and the more complex situation with girls’ smoking rates in low and middle income countries (LMICs).

However, the solutions suggested to the women’s problems that are highlighted raise issues particularly in LMICs of where the often sparse tobacco control money should be preferentially spent. The authors state that the smoking rates in some developing nations are less than 5%, but given that the regions spent. The authors state that the smoking rates in some developing nations are less than 5%, but given that the regions

The importance of price increases in reducing smoking prevalence is acknowledged by the authors but they indicate that the sale of single sticks can reduce the impact of this measure. Article 16.3 of the FCTC prohibits this and what needs to be stressed is the importance of multiple measures being introduced simultaneously rather than one measure at a time. With children at younger ages starting to smoke, less affordable cigarettes and plain packs with graphic warnings will be required together to address this issue.

In LMICs prioritising anti-tobacco measures to first implement those which will have the greatest impact is vital. While gender-sensitive measures to reduce secondhand smoke and achieve smoke-free homes is an important goal, the issue is whether in countries which have not yet fully implemented FCTC Article 8 to ensure public and workplaces are smoke-free, whether in countries which have not yet fully implemented FCTC Article 8 to ensure public and workplaces are smoke-free, effective measures such as advertising bans. This would be useful. However, this type of research is expensive when increasing numbers of women are in the workforce and the problems of tobacco control in girls and women.1 The importance of price increases in reducing smoking prevalence is acknowledged by the authors but they indicate that the sale of single sticks can reduce the impact of this measure. Article 16.3 of the FCTC prohibits this and what needs to be stressed is the importance of multiple measures being introduced simultaneously rather than one measure at a time. With children at younger ages starting to smoke, less affordable cigarettes and plain packs with graphic warnings will be required together to address this issue.

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