Tobacco promotion restriction policies on social media

Grace Kong,1 Linnea Laestadius,2 Julia Vassey,3 Anuja Majmundar,4 Andrea M Stroup,5 Helen I Meissner,6 Ziyad Ben Taleb,7 Tess Boley Cruz,3 Sherry L Emery,8 Dan Romer9

ABSTRACT

Tobacco promotion is prolific on social media, with each platform setting their own restrictions on tobacco promotion and sales. We evaluated the policies related to tobacco product promotion and sales on 11 sites that are popular with youth in May 2021: Discord, Facebook, Instagram, Pinterest, Reddit, Snapchat, TikTok, Tumblr, Twitch, Twitter and YouTube. Nine of the 11 sites prohibited paid advertising for tobacco products. However, only three of them clearly prohibited sponsored content (ie, social influencers) that promotes tobacco. Six platforms restricted content that sells tobacco products and three tried to prohibit under-age access to content that promotes or sells tobacco products. Although most platform policies prohibited paid tobacco advertising, few addressed more novel strategies, such as sponsored/influencer content and few had age-gating to prevent youth access. There is a pressing need to regulate tobacco promotion on social media platforms.

INTRODUCTION

Tobacco marketing drives demand for tobacco products, among both youth and adults.1 The effects of tobacco marketing are so robust that governments around the world imposed strict limits on tobacco marketing. In the USA, the Master Settlement Agreement (MSA) in 1998 restricted the promotion of cigarettes and smokeless tobacco on billboards, magazines, television, movies and sponsored events.2 However, a variety of tobacco products (eg, cigars, hookah, e-cigarettes and pipe tobacco) and novel marketing strategies (eg, social media marketing) are not governed by the MSA.3 4

By 2004, 168 countries had signed onto the 2003 WHO Framework Convention on Tobacco Control (FCTC), which banned ‘tobacco advertising, promotion, and sponsorship to the fullest extent possible given national constitutional principles’.5 In the USA, the 2009 Tobacco Control Act (TCA) allowed the U.S. Food and Drug Administration (FDA) to regulate manufacturing, distribution and marketing of tobacco products.6 In the face of conventional tobacco advertising, promotion and sponsorship bans, tobacco companies have used other less-regulated channels to promote their products. In particular, the rapidly changing digital media environment, such as social media, has been exploited by the tobacco industry to promote their products.7

WHAT IS ALREADY KNOWN ON THIS TOPIC

⇒ Current regulations are insufficient to restrict tobacco product promotion on social media.
⇒ Some social media platforms have begun to voluntarily restrict tobacco promotion.
⇒ Less known is whether social media’s self-imposed regulations are sufficient in restricting tobacco promotion.

WHAT THIS STUDY ADDS

⇒ Most platforms prohibited paid ads, but few addressed novel forms of tobacco promotion and prohibited youth access.
⇒ Some social media platforms did not have any restrictions on tobacco promotion.

HOW THIS STUDY MIGHT AFFECT RESEARCH, PRACTICE OR POLICY

⇒ A comprehensive restriction policy and enforcement are needed to prohibit tobacco promotion on social media.

Tobacco marketing on social media appeals to youth

Social media have become a significant conduit for tobacco marketing and have created a tobacco-permissive milieu that is attractive to youth.6 7 We use the term ‘social media’ to encompass a diverse selection of multimedia (text-based, image-based and video-based) platforms, which includes more traditional ‘social network’ communities like Facebook, Tumblr and Twitter and other platforms that are more often used as ‘media sharing networks’, such as Instagram, YouTube, Snapchat and TikTok. The social media ecosystem continues to develop, and more specialised social media platforms, such as Discord and Twitch, are being introduced with a focus on microcommunities such as gamers. Discord is a messaging platform that was originally directed at video gamers; however, its reach has broadened to other communities.6 Twitch is a video streaming platform that focuses on video game live streaming but also includes other content such as e-sports and music.8 9 These newer platforms can appeal to youth, particularly among video gamers, mainly because of their highly interactive and community-minded nature.8 9 Taken together, these social media platforms enable engagement with tobacco content through common features such as commenting, ‘liking’, messaging and adding other users as ‘friends’ in their own network.
Social media is highly appealing to youth around the globe. Emerging research shows that youth are increasingly engaging with online tobacco marketing; for instance, among U.S. youth, engagement with online tobacco marketing increased from 8.7% to 20.9% (2013/2014 to 2014/2015). This finding is concerning because exposure to online marketing, including on social media, is associated with subsequent tobacco use initiation among youth and young adults who never used tobacco, as well as with increased frequency of use, progression to poly-tobacco use and decreased cessation among youth who use tobacco products. Furthermore, a scoping review showed that tobacco promotional content is common on social media accounts across different countries such as USA, New Zealand, Australia and Canada. This collective evidence suggests that current restriction policies on tobacco promotion may be insufficient and a closer look at the current regulatory landscape is warranted.

**Evolving tobacco product marketing strategies on social media**

Tobacco promotion on social media can be grouped into three types: paid media (eg, promotion through paid online advertisements), earned media (ie, promotion through a third party such as press mentions, consumer-generated content rather than through a company) and owned media (ie, promotion through a tobacco brand’s direct channel such as their own website or social media account). Promotion of tobacco products on social media platforms may use a combination of these types of marketing to permit a high level of engagement with users.

Examples of commonly found tobacco promotion on social media can be summarised as the following: (1) Pages, posts or accounts created by the tobacco brands or tobacco retailers and features tobacco products and other news/events (owned media). (2) Social influencers, who are individuals who have a large network of followers in niche areas who promote a tobacco product by incorporating the product in their own social media content (paid/earned media). (3) Paid advertisements by tobacco companies that pop up in a viewer’s social media feed or run as banners (paid media). (4) Third party promotion of the tobacco on their social media (eg, bars featuring hookah in their promotional posts, planned product promotion on music videos that are shared on social media (earned media). (5) Supporters of tobacco products reacting to (ie, using emojis or giving ‘likes’) on threads devoted to protobacco content or reposting links to protobacco product content such as websites/articles on their own social media pages. These promotional strategies may include direct (eg, ads featuring products/sales) and indirect methods (eg, tobacco industry advertising or promoting political agendas, corporate messaging or social issues such as #BlackLivesMatter and International Women’s Day). Using the USA as an example, some of these promotions (eg, brands/retailers promoting tobacco products on social media) may fall under the FDA’s marketing restriction policies but they continue to be present on social media.

There is a pressing need to ensure that policies that restrict tobacco marketing both at the individual platform and at the federal level are appropriate and aligned. Social media platforms have recently come under increasing scrutiny for their lack of oversight of content that is harmful to public health. To their credit, social media platforms have begun to self-regulate paid advertisements on their platforms. For example, Facebook has policies that restrict the advertising of products that are detrimental to health including alcohol and tobacco products. However, the adequacy of such policies across major social media platforms as they pertain to the promotion of tobacco products has never been thoroughly examined. For instance, it is unclear whether social media platforms’ policies pertain only to paid advertisements or to other forms of promotions such as earned or owned media, which function similarly to paid advertisements. These forms of promotions are still commercial communication that aims to promote the use of tobacco products. Thus, we sought to identify social media platforms’ self-imposed policies to determine whether they have restrictions on tobacco promotion and sales.

**METHODS**

We examined tobacco-related policies on social media platforms with current or emerging popularity among U.S. youth: Discord, Facebook, Instagram, Pinterest, Reddit, Snapchat, TikTok, Tumblr, Twitter, YouTube and Twitch. In May 2021, each platform was visited and terms of service and advertising policies were downloaded and reviewed for language related to tobacco products. A detailed description of social media’s policies on the restriction of tobacco promotion is reported in online supplemental table 1. These policies were reviewed by two research members to inductively identify the types of restrictions present, as well as any language about instances where tobacco products are explicitly allowed to be promoted on the platform. Once restriction types were identified, each social media platform was systematically reviewed for each restriction type by two research members.

Across social media platforms, we categorised the restrictions into four categories: (1) paid advertisement, (2) promotion of tobacco products, (3) sale of tobacco products and (4) underage access (table 1). Restrictions on paid advertisement included prohibiting paid advertisements for tobacco products, tobacco use venues (eg, hookah lounges) and tobacco events. Restrictions on promotion included the platform’s algorithm not ‘pushing’ or not recommending tobacco promotional content to its users and the prohibition of the creation of influencer posts with tobacco content. Restrictions on sales included prohibiting tobacco sales on the brand/vendor’s social media account or platform ‘marketplaces’. Restriction on underage access included promotional content to be shown only on age-verified accounts. Please see online supplemental table 1 for the policies of each platform that pertain to specific tobacco products when provided.

**RESULTS**

**Paid tobacco ads**

Nine social media platforms explicitly prohibited paid advertising for tobacco products. However, definitions of tobacco products varied across platforms; for example, Tumblr allowed paid advertising of e-cigarettes when ‘legal in the target market’. YouTube prohibited paid tobacco ads and limited the capacity of videos promoting tobacco from being monetised by labelling them ‘limited or no ads’. Video creators can earn money by sharing the revenues of the ads placed on their videos and videos have less chance of being chosen for advertising if they are labelled as ‘limited or no ads’. Newer platforms such as Twitch and Discord did not have any tobacco promotion policies.

Six social media platforms prohibited paid advertising for tobacco use in venues such as hookah lounges, and two social media platforms prohibited paid ads for tobacco events. Some prohibitions on tobacco product advertising also included promoting tobacco product use, which may be interpreted to include events and venues focused on tobacco use.
Interestingly, the newest social media platforms, Discord and TikTok, having language that clearly prohibits sponsored, endorsed or partnership-based content that promotes tobacco products.

Sales
Six platforms prohibited or limited content that attempts to sell tobacco products, with varying policies. For example, Facebook and Instagram prohibited tobacco sales using official platform commerce tools, but explicitly allowed age-gated posts that sell tobacco products when posted by an account representing a brick-and-mortar store or ‘legitimate website or brand’; Pinterest and Reddit restricted user-to-user sales of tobacco products but did not explicitly state rules about sales from licensed retailers and YouTube prohibited posting any content that directly sells, links to, or facilitates access to tobacco products.

Underage access
Three platforms had specific language about age-gating on tobacco promotional content. Age-gating refers to restricting access to social media content unless an individual is signed into an age-verified account. As stated above, Facebook and Instagram restricted posts from stores that sell tobacco products to underage minors on their platforms. YouTube’s language is broader than Facebook and Instagram and indicates that content that promotes a product that contains nicotine may be age-gated or removed.

DISCUSSION
As of May 2021, the majority of the self-imposed social media platform policies prohibited paid tobacco advertising but failed to address more novel strategies, such as sponsored/influencer content or promotional content on brand and retailer accounts. Interestingly, the newest social media platforms, Discord and Twitch, were the most lenient in terms of restricting their tobacco promotional content. Paid advertisements represent only part of the concern with tobacco promotion on social media. Unpaid promotional content posted by retailers and brands on their own accounts, sponsored posts made by influencers and indirect promotion of tobacco products by incorporating political messaging and social issues, are increasingly concerning.

The prohibition of tobacco product sales varied, with some prohibiting sales on their official commerce platforms and others prohibiting user-to-user transactions, which could include gifts involving tobacco. Although these general sales prohibitions may restrict youth from purchasing, policies were not consistent across platforms and there were some cases where selling was allowed. For instance, Facebook and Instagram did not allow selling tobacco products in their “marketplace” but allowed brands and retail stores to sell tobacco products on their aged-gated posts. Facebook, Instagram and YouTube were the only platforms that explicitly had an age-gating policy that reflected FDA’s policy to prohibit the sale of tobacco products to minors, and no platforms mentioned mandated warning statements.

Violation of self-imposed tobacco marketing restrictions is common
It should be stressed that having a policy in place is not a guarantee that the policy will be enforced. Violation of platform...
policies is common as can be seen in examples shown in figures 1 and 2. Figure 1 shows an example of a violation of social media platform policy that prohibits influencer posts with tobacco content. It shows a known influencer giving away an e-cigarette product through soliciting social media engagement (ie, liking, commenting). Figure 2 shows a violation of another social media platform policy that requires content that promotes a product that contains nicotine to be age-gated or removed and prohibits the selling of the product. The content shown in this figure was accessed through a non-age verified account and this post had an external link where the nicotine product can be purchased.

Age-gating is one way to restrict youth access; however, prior research suggests that age-gating policies are not effectively enforced for tobacco-related pages on social media platforms and sponsored posts do not always disclose financial relationships or make use of official branded post tools that would identify them on a given platform. It is also unclear if platforms enforce policies consistently under different jurisdictions internationally. Additionally, age-gating is only a minor step towards preventing youth access since circumventing age restrictions is easy; underage youth can simply lie about their age to create and access age-restricted content on social media. Although platforms are now exploring novel ways of ensuring more accurate age verification, it is not yet clear how effective these strategies will be.39

Need for comprehensive tobacco marketing restrictions on social media

Prioritising tobacco marketing restrictions and enforcement of these restrictions on social media is crucial because unlike the traditional one-way media (eg, television, radio, newspaper), social media offers the tobacco industry a powerful interactive tool to appeal to younger generations of customers, including never users, and to renormalise tobacco use by associating it with youth culture. Indeed, the heavy presence of tobacco marketing on various social media platforms has been well-documented. These tobacco promotional activities represent a significant public health concern because of the popularity of social media use among youth. Further, exposure to tobacco marketing on social media is associated with subsequent use of tobacco products among youth and young adults.

Despite the variety of tobacco promotion that is occurring on social media, FDA’s current restrictions on tobacco marketing (ie, requiring health warnings, prohibiting the sale and distribution of products with unsubstantiated modified risk tobacco product health claims or false or misleading claims on labelling or advertising and prohibiting the distribution of free samples) do not apply to all forms of tobacco promotion. Nevertheless, the FDA’s recent directives seem to extend to influencer marketing. In 2019, the FDA and the U.S. Federal Trade Commission jointly issued warning letters to four companies who were using social media influencers to market e-liquids for failure to include nicotine warning labels in their efforts to prevent youth tobacco use, particularly e-cigarette use. In 2018, the WHO established a working group to develop specific guidelines to address [...] the depiction of tobacco in the entertainment media [...] taking account of technological advances [...] such as the Internet and mobile communications. This group concluded that the original provisions of the 2003 FCTC adequately cover social media promotion of tobacco products and acknowledged the need to address cross-border tobacco promotions on digital media.

Potential solutions to restrict tobacco promotion on social media

It is important that regulations are up to date and flexible to keep pace with the current tobacco marketing that is occurring on social media. Currently, the TCA gives the FDA general authority to regulate tobacco marketing, including on social media; however, it does not explicitly mention social media, which indicates that further actions can be taken. To this end, the FDA can specifically restrict tobacco advertising in youth-appealing media and events, which include social media. The FDA can also require tobacco companies to maintain a continuously updated public database of all their social media content posted from their official social media accounts (eg, shared paid reviews, cross-promotions). Such requests may also include content originating from affiliates such as sponsored partners’ social media accounts (eg, targeted audience characteristics per sponsored post, dollar amount spent for a sponsored review) and their associated meta-data (eg, list of followers). Public disclosure of social media marketing may allow community members, including researchers, to monitor tobacco promotion on social media.

In 2018, the WHO established a working group to develop specific guidelines to address [...] the depiction of tobacco in the entertainment media [...] taking account of technological advances [...] such as the Internet and mobile communications. This group concluded that the original provisions of the 2003 FCTC adequately cover social media promotion of tobacco products and acknowledged the need to address cross-border tobacco promotions on digital media.
media to inform federal and social media platform policies. This effort may facilitate timely monitoring of tobacco companies’ social media marketing practices.

Future regulations must consider cross-border advertising of tobacco products. Social media makes it easy for promotional content to be created, shared and viewed in other countries with different jurisdictions and provides an optimal platform for the tobacco industry to circumvent tobacco promotional restriction policies. For example, U.S.-based influencers who promote tobacco content do not exist in isolation; they actively communicate with a network of international influencers via commenting and liking each other’s posts and cross-promoting each other’s content.\(^4\)\(^4\) This can create an international net of tobacco promoters who expose their followers to tobacco promotional content outside of their country’s border. Cross-border tobacco promotion has been less studied by tobacco control researchers because non-native language and locations from other countries often get omitted from surveillance of social media (typically non-English and non-U.S.), which further creates a permissible milieu for cross-border advertising to proliferate. An international effort is needed to prevent the tobacco industry from exploiting this loophole.

Social media platforms have incorporated a wide range of strategies to protect vulnerable populations from harmful content. For example, Twitter prompts users to read an article before retweeting it to their network;\(^4\)\(^5\) Facebook requires ads pertaining to social issues, elections or politics to be accompanied by disclaimers;\(^4\)\(^6\) and Instagram has begun applying informational labels to posts about COVID-19.\(^4\)\(^7\) At the very least, social media platforms can apply informational/warning labels on all tobacco content on their platforms. In addition, platforms should clearly define policies that prohibit promoting and selling tobacco products using both direct and indirect methods (e.g., influencers marketing the product) and explicitly state policies that prohibit youth from accessing tobacco promotional content. Importantly, how these policies will be enforced must be explained. Finally, social media platforms can remove content that is misleading and potentially harmful to public health, as it has done regarding the COVID-19 pandemic. As policies change over time, it will be important for researchers and regulators to revisit the landscape of social media platform tobacco policies.

The recent U.S. Surgeon General Advisory highlighted steps that social media platforms can take to protect public health from misinformation during the COVID-19 pandemic.\(^2\)\(^2\) Like the COVID-19 pandemic, tobacco use is a recognised threat to public health that would justify similar treatment on social media. For instance, similar guidelines can be also applied to restrict tobacco promotion on these platforms including, (1) assess the harms of tobacco promotion on their platforms and take responsibility for the harms that this promotion can cause; (2) offer open access to real-time data to researchers to determine the spread and effects of tobacco promotion; (3) strengthen monitoring of tobacco promotion; (4) prioritise early detection of tobacco promotion; (5) determine what internal policies and algorithms may contribute to tobacco promotion and (6) amplify information from accurate sources about the harms of tobacco products.

In addition to platform-specific policies and efforts, it will be critical to strengthen the regulatory framework around issues pertaining to algorithm-driven exposure to content related to tobacco to limit exposure across all platforms. Research suggests that the platform algorithms are designed to expose audiences to homogenous content over time.\(^4\)\(^8\) It is possible that those who encounter tobacco-related information initially may be exposed to such content even more in the future.\(^2\)\(^2\) The proposed Algorithmic Justice and Online Platform Transparency Act of 2021\(^4\)\(^9\) in the USA would require social media platforms to disclose how they use algorithms and what information they use to run them. By making all social media platforms accountable, this proposed legislation would help protect vulnerable populations, such as youth from being targeted with harmful content, such as tobacco promotional content.

**Summary**

As of May 2021, existing social media platform policies related to restricting promotion and sales of tobacco products are insufficient to restrict the overall proliferation of this content on social media. We examined tobacco promotion policies on social media platforms from the USA; however, it is important to acknowledge that social media reach is broad. Across the globe, 3.6 billion people are using social media and use rate is projected to grow.\(^2\)\(^5\) It is time to keep the tobacco industry accountable so that they stop promoting their products to youth on digital platforms such as social media, and for social media platform leadership and the regulatory authorities to set and enforce strong policies that restrict tobacco promotional content on social media.

**Twitter** Grace Kong @gracekongphd, Linnea Laestadius @LinneaLaestad, Julia Vassey @JVassey, Anuja Majmundar @AnujaMajmundar and Sherry L Emery @sherryemery

**Contributors** Study conception and design: GK, LL, IV, AM, AMS, HIM, ZBT, TBC, SLE, DR. Data collection: LL, IV, ZBT. Analysis and interpretation of results: GK, LL, LV, AM, AMS, HIM, ZBT, SLE, DR. Draft manuscript preparation/edit: GK, LL, IV, AM, AMS, HIM, ZBT, SLE, DR. All authors reviewed the results and approved the final version of the manuscript.

**Funding** This study is a cross-institution collaborative project from the Marketing Influences Special Interest Group (SIG) supported, in part, by the Center for Coordination of Analytics, Science, Enhancement and Logistics (CASEL) in Tobacco Regulatory Science US4DA046606-01 (National Institute of Drug Abuse (NIDA) and the Food and Drug Administration’s Center for Tobacco Products (FDA CTP). Support for authors was also provided by NIDA and FDA CTP awards US4DA036151 (Kong), R01DA049878 (Kong), R01DA051000 (Emery), and US5DA046606-01 (Stroup) as well as NCI and FDA CTP award P50CA180905 (Cruz and Vassey).

**Competing interests** None declared.

**Patient consent for publication** Not applicable.

**Provenance and peer review** Not commissioned; externally peer reviewed.

**Supplemental material** This content has been supplied by the author(s). It has not been vetted by BMJ Publishing Group Limited (BMJ) and may not have been peer-reviewed. Any opinions or recommendations discussed are solely those of the author(s) and are not endorsed by BMJ. BMJ disclaims all liability and responsibility arising from any reliance placed on the content. Where the content includes any translated material, BMJ does not warrant the accuracy and reliability of the translations (including but not limited to local regulations, clinical guidelines, terminology, drug names and drug dosages), and is not responsible for any error and/or omissions arising from translation and adaptation or otherwise.

**Open access** This is an open access article distributed in accordance with the Creative Commons Attribution Non Commercial (CC BY-NC 4.0) license, which permits others to distribute, remix, adapt, build upon this work non-commercially, and license their derivative works on different terms, provided the original work is properly cited, appropriate credit is given, any changes made indicated, and the use is non-commercial. See: http://creativecommons.org/licenses/by-nc/4.0/.

**ORCID iDs**

Grace Kong http://orcid.org/0000-0002-9269-3435
Linnea Laestadius http://orcid.org/0000-0003-3272-9317
Julia Vassey http://orcid.org/0000-0003-3002-2000
Anuja Majmundar http://orcid.org/0000-0002-7785-3357
Zyed Ben Taleb http://orcid.org/0000-0001-6894-5535
Tess Boley Cruz http://orcid.org/0000-0002-5894-1802
Sherry L Emery http://orcid.org/0000-0001-9278-9990


Special communication
REFERENCES