Dear [Media Production / Distribution Chain Executive]:

Our organizations have long been concerned about the exposure of young audiences to on-screen tobacco depictions (including but not limited to cigarettes, smokeless tobacco products and electronic cigarettes) in feature films. Tobacco is the leading cause of preventable death in the United States, killing 480,000 Americans annually.

In 2012, the U.S. Surgeon General concluded that exposure to on-screen smoking causes young people to smoke. The U.S. Centers for Disease Control and Prevention (CDC) reported in 2014 that 6.4 million children alive today will become smokers because of this exposure. Two million of these young recruits will die prematurely due to smoking.

Since the U.S. motion picture industry first learned of this health risk, in December 2003, it has reduced the annual number of top-grossing, youth-rated films with any tobacco imagery by 60 percent. In 2016, tobacco incidents in its youth-rated (G/PG/PG-13) films were 35 percent below 2003 levels. However, as the attached article in the CDC’s Morbidity and Mortality Weekly Report shows, reductions in tobacco content flat-lined after 2010.

Since the industry’s progress halted, major studios and independent producer-distributors have released 210 top-grossing, youth-rated U.S. films featuring more than 6,000 tobacco incidents, delivering 60.5 billion tobacco impressions to audiences in U.S. theaters alone. The average PG-13 film with any smoking is actually 30 percent smokier than a decade ago. The additional health consequences of any further delay in taking the substantive steps consistently recommended to the film industry for the past fifteen years will be enormous.

If the industry had simply continued reducing tobacco content in its youth-rated films at the pace it did between 2005 and 2010, all youth-rated films would have been entirely smokefree by 2015. Despite all major studios’ adopting individual tobacco depiction policies, that did not happen. We therefore issue this plain-language demand:

The MPAA’s Classification and Rating Administration must apply an R-rating to any motion picture with tobacco imagery submitted for classification after June 1, 2018. Exceptions should be limited to films that exclusively portray actual people who used tobacco (as in documentaries or biographical dramas) or that depict the serious health consequences of tobacco use.

Major studios with direct governance authority over the U.S. film rating system account for two-thirds of the youth-rated films with tobacco released since 2010; 71 percent of youth-rated tobacco incidents; and 86 percent of youth-rated audience tobacco impressions. Independent producer-distributors have accounted for a growing fraction. Individual company policies and even weaker gestures offered up by the industry since 2003 have left children exposed to on-screen content uniquely proven to imperil millions of lives.
As state Attorneys General told the industry in 2009, “[I]t is clear that every time the industry releases another movie that depicts smoking, it does so with full knowledge of the deadly harm it will bring to children who watch it.”

Tobacco industry documents show that the movie industry collaborated for decades in promoting smoking and tobacco brands, before and after the U.S. Surgeon General’s 1964 report that smoking causes cancer. The U.S. film industry, simply by leaving smoking out of future films rated for adolescents here at home and in other markets, can turn the page and fundamentally alter the destiny of families around the world for decades to come.

We will be reaching out to you shortly to discuss how quickly we can get this done. We offer you a golden opportunity to resolve your decades-old problem through a life-saving, industry-wide standard, with enough lead time to avoid substantial disruption to projects entering production. You have tried everything else. Now, together, let’s just do what works.

To respond proactively, please contact American Academy of Pediatrics’ Chief Medical Officer, V. Fan Tait, MD FAAP, at ftait@aap.org, with a CC to Julie Gorzkowski, MSW, at jgorzkowski@aap.org.

Sincerely,

John Meigs, MD FAAFP
President
American Academy of Family Physicians

Fernando Stein, MD FAAP
President
American Academy of Pediatrics

Gary Reedy
Chief Executive Officer
American Cancer Society, Inc.

Darlyn V. Moyer, MD FACP
Executive Vice President / CEO
American College of Physicians

Douglas E. Henley, MD FAAFP
Executive Vice President / CEO
American Academy of Family Physicians

Karen Remley, MD MBA MPH FAAP
CEO / Executive Vice President
American Academy of Pediatrics

Jack Ende, MD MACP
President
American College of Physicians

Haywood L. Brown, MD FACOG
President, American Congress of Obstetricians and Gynecologists

cc:

Mr. Matt Alvarez
Mr. Gabriel Hammond
Broad Green Pictures

Mr. Adam M. Aron
AMC Entertainment Inc.

Mr. Robert M. Bakish
Viacom Inc.

Mr. Jeffrey L. Bewkes
Time Warner Inc.

Mr. Jeffrey P. Bezos
Amazon.com, Inc.

Mr. Timothy D. Cook
Apple Inc.

Mr. Brian C. Cornell
Target Corporation

Ms. Ellen Marie Cotter
Reading International, Inc.

Mr. Alkiviades David
FOTV Media Networks Inc.

The Hon. Christopher J. Dodd
The Hon. Charles Rivkin
Motion Picture Association of America

Mr. Jon Feltheimer
Lions Gate Entertainment, Inc.

Mr. David Fenkel, Mr. John Hodges,
Mr. Daniel Katz
A24 Films LLC

Mr. John Fithian
National Association of Theatre Owners Inc.

Mr. Reed Hastings
Netflix, Inc.

Mr. Kazuo Hirai
Sony Corporation

Mr. Robert A. Iger
The Walt Disney Company

Mr. Hubert Joly
Best Buy Co., Inc.

Mr. Gregory S. Marcus
The Marcus Corporation

Mr. Lowell C. McAdam
Verizon Communications, Inc.

Mr. C. Douglas McMillon
Wal-Mart Stores, Inc.

Ms. Amy E. Miles
Regal Entertainment Group

Mr. James Rupert Murdoch
Twenty-First Century Fox, Inc.

Mr. Tom Ortenberg
Open Road Films, Inc.

Mr. Lawrence Edward Page
Mr. Sergey Brin
Alphabet Inc.

Mr. Brian L. Roberts
Comcast Corporation

Mr. Robert Simonds
STX Productions, LLC

Mr. Galen C. Smith
Redbox Automated Retail, LLC

Mr. Randall L. Stephenson
AT&T Inc.

Mr. Bob Weinstein
Mr. Harvey Weinstein
The Weinstein Company

Mr. Mark Zoradi
Cinemark USA, Inc.

Michael A. Tynan1; Jonathan R. Polansky2; Kori Titus3; Renata Atayeva3; Stanton A. Glantz, PhD4

The Surgeon General has concluded that there is a causal relationship between depictions of smoking in the movies and the initiation of smoking among young persons (1). The more youths see smoking on screen, the more likely they are to start smoking; youths who are heavily exposed to onscreen smoking imagery are approximately two to three times as likely to begin smoking as are youths who receive less exposure (1,2). A Healthy People 2020 objective is to reduce the proportion of youths exposed to onscreen tobacco marketing in movies and television (Tobacco Use Objective 18.3) (3). To assess the recent extent of tobacco use imagery in youth-rated movies (G, PG, PG-13*), 2010–2016 data from Thumbs Up! Thumbs Down! (TUTD), a project of Breathe California of Sacramento-Emigrant Trails were analyzed and compared with previous reports.† In 2016, 41% of movies that were among the 10 top-grossing movies in any calendar week included tobacco use, compared with 45% in 2010. Among youth-rated movies, 26% included tobacco use in 2016 (including 35% of PG-13 movies) compared with 31% in 2010 (including 43% of PG-13 movies). The steady decline in the number of tobacco incidents in youth-rated movies from 2005–2010 stopped after 2010. The total number of individual occurrences of tobacco use in a movie (tobacco incidents) in top-grossing movies increased 72%, from 1,824 in 2010 to 3,145 in 2016, with an increase of 43% (from 564 to 809) occurring among PG-13 rated movies. Reducing tobacco use in youth-related movies could help prevent the initiation of tobacco use among young persons.

TUTD counts occurrences of tobacco incidents, defined as the use or implied use of a tobacco product (cigarettes, cigars, pipes, hookah, smokeless tobacco products, and electronic cigarettes) by an actor, in U.S. top-grossing movies each year. Trained monitors count all tobacco incidents in those movies that are among the 10 top-grossing movies in any calendar week of the year. Previous reports have used this criterion because U.S. movies ranked in the 10 top-grossing movies for at least 1 week have accounted for 96% of U.S. ticket sales (4–6). At least two monitors independently evaluate each film; any differences are resolved by a supervisor who independently watches the film using the same protocol. Incidents of implied use have been rare and occur when a person is handed or is holding, but does not necessarily use, a tobacco product. A new incident was counted each time 1) a tobacco product went off screen and then came back on screen; 2) a different actor was shown with a tobacco product; or 3) a scene changed and the new scene contained the use or implied use of a tobacco product.§

* Ratings assigned by the Motion Picture Association of America (a trade organization that represents the major movie studios) include the following: General Audiences (G): all ages admitted; Parental Guidance Suggested (PG): some material might not be suitable for children; Parents Strongly Cautioned (PG-13): some material might be inappropriate for children under 13; and Restricted (R): under 17 requires accompanying parent or adult guardian.

† https://smokefreemovies.ucsf.edu/.

§ Two common methods used to count smoking incidents in movies are to count the number of scenes in which tobacco use occurs or to count the number of cuts in which tobacco use occurs. Despite the difference in methods, both metrics have consistent results and are valid for comparing the results across ratings, years, companies, etc.
To calculate the percentage of movies with tobacco incidents, the number of movies with tobacco incidents was divided by the total number of movies, and the average number of tobacco incidents per movie was calculated for each motion picture company. For each year during 2010–2016, the number of top-grossing movies with tobacco incidents and overall number of tobacco incidents were calculated. Results were also analyzed by Motion Picture Association of America (MPAA) ratings (G, PG, PG-13, R). Findings were also compared with data from reports from 1991–2010 (4,5).

In 2016, among 143 top-grossing movies, 59 (41%) had tobacco incidents, compared with 62 (45%) of 137 in 2010; among top-grossing R-rated movies, 35 (67%) of 52 had tobacco incidents in 2016, compared with 35 (71%) of 49 in 2010 (Table 1). Among youth-rated movies (G, PG, or PG-13), 24 (26%) of 91 had tobacco incidents in 2016, compared with 27 (31%) of 88 in 2010. Overall, from 2010 to 2016, the number of top-grossing movies with tobacco incidents ranged from 58 in 2014 to 76 in 2013 (Table 1).

Although the percentage of top-grossing movies with tobacco incidence decreased during 2010–2016, the total number of tobacco incidents in top-grossing movies increased by 72%, from 1,824 to 3,145 (Table 2). The total number of incidents in G or PG movies decreased by 87% (from 30 to 4), whereas the number in PG-13 movies increased 43% (from 564 to 809), and the number in R-rated movies increased 90% (from 1,230 to 2,332). Compared with previous studies (4,5), smoking incidents had peaked at 3,962 incidents in 2005; the year with the lowest number of recorded smoking incidents (1,613) was 1998 (Figure). During 2010–2016, the lowest number of tobacco incidents (1,743) occurred in 2015; the highest number since 2010 (3,145) occurred in 2016, representing an 80% increase compared with the previous year.

Discussion

The findings in this report indicate that although there were previously reported declines in the number of youth-rated movies with tobacco incidents observed during 2005–2010 (4,5), since 2010 there has been no progress in reducing the total number of tobacco incidents in youth-rated movies. Had the trend established from 2005 to 2010 continued, all youth-rated films would have been smoke-free by 2015. Although there were fewer top-grossing movies depicting tobacco use in 2016 compared with 2010, an increase in the number of such incidents occurred, thereby concentrating exposure to tobacco use in fewer films. The average number of tobacco incidents increased 55% in youth-rated movies with any tobacco depiction, from 22 incidents in 2010 to 34 incidents in 2016, and increased 91% in R-rated films with any tobacco depictions, from 35 incidents in 2010 to 67 incidents in 2016. Tobacco use depictions are now uncommon in G and PG films; however, the 43% increase in the total number of tobacco-use incidents in PG-13 movies, from 564 in 2010 to 809 in 2016, is of particular public health concern because of the established causal relationship between youths’ exposure to smoking in movies and smoking initiation (I).
The six major motion picture companies have policies to reduce depictions of tobacco use in youth-rated films,\(^4\) which likely contributed to the reduction in the number of movies with tobacco incidents during 2005–2010. TUTD started systematic data collection of onscreen tobacco use in movies in 1991. Occurrences of tobacco use in movies varied from 1991 to 2010, reaching a peak in 2003. Public health organizations, investors, state health departments, and state attorneys general raised concerns regarding tobacco incidents in movies beginning in 2001, which might account, in part, for the decrease in onscreen tobacco incidents after 2005 and before major motion picture companies adopted policies regarding tobacco imagery in youth-rated films (4,5). However, the lack of progress in recent years suggests that enhanced measures to address tobacco incidents in movies are warranted.

One such intervention would be the assignment of an R rating to any movie with smoking or other tobacco-use imagery (unless the portrayal is of actual historical figures who smoked, a documentary, or if the portrayal includes the negative effects of tobacco use) (7–9). Other interventions include certifying that no payments have been received by the studio or producers for depicting tobacco use in the movies and ending the onscreen depiction of actual tobacco brands (7,8). These and additional interventions, if implemented, could help eliminate tobacco incidents in youth-rated movies (7–9). State and local health departments could also work with state agencies that manage movie subsidies to ensure that such subsidies do not go to films that include depictions of tobacco use. During 2010–2016, approximately 24 states awarded approximately $3.5 billion in public subsidies, such as tax credits, to productions of movies with tobacco incidents, including youth-rated movies.**

Currently the MPAA does not assign R ratings to movies based on tobacco use incidents. In 2007, the MPAA developed a smoking “rating descriptor” that is applied to a few movies that contain smoking. These descriptors can appear in fine print in the box with the letter rating for a movie and can appear on advertisements and promotions to describe the type of content in a movie, such as language, violence, nudity, or sexual content. However, 89% of top-grossing, youth-rated movies with smoking did not carry the MPAA “smoking descriptor” in 2015 (9).

### TABLE 1. Number and percentage of top-grossing movies with any tobacco incidents, by Motion Picture Association of America (MPAA) rating and movie company — United States, 2010–2016

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<tr>
<th>Movie company (by ratings)</th>
<th>2010</th>
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<th>2014</th>
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<th>2016</th>
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<td>5 (50)</td>
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<td>38 (69)</td>
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** All ratings

\(^4\) G = General Audiences (all ages admitted); PG-13 = Parents Strongly Cautioned (some material might be inappropriate for preteenagers); R = Restricted (under age 17 requires accompanying parent or adult guardian).

\(^\d\) Independent movie companies include producer-distributors that are not members of MPAA, but regularly adhere to MPAA ratings and advertising rules.

\(^\d\) Youth-rated includes G/PG and PG-13.

[^4]: https://smokefreemovies.ucsf.edu/sites/default/files/All%20tobacco%20depiction%20policies%200916.pdf

A longitudinal cohort study of smoking onset among youths viewing movies released during 1998–2003 concluded that classifying movies with smoking with an R rating could reduce the number of teen smokers by approximately 18% (7). The Surgeon General notes that the magnitude of the effect of an R rating for smoking would be similar to increasing the price of cigarettes from $6.00 to $7.50 per pack (10).

The findings in this report are subject to at least three limitations. First, detailed audience composition data are not publicly available; therefore, the number of tobacco use impressions (one person seeing one tobacco incident one time, a measure of total audience exposure) delivered by a particular movie to children and adolescents could not be determined. Second, the sample did not include all movies. However, the samples of top grossing movies were used because they are expected to account for approximately 95% of theater tobacco-use impressions (4–6). Finally, the measure used to assess tobacco exposure from movies should be interpreted cautiously because movies can be viewed through other channels (e.g., recorded media, such as DVDs and Blu-ray; television; and online streaming) that do not contribute to the calculation of in-theater impressions. As viewing platforms expand, it is important to identify whether youths are being exposed to tobacco imagery through other media sources, such as broadcast and cable television, on-demand services, and social media. Further research into youths’ exposure to tobacco imagery in these and other forms of media could also help identify the impact that exposure through these sources has on youths’ tobacco use.

If current trends continue, 5.6 million youths who are alive today are projected to die from tobacco-related diseases (10). Whereas the number of top-grossing movies with tobacco use incidents continued to decline from 2010 to 2016, one in four youth-rated movies featured tobacco imagery, which is harmful to youths and causes youths to start using tobacco. The frequency and increase in tobacco incidents in PG-13 movies is of public health concern because these movies are rated as appropriate for youths. Opportunities exist for movie studios to reduce tobacco incidents that appear in youth-related movies, including rating films with smoking R, which would help prevent or delay the initiation of tobacco use among young persons and prevent premature deaths from tobacco-related diseases.

**Conflict of Interest**

Jonathan R. Polansky, Kori Titus, and Stanton Glantz report grants from Truth Initiative during the conduct of this study. No other conflicts of interest were reported.

* Ratings are assigned by the Motion Picture Association of America, the trade organization that represents the six major movie studios. G = General Audiences (all ages admitted); PG = Parental Guidance Suggested (some material may not be suitable for children); PG-13 = Parents Strongly Cautioned (some material may be inappropriate for children under 13); and R = Restricted (under 17 requires accompanying parent or adult guardian).

1Office on Smoking and Health, National Center for Chronic Disease Prevention and Health Promotion, CDC; 2Onbeyond LLC, Fairfax, California; 3Breathe California of Sacramento-Emigrant Trails, Sacramento, California; 4University of California, San Francisco.

Corresponding author: Michael A. Tynan, mtynan@cdc.gov, 404-498-1202.

References


Summary

What is already known about this topic?

The Surgeon General has concluded that there is a causal relationship between depictions of smoking in the movies and the initiation of smoking among young persons. The more frequently youths see smoking on screen, the more likely they are to start smoking; youths who are heavily exposed to onscreen smoking imagery are approximately two to three times more likely to begin smoking than are youths who are less exposed.

What is added by this report?

Previously reported declines in number of top-grossing movies with tobacco use has continued; however, the decline in the total number of tobacco incidents has not progressed since 2010. From 2010 to 2016, the total number of tobacco incidents in top-grossing movies increased, with a 43% increase occurring among movies rated PG-13.

What are the implications for public health practice?

Although there were fewer youth-rated films with tobacco incidents in 2016 than in 2010, total depictions of tobacco use has remained stable, concentrating such exposure in fewer films. Reducing tobacco incidents that appear in youth-related movies would prevent the initiation of tobacco use among young persons. An R rating for movies with tobacco use could potentially reduce the number of teen smokers by 18% and prevent their premature deaths from tobacco-related diseases.
