**INTRODUCTION**

Smoking is the largest avoidable cause of death and disability in rich countries, killing half of all lifelong smokers1 and in 2018 causing an estimated 95 600 deaths and more than half a million hospital admissions in the UK.2 Since most smokers in the UK begin regular smoking before reaching the age of 18 years,3 identifying and preventing causes of smoking uptake is a major public health priority.

Exposure to tobacco imagery in film is a recognised cause of smoking uptake,4–6 and a meta-analysis of prospective cohort studies has estimated that children exposed to high levels of smoking imagery in film are more than 40% more likely to become smokers than those with little or no exposure.7 This exposure would be preventable through the age-classification systems that most countries apply to films if smoking and other tobacco imagery were considered harmful by regulators. In the UK, for example, age classification ratings are provided by the British Board of Film Classification (BBFC), whose mission includes protecting the public, and especially children, from content which might cause harm.8 The BBFC provide guidance to families to help them make informed decisions about what films are suitable for children. However, the BBFC does not appear to consider smoking to be harmful. In relation to smoking, BBFC guidelines state only that if smoking features to a significant extent in works which appeal to children, this will be indicated in information provided alongside the age classification and that, despite evidence that the effect of smoking is independent of film character type (‘good guy or bad guy’), classification decisions only take into account promotion or glamorisation of smoking.9

We have previously reported that 70% of 300 top-grossing UK cinema films in the years 1989–2008 included tobacco content and that 56% of those containing tobacco were rated as suitable for viewing by children aged under 15 years.10 To determine whether tobacco imagery continues to be prevalent in contemporary UK box office films, we now report an analysis of tobacco content in the top-grossing box office films distributed in the UK between 2009 and 2017 and estimate the population reach of this tobacco imagery in terms of UK audience impressions (the estimated number of times tobacco content was seen by an audience) to see how much of this content is being seen by young audience.

**ABSTRACT**

**Background** Exposure to tobacco content in films is a cause of smoking uptake in young people. In an earlier study, we reported that tobacco content occurred in 70% of UK box office films popular between 1989 and 2008. We now report an analysis of tobacco content in a sample of the top grossing UK box office films between 2009 and 2017, and of population exposure resulting from audience exposure to the 2017 films.

**Methods** Occurrence of tobacco intervals (actual tobacco use, implied use, appearance of smoking paraphernalia or branding) was measured by 5 min interval coding in the 15 most commercially successful films in the UK in each year from 2009 to 2017. A nationally representative survey was used to estimate population exposure to the top 15 films from 2017.

**Results** Tobacco content appeared in 245 intervals (8%, 95% CI 7% to 9%) across 56 (41%, 95% CI 33% to 49%) films. Tobacco content occurred in films in all BBFC age ratings, and 36 (64%, 95% CI 51% to 77%) of films containing tobacco imagery were classified as suitable for viewing by people aged under 15 years. Although less prevalent than in our earlier study, there was no evidence of a secular decline in tobacco content during this study period. The top 15 films from 2017 delivered approximately 21.6 (95% CI 21.06–22.14) million tobacco impressions to young people aged 10–18 years in the UK.

**Conclusions** Tobacco content continues to appear in UK Box Office films and is widely seen by young people, representing a major driver of smoking uptake.

**Key messages**

- Is tobacco content still prevalent in UK box office films?
- Tobacco content continues to appear in UK box office films and is widely seen by young people, representing a major driver of smoking uptake.

**Why read on?**

We present a content analysis of the annual top 15 grossing films at the UK box office between the years 2009 and 2017.
METHODS

Tobacco content in the 15 annual top grossing box office films in the UK for the years 2009–2017, identified from the British Film Industry Statistical Year Books, was measured semiquantitatively using the 5 min interval coding method described previously. Coding for each film began at the start of each film and continued until the end of the credits. In each interval, tobacco content was recorded in each of the following categories.

- Actual tobacco use: actual observed use of tobacco onscreen by any character, coded as cigarette, cigar, pipe or other (such as water pipe or chewing tobacco).
- Implied tobacco use: any implied tobacco use without any actual use onscreen (eg, holding a cigarette without actual smoking or a comment about going for a cigarette), coded as verbal or non-verbal.
- Tobacco paraphernalia: the presence of tobacco or tobacco-related materials, coded by the type of appearance (including cigarette or other tobacco pack, matches, lighter, ashtray, no smoking or smoking area signs).
- Brand appearance: The presence of clear and unambiguous tobacco branding, including cigarette or other tobacco packs, secondary advertising (advertisements appearing within other programmes) and branded merchandising.
- Any tobacco content: Any of the aforementioned.

For coding purposes, multiple instances of the same category in the same 5 min interval were considered to be single event, while instances that ran into consecutive 5 min periods were coded as separate events. Instances in different categories in the same interval were recorded as different events. Approximately 10% of all films were double coded and any discrepancies were discussed between coders and amended accordingly. Information on the age rating of each film was gained from the BBFC; information on the production of each film was gained from the Internet Movie Database.

To estimate exposure to a sample of films included in our content analysis, we included questions on viewing the 15 annual top grossing box office films in the UK for the year 2017 in a national survey of young people carried out by YouGov PLC. In accordance with YouGov practice, people aged 10–18 years were recruited by direct email invitations to a random sample of 245 people aged under 18 years by the BBFC, as did 87% (95% CI 83% to 91%) of all tobacco intervals. Nearly two-thirds (64%, 95% CI 51% to 77%) of films containing tobacco imagery were classified as suitable for viewing by people aged under 15 years. Tobacco imagery occurred in 39% (95% CI 31% to 47%), 50/129) of all films produced with no UK or US production involvement.

Results

The 135 films analysed totalled 265.2 hours (15 912 min) of film time, with a mean of 117.87 (SD 22.10) min/film, and a range from 82 min (Secret Life of Pets) to 174 min (The Wolf of Wall Street). The BBFC U, PG, 12/12A, 15 and 18 categories contained 17%, 16%, 50%, 14% and 2% of films, respectively. The majority of films analysed (59%, 95% CI 51% to 67%, 79/135) were produced solely in the USA. UK producers were involved in 25% (34/135) of films and were solely responsible for 3% (95%CI 1% to 5%, 4/135) of films. Other countries were involved in creating 17% (95% CI 11% to 23%, 23/135) of films. Only one film (Taken 2) had no UK or US production involvement.

There were 3248 5 min intervals in the films, with a mean of 24 per film, range 17–35. Tobacco content occurred in 245 intervals (8% of the total, 95% CI 7% to 9%) across 56 (41%, 95% CI 33% to 49%) films. The respective proportions of films containing any tobacco intervals in each of the BBFC age categories are shown in table 1.

Tobacco intervals occurred in 40% (95% CI 32% to 48%, 53/132) of all films rated suitable for watching by people aged under 18 years by the BBFC, as did 87% (95% CI 83% to 91%) of all tobacco intervals. Nearly two-thirds (64%, 95% CI 51% to 77%) of films containing tobacco imagery were classified as suitable for viewing by people aged under 15 years. Tobacco imagery occurred in 39% (95% CI 31% to 47%), 50/129) of films produced with some US involvement, and in all six (100%, 95% CI 100% to 100%) of those produced with no US involvement (p=0.004, Fisher’s exact test).

The average number of intervals containing the different categories of tobacco content per hour of film varied from

Figure 1  Trends in mean tobacco intervals per hour of film, 2009–2017.
Smoking year to year, though not to a statistically significant extent and with no obvious trend. However, the mean number of tobacco intervals per hour of film has been particularly low since 2015 (figure 1).

Actual tobacco use occurred in 50% of all tobacco intervals (95% CI 44% to 56%, 123/245), in 24% of films (95% CI 17% to 31%, 30/128) and in a majority of cases (72 intervals, 59%, 95% CI 53% to 65%) involved cigarette smoking. Almost all (31/32) films featuring actual tobacco use were in BBFC 15 and lower categories, and more than half (56%, 95% CI 38% to 73%, 18/32) were rated suitable for audiences age 12 or lower. There was no clear trend in the frequency of tobacco intervals, or of intervals including tobacco use, per hour of film within BBFC age-classification categories, though there was no tobacco use in any U-rated film (figure 2). Tobacco use was much more common in films produced solely in the UK (occurring in 23 of 85 intervals, 28%, 95% CI 18% to 38%) than those produced in the US (49/1850 intervals, 3%, 95% CI 2% to 4%, p<0.001).

Implied tobacco use occurred in 92 intervals (3%, 95% CI 2% to 4%, 92/3248) in 29 films (21%, 95% CI 14% to 28%, 29/135), typically in the form of non-verbal cues (83%, 95% CI 75% to 91%, 72/92). Tobacco paraphernalia occurred in 46 films (34%, 95% CI 26% to 42%, of all films) and in 4% of all intervals (95% CI 3% to 5%, 135/3248), typically in the form of ashtrays (alone or with other paraphernalia; 44% of paraphernalia intervals (95% CI 35% to 52%, 59/135), cigarette or other tobacco packs (12%, 95% CI 7% to 17%, 16/135), lighters (18%, 95% CI 17%–31%, 24/135) or matches (7%, 95% CI 3% to 11%, 10/135).

Tobacco branding, typically on tobacco packs, was present in seven intervals in six films. Five of these films were US productions, and one solely UK. Marlboro was the only brand to appear in more than one film, with Marlboro Gold appearing in two intervals in Slumdog Millionaire and Marlboro in a single interval in The Amazing Spiderman. More than one brand occurred in Table 1

| BBFC age rating* | Proportion of films in each age category containing tobacco intervals |
|------------------|---------------------------------------------------------------------|
| U                | 1/23 (4%, 95% CI 0% to 12%)                                        |
| PG               | 5/22 (23%, 95% CI 5% to 41%)                                       |
| 12/12A           | 30/68 (44% 95% CI 32% to 56%)                                      |
| 15               | 17/19 (89% 95% CI 75% to 100%)                                     |
| 18               | 3/3 (100%, 95% CI 100% to 100%)                                    |

*U, suitable for all ages; PG, parental guidance; 12/12A, suitable for 12 years and over; 15, suitable for 15 years and over; 18, suitable only for adults.

BBFC, British Board of Film Classification.
Smoking

A single interval in *Men in Black 3* (Lucky Strike, Embassy). A fictional brand (*Old Toby*) appeared in one interval in *The Hobbit* and multiple fictional brands (*Wellesley, Emperor and Carolina Menthol*) in one interval in *IT* (table 2).

**Trends over time**

When the data from the current study were compared with the data from the previous study, the mean number of tobacco intervals per year are negatively correlated ($r(27) = -0.789, p<0.01$) (figure 3).

**UK population exposure**

Our YouGov Omnibus survey obtained data on which of the 15 2017 films sampled, four of which included tobacco content, had been seen by a nationally representative sample of 935 young people aged 10–18 years. The film with the most content, *IT*, was rated 15 and was seen by 26% (95% CI 23% to 28%) of young people aged 10–18 years in the UK. Using UK population estimates, we estimate that the four films delivered 21.6 (95% CI 21.06 to 22.14) million tobacco impressions to young people aged 10–18 years (table 3).

**DISCUSSION**

This study demonstrates that tobacco content, including tobacco smoking, continues to occur frequently in the most popular UK films; that this content is included in films in almost all age classification groups and that a majority of films containing smoking are classified by the BBFC as suitable for viewing by people aged under 15 years; and that tobacco imagery is significantly more likely to occur in films produced by UK companies. Although the proportion of films containing tobacco, at 40%, is much lower than the 70% we reported in an earlier analysis of films popular between 1989 and 2008, the proportion of films containing tobacco classified as suitable for viewing by people aged under 15 years was unchanged. Thus, while film makers may have reduced the amount of smoking imagery they include in films over the past decade, BBFC classification policy remains consistently passive in relation to this content, with classification decisions only taking into account promotion or glamorisation of smoking. Since there is strong causal evidence that exposure to tobacco imagery in films increases smoking uptake in adolescents, the BBFC thus continues to fail to meet its mission of protecting children from harmful content.

### Table 2: Films containing tobacco branding

| Title                              | Release year | Country of origin | BBFC rating | Branding intervals, n | Brand(s)                      |
|------------------------------------|--------------|-------------------|-------------|-----------------------|-------------------------------|
| *Slumdog Millionaire*              | 2009         | UK                | 15          | 2                     | Marlboro (Gold)               |
| *Hangover II*                      | 2011         | USA               | 15          | 1                     | K&J Lights                    |
| *Amazing Spider Man*               | 2012         | USA               | 12          | 1                     | Marlboro                      |
| *Men in Black 3*                   | 2012         | USA               | PG          | 1                     | Lucky Strike, Embassy         |
| *The Hobbit: An Unexpected Journey*| 2012         | USA/NZ            | 12          | 1                     | *Old Toby*                    |
| *IT*                               | 2017         | USA/Canada        | 15          | 1                     | Wellesley, Emperor, Carolina Menthol |

BBFC, British Board of Film Classification.

**Figure 3** Mean number of intervals containing tobacco content per hour of film, 1989–2017.
Our study was limited by available coding resources to the top 15 most popular films each year, but these are likely to reflect the prominent pattern of tobacco exposure in films seen in UK cinemas each year since they typically represent around 50% or more of total annual box office takings. To code content in films, we used a method which has been widely used across a variety of audiovisual media and used double coding to ensure consistency between coders. Due to the lack of precise viewing figures, a nationally representative YouGov Omnibus survey was used to estimate the number of tobacco impressions delivered to a sample of the UK population. Our population exposure estimate included films from a single year, 2017; therefore, the UK population exposure to tobacco content in UK box office films throughout the study period is thought to be much higher. The amount of tobacco content in films from 2017 was relatively low; our population estimate reflects this and would likely be higher for years with more tobacco content. Our tobacco exposure estimate is for the UK population, but these films are viewed worldwide, and therefore, UK population exposure figures probably represent a very small proportion of the true global exposure. We used interval coding methods to generate semiquantitative measures of content over a standardised period of time to allow direct comparison between programmes which are shown for different amounts of time, therefore allowing an exploration of the percentage proportion of the content. This method can lead to both underestimation (if high-frequency appearances are concentrated in short periods of time) and overestimation (if short appearances transition into two intervals) and has been widely used in previous studies.

Alternative approaches such as frequency analysis, whereby all visual appearances are counted as individual events irrespective of duration, are available but assume that a single long appearance carries the same impact as a short appearance. Our estimate of population exposure is also based on 5 min intervals, rather than incidents, and therefore may be lower than estimates based on incidents alone.

While it is promising that tobacco content in films occurred less frequently during the present study period from 2009 to 2017, this does not appear to reflect a secular trend; rather, our findings mirror those reported in US films in which the frequency of tobacco content declined to 2010 and then increased. Furthermore, even at this lower level of occurrence, this content in UK films generates substantial population exposure, with films in a single year delivering 21.6 million tobacco impressions to young viewers.

It is important to consider that many of these films were also released to an American audience. While there are differences in the age ratings between the UK and the USA, and the way that these ratings prevent young people from viewing content unsuitable for them, 17 films which were rated 15 in the UK were rated higher (‘R’) in the USA. In our population exposure, the film containing the most tobacco content and which delivered the most viewer impressions, IT was rated a 15 in the UK and an ‘R’ in the US. If the film had been given an adult (18) rating in the UK, this may have prevented this film from delivering a large proportion of tobacco impressions to young people.

Viewing habits are changing and online video-on-demand (VOD) services such as Netflix and Amazon Prime Instant Video, which allow users to watch whatever they choose at any time of day, are becoming increasingly popular. A number of films included in the present study are now featured on VOD services, thereby increasing exposure to tobacco content found in these films. These changes in the way that film content is consumed make it even more important that film classification authorities such as the BBFC follow WHO guidance, by prohibiting the appearance of branding in films and applying adult classifications to films containing tobacco imagery, since film makers tailor content carefully to the requirements of their target age rating for each film. Knowing that including tobacco would ensure an adult rating in the global fourth largest national film market would therefore be likely to result in widespread exclusion of tobacco imagery from all films aiming for a less than adult rating.

We concede that due to changing viewing habits, a limitation of the current study is the focus on the top-15 UK box office films released annually in a cinema’s, as these films as viewers can watch films from previous years on VOD services. Furthermore, a number of films and series are released exclusively on VOD services. Future studies should explore films on these services.

The current study did not measure e-cigarette content; as e-cigarettes have become more popular over time, it is likely that this will be reflected in UK box office films. Future studies should explore the changing representation of tobacco products in films.

The current study thus provides further evidence in support of more effective UK implementation of the tobacco promotion policies outlined in the Framework Convention for Tobacco Control to reduce youth exposure to smoking in movies. It also provides clear evidence that the BBFC has yet to deliver on its mission to protect children from this form of harmful imagery when they visit the cinema. Future tobacco content, whether glamourised or not, should be considered when assigning age classifications to films, and all films containing tobacco content should be assigned an adult (18) rating to protect children from this content.

Acknowledgements JB and RM are members of SPECTR, a UK Prevention Research Partnership Consortium. UKPRP is an initiative funded by the UK Research and Innovation Councils, the Department of Health and Social Care (England) and the UK devolved administrations, and leading health research charities.
Contributors AB, JC and IF contributed to data collection, analysis and manuscript preparation. KW, KA and AH contributed to data collection. RM and JB contributed to manuscript preparation.

Funding This work was supported by the Medical Research Council (grant number MR/K023195/1) and the UK Centre for Tobacco and Alcohol Studies, with core funding from the British Heart Foundation, Cancer Research UK, Economic and Social Research Council and the Department of Health under the auspices of the UK Clinical Research Collaboration. The funders had no role in the study design, data collection and analysis, decision to publish or preparation of the manuscript. This work was also supported by Bloomberg Philanthropies Stopping Tobacco Organizations and Products project funding (www.bloomberg.org).

Competing interests None declared.

Patient consent for publication Not required.

Provenance and peer review Not commissioned; externally peer reviewed.

Data availability statement Data are available upon reasonable request. Data on the tobacco content of films included in this content analysis are available from Alexander Barker (Alexander.barker@nottingham.ac.uk) upon reasonable request.

Open access This is an open access article distributed in accordance with the Creative Commons Attribution 4.0 Unported (CC BY 4.0) license, which permits others to copy, redistribute, remix, transform and build upon this work for any purpose, provided the original work is properly cited, a link to the licence is given, and indication of whether changes were made. See: https://creativecommons.org/licenses/by/4.0/.

ORCID iD Alexander Barker http://orcid.org/0000-0003-4568-5114

REFERENCES

1 Action on Smoking and Health (ASH). Smoking statistics, 2015. Available: http://www.ash.org.uk/files/documents/ASH_93.pdf
2 Action on Smoking and Health (ASH). Adult smoking habits in the UK: 2018, 2019. Available: https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/healthanddisability/expectancies/bulletins/adultsmokingleftsbritain/2018#health-consequences-of-cigarette-smoking [Accessed 11 Feb 2020]
3 Public Health England. Smoking and tobacco: applying all our health, 2017. Available: https://www.gov.uk/government/publications/smoking-and-tobacco-applying-all-our-health-smoking-and-tobacco-applying-all-our-health [Accessed 20 Aug 2018]
4 World Health Organization. Smoke-Free movies: from evidence to action. Geneva: World Health Organization, 2016.
5 Framework convention on tobacco control. guidelines on implementation. (2011). Geneva. World health organisation. available at. Available: http://www.who.int/fctc/protocol/guidelines/adopted/guideline_2011/en/index.html
6 US Department of Health Human Services. Preventing tobacco use among youth and young adults: a report of the surgeon General. Atlanta, GA: US Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 1992.
7 Leonard-Bee J, Nderi M, Britton J. Smoking in movies and smoking initiation in adolescents: systematic review and meta-analysis. Addictiction 2016;111:1750–63.
8 British Board of Film Classification. Our mission, 2020. Available: https://bbfc.co.uk/about-bbfc/our-mission [Accessed 11 Feb 2020]
9 British Board of Film Classification. Classification guidelines, 2019. Available: https://bbfc.co.uk/sites/default/files/attachments/BBC%20Guidelines_2019.pdf [Accessed 11 Feb 2020]
10 Lyons A, McNeill A, Chen Y, et al. Tobacco and tobacco branding in films most popular in the UK from 1989 to 2008. Thorax 2010;65:417–22.
11 British Film Industry (BFI). Statistical year books. British Film Industry, 2016.
12 Lyons A, McNeill A, Britton J. Tobacco imagery on prime time UK television. Tob Control 2014;23:251–63.
13 Office for National Statistics. Population estimates for the UK, England and Wales, Scotland and Northern Ireland, 2019. Available: https://www.ons.gov.uk/peoplepopulationandcommunity/populationandmigration/populationestimates [Accessed 11 Feb 2020]
14 Barker AB, Opazo Breton M, Cranwell J, et al. Population exposure to smoking and tobacco branding in the UK reality show ‘Love Island’. Tob Control 2018;27:709–11.
15 Office of National Statistics. Estimates of the population for the UK, England and Wales, Scotland and Northern Ireland, 2019. Available: https://www.ons.gov.uk/peoplepopulationandcommunity/populationandmigration/populationestimates/datasets/populationestimatesforukenglandandwalesscotlandandnorthernireland [Accessed 05 Feb 2020]
16 Lyons A, McNeill A, Chen Y, et al. Tobacco and tobacco branding in films most popular in the UK from 1989 to 2008. Thorax 2010;65:417–22.
17 Lyons A, McNeill A, Britton J. Alcohol imagery on popularly viewed television in the UK. J Public Health 2014;36:426–34.
18 Cranwell J, Murray R, Lewis S, et al. Adolescents’ exposure to tobacco and alcohol content in YouTube music videos. Addiction 2015;110:703–11.
19 Lowe E, Britton J, Cranwell J. Alcohol content in the ‘Hyper-Reality’ MTV Show ‘Geordie Shore’. Alcohol Alcohol 2018;53:337–43.
20 Barker AB, Opazo Breton M, Murray RL, et al. Exposure to ‘smokescreen’ marketing during the 2018 Formula 1 Championship. Tob Control 2019;28:e154–5.
21 Barker AB, Smith J, Hunter A, et al. Quantifying tobacco and alcohol imagery in Netflix and Amazon prime instant video original programming accessed from the UK: a content analysis. BMJ Open 2019;9:e025807.
22 Barker AB, Whitamore KH, Britton J, et al. Content analysis of tobacco content in UK television. Tobacco Control 2018. [Epub ahead of print: 13 Aug 2018]
23 Barker AB, Whitamore K, Britton J, et al. A content analysis of alcohol content in UK television. J Public Health 2019;41:462–9.
24 Barker AB, Britton J, Thomson E, et al. A content analysis of tobacco and alcohol audio-visual content in a sample of UK reality TV programmes. J Public Health 2020;42:561–9.
25 Lyons A, Britton J. A content analysis of tobacco and alcohol in popular UK films: an update. The Lancet 2013;382:566.
26 Lyons A, McNeill A, Gilmore I, et al. Alcohol imagery and branding, and age classification of films popular in the UK. Int J Epidemiol 2011;40:1411–9.
27 Barker AB, Britton J, Grant-Brahim B, et al. Alcohol audio-visual content in film television broadcasting. BMC Public Health 2018;18:1155.
28 Barker AB, Britton J, Thomson E, et al. A content analysis of tobacco and alcohol audio-visual content in a sample of UK reality TV programmes. J Public Health 2019;42:403–4.
29 Cranwell J, Murray R, Lewis S, et al. Adolescents’ exposure to tobacco and alcohol content in YouTube music videos. Addiction 2014.
30 Cranwell J, Opazo-Breton M, Britton J. Adult and adolescent exposure to tobacco and alcohol content in contemporary YouTube music videos in Great Britain: a population content estimate. Int J Epidemiol Community Health 2016;70:488–92.
31 Adams J, Coleman J, White M. Alcohol marketing in televised international football: frequency analysis. BMC Public Health 2014;14:473.
32 Murray R, Breton MO, Britton J, et al. Carlsberg allib marketing in the UEFA Euro 2016 football finals: implications of probably inappropriate alcohol advertising. BMC Public Health 2018;18:553.
33 Graham A, Adams J. Alcohol marketing in televised English professional football: a frequency analysis. Alcohol Alcohol 2014;49:343–8.
34 Jones SC, Phillipson L, Barrie L. ‘Most men drink... especially like when they play sports’ - alcohol advertising during sporting broadcasts and the potential impact on child audiences. J Public Aff 2010;10:59–73.
35 Purvis RL, Critchlow N, Sted M, et al. Alcohol marketing during the UEFA Euro 2016 football tournament: a frequency analysis. Int J Environ Res Public Health 2017;14:704.
36 Centers for Disease Control and Prevention (CDC). Smoking and tobacco use: smoking in the movies, 2019. Available: https://www.cdc.gov/tobacco/data_statistics/fact_sheets/youth_data/movies/index.htm [Accessed 06 Feb 2020]
37 TV Licensing. Telescope report, 2011.
38 Telegraph T. Netflix hits the buffers as explosive UK growth cools, 2017. Available: http://www.telegraph.co.uk/business/2017/08/12/netflix-hits-buffers-explosive-uk-growth-cools/ [Accessed 13 Nov 2017]
39 eMarketer. Amazon prime has room to grow in the UK: eMarketer, 2017. Available: https://www.emarketer.com/Article/Amazon-Prime-Has-Room-Grow-UK/1015627 [Accessed 08 Nov 2017]
40 Netflix. 2018: Q2 Quarterly earnings report. Netflix, 2018.
41 TV Licensing. Telescope report 2017, 2017. Available: https://www.tvlicensing.co.uk/ss/Satellite/BlbBlob&url=Qdata%26blobjectname%3dcontent-type%26blobjectvalue%3dasapplication%7e2pdf%7eblobkey%3deid.blobkey%3dMungo%7e2blobsubject%3d1370006401613&sblobname%3dtrue [Accessed 25 Jan 2018]
42 BBC News. Time spent online ‘overtake s TV’ among youngsters. British Broadcasting Corporation, 2016.
43 World Health Organisation. Guidelines for the implementation of article 13 of the who framework convention on tobacco control, 2005. Available: https://www.who.int/fctc/guidelines/article_13.pdf [Accessed 11 Feb 2020]
44 Statista. Leading film markets worldwide in 2018, by gross box office revenue. 2018. Available: https://www.statista.com/statistics/525730/leading-film-markets-worldwide-gross-box-office-revenue/ [Accessed 14 Feb 2020]
45 World Health Organization. Framework convention on tobacco control, 2005. Available: https://www.who.int/fctc/text_download/en/ [Accessed 05 Feb 2020]