

Paper 1

Sub Committees on The Smoke-free Premises etc. (Wales) (Amendment) Regulations 2012

Response from the Royal College of Physicians (RCP)

16 January 2013


Dear Sir or Madam

Re: The Smoke-free Premises etc. (Wales) (Amendment) Regulations 2012

The Royal College of Physicians (RCP) plays a leading role in the delivery of high quality patient care by setting standards of medical practice and promoting clinical excellence. We provide physicians in the United Kingdom and overseas with education, training and support throughout their careers. As an independent body representing over 27,500 Fellows and Members worldwide, we advise and work with government, the public, patients and other professions to improve health and healthcare.

The RCP is grateful for the opportunity to respond to the above inquiry being conducted by the Enterprise and Business Sub-Committee and the Health and Social Care Sub-Committee. At this stage, we would like to re-submit the comments sent in reply to the earlier consultation on this issue. To that end, please find attached a letter dated 15 March 2012 that sets out the views of both the RCP and the UK Centre for Tobacco Control Studies (UKCTCS).

Yours faithfully



Dr Patrick Cadigan
Registrar

Enclosure: RCP/UKCTCS response to Welsh Government consultation – dated 15 March 2012

Paper 1

15 March 2012

Dear Sir or Madam

Re: Welsh Government - The Smoke-Free Premises etc. (Wales) (Amendment) Regulations 2012

The Royal College of Physicians (RCP) plays a leading role in the delivery of high quality patient care by setting standards of medical practice and promoting clinical excellence. We provide physicians in the United Kingdom and overseas with education, training and support throughout their careers. As an independent body representing over 26,000 Fellows and Members worldwide, we advise and work with government, the public, patients and other professions to improve health and healthcare.

I write on behalf of the RCP and the UK Centre for Tobacco Control Studies (UKCTCS). We are grateful for the opportunity to respond to the above consultation and would like to make the following joint submission.

We understand and sympathise with the desire to support the film and television production industry in Wales, and acknowledge the difficulty that the English exemption must create. However, the concern is that allowing this exemption will result in passive exposure of staff involved in the production to smoke, and may result in actors/actresses who do not smoke being pressured into active smoking for the purposes of the production.

Smoking imagery in film and television is also a widely recognised driver of adolescent experimentation and uptake of smoking, so the impacts of this policy change, if it results in more smoking depictions in the media, are substantially greater than those to the production staff involved.

Furthermore our own analyses of tobacco content in films popular in the UK indicates that use of tobacco remains high, and that branding is particularly common in UK productions (see attached pdf). Equivalent analyses of UK TV programming (in preparation for publication) suggest that content in UK television is much lower than in film, but remains a persistent problem in soaps and reality shows, and rarely with obvious relevance to artistic integrity – as for example in the attached still photo, featuring Marlboro branding, from the Gavin and Stacey Christmas Special.

Paper 1



Our concern is therefore that this amendment will signal a green light for much more widespread use of smoking in productions. We therefore counsel against the amendment. If the government chooses to support it, then we would suggest that the second criterion is amended to require that tobacco content is *strongly justified* rather than simply appropriate.

Yours faithfully

Handwritten signature of Dr. Patrick Cadigan.

Dr Patrick Cadigan
Registrar

Encl. Lyons Thorax.PDF



Lyons Thorax
2010.pdf

Tobacco and tobacco branding in films most popular in the UK from 1989 to 2008

Ailsa Lyons, Ann McNeill, Yilu Chen, John Britton

See Editorial, p 377

UK Centre for Tobacco Control Studies, Division of Epidemiology and Public Health, School of Community Health Sciences, University of Nottingham, Nottingham, UK

Correspondence to

Ms Ailsa Lyons, Clinical Sciences Building, Phase 2, UK Centre for Tobacco Control Studies, Division of Epidemiology and Public Health, School of Community Health Sciences, University of Nottingham, Nottingham NG5 1PB, UK; mcxal4@nottingham.ac.uk

Received 4 November 2009

Accepted 24 January 2010

ABSTRACT

Background Tobacco promotion is now tightly restricted in the UK and many other countries, but tobacco imagery including brand appearances in the media remain potentially powerful drivers of smoking uptake among children and young people. The extent to which tobacco imagery and specific products have appeared in the most popular films viewed in the UK over 20 years has been measured, in relation to year of release, the age certification allocated to the film by the British Board of Film Classification (BBFC), country of origin and other characteristics.

Methods Occurrence of tobacco intervals (tobacco use, implied use or appearance of smoking paraphernalia) and brand appearances were measured by 5 min interval coding in the 15 most commercially successful films in the UK each year from 1989 to 2008.

Results Tobacco intervals occurred in 70% of all films. Over half (56%) of those that contained tobacco intervals were rated by the BBFC as suitable for viewing by children aged <15, and 92% for people aged <18. Tobacco interval appearances fell by ~80% over the study period, but persisted in films in all BBFC categories. Brand appearances were nearly twice as likely to occur in films originating wholly or in part from the UK (UK films). Specific brands, particularly Marlboro and Silk Cut, appeared in 9% of all films, and most brand appearances (39%) were in films with BBFC 15 classification.

Conclusions Tobacco imagery in the most popular films shown in the UK has declined substantially over the past 20 years but continues to occur, particularly in UK films, and predominantly in films categorised as suitable for viewing by children and young people. Specific brand appearances are now rare but occur repeatedly in some films. The BBFC is not currently protecting children and young people from exposure to tobacco imagery in film.

INTRODUCTION

Tobacco use causes nearly 5 million deaths worldwide each year,¹ more than any other avoidable cause, with almost half of all tobacco-related death in the UK being the result of respiratory diseases, predominantly lung cancer and chronic obstructive pulmonary disease (COPD).² With 85% of all lung cancer deaths and >80% of all COPD deaths in England attributable to smoking,² preventing smoking is therefore a paramount public health priority. Since the majority of smokers become addicted in their teens,³ measures to prevent exposure of children and young people to tobacco products and positive smoking role models are especially important. Whilst tobacco advertising and sponsorship are now heavily restricted in the UK⁴ and many other countries,⁵ exposure to

tobacco imagery and brand appearances in the media has not been controlled.

It is well established that tobacco companies have used films to promote tobacco products for many years,⁶ and since at least 1927.⁷ Adolescents who view tobacco use in film and who admire leading actors and actresses whose characters smoke in films are more likely to smoke themselves, and are more likely to view smoking favourably.^{8–10} A study from New Zealand reported that adolescents felt that smoking in films was highly prevalent and believed it to be a true representation of reality.¹¹ These young people perceived smoking prevalence amongst their peers and adults to be higher than it was.¹¹ Beliefs like these can assist in the social normalisation of smoking, which in turn can promote youth initiation.¹² An exposure–response relationship between smoking imagery in films and subsequent adolescent smoking behaviour has also been demonstrated.^{8–13} Given these strong associations and that uptake of smoking has considerable future health implications, exposure to tobacco imagery including branding might be expected to be an important determinant of age classification of films.

This study was therefore carried out to characterise the occurrence of tobacco use and tobacco branding in the most popular films shown in UK cinemas over the past 20 years in relation to year of release, the age certification allocated to the film by the British Board of Film Classification (BBFC), country of origin and other characteristics.

METHODS

We used listings of the most commercially successful films based on gross UK cinema box office takings data provided by the UK Film Council (UKFC)¹⁴ to identify the 15 most popular films viewed in the UK for each year between 1989, the first year that UK-specific figures were collected, and 2008. We obtained DVD copies of the 300 sampled films from rental providers, and viewed and coded them in order of availability. For each film we used DVD package labels, the film credits, the Internet Movie Database (IMDb)¹⁵ and the UKFC¹⁴ to ascertain year of release, run time, age rating of film (as rated by the BBFC,¹⁶ see table 1 for detail) and country of origin. Film genre was determined from the IMDb categories¹⁵; where more than one category was listed, the most appropriate single genre was determined at the researcher's discretion.

We developed a coding scheme for all appearances of tobacco or tobacco-related products (tobacco intervals) in these films from previously reported methods,^{6–18–26} including the following

Table 1 British Board of Film Classification (BBFC)* age-rated restriction categories for films viewed in UK cinemas

Category	Description
Universal (U)	Suitable for all audiences
Parent Guidance (PG)	General viewing, but some scenes may be unsuitable for young children
12/12A†	(12) Suitable for 12 years and older, (12A) under 12s must be accompanied by an adult
15	Suitable for 15 years and over
18	Suitable for 18 years and older

*The BBFC is the independent, non-government body funded through fees from films submitted, which classifies films into age categories based on each film's suitability for viewing by the audience to advise local authorities, who license cinemas under the Licensing Act 2003.¹⁷

†12- and 12A-rated films have been amalgamated since the 12A film rating replaced the 12 rating for cinema film viewing in 2002.

categories: tobacco use, the consumption of any tobacco product on screen by any character; tobacco paraphernalia, the presence on screen of tobacco or related materials (such as cigarette packets, matches, lighters, ashtrays); and inferred tobacco use, the presence of a verbal or non-verbal inference (such as a comment on smoking, leaving a scene with a packet of cigarettes and lighter, or a smoky atmosphere). Brand appearances were defined as the occurrence of branded tobacco products, or of advertisements, logos or other unambiguous brand appearances. We used 5 min interval coding, which has previously been shown to be a sensitive means of detecting relative changes in behaviour levels²⁶ and used in studies exploring tobacco use in film.^{19–21 23 27} Tobacco use, tobacco paraphernalia and inferred tobacco use were coded as having occurred if observed at least once in any 5 min coding period. Multiple occurrences in the same category in the same 5 min period were counted as a single event; an occurrence that crossed a transition from one 5 min interval to the next was recorded as two events. Brand appearances were coded in the same way, except that when more than one brand appeared in a single 5 min interval, the total number and identity of different brands observed was recorded. Where identical branding of identical products (or advert, merchandise, etc) occurred in the same 5 min interval they were counted once.

ANALYSIS

Data were entered into Microsoft Office Excel²⁸ as the films were viewed, and analysed using Excel and STATA 10.²⁹ The total number of film hours coded, and the mean, SD and range of lengths were obtained using summary statistics in STATA. Tobacco use, tobacco paraphernalia and inferred tobacco use occurrences per hour for each film were calculated by dividing the sum of the tobacco episodes in each category in each film by the length of the film. The mean rate of occurrences in all films for each year was calculated by a similar method, as were total and mean figures for all categories of tobacco intervals combined. Trends of the rate of intervals per hour over time, occurrence of tobacco intervals between different BBFC categories, genres, country of origin and other comparisons were made using standard parametric (linear regression) or non-parametric methods (χ^2 test), as appropriate.

RESULTS

The 300 films totalled 582.8 h (34 969 min) of film time, with a mean (SD) of 116.7 (24.7) min, and a range from 78 (*Inspector Gadget*) to 224 (*Dances With Wolves*) minutes. The BBFC U, PG, 12/12A, 15 and 18 categories contained 15, 27, 26, 26 and 6%,

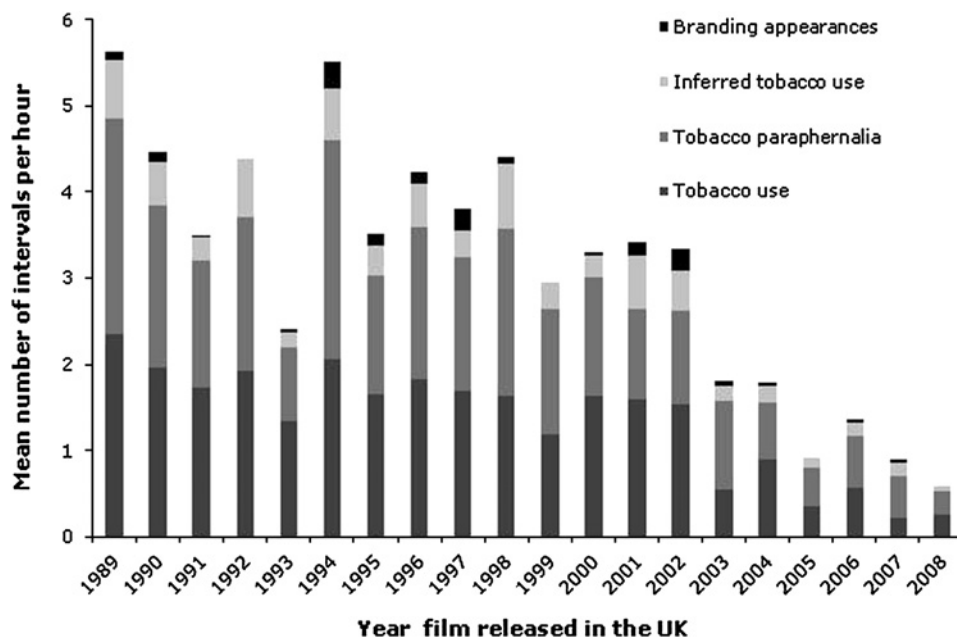
respectively, of films. Most films (94%) were produced by or in partnership with US producers, and 68% were produced solely from the US. UK producers were involved in 20% of films, and were solely responsible for 3%. Other countries were involved in producing 19% of films, but only one film, *Muriel's Wedding*, had no UK or USA involvement. The 15 most popular films typically accounted for ~50% of each year's gross UK cinema box office takings, based on yearly box office takings.

There were a total of 6994 intervals of 5 min (mean 23 per film, range 16–45) in the films. Tobacco intervals occurred in 1151 intervals (17% of the total) and in 210 (70%) films. The respective proportions of films containing tobacco intervals in each of the BBFC U (15/46), PG (49/80), 12/12A (59/77), 15 (69/78) and 18(16/19) categories were 33, 61, 77, 88 and 84%, respectively. Tobacco intervals occurred in 68% (192/281) of all youth-rated films (BBFC 15 and below). In the most popular films over the past 5 years (2004–8), 44% (33/75) contained at least one interval of tobacco; BBFC U, 19% (3/16); PG, 28% (5/18); 12/12A, 57% (16/28); 15, 73% (8/11); and 18, 50% (1/2). Of those films of 2004–8 containing tobacco intervals, 97% (32/33) were BBFC 15 and lower, and 73% (24/33) were deemed suitable for those aged under 15 years old. Tobacco interval occurrence, in total or any category except branding, was unrelated to country of origin or genre of film. The mean rate of occurrence of all tobacco intervals fell substantially and significantly ($p < 0.05$) between 1989 and 2008, from 3.5 to 0.6 per hour; similar trends occurred for all categories of tobacco interval (figure 1) (in each case $p < 0.05$, except for branding where $p = 0.315$). The occurrence of tobacco intervals in films also fell substantially within all BBFC categories (figure 2).

Tobacco use, predominantly cigarette smoking, occurred in 176 films (59% of all films); 92% (162/176) of the films containing tobacco use were in BBFC 15 and lower categories, and more than half (56%, (98/176)) in BBFC 12/12A and lower categories. Tobacco use did not occur in any U-rated film released after 1999 (figure 2). Tobacco paraphernalia appeared in 180 (60% of all films) films, typically comprising ashtrays (alone or with other paraphernalia in 64% (116/180) of films containing paraphernalia episodes), cigarette or other tobacco packs (62%, 112/180), lighters (49%, 89/180) and matches (26%, 46/180). Inferred tobacco use occurred in 223 episodes in 94 films (31% of all films), typically as non-verbal inferences (74%, 70/94). Brand appearances occurred 48 times in 28 (9% of all films) films, of which 10 (36%, 10/28) had UK production involvement; this proportion was significantly higher than that of all films with US production involvement (20%; $\chi^2 p < 0.05$). Brand appearances were most common in BBFC category 15 (39% of appearances were in this category), and 82% were certified as suitable for viewing by those under 18. The film with the highest number of branded tobacco intervals was *Pulp Fiction* (BBFC category 18), with brand appearances in 9 out of 31 intervals, though the predominant brand involved was fictional ('Red Apple') and available only from a movie prop supplier.³⁰ The largest number of different brands to appear in any film was 12, in *Bridget Jones's Diary* (BBFC category 15).

Individual brand intervals occurred a total of 74 times, with Marlboro (21 episodes in 13 films) and Silk Cut (14 episodes in 4 films) being the most frequent (figure 3). Details of appearance by film for these brands are presented in table 2. Marlboro occurred in all BBFC categories except U, and with no relationship to country of origin; six Marlboro appearances were in one film, *Terminator 3: Rise of the Machines*, all within one scene in a US petrol station. Silk Cut appearances all occurred between 1996 and 2004 in films set in the UK and made with UK

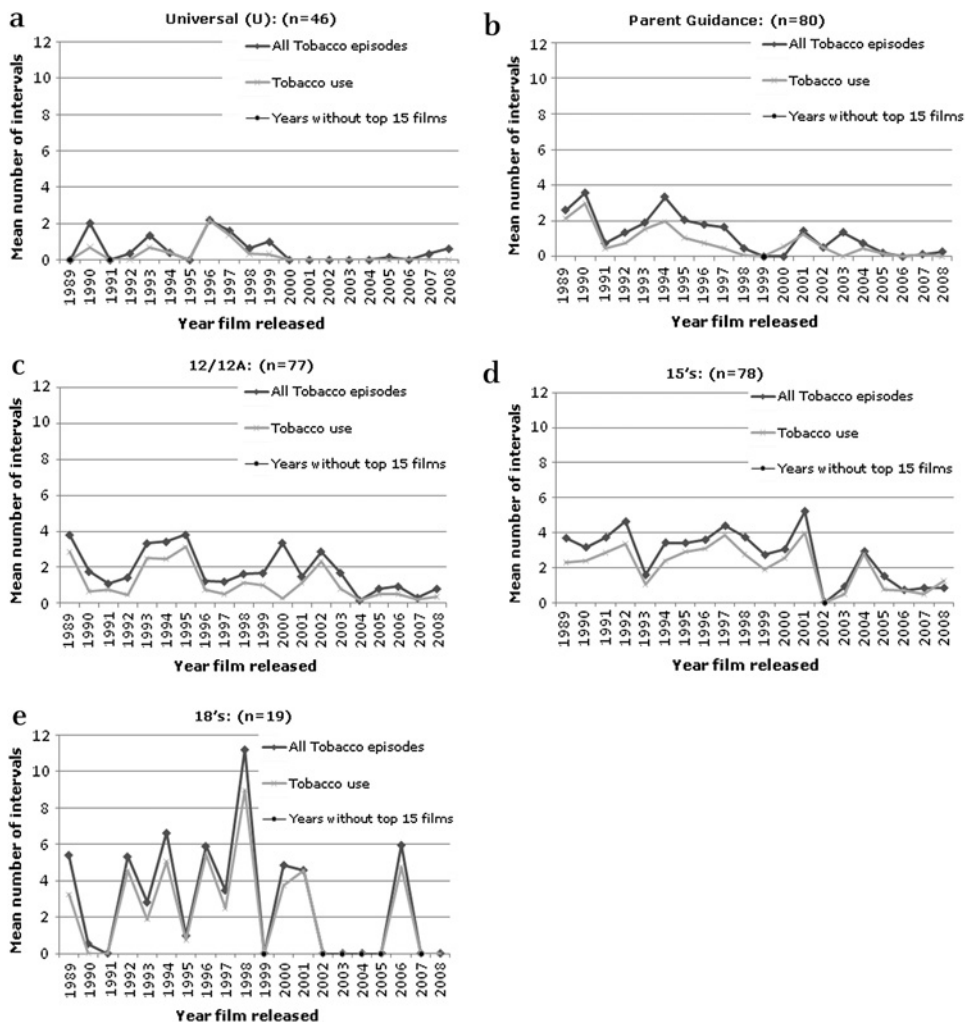
Figure 1 Trends in mean tobacco intervals per hour of film, 1989–2008.



production involvement. The most Silk Cut brand appearances were in *Bridget Jones's Diary* and *About a Boy*, both of which were categorised as suitable for youth viewing (BBFC categories 15 and 12, respectively). The lead character in *Bridget Jones's Diary* (Bridget Jones) smoked Silk Cut regularly throughout the film,

as in the novel on which the film was based.³¹ In *About a Boy* the main character (Will) also smoked Silk Cut regularly throughout the duration of the film, mostly in the presence of a 12-year-old boy. In the novel on which this film was based,³² Will smoked infrequently and no brand was identified.

Figure 2 Trends in all tobacco intervals and tobacco use intervals per hour per day by British Board of Film Classification (BBFC) category (all figures expressed as means).



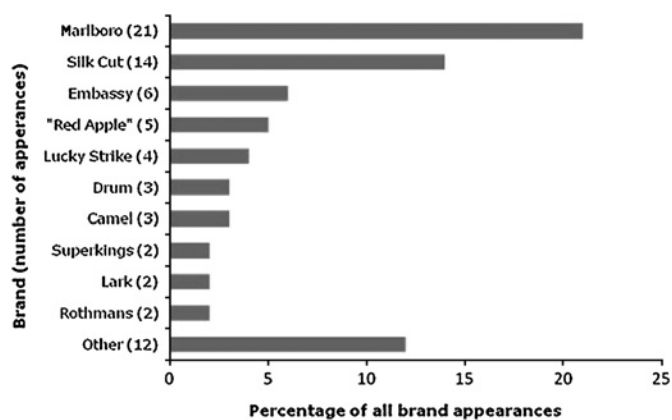


Figure 3 Individual brand intervals in film as percentage of all (74) appearances.

DISCUSSION

Exposure to tobacco smoking and other forms of tobacco imagery in film is a potent driver of youth and adult smoking,^{8–10} with major consequences for the subsequent health of the smoker such as lung cancer, COPD and pneumonia.² The serious potential hazard represented by tobacco exposure should also be a determinant of film classification, to prevent unnecessary or inappropriate exposure of children and young people to smoking role models. The BBFC guidelines on classification in relation to smoking state only that where '[smoking and tobacco use] feature to a significant extent in works which appeal to children, this will normally be indicated in the Consumer Advice and/or Extended Classification Information.' (p. 12).³⁵ Tobacco imagery appears not to have any considerable bearing on the BBFC age classification that a film receives. This study shows that appearances of all types of tobacco intervals in films viewed in the UK has declined substantially over the past 20 years, but that appearances remain common in most of the commercially successful films, and persist to some extent in films in all BBFC categories. It also shows that about two-thirds of films including tobacco intervals are currently classified by the BBFC as suitable for viewing by people aged <18, and over half (61%) by people aged <15. Over the past 5 years (2004–8) the proportion of films containing tobacco deemed suitable for those aged under 18 to watch has increased to 97%.

We found that smoking imagery is also more likely to occur in films that originate wholly or partly in the UK. The specific, repeated occurrence of some brands of cigarette in some films raises the possibility that product placement by tobacco companies is still occurring.

Our study was limited, for logistic reasons, to the top 15 most popular films each year, but, as these typically represent ~50% or more of total UK annual box office takings, they are likely to reflect the predominant pattern of tobacco exposure in films seen in UK cinemas each year. Coding the occurrence of any behaviour in films is difficult and there is no standardised method; we used an approach that has been widely used in film analysis,^{19 21 23 27} is reliable,^{19 23 27} and has been validated as a measure to detect relative changes in levels of behaviour.³⁴ The 5 min interval method we used was the same as used by several other researchers,^{19 23 27 35} though other approaches, such as coding scene changes as separate incidents with a 5 min interval approach,²¹ or using 1 min intervals¹⁸ or separate scenes to define intervals^{20 26} or methods of continuous measurement,^{22 24 25} have been described. Like Everett *et al*²³ we divided the number of 5 min intervals by the length of the film to take into consideration

the differences in film lengths. The different approaches have relative strengths and weaknesses, but the main impact of their differences will be in the quantification of occurrence frequency. The presence of tobacco intervals, and their relative frequency, is measured by all approaches.

Our finding that tobacco use, imagery and brand appearances are commonplace in films reflects the findings of several previous studies.^{18–24 26 35 36} However, ours is the first study to look at trends over time in appearances, including a wide range of tobacco paraphernalia and inference, and specific brand appearances, in the films most popular with UK audiences. Glantz *et al*³⁵ limited their definition of 'tobacco usage' to include only smoking or the appearance of ashtrays or advertisements, and Omidvari *et al*²² only actual smoking. Escamilla *et al*²⁷ included other paraphernalia (eg, cigarettes), merchandise and advertising in their investigations. Brand appearances^{24 25} have previously been defined similarly to the definition employed here. Our finding that 70% of the films viewed contained at least one tobacco interval or brand appearance is consistent with, though slightly lower than, estimates from other studies, most of which explored earlier time periods^{18–21} in which our data show occurrence to have been higher. The difference in results is likely to be explained by the differing time periods investigated.

There is little consensus in previous studies as to whether tobacco and related imagery in film has increased,²¹ stayed the same¹⁹ or decreased over time.¹⁸ Our study confirms a fall in the frequency of tobacco intervals in the most popular films viewed in the UK, and that exposure to tobacco use (but not to other imagery) in U-rated films has ceased since 2000. This is both important and encouraging from the point of view of public health, and in large part possibly reflects the impact of the 1998 Master Settlement Agreement³⁷ in the USA in 1998, in which the tobacco industry agreed to curtail or cease certain marketing practices in the USA, and after which appearances of tobacco intervals in a study of US films fell by about half.²⁴ However, this and the reported decline in brand appearances over a similar period²⁵ may have affected predominantly adult-restricted films (BBFC 18).²⁴ Others³⁶ suggest this may be the result of several factors working together (including a reduction overall in film production, and a producer–distributor shift away from adult-rated films). Although the number of brand appearances in our study was small, our other findings suggest that the decline in appearances in general has affected all films; brand appearances still persist in films rated suitable for viewing by children and young people. Titus *et al*³⁶ also found brand appearances persisting in films, and suggest that they may actually be increasing.

Previous research from the USA on individual brand appearances has identified Marlboro to be the most common brand,^{24 25 36} as in the present study, and this perhaps reflects the fact that Marlboro is the market leader in the USA, accounting for 42.4% of sales.³⁸ However Silk Cut holds only 5.2% of the UK market³⁹ and does not have a market share in the USA, so whilst it is not surprising that the brand did not feature in any American film, the strong brand prominence of Silk Cut in two UK films appears disproportionate. Whilst it can be argued that use of Silk Cut was accurate brand translation from book to film in *Bridget Jones's Diary*, that argument does not justify the brand prominence in *About a Boy*.

BBFC classification guidelines do not directly refer to tobacco use under the suitability criteria for certifying ratings of films submitted, but do state in U and PG category guidance that films receiving these certifications will show 'No potentially dangerous behaviour which young children are likely to copy' (p. 21).³³ No reference to tobacco use, smoking or imitable

Table 2 Films containing the most frequently depicted brands (Marlboro and Silk Cut), by year of UK release, country of origin, British Board of Film Classification (BBFC) certification and number of appearances:

Title	Release year	Country of origin	BBFC rating	Number of appearances*
Marlboro (21 appearances)				
<i>See No Evil Hear No Evil</i>	1989	USA	15	1
<i>The Commitments</i>	1991	Ireland/UK/USA	15	1
<i>Pulp Fiction</i>	1994	USA	18	2
<i>Interview With the Vampire</i>	1995	USA	18	1
<i>Stargate</i>	1995	France/USA	PG	2
<i>Muriel's Wedding</i>	1995	Australia/France	15	1
<i>Men in Black</i>	1997	USA	PG	1
<i>Bean</i>	1997	UK/USA	PG	1
<i>Sleepers</i>	1997	USA	15	1
<i>Sliding Doors</i>	1998	UK/USA	15	1
<i>Men in Black 2</i>	2002	USA	PG	2
<i>Terminator 3: Rise of the Machines</i>	2003	USA/Germany/UK	12A	6
<i>The Simpson's Movie</i>	2007	USA	PG	1
Silk Cut (14 appearances)				
<i>Trainspotting</i>	1996	UK	18	1
<i>Bridget Jones's Diary</i>	2000	UK/France	15	6
<i>About a Boy</i>	2002	USA/UK/France/Germany	12	6
<i>Bridget Jones: The Edge of Reason</i>	2004	UK/France/Germany/Ireland/USA	15	1

*Based on the number of 5 min intervals where branding appears. Where additional forms of the same brand name (cigarettes, advert, billboard, etc) occurred in the same 5 min interval the additional appearances were counted separately.

behaviour is mentioned in either of the other youth-rated age categories (BBFC 12/12A or 15). Given that the BBFC refers specifically to use of drugs, violence, bad language and sex in official guidelines (including strict limitations in youth-rated films), it is surprising, given the extent of the harm caused by smoking and other tobacco use, that these guidelines do not include tobacco.

Most adult smokers first become addicted in their teens³ and predominantly do so for psychosocial reasons⁴⁰ such as perceiving it as a sought-after adult behaviour, or as being rebellious. Direct advertising promotes smoking initiation by young people,⁴¹ and predicts established smoking in young adulthood.⁴² Furthermore, research has linked the presence of tobacco on screen to smoking initiation among young people,^{8 9 43 44} increased positive attitudes towards smoking⁴⁵ and the reinforcement of normative perceptions regarding smoking. On these grounds, some have called for films containing tobacco imagery to be automatically rated for adult viewing only,^{36 46–48} or for antitobacco adverts to be screened before films containing tobacco and for brand identification to be prohibited.⁴⁹ It has been argued that depiction of smoking in films should continue in the interests of factual accuracy and freedom of expression,⁴⁸ yet tobacco depicted in films is rarely factually accurate.¹² However, these considerations are not mutually exclusive from the need to protect children and young people from imagery, which can easily be achieved by more rational application of BBFC classification, such as ensuring that smoking and other tobacco use be excluded from all youth-rated films (BBFC U, PG, 12/12A, and 15), except where an actual historical figure is being represented or where the harms associated with smoking are being shown.¹² Specific brand exposure can also be avoided by the use of fictional brands, as in the case of 'Red Apple'.

Thus, although smoking imagery and branding images in the most popular films have become substantially less common over the past 20 years, it is apparent that children and young people watching films in the UK are still exposed to frequent and at times specifically branded tobacco imagery, particularly in films

originating from the UK. More consistent application of BBFC guidance by the BBFC could dramatically reduce this exposure, and hence protect children and young people from damaging imagery and encourage film makers to avoid tobacco imagery in films intended for younger audiences, without compromising artistic freedoms or factual accuracy.

Funding The UK Centre for Tobacco Control Studies is a UKCRC Centre of Public Health Research Excellence. Funding from the British Heart Foundation, Cancer Research UK, the Economic and Social Research Council, the Medical Research Council and the Department of Health, under the auspices of the UK Clinical Research Collaboration, is gratefully acknowledged.

Competing interests None.

Provenance and peer review Not commissioned; externally peer reviewed.

REFERENCES

1. WHO. *Why tobacco is a public health priority. Tobacco free initiative*. Geneva: World Health Organization, 2008. http://www.who.int/tobacco/health_priority/en/index.html.
2. Twigg L, Moon G, Walker S. *The smoking epidemic in England*. London: Health Development Agency, 2004. http://www.nice.org.uk/aboutnice/whoweare/aboutthehda/hdpublications/smoking_epidemic_in_england.jsp.
3. Department of Health. *Smoking kills: a white paper on tobacco*. London: HMSO, 1998. <http://www.archive.official-documents.co.uk/document/cm41/4177/4177.htm>.
4. *The Tobacco Advertising and Promotions Act (Chapter 36)*. London: HMSO, 2002. http://www.hmso.gov.uk/acts/acts2002/ukpga_20020036_en_1.
5. EU and Directorate General for Health and Consumers. *Report on the implementation of the EU tobacco advertising directive*. Brussels: Commission of the European Communities, 2008.
6. Mekemson C, Glantz SA. How the tobacco industry built its relationship with Hollywood. *Tob Control* 2002;**11**Suppl 1:181–91.
7. Lum KL, Polansky JR, Jackler RK, et al. Signed, sealed and delivered: 'big tobacco' in Hollywood, 1927–1951. *Tob Control* 2008;**17**:313–23.
8. Charlesworth A, Glantz SA. Smoking in the movies increases adolescent smoking: a review. *Pediatrics* 2005;**116**:1516–28.
9. Thrasher JF, Jackson C, Arillo-Santillan E, et al. Exposure to smoking imagery in popular films and adolescent smoking in Mexico. *Am J Prev Med* 2008;**35**:95–102.
10. Dalton MA, Ahrens MB, Sargent JD, et al. Relation between parental restrictions on movies and adolescent use of tobacco and alcohol. *Eff Clin Pract* 2002;**5**:1–10.
11. McCool JP, Cameron LD, Petrie KJ. Adolescent perceptions of smoking imagery in film. *Soc Sci Med* 2001;**52**:1577–87.

12. **WHO (World Health Organization).** *Smoke-free movies: from evidence to action.* Geneva: World Health Organization, 2009:1–29. http://whqlibdoc.who.int/publications/2009/9789241597937_eng.pdf.
13. **NCI (National Cancer Institute).** *The role of the media in promoting and reducing tobacco use Tobacco control Monograph No. 19.* Bethesda, MD: US Department of Health and Human Services, National Institute of Health, National Cancer Institute, 2008.
14. **UKFC.** UK Film Council, 2009. <http://www.ukfilmcouncil.org.uk/>.
15. **IMDb.** The Internet Movie Database (IMDb), 2009. <http://www.imdb.com/>.
16. **BBFC.** *The British Board of Film Classification*, 2009. <http://www.bbfc.co.uk/>.
17. *Licensing Act 2003, (Chapter 17).* London: HMSO, 2003. <http://www.opsi.gov.uk/acts/acts2003/en/03en17-e.htm>.
18. **Mekemson C,** Glik D, Titus K, *et al.* Tobacco use in popular movies during the past decade. *Tob Control* 2004;**13**:400–2.
19. **Hazan AR,** Lipton HL, Glantz SA. Popular films do not reflect current tobacco use. *Am J Public Health* 1994;**84**:998–1000.
20. **Dalton MA,** Tickle JJ, Sargent JD, *et al.* The incidence and context of tobacco use in popular movies from 1988 to 1997. *Prev Med* 2002;**34**:516–23.
21. **Stockwell TF,** Glantz SA. Tobacco use is increasing in popular films. *Tob Control* 1997;**6**:282–4.
22. **Omidvari K,** Lessnau K, Kim J, *et al.* Smoking in contemporary American cinema. *Chest* 2005;**128**:746–54.
23. **Everett SA,** Schnuth RL, Tribble JL. Tobacco and alcohol use in top-grossing American films. *J Community Health* 1998;**23**:317–24.
24. **Adachi-Mejia AM,** Dalton MA, Gibson JJ, *et al.* Tobacco brand appearances in movies before and after the master settlement agreement. *JAMA* 2005;**293**:2341–2.
25. **Sargent JD,** Tickle JJ, Beach ML, *et al.* Brand appearances in contemporary cinema films and contribution to global marketing of cigarettes. *Lancet* 2001;**357**:29–32.
26. **Worth KA,** Dal Cin S, Sargent JD. Prevalence of smoking among major movie characters 1996–2004. *Tob Control* 2006;**15**:442–6.
27. **Escamilla G,** Craddock AL, Kawachi I. Women and smoking in Hollywood movies: a content analysis. *Am J Public Health* 2000;**90**:412–4.
28. **Microsoft.** Microsoft Office Excel 2007 [program], 2007.
29. **StataCorp.** *STATA/SE 10.0 [program].* Texas: StataCorp LP, 2007.
30. **PropMasters.** *Pulp fiction red apple cigarette pack.* Kent: Prop Masters, 2009. http://www.propmasters.net/product_info.php?products_id=319.
31. **Fielding H.** *Bridget Jones's diary.* London: Pan Macmillan, 1997.
32. **Hornby N.** *About a boy.* London: Penguin Books Ltd, 2002.
33. **BBFC (British Board of Film Classifications).** *BBFC the guidelines.* London: British Board of Film Classifications, 2009:1–40.
34. **Harrop A,** Daniels M. Methods of time sampling: a reappraisal of momentary time sampling and partial interval recording. *J Appl Behav Anal* 1986;**19**:73–7.
35. **Glantz SA,** Kacirk KW, McCulloch C. Back to the future: smoking in movies in 2002 compared with 1950 levels. *Am J Public Health* 2004;**94**:261–3.
36. **Titus K,** Polansky JR, Glantz S. *Smoking trends in U.S. Movies 1991–2008. Breathe California of Sacramento-Emigrant Trails and the Center for Tobacco Control Research and Education,* San Francisco: University of California, 2009:1–42. <http://escholarship.org/uc/item/30q9j424>.
37. **Master settlement agreement,** 1998. <http://ag.ca.gov/tobacco/pdf/1msa.pdf>.
38. **StreetInsider.** *Highlights from Altria's (MO) Q2 conference call: Marlboro market share flat from Q1 at 42.4%.* Birmingham (USA): StreetInsider.com, 2009. [http://www.streetinsider.com/Earnings/Highlights+from+Altria%27s+\(MO\)+Q2+Conference+Call:+Marlboro+Market+Share+Flat+from+Q1+at+42.4%25/4811202.html](http://www.streetinsider.com/Earnings/Highlights+from+Altria%27s+(MO)+Q2+Conference+Call:+Marlboro+Market+Share+Flat+from+Q1+at+42.4%25/4811202.html).
39. **Talking Retail.** *Silk cut launches menthol addition.* London: Metropolis International Group Ltd, 2008. <http://www.talkingretail.com/products/product-news/11537-silk-cut-launches-menthol-addition.html>.
40. **Jarvis MJ.** Why people smoke. In: Britton J, ed. *ABC of smoking cessation.* Oxford: Blackwell Publishing & BMJ Books, 2004:4–6.
41. **Wellman RJ,** Sugarman DB, DiFranza JR, *et al.* The extent to which tobacco marketing and tobacco use in films contribute to children's use of tobacco: a meta-analysis. *Arch Pediatr Adolesc Med* 2006;**160**:1285–96.
42. **Gilpin EA,** White MM, Messer K, *et al.* Receptivity to tobacco advertising and promotions among young adolescents as a predictor of established smoking in young adulthood. *Am J Public Health* 2007;**97**:1489–95.
43. **Dalton MA,** Sargent JD, Beach ML, *et al.* Effect of viewing smoking in movies on adolescent smoking initiation: a cohort study. *Lancet* 2003;**362**:281–5.
44. **Sargent JD,** Beach ML, Adachi-Mejia AM, *et al.* Exposure to movie smoking: its relation to smoking initiation among US adolescents. *Pediatrics* 2005;**116**:1183–91.
45. **Sargent JD,** Dalton MA, Beach ML, *et al.* Viewing tobacco use in movies: does it shape attitudes that mediate adolescent smoking? *Am J Prev Med* 2002;**22**:137–45.
46. **Glantz S.** Commentary: smoking in movies: a major problem and a real solution. *Lancet* 2003;**362**:258–9.
47. **Pechmann C,** Shih CF. Smoking scenes in movies and anti-smoking advertisements before movies: effects on youth. *J Mark* 1999;**63**:1–13.
48. **Chapman S.** What should be done about smoking in movies? *Tob Control* 2008;**17**:363–367.
49. **McCarthy M.** Tobacco's long-time adversary takes on Tinseltown. *Lancet* 2001;**358**:44.