

# Gambling advertising during live televised male sporting events in Ireland: A descriptive study

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## Abstract

### Objectives

There are no data relating to gambling advertisements shown during live sporting events in Ireland. The aim of the present study was to analyse gambling advertisements shown during live sporting events broadcast in Ireland and to assess these advertisements for responsible gambling (RG) practices.

### Methods

Sixty-five live televised sporting events comprising Association Football (soccer), Rugby Union, and Gaelic Athletic Association (GAA) matches broadcast in Ireland were analysed. Pre-match (up to 30 minutes before kick-off), half-time, and post-match (up to 30 minutes after the match has ended) advertisement breaks were analysed for gambling advertisements, including in-game fixed (static advertising) and dynamic (electronic advertisements changing at regular intervals) pitch-side advertising. Gambling advertisements were studied for evidence of RG practices.

### Results

A total of 3602 television advertisements, 618 dynamic advertisements and 394 static advertisements were analysed. Gambling advertisements were shown in 75.4% (n=49) games

and was the seventh most commonly televised advertisement shown overall. Gambling advertising was more common in football (fourth most common advertisement) compared to rugby (twelfth most common) and GAA (thirteenth most common). Static and dynamic gambling advertising are common during football matches (second and first most common advertisements respectively). The majority of advertisements contained RG messaging, an age limit, and a RG organisation. No advertisements showing responsible gambling tools were observed.

### **Conclusions**

Gambling advertisements are commonly shown during live televised sporting broadcasts in Ireland, especially during live football matches and typically before the adult television watershed. Gambling legislation is required to minimise harm to vulnerable groups including children.

### **Keywords**

Gambling disorder, gambling addiction, gambling advertisements, Ireland, responsible gambling

## Introduction

Gambling on sporting events is embedded within the culture of watching sporting events (Hing *et al.*, 2015). Sports gambling is one of the most prevalent forms of online gambling and the most common form of gambling listed in the most recent UK Gambling Commission annual survey (Gambling Commission, 2019). In Ireland, a national survey of online gambling behaviours found “Horse race betting” and “Sports betting” accounted for over 50% of the participants gambling daily online (Columb and O’Gara, 2018). Betting on sports can be an integral part of the economics of the sport as evidenced by an exemption from a voluntary ban on “whistle-to-whistle” advertising during live sport being applied to horse racing due to the “commercial importance of gambling on its viability” (Conway, 2018).

Live sporting events are the most popular and most-watched broadcasts in the world, with events such as the Olympic Games and the FIFA World Cup attracting audiences of between 3 and 3.6 billion viewers (Fédération Internationale de Football Association, 2018, International Olympic Committee, 2012). Given the large exposure these events can offer businesses, advertising opportunities during sporting events are much sought after. The Super Bowl, the final championship game in the US National Football League (NFL), commands an average of 4.5million US dollars per thirty second slot which are the most expensive advertising slots in the world (Morrison, 2019).

Given the popularity of sports gambling, as well as the large audiences attracted to live sporting events, sports betting advertisement appear to have become prolific during live televised sporting events (Lole *et al.*, 2019). During the 2018 FIFA World Cup, betting advertisements were the most common advertisements shown, totalling almost 90 minutes of airtime during the month-long tournament (Duncan *et al.*, 2018). Significant betting advertising can be seen within sporting events, with half of the Premier League and 17 out of

24 clubs in the Championship teams in English football sporting gambling sponsors on their football jerseys (Davies, 2019). Additionally, one high-profile football player (i.e., Wayne Rooney) recently made national media headlines by taking the same jersey number (32) as the club's betting company sponsor (*32 Red*) in order to promote the betting sponsor (Ingle, 2019).

One of the difficulties with betting's association with popular sporting events and the widespread marketing of gambling during these events is the normalisation of gambling behaviours, especially for young men (Deans *et al.*, 2017b). Young adults (aged 16-24 years) have the highest prevalence of gambling disorder in the UK (Wardle *et al.*, 2011) and gambling advertisements has been shown to target content specifically at young male fans, showing gambling as part of the normal sports watching experience and as part of normal socialising with male friends (Deans *et al.*, 2016). Young male gamblers also described sports betting as "normal" and used sports gambling as a way to provoke discussion with peers and fit into their social group (Deans *et al.*, 2017a)

There is also widespread concern about the effect that gambling advertisement has on young children (Monaghan *et al.*, 2008, Lopez-Gonzalez *et al.*, 2017). Children have been shown to have detailed recall of sports betting advertisements and betting products (Pitt *et al.*, 2017) and the majority of children perceive sports gambling to be a normal part of sport (Pitt *et al.*, 2016). One major concern is the lack of restrictions placed by the government on gambling advertisement prior to the 9pm watershed in some countries (Lopez-Gonzalez *et al.*, 2017), including Ireland (Staines, 2019).

The characteristics of sports betting within advertisements also plays a role in influencing the onset of problem gambling behaviours (Lopez-Gonzalez *et al.*, 2017). The advertisement of in-play betting, the greater variety and frequency of bets leading to faster reward mechanisms

and emphasis on skill and control characteristics of betting rather than luck (such as accumulator bets and “cash-out” options) can contribute to the development of problem gambling (Griffiths and Auer, 2013). These gambling product features can also be seen during live viewing of sports games, with a study of sports betting marketing during live Australian Football League games shown to encourage live betting within games and further embed betting within the sport (Thomas *et al.*, 2012).

In Ireland, the establishment of an independent gambling regulator has been approved by the Irish government and this regulator may play a role in the regulation of gambling advertisement (Bray, 2019). However, there is no date set for the establishment of this regulator (Bray, 2019). There have also been concerns expressed by Irish gamblers in relation to gambling advertising, with 76% stating that the dangers of gambling should be advertised (Columb and O'Gara, 2018). Currently there are no data relating to the amount of gambling advertisements shown during live sporting events in Ireland or the characteristics of these gambling advertisements, including responsible gambling messaging. Therefore, the aim of the present study was to analyse gambling advertisements shown during popular live sporting events broadcast in Ireland.

## **Methods**

A total of 65 televised live sporting events were randomly selected between the months of December 2018 and July 2019. Sporting events featuring association football (also referred to as “football” or “soccer” and will be referred to as “football” in the present paper), Rugby Union (referred to as “rugby” in the present paper) and Gaelic Athletic Association (GAA) sports (Gaelic football and hurling) were selected due to their popularity in Ireland as well as their similarity in terms of format (two periods of gameplay with an interval between). These

live televised events were viewed across a number of different broadcasting platforms available to Irish customers including *Sky Sports*, *BT Sports*, *Eir Sports*, *RTE*, *TG4*, and *Virgin Media*. Football accounted for 35 matches (53.8%), with rugby and GAA sports accounting for 15 matches each (23.1%). More football matches were collected compared to rugby and GAA sports given the larger amount of live televised games on offer in Ireland.

For each televised live sporting event, data were collected on the advertisements shown before kick-off (up to thirty minutes before the game commenced), during the half-time interval, and after the sporting event (up to thirty minutes after the game ended or until the next scheduled television programme commenced). Each advertisement was recorded during these periods and categorised based on the top 20 categories for advertisements shown in Ireland in 2018 (Medialive, 2018). The categories listed are “Retail”, “Household services”, “Finance”, “Food”, “Drink”, “Cosmetics and toiletries”, “Motors”, “Entertainment and the media”, “Pharmaceutical”, “Government, social, political organisations”, “Household stores”, “Travel and transport”, “Leisure equipment”, “Electronic equipment and accessories”, “Business and industrial”, “Household appliances”, “Mail Order”, “Computers”, “Clothing and accessories” and “Gardening and agriculture”. Separate categories for “Gambling”, “Responsible gambling” and “Internal advertising” (i.e., advertising for the platform showing the live sport) were also included as additional categories. The frequency of gambling advertisements was compared to other advertising categories during the live televised sporting events. Advertisements for the national lottery were also included in this analysis as a form of gambling.

A proforma was created for use by the researchers analysing the advertisements, with sections containing the number of advertisement breaks, when in relation to the televised game the advertisement occurred, and the name of each advertisement shown during the advertisement break. Each sports betting advertisement was analysed for the type of betting

offer promoted (live odds, in-play betting, free bet offer, cash out, odds boost) and for evidence of responsible gambling (RG) practices, RG message (either audio or text), RG organisation advertised, age limit advertised, RG tools advertised (deposit limit, spending limit, loss limit, session limit).

Fixed and dynamic advertising shown within the stadium during games were also evaluated. Fixed advertising refers to the advertising on static boards within the stadium (Jones *et al.*, 2013). Dynamic advertising refers to advertising on electronic banners within the stadium that change at regular intervals from one advertisement to another (Jones *et al.*, 2013). In each game, the advertisement categories of each fixed and dynamic advertisement displayed on the broadcast angle of the pitch (i.e., the furthest side of the pitch displayed on television) were noted and used as a representative sample of the stadium's fixed and dynamic advertising. To obtain a representative sample of the dynamic advertisements, 15 minutes of dynamic advertising were collected per match. Descriptive statistics were performed on each variable for each of the sports reviewed (football, rugby, GAA) and the accumulated total advertisements. Comparisons were made between each of the sports in the present study looking at frequency of gambling advertisement

## **Results**

### ***Gambling advertisements***

Out of the total 65 games analysed, 49 games showed at least one gambling advertisement (including national lottery advertisement) pre-game, during game, and post-game parameters of the present study (75.4%). Of these games, football accounted for 35 games (100% of football sample), rugby accounted for eight games (53.3% of rugby sample) and GAA accounted for six games (40% of GAA sample). The median kick-off times for the matches

examined were Football (15:00 hours), Rugby (15:15 hours), and GAA (16:00 hours). All matches examined had a kick-off time prior to the television watershed (21:00 hours), with 20:00 hours the latest kick-off time.

A total of 3602 advertisements were evaluated in the present study. This consisted of 383 advertisement breaks, with 125 advertisement breaks shown pre-kick-off, 157 advertisement breaks during the half-time interval and 101 advertisement breaks shown after the game ended. Gambling advertisements were shown during 66.2% of pre-game advertisement breaks, 72.3% of in-game advertisement breaks, and 44.6% of post-game advertisement breaks. During televised rugby matches, gambling advertisements were shown during 46.7% of pre-game advertisement breaks (n=7), 53.3% of in-game advertisement breaks (n=8), and 33.3% of post-game advertisement breaks (n=5). During televised GAA matches, gambling advertisements were shown during 13.3% of pre-game advertisement breaks (n=2), 33.3% of in-game advertisement breaks (n=5), and 20.0% of post-game advertisement breaks (n=3). During televised football matches, gambling advertisements were shown during 97.1% of pre-game advertisement breaks (n=34), 97.1% of in-game advertisement breaks (n=34), and 60.0% of post-game advertisement breaks (n=21).

*Table 1 about here*

The most common form of advertisement shown during the televised live sporting events were “Internal advertisements” (19%), followed by “Motors” (12.7%), “Food” (10.2%), “Retail” (9.1%) and “Drink” (8.1%). “Gambling” (6.4%) was listed as the seventh most common advertisement overall. The other categories were “Finance” (7.7%), “Household services” (6.0%), “Government, social, political organisations” (5.7%), “Cosmetics and toiletries” (3.6%), “Pharmaceutical” (3.1%), “Entertainment and the media” (2.6%), “Travel and transport” (2.6%), “Business and industrial” (1.9%), “Electronic equipment and

accessories” (1.1%), “Clothing and accessories” (0.2%), “Gardening and agriculture” (0.2%) and “Household stores” (0.1%). There were no “Responsible Gambling” advertisements shown on any advertisement break during the study.

Football advertisements accounted for 2320 advertisements. Advertisements for “Internal advertising” (21.2%) were the most common followed by “Motors” (15.9%), “Food” (10.9%), “Gambling” (8.5%) and “Drink” (8.1%). “Gambling” (8.5%) was the fourth most common advertisement overall. The other categories were “Retail” (7.9%), “Government, social, political organisations” (5.5%), “Finance” (4.5%), “Household services” (3.7%), “Pharmaceutical” (3.4%), “Cosmetics and toiletries” (2.8%), “Entertainment and the Media” (2.7%), “Travel and transport” (2.5%), “Electronic equipment and accessories” (1.4%), “Business and industrial” (0.9%) and “Clothing and accessories” (0.1%).

Rugby advertisements accounted for 666 advertisements. Advertisements for “Internal advertising” (19.7%) were the most common followed by “Finance” (13.2%), “Food” (9.5%), “Retail” (9.2%) and “Household services” (8.1%). “Gambling” (3.5%) was the twelfth most common advertisement overall. The other categories were “Cosmetics and toiletries” (6.9%), “Motors” (6.2%), “Drink” (5.1%), “Government, social, political organisations” (4.7%), “Travel and transport” (4.4%), “Business and industrial” (3.9%), “Pharmaceutical” (2.9%), “Entertainment and the Media” (1.7%), “Electronic equipment and accessories” (0.9%), “Household stores” (0.3%) and “Clothing and accessories” (0.2%).

GAA advertisements accounted for 616 advertisements. Advertisements for “Finance” (14.0%) were the most common followed by “Retail” (13.6%), “Household services” (12.3%), “Drink” (11.0%) and “Internal advertising” (10.2%). “Gambling” (1.5%) was the thirteenth most common advertisement overall. The other categories were “Food” (8.8%), “Motors” (7.3%), “Government, social, political organisations” (7.3%), “Business and

industrial” (3.2%), “Cosmetics and toiletries” (3.1%), “Entertainment and the media” (3.1%), “Pharmaceutical” (2.1%), “Gardening and agriculture” (1.0%), “Travel and transport” (0.6%), “Clothing and accessories” (0.5%). “Household stores” (0.2%) and “Electronic equipment and accessories” (0.2%).

### ***Fixed and dynamic advertising***

A total of 1012 fixed and dynamic advertisements were evaluated, consisting of 394 fixed advertisements and 618 dynamic advertisements.

*Table 2 about here*

#### *Fixed advertising*

The most common fixed advertisements shown during televised live sporting events were “Business and industrial” (23.4%), followed by “Retail” (16.2%), “Gambling” (9.1%), “Household services” (7.9%) and “Internal advertising” (7.9%). “Gambling” (9.1%) was the third most common fixed advertisement overall. The other categories were “Finance” (7.1%), “Drink” (6.9%), “Clothing and accessories” (4.8%), “Government, social, political organisations” (4.6%), “Food” (3.6%), “Motors” (3.3%), “Travel and transport” (2.5%), “Entertainment and the media” (2.0%), “Cosmetics and toiletries” (0.3%), “Pharmaceutical” (0.3%) and “Responsible gambling” (0.3%).

Football advertisements accounted for 147 fixed advertisements. Fixed advertisements for “Business and industrial” (28.6%) were the most common followed by “Gambling” (20.4%), “Retail” (11.6%), “Household services” (6.8%) and “Finance” (6.1%). “Gambling” (8.5%) was listed as the 2<sup>nd</sup> most common advertisement overall. The other categories were “Food” (5.4%), “Clothing and accessories” (4.8%), “Internal advertising” (4.8%), “Travel and

transport” (4.1%), “Drink” (3.4%), “Motors” (2.0%), “Government, social, political organisations” (1.4%) and “Responsible gambling” (0.7%).

Rugby advertisements accounted for 165 fixed advertisements. Fixed advertisements for “Business & Industrial” (26.7%) were the most common followed by “Drink” (13.3%), “Retail” (9.7%), “Household services” (9.7%) and “Clothing and accessories” (7.3%). “Gambling” (3.6%) was the tenth most common advertisement overall. The other categories were “Internal advertising” (6.1%), “Finance” (5.5%), “Motors” (4.8%), “Entertainment and the media” (4.8%), “Food” (3.0%), “Government, social, political organisations” (2.4%), “Travel and transport” (1.8%), “Cosmetics and toiletries” (0.6%) and “Pharmaceutical” (0.6%).

GAA advertisements accounted for 82 fixed advertisements. Fixed advertisements for “Retail” (37.8%) were the most common followed by “Internal advertising” (17.1%), “Government, social, political organisations” (14.6%), “Finance” (12.2%) and “Business and industrial” (7.3%). There were no “Gambling” fixed advertisements found in the GAA analysis. The other categories were “Household services” (6.1%), “Motors” (2.4%), “Food” (7.3%) and “Travel and transport” (1.2%).

### *Dynamic advertising*

The most common dynamic advertisement shown during televised live sporting events were for “Gambling” (16.0%) followed by “Business and industrial” (15.9%), “Retail” (10.5%), “Drink” (7.8%) and “Finance” (7.3%). The other categories were “Travel and transport” (6.3%), “Internal advertising” (6.3%), “Household services” (5.8%), “Motors” (5.2%), “Clothing and accessories” (4.7%), “Food” (3.7%), “Entertainment and the media” (2.8%), “Government, social, political organisations” (2.6%) “Cosmetics and toiletries” (1.8%),

“Electronic equipment and accessories” (1.3%), “Responsible gambling” (1.0%), “Household appliances” (0.3%), “Computers” (0.3%), “Pharmaceutical” (0.2%), “Household stores” (0.2%) and “Gardening and agriculture” (0.2%). GAA did not contain any dynamic advertisements.

Football advertisements accounted for 540 dynamic advertisements. Dynamic advertisements for “Gambling” (18.0%) were the most common followed by “Business and industrial” (15.7%), “Retail” (11.1%), “Drink” (7.2%) and “Finance” (6.9%). The other categories were “Travel and transport” (6.5%), “Internal advertising” (6.3%), “Household services” (5.2%), “Motors” (5.2%), “Clothing and accessories” (4.3%), “Food” (3.7%), “Government, social, political organisations” (2.8%), “Entertainment and the media” (2.0%), “Cosmetics and toiletries” (1.5%), “Electronic equipment and accessories” (1.5%), “Responsible gambling” (1.1%), “Household appliances” (0.4%), “Computers” (0.4%), “Household Stores” (0.2%) and “Gardening and agriculture” (0.2%).

Rugby advertisements accounted for 78 dynamic advertisements. Dynamic advertisements for “Business and industrial” (16.7%) were the most common followed by “Drink” (11.5%), “Household services” (10.3%), “Finance” (10.3%) and “Entertainment and the media” (7.7%). “Gambling” (2.6%) was the thirteenth most common advertisement overall. The other categories were “Clothing and accessories” (7.7%), “Retail” (6.4%), “Internal advertising” (6.4%), “Motors” (5.1%), “Travel and transport” (5.1%), “Food” (3.8%), “Cosmetics and toiletries” (3.8%), “Pharmaceutical” (1.3%) and “Government, social, political organisations” (1.3%).

### ***Sport gambling advertisement analysis***

A total of 230 sport gambling advertisements were observed in the present study. Football accounted for 198 advertisements (86.1%), rugby accounted for 23 advertisements (10.0%) and GAA accounted for nine advertisements (3.9%). Thirteen separate gambling companies produced 35 unique advertisements used in the live televised sporting events described in the present study. In relation to responsible gambling, none of the advertisements shown during the present study promoted responsible gambling tools (such as deposit limits, spending limits, loss limits and session limits). The majority of advertisements did show an age limit (88.6%) and a responsible gambling message (88.6%). In relation to a responsible gambling organisation advertised, 60.0% of the advertisements contained reference to a responsible gambling organisation. The overall number of betting offers promoted were small in the present study, with live odds (5.7%) and odds boost (5.7%) being the most common betting promotion offered, followed by in-play betting, free betting, and odds boost (2.9% each). No advertisements offered in-play odds.

## **Discussion**

The aim of the present study was to analyse gambling advertisements shown during popular live sporting events broadcast in Ireland. The main finding of the present study demonstrated that gambling advertisements are common during sporting events televised in Ireland, with over three-quarters of broadcasts showing at least one gambling advertisement and gambling advertisements being the seventh most common form of advertisement shown. The largest number of gambling advertisements were shown during the half-time interval, followed by pre-game. The lowest number were shown post-game. This suggests that gambling advertisements are primarily placed at these times to encourage betting on the sporting event being broadcast.

Football matches showed a high percentage of gambling advertisements during advertisement breaks compared to the other sports examined. Gambling advertisements were the fourth most common form of advertising shown during football advertisement breaks, compared to the twelfth most common during rugby advertisement breaks and the thirteenth most common during GAA advertisement breaks. This aligns with conclusions made from previous research examining advertising during football matches, with football described as being “saturated” with gambling advertisements on both football highlight shows and during broadcast football matches (Cassidy and Ovenden, 2017) and being more common than both hyper-palatable food and alcoholic beverage advertisements (Cassidy and Ovenden, 2017). Football also had gambling advertisements shown in every game examined in the present study, reinforcing the idea of the normalisation of gambling in sports (Deans *et al.*, 2017b).

Interestingly, gambling advertisements was the most common dynamic advertisement and second most common fixed advertisement shown during live football broadcasts. This finding, aligned with the fact that over 60% of Premier League and Championship football teams having shirt betting sponsors, shows that the majority of gambling advertising happens within games. This large amount of in-game betting advertising has been seen in previous studies examining football matches (Cassidy and Ovenden, 2017) and in Australian rules football (Thomas *et al.*, 2012). Notably, these types of advertisement are not included in the voluntary “whistle-to-whistle” ban agreed by some betting companies (Conway, 2018). Electronic signage, such as the dynamic advertisements, allow more information to be retained and recalled compared to static messaging (Monaghan and Blaszczyński, 2007). Interventions should be aimed at reducing the amount of dynamic and static advertising shown during live sports in order to reduce exposure to this type of advertising.

Rugby union matches showed far fewer gambling advertisements compared to football, with only 3.5% of all advertisements being related to gambling. Rugby also had few static and

dynamic gambling advertisements, with gambling advertising ranking tenth and thirteenth most common respectively. Rugby union is considered not to have the same relationship to gambling as football (TheRugbyPaper, 2018) and the low level of advertising seen in the present study may reflect the lesser popularity of the sport compared to football. In Australia, where rugby league is more popular, rugby league attracted more frequent gambling behaviours (25.7% betting at least weekly) compared to the less popular rugby union (12.4% betting at least weekly) and football (12.7% betting at least weekly) (Hing *et al.*, 2015). There are concerns about gambling sponsorship becoming more prevalent in the sport, with Premiership Rugby (the top division in English rugby union) announcing *BetUK.com* as its official betting sponsor for the 2019-20 season (Premiership Rugby, 2019).

GAA matches had the lowest number of gambling advertisements among the three sports with only 1.5% of television advertisements shown relating to gambling advertisements. GAA also had no fixed or dynamic advertising in relation to sports gambling. This may be in part to a recent decision by the GAA Annual Congress to ban all gambling advertising for any “competition, team, playing gear or facility” (Harrington, 2018, para. 2). This move was encouraged by the number of their members seeking help for gambling addiction within the organisation and to “protect the integrity of our games” (Harrington, 2018, para. 3). The GAA provides an example of proactive gambling regulation that could be beneficial across other sports.

There were no responsible gambling advertisements observed during the present study. There are a number of responsible gambling advertisements running currently during live sports events by gambling operators (e.g. *Sky Bet*) (Oakes, 2017) and responsible gambling organisations such as *GambleAware* (GambleAware, 2019). Given that no responsible gambling advertisements were viewed during the present study highlights the relative scarcity of these advertisements and the need for increased advertisement of this type. The majority of

advertisements showed age limits and responsible gambling messages, as well as naming a responsible gambling organisation that individuals could contact. These messages have been shown to lack efficacy in increasing responsible gambling practices (Newall *et al.*, 2019) and that these messages are likely to be dismissed in part due to the overwhelmingly positive portrayal of gambling in these advertisements (Parke *et al.*, 2015).

All matches containing gambling advertisements in the present study commenced their broadcast prior to the Irish watershed. This is of concern due to the susceptibility of children watching gambling advertisements (Monaghan *et al.*, 2008). There has been a voluntary campaign from some gambling operators for a “whistle-to-whistle” ban on gambling advertising (Conway, 2018) but the study here shows that, for live sporting events broadcast in Ireland, there is no shortage of gambling advertising from both in-game advertising and advertising during intermissions. Such interventions require input on a legislative level with further efforts needed in this regard (Monaghan *et al.*, 2008). Countries such as Australia have already taken legislative steps in regulating gambling advertising during live televised sports, with a “whistle-to-whistle” ban on gambling advertisements during their most popular live televised sports (Toscano and Duke, 2018). Italy have passed legislation banning all direct, indirect, sponsorship, and promotional gambling advertisements (iGamingBusiness, 2019). The examples set by these countries could be of benefit to Ireland to improve gambling advertisement standards.

There are some limitations to the present study. Given the availability of the live sporting events, there was an unequal number of sporting events reviewed. Increased numbers of the other sporting events may influence the results of the present study. The sample of football matches watched was taken from one channel only, which may represent the findings from this channel and may not be representative of live football matches on other channels. This paper only analysed male sporting events broadcast in Ireland and did not include female

sporting events. This would affect the generalisability of these findings to female sports and further studies in this area are recommended including an analysis of female sporting event advertisements. Finally, the present study did not look at other popular televised sports such as golf and boxing, or sports reliant on sports gambling such as horse racing (Conway, 2018)

In conclusion, there is an argument for the regulation of gambling advertising within sport in Ireland. Gambling advertisements are being regularly shown throughout the day and throughout sporting events increasing exposure to children and adolescents. While some companies have entered into a voluntary ban from in-game advertising, the research here shows that gambling advertisements are still very prominent within sports games, especially matches. Gambling legislation should be introduced to limit gambling advertising during sporting events and to minimise harm to vulnerable groups including children and to avoid the normalisation of gambling associated with sporting events.

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### **Conflicts of interest**

David Columb, Man Ching Wong, Vincent O'Mahony, and Colin O'Gara have no conflicts of interest to disclose. Mark D Griffiths' university currently receives funding from Norsk Tipping (the gambling operator owned by the Norwegian Government) for ongoing research. MDG has also received funding for a number of research projects in the area of gambling

education for young people, social responsibility in gambling and gambling treatment from Gamble Aware (formerly the Responsibility in Gambling Trust), a charitable body which funds its research program based on donations from the gambling industry. MDG also undertakes consultancy for various gaming companies in the area of social responsibility in gambling.

### **Ethical standards**

The authors assert that all procedures contributing to this work comply with the ethical standards of the relevant national and institutional committee on human experimentation with the Helsinki Declaration of 1975, as revised in 2008. No ethical approval was sought for the present study given that all the data were secondary data.

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## Tables

**Table 1.** *Types of advertising broadcast during different types of sporting events*

<i>Type of advertisement</i>	<i>Football</i>	<i>Rugby</i>	<i>GAA</i>	<i>Total</i>	<i>%</i>
Internal advertising	491	131	63	685	19.0
Motors	370	41	45	456	12.7
Food	252	63	54	369	10.2
Retail	183	61	84	328	9.1
Drink	189	34	68	291	8.1
Finance	104	88	86	278	7.7
Gambling	198	23	9	230	6.4
Household Services	85	54	76	215	6.0
Government, social, political organisations	128	31	45	204	5.7
Cosmetics and toiletries	64	46	19	129	3.6
Pharmaceutical	79	19	13	111	3.1
Entertainment & the media	62	11	19	92	2.6
Travel and transport	59	29	4	92	2.6
Business and industrial	21	26	20	67	1.9
Electronic equipment and accessories	33	6	1	40	1.1
Clothing and accessories	2	1	3	6	0.2
Gardening and agriculture	0	0	6	6	0.2
Household stores	0	2	1	3	0.1
Leisure equipment	0	0	0	0	0.0
Household appliances	0	0	0	0	0.0
Mail Order	0	0	0	0	0.0
Computers	0	0	0	0	0.0
Responsible Gambling	0	0	0	0	0.0
Total	2320	666	616	3602	100.0

**Table 2.** *Types of fixed and dynamic advertising shown during sporting events*

<i>Type of advertisement</i>	<i>Football</i>	<i>Rugby</i>	<i>GAA</i>	<i>Total</i>	<i>%</i>
Business and industrial	131	57	6	194	19.2
Gambling	127	8	0	135	13.3
Retail	79	21	31	131	12.9
Drink	44	31	0	75	7.4
Internal advertising	41	15	14	70	6.9
Finance	42	17	10	69	6.8
Household services	38	24	5	67	6.6
Travel and transport	41	7	1	49	4.8
Clothing and accessories	28	18	0	46	4.5
Motors	31	12	2	45	4.4
Food	28	8	1	37	3.7
Government, social, political organisations	17	5	12	34	3.4
Entertainment and the media	11	14	0	25	2.5
Cosmetics and toiletries	8	4	0	12	1.2
Electronic equipment and accessories	8	0	0	8	0.8
Responsible gambling	7	0	0	7	0.7
Pharmaceutical	0	2	0	2	0.2
Household appliances	2	0	0	2	0.2
Computers	2	0	0	2	0.2
Household stores	1	0	0	1	0.1
Gardening and agriculture	1	0	0	1	0.1
Leisure equipment	0	0	0	0	0.0
Mail order	0	0	0	0	0.0
Total	687	243	82	1012	100.0

## Appendices

### Appendix 1: Football matches included in study

<i>Football matches</i>	<i>Channel</i>	<i>Date</i>	<i>Kick-off time</i>
Aston Villa vs. Leeds United	Sky Sports Football	23/12/2018	13:30
Brighton vs. Liverpool	Sky Sports Football	12/01/2019	15:00
Burnley vs. Tottenham Hotspur	Sky Sports Football	23/02/2019	12:30
Bury vs. Lincoln	Sky Sports Football	26/01/2019	17:30
Cardiff City vs. Chelsea	Sky Sports Football	31/03/2019	14:05
Chelsea vs. Manchester City	Sky Sports Football	24/02/2019	16:30
Crystal Palace vs. Chelsea	Sky Sports Football	30/12/2018	12:00
Doncaster vs. Barnsley	Sky Sports Football	15/03/2019	19:45
Everton vs. Chelsea	Sky Sports Football	17/03/2019	16:30
Everton vs. Leicester City	Sky Sports Football	01/01/2019	12:30
Everton vs. Liverpool	Sky Sports Football	03/03/2019	16:15
Fulham vs. Chelsea	Sky Sports Football	03/03/2019	14:05
Fulham vs. Liverpool	Sky Sports Football	17/03/2019	14:15
Fulham vs. Manchester City	Sky Sports Football	30/03/2019	12:30
Hull vs. Swansea	Sky Sports Football	22/12/2018	17:30
Leeds United vs. Norwich	Sky Sports Football	02/02/2019	17:30
Leicester City vs. Manchester United	Sky Sports Football	03/02/2019	14:05
Leicester City vs. Newcastle United	Sky Sports Football	12/04/2019	20:00
Liverpool vs. Chelsea	Sky Sports Football	14/04/2019	16:30
Liverpool vs. Tottenham	Sky Sports Football	31/03/2019	17:30
Livingston vs. Rangers	Sky Sports Football	27/01/2019	15:00
Manchester City vs. Arsenal	Sky Sports Football	03/02/2019	16:30
Manchester United vs. Liverpool	Sky Sports Football	24/02/2019	14:05
Manchester United vs. Watford	Sky Sports Football	30/03/2019	15:00
Millwall vs. Blackburn	Sky Sports Football	12/01/2019	17:30
Newcastle vs. Huddersfield	Sky Sports Football	23/02/2019	15:00
Preston vs. Derby	Sky Sports Football	01/02/2019	19:45
Southampton vs. Manchester City	Sky Sports Football	30/12/2018	14:15
St Mirren vs. Hibernian	Sky Sports Football	27/01/2019	13:30
Stoke City vs. West Bromwich	Sky Sports Football	09/02/2019	17:30
Tottenham Hotspur vs. Newcastle	Sky Sports Football	02/02/2019	12:30
Tottenham vs. Wolves	Sky Sports Football	29/12/2018	15:00
Watford vs. Leicester	Sky Sports Football	03/03/2019	12:00
West Ham United vs. Fulham	Sky Sports Football	22/02/2019	19:45
Wolves vs. Newcastle	Sky Sports Football	11/02/2019	20:00

**Appendix 2: Rugby matches included in study**

<i>Rugby matches</i>	<i>Channel</i>	<i>Date</i>	<i>Kick-off time</i>
Gloucester vs. Munster	BT Sport	11/01/2019	19:45
Leinster vs. Toulouse	BT Sport	11/01/2019	13:00
Ulster vs. Racing	BT Sport	12/01/2019	15:15
Dragons vs. Munster	Eir Sport	26/01/2019	15:00
Leinster vs. Southern Kings	Eir Sport	22/02/2019	19:55
Munster vs. Leinster	Eir Sport	29/12/2018	17:15
Leinster vs. Ulster	Eir Sport	27/04/2019	17:15
Munster vs. Connacht	Eir Sport	27/04/2019	19:35
Cardiff vs. Connacht	TG4	26/01/2019	15:00
Scarlets vs. Munster	TG4	02/03/2019	17:00
Connacht vs. Ospreys	TG4	02/03/2019	14:45
Italy vs. Wales	Virgin Media	09/02/2019	16:45
Ireland vs. Scotland	Virgin Media	09/02/2019	14:15
England vs. France	Virgin Media	10/02/2019	15:00
Leinster vs. Toulouse	Virgin Media	21/04/2019	15:15

**Appendix 3: GAA matches included in study**

<i>GAA matches</i>	<i>Channel</i>	<i>Type</i>	<i>Date</i>	<i>Kick-off time</i>
Limerick vs. Waterford	TG4	Hurling	31/03/2019	14:00
Kerry vs. Mayo	TG4	Gaelic Football	31/03/2019	16:00
Westmeath vs. Laois	TG4	Gaelic Football	06/04/2019	16:45
St Thomas vs. Liam Mellows	TG4	Hurling	07/04/2019	14:30
Donegal vs. Cavan	RTE	Gaelic Football	23/06/2019	14:00
Galway vs. Wexford	RTE	Hurling	26/05/2019	16:00
Waterford vs. Limerick	RTE	Hurling	26/05/2019	14:00
Clare vs. Tipperary	RTE	Hurling	02/06/2019	16:00
Tipperary vs. Waterford	RTE	Hurling	19/05/2019	14:00
Limerick vs. Cork	RTE	Hurling	19/05/2019	16:00
Dublin vs. Meath	RTE	Gaelic Football	23/06/2019	16:00
Kilkenny vs. Cork	RTE	Hurling	14/07/2019	14:00
Laois vs. Tipperary	RTE	Hurling	14/07/2019	16:00
Limerick vs. Tipperary	RTE	Hurling	30/06/2019	14:00
Kilkenny vs. Wexford	RTE	Hurling	30/06/2019	16:00