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A qualitative exploration of the intersection between social influences and cultural norms in relation to the development of alcohol use behaviour during adolescence.

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3 **A qualitative exploration of the intersection between social influences and cultural norms in**
4 **relation to the development of alcohol use behaviour during adolescence.**
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12 **Running title:** Adolescent alcohol use: norms and influences.
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Abstract

Objectives

Few contemporary studies have examined peer and social drivers of alcohol use during mid-adolescence. We sought to explore young people's perspectives on socio-cultural influences relating to alcohol use behaviour during this period.

Design

Qualitative research study

Methods

Semi-structured one-to one (n=25), paired (n=3) or triad (n=1) interviews and one focus group (n=6) were conducted with thirty young people aged 14-15 (13 males, 17 females) recruited from four schools, and twelve participants (aged 14-18, 8 males, 4 females) recruited from two youth groups. Interviews were audio-recorded, transcribed verbatim and analysed thematically using NVivo 10.

Results

Alcohol consumption was associated with being cool, mature and popular, while enabling escape from reality and boosting confidence and enjoyment. Positive expectancies, alongside opportunity, contributed to motivating initiation, but social influences were paramount, with participants describing a need to 'fit in' with friends to avoid social exclusion. Such influences positioned drinking at parties as a normative social practice, providing opportunities for social learning and the strengthening of peer norms. Social media weaved into young people's lives positive alcohol-associated depictions of social status, enjoyment and maturity. This intersection of influences and norms generated a pressurised environment and a sense of unease around resisting pressures, which could elicit stigmatising insults.

Discussion and Conclusions

Cultural norms, social influences and social media intersect to create a pressurised environment around alcohol use during mid-adolescence, driving the escalation of excessive consumption. New

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3 interventions need to address normative influences to enable the prevention of excessive alcohol
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5 use during adolescence.
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10 **Strengths and Limitations of this study**

- 11 1. Strengths of the study include the gender-balanced sample of young people from both
12 schools and youth groups, including those who used alcohol and those who abstained.
13
- 14 2. One-to-one interviews were conducted, which provided space for young people to share
15 their views around drinking, without concerns around disagreement or judgement from
16 peers or friends.
17
- 18 3. Limitations of this study include the lack of triangulation of data, and participants were
19 recruited from urban and suburban settings only, meaning that our findings cannot
20 necessarily be generalised to different geographical or demographic contexts.
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Competing interests

GJM declares no competing interests.

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Contribution of authors:

GJM was responsible for recruitment, acquisition, analysis and interpretation of data and wrote the first draft of the manuscript. MH contributed to interpretation of data and finalisation of the manuscript. RC was responsible for conceptualisation of the study and contributed to interpretation of data and finalisation of the manuscript.

Keywords:

Alcohol drinking, qualitative, adolescent, social norms, peers

Introduction

Although downward trends in alcohol use have been reported in the US and Europe,(1, 2) the reasons for this decline are as yet unclear, and while evidence is scant, studies indicate that the decline may not be uniform across all socio-demographic or levels of alcohol consumption.(3)

Despite declines in the UK, recent figures show that 24% of 15-year olds in the UK have had a drink in the last week,(4) and by the age of 17, half of girls, and nearly two-thirds of boys, report drinking every week.(5) Adolescent drinking in the UK therefore remains a public health concern. Guidance from the Chief Medical Officer for England states that an alcohol-free childhood is the healthiest and best option, and if children do drink alcohol, it should not be until at least the age of 15 years; while if those aged 15-17 do drink, they should do so infrequently and on no more than one day per week.(6)

The critical role of both peer and parental influences in relation to adolescent alcohol consumption is well-documented. Quantitative and qualitative studies have highlighted the impact of factors including parental monitoring, attitudes, communication and parental provision of alcohol via direct and indirect mechanisms,(7-12) while peer influences, norms, peer selection and the social context of drinking, together generate peer group-based behavioural drivers of alcohol consumption.(13-19)

Recent qualitative studies also highlight how the increasing engagement with online media and social networking sites (SNS) has enabled the sharing of stories and photographs, and managed displays of drinking and drinking behaviours, creating what have been termed as 'intoxigenic social identities' and 'intoxigenic digital spaces'.(20) Such spaces provide new platforms and opportunities for the positive promotion of alcohol consumption, creating an arena in which the display of identity, personality and popularity is carefully managed, and such networks therefore assist with the positioning of alcohol as central to social worlds.(21-23) Evidence also indicates an association

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3 between exposure to friends' alcohol related content on SNS and alcohol use and later heavy
4 episodic drinking, via the development of favourable peer injunctive norms.(24)
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10 While qualitative studies have reported the effect of peer, parental and wider cultural influences on
11 young people's drinking, interaction and engagement with SNS, and the integral nature of the social
12 context,(13-15, 22, 25-27) few recent qualitative studies have involved an in-depth examination of
13 social and cultural influences on the initiation and escalation of alcohol use during early- to mid-
14 adolescence in England, and the interaction between such behavioural influences. We sought to
15 obtain data on such influences that would be applicable to the national context to inform
16 intervention development. In addition, since little data are available to help to explain downward
17 trends in alcohol use among young people in England,(2, 3, 28) it also remains important to gain a
18 contemporary understanding of the impact of peers, social influences and cultural factors to offer
19 insights around factors that might affect such trends.
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34 In this paper, we report findings of a qualitative study that aimed to explore the social, cultural and
35 behavioural drivers of alcohol consumption and the nature of drinking culture in mid-adolescence.
36 Our exploration of the social worlds and drinking cultures of younger adolescents, and influences on
37 drinking practice, aims to inform the development of interventions to prevent excessive alcohol
38 consumption and related harm.
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Methods

While the aim of the study was to investigate the role of friendships in relation to drinking behaviour, we report here our findings regarding a wider range of determinants of behaviour, reflecting the topics pertinent to young people that emerged in the interviews.

Sampling and Recruitment

Our study sample included thirty young people aged 14-15 years who were recruited from four secondary schools in the South West of England. No participants dropped out of the study. The schools were in urban (n=3) and suburban/rural (n=1) areas and were located in areas with diverse levels of deprivation as reflected by the index of multiple deprivation score for the postcode. Students were randomly selected from the year group and snowball sampling was employed subsequently to recruit additional participants. A further twelve participants aged 14-18 years were recruited from youth groups, via leaders of the youth group, to ensure diversity in the sample in relation to socio-demographic characteristics and to enable data collection outside of the school environment. The sample included individuals who had, and hadn't, consumed alcohol. Parental consent and participant assent were given prior to participation. Participants aged over 16 years gave informed consent. Recruitment took place between January and October 2017. The number of participants recruited was determined by the point at which saturation was reached.

Data collection

A total of 36 semi-structured interviews were conducted (15 males, 21 females), three of which were paired interviews, and one of which was a triad interview, conducted with friends. Interviews were conducted in meeting rooms in schools (n=30) and youth groups (n=6). One focus group (n=6 males) was also conducted in a youth group. Interviews were conducted by GJM (PhD), a female researcher with training in qualitative research. No relationship was established with study participants before commencement of data collection. Before starting the interview, participants were aware of the

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2
3 reasons for doing the research and the interviewer's aim of developing a preventive intervention in
4 the future. Interviews were facilitated by a topic guide, which was used flexibly so that participants
5 could explore views and opinions which were meaningful to them. The topic guide included
6 questions around attitudes and perspectives around drinking, personal histories of alcohol use, risks
7 and consequences of drinking, the role and influence of friendship groups and social networks, and
8 family-related factors. Views on alcohol-related education and alcohol-related interventions were
9 discussed but will be reported elsewhere. Interviews lasted between 30 and 60 minutes and were
10 audio-recorded and transcribed verbatim. Interview data were anonymised. Participants received a
11 £15 gift voucher for taking part.
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26 ***Data analysis***

27 Transcripts of interviews were imported into NVivo version 10 (QSR International, Brisbane) and
28 analysed thematically using this software by GJM. Participants did not check or correct transcripts.
29
30 Analysis aimed to capture emergent concepts and thus took an inductive approach. Transcripts were
31 read and re-read and open line-by-line coding was conducted with a focus on understanding and
32 capturing participants' experiences, behaviours, feelings, attitudes, and perceptions around alcohol
33 use. We sought to explore relationships and patterns both within and between accounts. Different
34 accounts were compared and contrasted, such that codes were progressively refined, and
35 connections mapped, to characterise relationships and identify underlying concepts and then
36 categories and themes. Ongoing engagement with the data ensured that emerging concepts were
37 grounded in participants' accounts. Throughout the process the researcher wrote analytic memos
38 and notes to capture thoughts around meanings, themes and relationships between themes.
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40 Thematic patterns were considered within and across cases and between groups of cases e.g. those
41 who did, or did not, drink alcohol.
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3 Sociological theories relating to social influences, group identity and social norms were explored
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5 during analysis to enhance understanding around the theoretical basis of influences on the initiation
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7 and maintenance of alcohol use behaviour evident from the data.(29-31) We also explored whether
8
9 social practice theory (32-34) might help to explain alcohol use behaviour as a collective social
10
11 practice during adolescence. However, while a social practice perspective helped to explain the
12
13 social context of alcohol use and the meanings associated with alcohol consumption, it did not fully
14
15 explain data regarding peer influences and/or pressures, which were key themes in our study.
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21 ***Ethical considerations***

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23 Ethical approval for the study was obtained from the University of Bristol Faculty of Health Sciences
24
25 Ethics Committee (study 131443 (8201)/2306).
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30 ***Public involvement***

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32 We did not involve young people in this study directly, however, the authors engaged with young
33
34 people advisory groups prior to commencing the programme of research, of which this is one part,
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36 and we have engaged with such advisory groups in relation to intervention development which
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38 builds on the findings reported in this paper.
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Results

The major themes that emerged from the data were: normalisation and the wider culture, motivations, peer influence, pressure among peers, social media, and young people's drinking culture. Family influences were also a major theme, but we have not addressed them here, as we have previously reported similar findings elsewhere.(10)

Normalisation of drinking and the wider alcohol culture

Young people described alcohol consumption as a normalised practice and an accepted part of the cultural context. Young people accepted drinking as part of life and stressed the importance of autonomy around people's decisions regarding alcohol consumption. Exposure to teen films and social media presented alcohol consumption as fun and 'cool' and a means of enhancing popularity, while lacking details of negative consequences. Young people therefore frequently came into adolescence with clear pre-formed positive attitudes towards drinking and an understanding of its meanings in the social world (Supplementary material S1, quotes 1 and 2).

So it's just like you just grow up with like people around you like just drinking casually like with meals and stuff so no-one sees it as particularly dangerous ... until like something actually goes wrong. Yeah. So you're kind of shielded from the actual dangers... (ID 17, F)

Reflecting the assimilation of wider cultural norms, perceptions of what constituted reasonable alcohol use involved levels of consumption far above levels at which drinking would become hazardous or harmful (see also S1, quote 3).

INT: And how much do you think is ok would you say?

RES: Not getting drunk like really drunk like you can't even walk (ID 29, M)

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3 Despite such misperceptions, participants were aware of the balance between consuming alcohol
4
5 for enjoyment and negative consequences, evidencing a clear awareness of the potential for a range
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7 of negative consequences to ensue if limits were overstepped (S1, quotes 4 and 5).
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10 11 12 *Motivations to drink and the initiation of alcohol use*

13
14 Drinking became an integral practice in young people's social worlds by age 14-16. Young people
15
16 most frequently described a shared meaning of alcohol consumption relating to collective fun,
17
18 enjoyment and being cool. Drinking also improved confidence, popularity, and engagement with
19
20 friends while enabling young people to rebel, make memories, and experiment, while providing a
21
22 means of managing mental illness, avoiding reality, excusing behaviour or escaping stress (S2, quotes
23
24 1 and 2).
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28
29 Satisfying the range of motivations to drink was straightforward since alcohol was both readily
30
31 available and cheap. Some described initiation of drinking among peer groups via an influential
32
33 individual, who was the first to provide or drink alcohol (often via parents), setting an expectation of
34
35 drinking at subsequent parties.
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39 *RES: I think first party was in October when it was like, oh there's going to be*
40
41 *alcohol there. ... And that was sort of an initiation. [LAUGHS] I don't know.*

42
43 *INT: Yeah.*

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45 *RES: But it's sort of like the – yes it's after that party then it's sort of expected*
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47 *that there is at other ones, maybe. (ID 8, F)*
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Young people's drinking and party culture

Drinking practice was rooted in house parties, which were viewed as a safer and more controlled setting than were outdoor settings. Parties' meanings were centred around the inherently social nature of the events, providing opportunities for socialising, shared experiences and a sense of togetherness with friends, as well as opportunity for drunkenness, which was a widely accepted norm. For many, alcohol made parties more enjoyable (S3, quote 1) and getting drunk provided an aim and purpose, while providing the means of looking popular, 'hard', or cool. Thus, widely held understandings, or aims, were to drink and 'get smashed' (S3, quotes 2 and 3), with the pace and extent of drunkenness often being a source of direct or indirect competition. Participants also described indirect pressures involving stigmatising insults linked to competence around intoxication.

RES: ..it's kind of like who can drink more and not get drunk, but it's like not a competition in that way, yeah.

INT: So it's not a competition?

RES: No, it's not a competition, but it feels like that because after you're a bit, oh, this guy's a lightweight, and that. (ID 37, M)

Thus, it was important to tread a line between appearing competent in tolerating alcohol to avoid stigmatising labelling as a 'lightweight' (S3, quote 4), but to remain in control to avoid ruining a party and/or require care from friends, which was associated with reputational risk and disgruntlement from friends. Those who often took on the role of looking after friends described feelings of reluctance and resentment around missing out on enjoyment, or concern around managing the effects of intoxication.

The first feeling is panic and then you feel just disappointed and you're just angry. You feel... I feel a little bit angry but especially if they've done it before you know what you've done, you know how like what your limit is and yet you go out of your way to do it.. (ID 15, F)

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3 The disparity between individual autonomy in decisions around intoxication and the requirement for
4 help from others thereafter was also viewed negatively (S3, quote 5).
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10 *Social influences on adolescent alcohol use*

11 *1. Peer influence*

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13 Social influences became paramount in mid-adolescence, with young people frequently reporting a
14 desire to 'fit in' with friends. Those who drank earlier and to a greater extent acted as influential
15 'role models' for drinking (S4.1, quote 1). Thus, young people implicitly understood the social
16 significance of joining in and facilitating belonging in the social world to enhance social status or to
17 avoid social sanctions.
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25 *Kind of like 'cause everyone else is around you drinking, you kind of feel like you*
26 *have to otherwise you don't really fit in um so that's what kind of happens to me*
27 *most of the time. (ID 27, F)*
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34 Social influences also facilitated a rise in the prevalence of drinkers, thus enhancing proximal social
35 influences and further contributing to the normalisation of alcohol consumption. Social influence led
36 to perceived requirements to join in in some way, and those who didn't join in with the vibe of the
37 party were a 'buzz kill' (S4.1, quote 2). As such, a somewhat circular effect sustained the party
38 culture, whereby the increasing prevalence of drinking strengthened group norms and social
39 learning processes that generated a desire to drink to feel included, and which generated a social
40 environment in which abstaining could be alien (see also S4.1, quote 3).
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50 *I didn't intend to drinking alcohol last year ... but it just kind of happens, like when*
51 *you're invited to a party you go just go and there's alcohol and you get, you get*
52 *told there's going to be alcohol, and you just drink it to have a good time anyway*
53 *'cause everyone else is. (ID 39, M)*
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3 Those who didn't comply with norms described feelings of awkwardness, embarrassment or
4
5 boredom, or they avoided parties altogether, while others were incentivised to drink to avoid having
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7 to look after intoxicated friends (S4.1, quotes 4-6).
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12 Notably, however, peer influences could have counter-effects, such that participants described
13
14 alcohol consumption as pointless, expressing confusion around friends' drinking practices, while
15
16 others reported aversion to role models of intoxication, which could strengthen views around
17
18 abstinence (see also S4.1, quote 7).
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21 *I wouldn't do it because I have seen what in the middle, I have seen people feeling*
22
23 *sick, all in the bath, like going on the street, I was like no way I am not doing that,*
24
25 *you see what the impacts are if you drink. You see what would happen and I don't*
26
27 *want that at all. (ID 6, F)*
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30 Such individuals were less compliant with the group norm and often played a greater 'mum' role in
31
32 supporting and helping others within the social group (S4.1, quote 8).
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37 Individuals who abstained from drinking described the importance of friends with similar attitudes
38
39 and behaviours around drinking and there was some evidence for peer selection in this group. Such
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41 friends provided support for their viewpoint and provided some protection from felt pressure or
42
43 exclusion, enabling them to abstain and/or to enjoy social events more.
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46 *..if I was on my own it would have been worse, because you're just looking around*
47
48 *and everyone's drinking. Not that it would lead me to drinking, but it's still better*
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50 *that I had friends who just don't do that at all: it made it much more fun (ID 16,*
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52 *M)*
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3 Those who abstained frequently described strong interests in extra-curricular activities, particularly
4 sports, a strong religious faith, and/or clear core values and aligned family viewpoints, which altered
5 the meaning of alcohol use and reduced the effects of social influences and norms (S4.1, quote 9).
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11 *2. The influence of social media*

12 The use of social media was integral to adolescent drinking behaviour and practice, particularly use
13 of Instagram or the multimedia messaging app Snapchat. Posting pictures and videos from parties
14 reflected the meanings associated with alcohol use, thus portraying participants being cool and
15 sociable, to enhance popularity and social status. The ubiquity and prominence of social media
16 weaved into young people's lives a relatively consistent, positive view of alcohol consumption that
17 could act as another source of social influence and a visual depiction of norms that could contribute
18 to a felt pressure to drink (see also S4.2, quotes 1 and 2).
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30 *Because in a friendship it's more like direct, like they're going to tell you that, but*
31 *like, on a big scale like social media it kind of like tells you like that you should be*
32 *drinking, like when you can, and the norm is to, and then I think you feel a bit*
33 *pressured into it. (37, M)*
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41 Social media used to demonstrate social capital, drinking 'competence' and maturity. Some were
42 described as sipping drinks just to look right in pictures, while others aimed to depict their prowess
43 in consumption.
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48 *I've noticed that a lot in my year group and like they'll kind of just... even if they*
49 *don't really want to drink it they'll kind of just hold it there and they'll just like sip*
50 *and stuff so they can have it for photos. (ID 34, F)*
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56 Nevertheless, views on the impact on social media were mixed. A minority expressed caution about
57 posting images of themselves drinking owing to potential reputational risk. A minority also reported
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3 a view that drinking was unaffected by social media, although it was nevertheless described as a key
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5 component of drinking practice.
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10 *The pressurised environment*

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12 The combination of social media, social influences and social learning, alongside the meanings
13
14 associated with drinking (e.g. belonging, popularity) and wider cultural influences, created a
15
16 pressurised environment around drinking (Figure 1). Thus, the very interest in fitting in or feeling a
17
18 need to join in with friends was felt to be subtly pressurising, while being the only person not
19
20 drinking felt awkward and created unease, further contributing to a felt pressure.
21
22

23 *Because you see everyone's doing it then you felt .. er like obliged to do it as well*
24 *sometimes. Um I don't often, like, myself but you can definitely tell other people*
25 *um it's like, oh everybody else is doing it so then I have to do it as well to fit in, it's*
26 *like one of those sorts of things and also if your friends are drunk then it sort of*
27 *becomes a thing where oh do you want mine you can have some, have some, and*
28 *then you're like oh my gosh like do I accept, do I not (ID 15, F)*
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39 Branding of individuals as 'wimps' or awarding 'lad points' for intoxication associated with courage
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41 and humour, further created incentives and obligations to drink to excess (S5, quote 1). The
42
43 inextricable link between drinking alcohol and socialising meant that resisting pressures or
44
45 challenging friends risked losing credibility as an integral and fun group member, or risked
46
47 jeopardising friendships (see also S5, quotes 2 and 3).
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49

50 *INT: .. and how does that make you feel if you are saying no?*

51
52 *RES: Um if you're like receiving yeah then you can kind of feel like it makes you*
53 *not want to be in that situation, it makes you just like feel oh I don't feel safe in this*
54 *environment anymore cos now I'm doing something that I don't want to do and*
55 *you're just like what do I do, I can't deal with this situation and you don't want to*
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3 *not be friends with people who you're friends with, you don't want to break*
4 *friendships over it but it's one of those things where you kind of if you don't*
5 *like it then you have to say no and if your friends didn't accept that then it's like you*
6 *have to sort that out with your friends yourself, that sort of thing. (ID 15, F)*
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14 Pressure to drink was felt in a range of ways, including subtle and indirect pressure through offers of
15 alcoholic drinks, the felt need to be fun and to fit in, or proximal social influence. However,
16 participants also reported more direct pressure through goading or direct insults, leading some to
17 describe feeling 'forced to drink' and others wishing to avoid appearing cowardly. Overall, the social
18 environment was felt to be conducive to feeling obliged to drink, or being 'pushed in the direction'
19 towards alcohol use (see also S5 quotes 4 and 5).
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27 *.. I used to think alcohol was really bad but I guess as like it becomes more talked*
28 *about, you're kind of dragged into it.*
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32 *INT: Mm. It's interesting you say dragged into it.*
33

34 *RES: Not dragged – I'd say like kind of um pushed in the direction. (ID 27, F)*
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39 Nevertheless, such felt pressures were often unclear to the friends in question who were drinking,
40 who therefore pressurised others unknowingly. Drinkers did not consider their actions to be
41 pressurising, rather a gesture to enable or encourage friends to join in (see also S5, quote 6).
42
43
44

45 *They just think they're saying it does – it's just a laugh like, if they're – they're*
46 *kind of – they're almost trying to make their experience more enjoyable by saying*
47 *if you do this... .. it will make it better, but I don't think that's the same kind of*
48 *response for the person on the other end. (ID 33, M)*
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56 As outlined above, for non-drinkers, having friends with a similar viewpoint provided support and
57 reduced felt pressure (S5, quote 7).
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Discussion

In this paper, we have demonstrated how the wider alcohol culture normalised alcohol use for young people, helping to generate perceptions of drinking as a practice associated with being cool, mature and popular as well as an important means of enhancing enjoyment and social status. The ubiquity of alcohol use generated normative social influences and opportunities for social learning around initiation and continuation of alcohol use. Together with embedded meanings and expectancies, the interaction between peer norms, social influences and the effects of social media generated a pressurised environment in which young people felt obliged to comply and join in.

The strengths of our study include the gender-balanced sample of young people from both schools and youth groups, including those who used alcohol and those who abstained. We also used one-to-one interviews, which provided space for young people to share their views around drinking, without concerns around disagreement or judgement from peers or friends. A small proportion of interviews were conducted with dyads with one triad, however, we did not find evidence that participants exaggerated or withheld views and perspectives in these pairs, and paired interviews were conducted when expressed as a preference by the participants. Nevertheless, our data were not triangulated, and participants were recruited from urban and suburban settings only, so our findings cannot necessarily be generalised to different geographical or demographic contexts. Interestingly, although parental messages and the off-putting effect of observing intoxicated role models were described by some moderate drinkers, our data did not provide evidence regarding factors that might be affecting downward trends in the prevalence of alcohol use among young people in England, and further qualitative and quantitative research will be needed to explore such trends. Lastly, while we have reported that social influences and pressures are a critical influence on young people's alcohol use, further research will be needed to explore exactly how such influences could be effectively addressed in public health interventions for young people.

1
2
3 The frequently reported desire to fit in with the group, and unease expressed in relation to
4
5 abstinence, highlighted the central role of normative social influence in generating a collective
6
7 practice in which intoxication was accepted and expected. Evidence suggests that both direct and
8
9 indirect pathways of peer influences and pressures may exist, which can contribute to generating
10
11 social influences (and can act together with peer selection (19, 35)). Pathways can be direct,
12
13 including offers of drinks, dares, or goading, and indirect, including modelling of peer drinking
14
15 and/or contributions to the formation of norms, beliefs and expectancies,(36, 37) which were also
16
17 evident in our study. In addition, studies have reported an impact of being around peers who drink
18
19 alcohol, either through proximity to social acquaintances who consume alcohol or through time
20
21 spent with drinking peers,(38, 39) highlighting the important impact of the rise in prevalence of
22
23 alcohol use through adolescence. This was evident in our study since being around other drinkers
24
25 and being immersed in a practice in which drinking was highly prevalent (contributing to descriptive
26
27 norms) contributed to the felt obligation to drink.
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35 Frequent reports by young people of needing to 'fit in' suggest that injunctive norms, or perceptions
36
37 of peer approval of drinking, were also critical. Thus, our findings support those of quantitative
38
39 studies, which have reported associations between both descriptive and injunctive norms and
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41 frequency and quantity of adolescence alcohol use and heavy episodic drinking,(40, 41). Specifically,
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43 one study reported a greater impact of injunctive compared to descriptive norms, with the former
44
45 associated with a range of measures of alcohol use as well as alcohol-related negative
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47 consequences.(41)
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52
53 In addition to social norms and influences among peers, social media, or social networking sites
54
55 (SNS), played a role in providing a physical depiction of positive alcohol-related descriptive and
56
57 injunctive norms, which was an integral part of the social practice of adolescent alcohol use. Thus,
58
59 we have reported evidence to support a previous study describing 'intoxigenic digital identities' and
60

1
2
3 'intoxicogenic digital spaces' that contribute to the normalisation of alcohol use.(20) Similarly, a
4
5 qualitative study of young women's drinking cultures described the critical nature of SNS in
6
7 facilitating displays of popularity, belonging, membership of the social network and 'friendship
8
9 fun'.(22) Such media also bring about opportunities for misperceptions owing to the circulation of
10
11 positive imagery which can be interpreted at face value or as 'truth'.(23, 42) Quantitative data have
12
13 demonstrated an association between exposure to friends' alcohol-related SNS content and
14
15 initiation of alcohol use and stronger pro-alcohol peer injunctive norms, highlighting how the
16
17 provision of opportunities for observation, comparison and role-modelling of behaviours through
18
19 SNS can impact on norm perception and behaviour.(24) In addition, others have reported an
20
21 association between alcohol promotion through digital media and adolescent alcohol
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23 consumption.(43, 44)
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30 Taken together, therefore, evidence suggests the need for public health interventions to effectively
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32 address both peer norms and social influences during adolescence, including the effects of SNS, to
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34 enhance the likelihood of effective prevention. Furthermore, the evidence of felt pressure resulting
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36 from the influences discussed above suggests that many young people feel a lack of autonomy
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38 around alcohol consumption, and constraint around behavioural decisions within their social groups.
39
40 Thus, in addition to addressing norm perception and normative social influence, there is a need for
41
42 interventions to find ways of overcoming such constraints and fostering greater resistance to
43
44 conformity. In part, this may require strengthening the voice and influence of those in the minority
45
46 group (i.e. those who abstain from drinking) as outlined in Moscovici's theory of minority influence
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48 (45, 46), which may be increasingly feasible in light of reported downward trends in adolescent
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50 alcohol consumption (3). It has also been suggested that feelings of powerlessness during
51
52 adolescence may be overcome through enhanced social status for young people, for instance
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54 through opportunities for creative activities and active engagement in communities.(47)
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Conclusions

Our study has demonstrated the effect of the interplay between cultural norms, social influences, social pressures, and social media, particularly the critical role of normative social influence, in driving the escalation and normalisation of alcohol use in mid-adolescence. Our findings suggest that there is a need for a combination of approaches to effectively prevent excessive alcohol use among young people. First, population- and family-level interventions are needed to address pro-alcohol cultural norms. Second, interventions in young people need to target normative social influence and peer norms to interrupt the rise in prevalence of excessive drinking, while aiming to enhance social status and the ability to challenge social pressures, to increase the likelihood of preventing alcohol-related harm.

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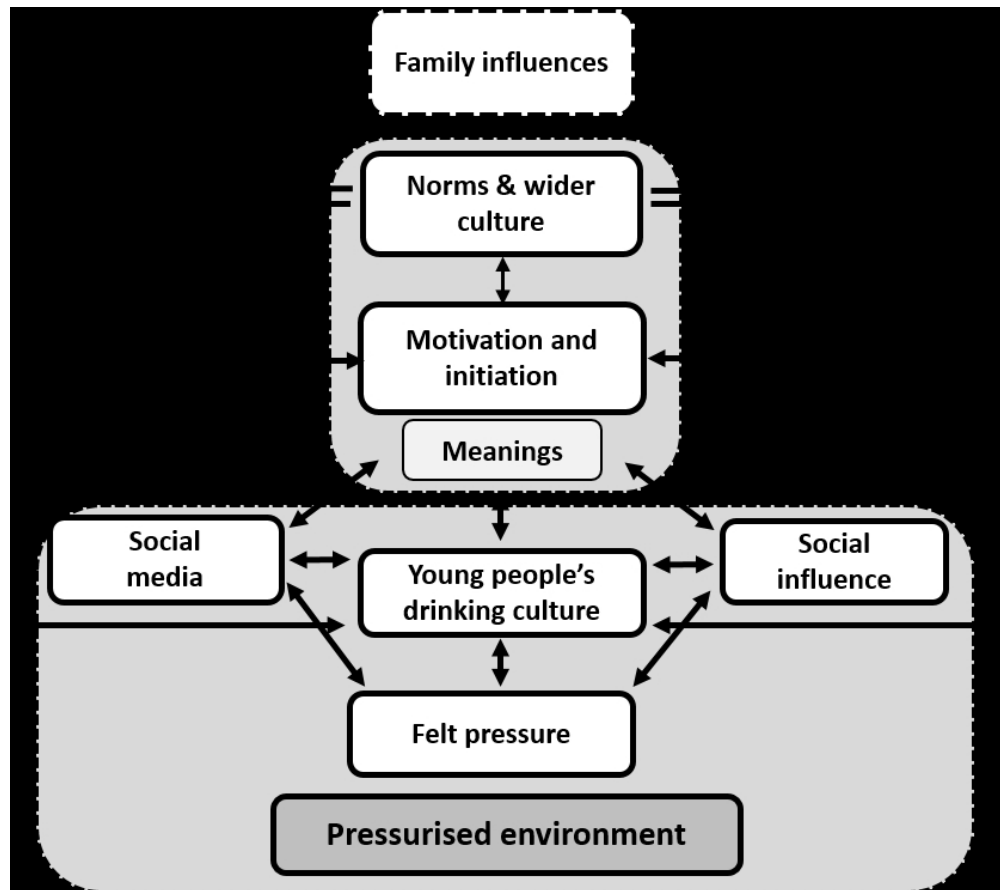
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Intersection of social and cultural influences on adolescent alcohol use and generation of a pressurised environment. Note that family influences have been addressed elsewhere.

Supplementary Material: Additional quotes

S1. Normalisation of drinking and the wider alcohol culture

1. *Yes but also like in films and like series, and social media, parties just look like crazy cus everyone's like getting drunk, so people who kind of their aim is, I wanna be cool, I wanna have lots of friends, and I wanna be the popular one. They think, the only way to do that is to go to the parties, cus that's what all the films say. (ID 13b, F)*
2. *I didn't really know that what it can actually do to you. I just thought oh it makes you happy and that's it, that's all you really hear about. (ID 21, F)*
3. *RES: ... I think drinking [sic: in adults] is fine because like obviously people really enjoy like wine and stuff, um, but I think it's bad when you're like addicted or like drinking more than is necessary. Yeah.*
INT: And how much would that be do you reckon, the drinking more than you need to?
RES: Um, like, I dunno, if someone was drinking like a bottle of wine a day that's like... that's just like someone who's like... it's like kind of like a normal amount to drink but it's a lot. But if someone's actually drunk throughout the day that's terrible I think. Yeah. (ID 17, F)
4. *Well there's a point where it's like, not fun anymore and also, it's just not cool anymore. It can be seen as like, cool having a few cans, getting drunk but then like after that it's just silly. And people will like, ignore you, in that situation (ID 13b, F)*

1
2
3 5. INT: *Yeah, and what might be some of the bad things that you mention there?*

4
5 RES: *Getting addicted or feeling sick the next day. You can do bad things when*
6
7 *you're drunk.*

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9
10 INT: *Bad things?*

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12 RES: *Well you don't really know what you're doing. (ID 40, M)*
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For peer review only

S2. Motivations to drink and the initiation of alcohol use

1. .. you could forget your troubles maybe and just live in the moment and just go, 'I'll deal with the problems later. I'll have fun now'. (ID 22, M)

2. I think it's a good social thing like it makes it easier for you to talk to people, you know, and you can - you don't have to worry about like making a fool of yourself because you have an excuse and stuff. (ID 18, F)

For peer review only

S3: Young people's drinking and party culture

1. *People are saying oh its so, it will be so dead like without them drinking, like it will just be so boring and stuff, but they say like oh its better when we are drinking because it's more fun and like everybody is falling and everybody is like laughing. (ID 6, F)*
2. *Yeah, some people like – some people might usually go into like say the party and stuff and just say like “Oh I wanna get smashed” or something like that. (ID 36, M)*
3. *It's just mainly like parties, I guess, like people just think, it's a party, you have to drink, basically. (35b, F)*
4. *I'm not like – people often call you, um, a lightweight when you drink and get drunk, and it's like that's an offensive term. It's quite embarrassing if you get called that, but yeah, I think there's a lot of stigma towards that. (ID 32, F)*
5. *RES: I could be their friend and then they could do something stupid and I'd have to look after them or go and try and fix it, um, yeah.*
INT: And how would that make you feel doing that?
RES: Quite annoyed because they got themselves like this. (ID 22, M)

S4. Social influences on adolescent alcohol use

4.1. Peer influence

1.

INT: And what do you think might have changed those people's opinion, how you said some people didn't and now do?

RES: Probably because they've seen the first people do it and once somebody...

INT: Hmm.

RES: ... one person starts doing it and then the next person then I think eventually it becomes like, everyone just wants to try it and then if they like it then they'll do it again and again. (ID 34, F)
2.

Like one party we were at there's a group of people and they were talking about revision and so you just like walk away from them, and you're like 'oh, they're such like a buzz-kill' because it's not... they don't have to be drunk but they're just like changing... they're like shifting the... like the, um, like the vibe of the party to more like, I dunno, not as funny. (ID 17, F)
3.

INT: What do you think are the main reasons people might drink?

RES: Um, just they're eager to drink, and their friends are drinking. They will just drink. Like, it's... I mean, sometimes it's not even peer pressure; it's just seeing other people doing it, and you just want to do it as well, just to fit in. (ID 16, M)
4.

I know definitely that I felt a bit like not left out but like, not part of it, that's why I didn't enjoy it. It was really boring cus like I didn't wanna talk to anyone because they were all just like really drunk. So I just stayed like half an hour. (ID 13 a, F)

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5. RES: *Maybe like if you're invited to a party and everyone else there. You don't really wanna be the one that...the only one not.*
- INT: *Um. How would it feel if you were the only person who wasn't do you think?*
- RES: *Embarrassed maybe.*
- INT: *Um and why do you think that is?*
- RES: *Um 'cause you don't feel like you fit in the group. (ID 40, M)*
6. *But I think it's more like yeah you don't want to be sober at a party if you don't want to be the person to look after all your friends. (ID 21, F)*
7. *Because they see people when they're drunk and they'll think well that... that may... may... you may think is fun but it really doesn't look that fun cos you're jumping about and jumping on your head and stuff like that. What's the point? (ID 22, M)*
8. RES 1: *.. in my friendship group I'm kind of like the mum like I'm always like.*
- RES 2: *Me too.*
- RES 1: *I'm always like just making sure everyone's ok.*
- RES 2: *Checking everyone's all right. (ID 31a F; 31b, F)*
9. *I have had the invites from my friends but I've chosen not to go because I find that sport is more important to me, than just going drinking. (ID 37, M)*

4.2. The influence of social media

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1. *They kind of make you feel like you want to drink more cus it's like they're having... When you look on Snapchat, most of the time, it just seems like you can see, like, the good things. Cos people filming it are like oh such good fun. They won't put on*

1
2
3 *stuff that's like really bad. So it makes it; like I guess it gives the alcohol like a more*
4
5 *positive view (ID 8b, F)*
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- 10 2. *RES: I think whenever people are having like a night, like party then there's*
11
12 *always like drinks on their Snapchat which just shows that they're having fun and*
13
14 *they're drinking...*
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16 *INT: Mm.*

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19 *RES: So I wanna do that. And go to more things like that. (ID 26, F)*
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S5. The pressurised environment

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5 1. INT: What kind of things would people say? What sort of um, type of thing
6
7 would they be?

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9 RES: Just like – like calling them scared and stuff for not doing it and stuff like
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11 that.

12
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14 INT: Okay. Yeah. Yeah.

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16 RES: Like, are you too scared to do this? But like other words. (ID 33, M)

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20 2. .. a lot of people drink to impress their friends so say like one friends like oh yeah I
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22 can drink this much and then the others like well I can drink this much and it's
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24 almost like a sly competition and then that's when it gets bad and out of hand like
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26 I've seen that from friends and then they've lost friends like because of it. (ID 31a,
27
28 F)

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33 3. RES: I think it's harder because what people want other people's – they want
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35 other people to think about them like in a more positive way like...

36
37 INT: Hmm.

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39 RES: ... they don't wanna be thought of this person who's like not fun and
40
41 doesn't want to do all the stuff... (ID 33, M)

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43
44 4. RES3: Some people think you have to, just like peer pressure, I guess, if you're at a
45
46 party or something [laughs].

47
48 RES2: Mm.

49
50 INT: What does that kind of feel like? What happens, when you say, 'peer
51
52 pressure', what's...?

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54
55 RES1: Forced into doing it, really. (ID 35a (M), b (F), c (F))
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3 5. RES: *I think they always teach like I think they always teach peer pressure*
4
5 *wrong.*

6
7 INT: *Right. So what do they say?*

8
9 RES: *I mean they - well they always just say like if someone asks you to do*
10
11 *something that you don't want to do just say no. But it-it's not really that. I think*
12
13 *it's more that people are doing things and if you are not part of it – well you're not*
14
15 *– like if you're not doing it as well you're not part of it... (ID 7, F)*

16
17
18
19
20
21 6. RES: *I don't think so. I think I haven't really ever experienced any, like, peer*
22
23 *pressure. Um, but I still think there is quite a lot of pressure to drink, um, whether or*
24
25 *not anyone means to pressurise you. (ID 32, F)*

26
27
28
29
30 7. *.. I don't know if I didn't have my friends or anyone to tell me not to drink, I'd probably*
31
32 *be drinking by now. .. So, I'm kind of happy that they're around. (ID 12, M)*

33
34
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39 Abbreviations:

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41 INT: Interviewer

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43 RES: respondent
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COREQ (CONsolidated criteria for REporting Qualitative research) Checklist

A checklist of items that should be included in reports of qualitative research. You must report the page number in your manuscript where you consider each of the items listed in this checklist. If you have not included this information, either revise your manuscript accordingly before submitting or note N/A.

Topic	Item No.	Guide Questions/Description	Reported on Page No.
Domain 1: Research team and reflexivity			
<i>Personal characteristics</i>			
Interviewer/facilitator	1	Which author/s conducted the interview or focus group?	
Credentials	2	What were the researcher's credentials? E.g. PhD, MD	
Occupation	3	What was their occupation at the time of the study?	
Gender	4	Was the researcher male or female?	
Experience and training	5	What experience or training did the researcher have?	
<i>Relationship with participants</i>			
Relationship established	6	Was a relationship established prior to study commencement?	
Participant knowledge of the interviewer	7	What did the participants know about the researcher? e.g. personal goals, reasons for doing the research	
Interviewer characteristics	8	What characteristics were reported about the interviewer/facilitator? e.g. Bias, assumptions, reasons and interests in the research topic	
Domain 2: Study design			
<i>Theoretical framework</i>			
Methodological orientation and Theory	9	What methodological orientation was stated to underpin the study? e.g. grounded theory, discourse analysis, ethnography, phenomenology, content analysis	
<i>Participant selection</i>			
Sampling	10	How were participants selected? e.g. purposive, convenience, consecutive, snowball	
Method of approach	11	How were participants approached? e.g. face-to-face, telephone, mail, email	
Sample size	12	How many participants were in the study?	
Non-participation	13	How many people refused to participate or dropped out? Reasons?	
<i>Setting</i>			
Setting of data collection	14	Where was the data collected? e.g. home, clinic, workplace	
Presence of non-participants	15	Was anyone else present besides the participants and researchers?	
Description of sample	16	What are the important characteristics of the sample? e.g. demographic data, date	
<i>Data collection</i>			
Interview guide	17	Were questions, prompts, guides provided by the authors? Was it pilot tested?	
Repeat interviews	18	Were repeat interviews carried out? If yes, how many?	
Audio/visual recording	19	Did the research use audio or visual recording to collect the data?	
Field notes	20	Were field notes made during and/or after the interview or focus group?	
Duration	21	What was the duration of the interviews or focus group?	
Data saturation	22	Was data saturation discussed?	
Transcripts returned	23	Were transcripts returned to participants for comment and/or	

Topic	Item No.	Guide Questions/Description	Reported on Page No.
		correction?	
Domain 3: analysis and findings			
<i>Data analysis</i>			
Number of data coders	24	How many data coders coded the data?	
Description of the coding tree	25	Did authors provide a description of the coding tree?	
Derivation of themes	26	Were themes identified in advance or derived from the data?	
Software	27	What software, if applicable, was used to manage the data?	
Participant checking	28	Did participants provide feedback on the findings?	
<i>Reporting</i>			
Quotations presented	29	Were participant quotations presented to illustrate the themes/findings? Was each quotation identified? e.g. participant number	
Data and findings consistent	30	Was there consistency between the data presented and the findings?	
Clarity of major themes	31	Were major themes clearly presented in the findings?	
Clarity of minor themes	32	Is there a description of diverse cases or discussion of minor themes?	

Developed from: Tong A, Sainsbury P, Craig J. Consolidated criteria for reporting qualitative research (COREQ): a 32-item checklist for interviews and focus groups. *International Journal for Quality in Health Care*. 2007. Volume 19, Number 6: pp. 349 – 357

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1
2
3 **A qualitative exploration of the intersection between social influences and cultural norms in**
4
5 **relation to the development of alcohol use behaviour during adolescence.**
6

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10
11
12 **Running title:** Adolescent alcohol use: norms and influences.
13
14

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Abstract

Objectives

Few contemporary studies have examined peer and social drivers of alcohol use during mid-adolescence. We sought to explore young people's perspectives on socio-cultural influences relating to alcohol use behaviour during this period.

Design

Qualitative research study

Methods

Semi-structured one-to one (n=25), paired (n=3) or triad (n=1) interviews and one focus group (n=6) were conducted with thirty young people aged 14-15 (13 males, 17 females) recruited from four schools, and twelve participants (aged 14-18, 8 males, 4 females) recruited from two youth groups in an urban centre in the West of England. Nineteen participants abstained from alcohol use, nine were occasional or moderate drinkers and fourteen drank alcohol more regularly. Interviews were audio-recorded, transcribed verbatim and analysed thematically using NVivo 10, through a lens of social influence and social norms theories.

Results

Alcohol consumption was associated with being cool, mature and popular, while enabling escape from reality and boosting confidence and enjoyment. Positive expectancies, alongside opportunity, contributed to motivating initiation, but social influences were paramount, with participants describing a need to 'fit in' with friends to avoid social exclusion. Such influences positioned drinking at parties as a normative social practice, providing opportunities for social learning and the strengthening of peer norms. Social media presented young people with positive alcohol-associated depictions of social status, enjoyment and maturity. This intersection of influences and norms generated a pressurised environment and a sense of unease around resisting pressures, which could elicit stigmatising insults.

Discussion and Conclusions

1
2
3 Cultural norms, social influences and social media intersect to create a pressurised environment
4
5 around alcohol use during mid-adolescence, driving the escalation in the prevalence of excessive
6
7 consumption at this stage. New interventions need to address normative influences to enable the
8
9 prevention of excessive alcohol use during adolescence.
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14 **Strengths and Limitations of this study**

- 16 1. Strengths of the study include the gender-balanced sample of young people from both
17
18 schools and youth groups, including those who used alcohol and those who abstained.
19
20
- 21 2. One-to-one interviews were conducted, which provided space for young people to share
22
23 their views around drinking, without concerns around disagreement or judgement from
24
25 peers or friends.
26
27
- 28 3. Limitations of this study include the lack of triangulation of data, and participants were
29
30 recruited from urban and suburban settings only, meaning that our findings cannot
31
32 necessarily be generalised to different geographical or demographic contexts.
33
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36

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48

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2
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8
9

10 11 12 **Competing interests**

13
14 GJM declares no competing interests.
15

16 RC is a scientific advisor to Evidence to Impact a not-for-profit company wholly owned by the
17
18 Universities of Cardiff and Bristol which licences, quality-assures and supports the delivery of
19
20 evidence-based public health promotion interventions. RC receives payment for this work.
21
22

23 MH has received payment for unrelated activity from Gilead Sciences Inc, Bristol Myers-Squibb and
24
25 Janssen, UK.
26
27

28 29 30 **Contribution of authors:**

31
32 GJM was responsible for recruitment, acquisition, analysis and interpretation of data and wrote the
33
34 first draft of the manuscript. MH contributed to interpretation of data and finalisation of the
35
36 manuscript. RC was responsible for conceptualisation of the study and contributed to interpretation
37
38 of data and finalisation of the manuscript.
39
40
41

42 43 **Keywords:**

44
45 Alcohol drinking, qualitative, adolescent, social norms, peers
46
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50 **Data availability:**

51
52 No additional data available.
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Introduction

Although downward trends in alcohol use have been reported in the US and Europe,(1, 2) the reasons for this decline are as yet unclear, and while evidence is scant, studies indicate that the decline may not be uniform across all socio-demographic or levels of alcohol consumption.(3)

Despite declines in the UK, recent figures show that 24% of 15-year olds in the UK have had a drink in the last week,(4) and by the age of 17, half of girls, and nearly two-thirds of boys, report drinking every week.(5) Adolescent drinking in the UK therefore remains a public health concern. Guidance from the Chief Medical Officer for England states that an alcohol-free childhood is the healthiest and best option, and if children do drink alcohol, it should not be until at least the age of 15 years; while if those aged 15-17 do drink, they should do so infrequently and on no more than one day per week.(6)

The critical role of both peer and parental influences in relation to adolescent alcohol consumption is well documented. Quantitative and qualitative studies have highlighted the impact of factors including parental monitoring, attitudes, communication and parental provision of alcohol via direct and indirect mechanisms.(7-12) In addition, peer influences, peer selection, the nature and reciprocity of friendships, and the social context of drinking, together generate peer group-based behavioural drivers of alcohol consumption,(13-21) and both descriptive and injunctive norms have been shown to be positively associated with alcohol use .(22, 23) Exposure to friends' alcohol-related content via social media has also been associated with alcohol use and later heavy episodic drinking, via the development of favourable peer injunctive norms, (24) demonstrating the links between use of social media, norms and social influences.

1
2
3 Normative social influence describes the social and emotional motivation to comply with the
4 majority and the expectations of others to gain social approval and/or to avoid ridicule and social
5 rejection, particularly in public settings where lack of conformity may be more evident (25, 26).
6
7

8 Perceptions of the consensus view in a group, or collective norms, influence conformity, since the
9 more consensual the group, the more isolated the 'deviant', and the more powerful the group in
10 shaping the social space. In this way, alcohol use behaviour can be influenced by perceived
11 descriptive norms (the perceived prevalence of alcohol consumption) and injunctive norms (the
12 perceived approval of alcohol use) among young people and both have been shown to influence
13 adolescent alcohol use at the individual and group level (27, 28))
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25 While qualitative studies have reported the effect of peer, parental and wider cultural influences on
26 young people's drinking, interaction and engagement with Social Networking Sites (SNS), and the
27 integral nature of the social context,(13-15, 29-32) few recent qualitative studies have involved an
28 in-depth examination of social and cultural influences on the initiation and escalation of alcohol use
29 during early- to mid-adolescence in England, and the interaction between such behavioural
30 influences. We sought to obtain data on social influences that would be applicable to the national
31 context to inform development of preventive interventions. In addition, since little data are available
32 to help to explain downward trends in alcohol use among young people in England,(2, 3, 33) it also
33 remains important to gain a contemporary understanding of the impact of peers, social influences
34 and cultural factors to offer insights around factors that might affect such trends.
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50 In this paper, we report findings of a qualitative study that used theories of social influences and
51 social norms as the theoretical lens through which to explore the social, cultural and behavioural
52 drivers of alcohol consumption and the nature of drinking culture in mid-adolescence. Our
53 exploration of the social worlds and drinking cultures of younger adolescents, and influences on
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3 drinking practice, aims to inform the development of interventions to prevent excessive alcohol
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5 consumption and related harm.
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For peer review only

Methods

While the initial aim of the study was to investigate the role of friendships in relation to drinking behaviour, we report here our findings regarding this and a wider range of determinants of behaviour, which reflects additional topics pertinent to young people that were raised by them and discussed in the interviews and which thereby feature in the data analysis.

Sampling and Recruitment

Our study sample included thirty young people aged 14-15 years who were recruited from four secondary schools in the South West of England. No participants dropped out of the study. The schools were in urban (n=3) and suburban/rural (n=1) areas and were in areas with diverse levels of deprivation as reflected by the index of multiple deprivation score for the ward. Students were randomly selected from the year group and snowball sampling was employed subsequently to recruit additional participants. A further twelve participants aged 14-18 years were recruited from youth groups, via leaders of the youth group, to ensure diversity in the sample in relation to socio-demographic characteristics and to enable data collection outside of the school environment. Leaders of youth groups disseminated information about the study and study materials and arranged interviews or the focus group. The sample included individuals who had, and hadn't, consumed alcohol. Parental consent and participant assent were given prior to participation for those aged under 16. Participants aged over 16 years gave informed consent. Recruitment took place between January and October 2017. The number of participants recruited was determined by the point at which saturation was reached i.e. when no new themes or perspectives were emerging in the interviews.

Data collection

A total of 36 semi-structured interviews were conducted (15 males, 21 females), three of which were paired interviews, and one of which was a triad interview, conducted with friends. Interviews were

1
2
3 conducted in meeting rooms in schools (n=30) and youth groups (n=6). One focus group (n=6 males)
4 was also conducted in a youth group. Interviews were conducted by GJM (PhD), a female researcher
5 with training in qualitative research. No relationship was established with study participants before
6 commencement of data collection. Before starting the interview, participants were aware of the
7 reasons for doing the research and the interviewer's aim of developing a preventive intervention in
8 the future. Interviews were facilitated by a topic guide, which was used flexibly so that participants
9 could explore views and opinions which were meaningful to them. The topic guide included
10 questions around attitudes and perspectives around drinking, personal histories of alcohol use, risks
11 and consequences of drinking, the role and influence of friendship groups and social networks, and
12 family-related factors. Views on alcohol-related education and alcohol-related interventions were
13 discussed but will be reported elsewhere. The participant sample included those who consumed
14 alcohol and those who abstained, but many of those who chose not to drink alcohol discussed their
15 views around alcohol use and perceptions and experiences relating to peers who did consume
16 alcohol. Drinking patterns of participants are noted alongside quotes, based on comments made by
17 participants during interviews. Interviews lasted on average 39 minutes (range 19-66 minutes) and
18 were audio-recorded and transcribed verbatim. Interview data were anonymised. Participants
19 received a £15 gift voucher for taking part.

20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 **Data analysis**

44
45 Transcripts of interviews were imported into NVivo version 10 (QSR International, Brisbane) and
46 analysed thematically using this software by GJM. Participants did not check or correct transcripts.
47
48 Analysis aimed to capture emergent concepts and thus took an inductive approach. Transcripts were
49 read and re-read and open line-by-line coding was conducted with a focus on understanding and
50 capturing participants' experiences, behaviours, feelings, attitudes, and perceptions around alcohol
51 use. We sought to explore relationships and patterns both within and between accounts. Different
52 accounts were compared and contrasted, such that codes were progressively refined, and
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1
2
3 connections mapped, to characterise relationships and identify underlying concepts and then
4
5 categories and themes. Ongoing engagement with the data ensured that emerging concepts were
6
7 grounded in participants' accounts. Throughout the process the researcher (GJM) wrote analytic
8
9 memos and notes to capture thoughts around meanings, themes and relationships between themes.
10
11 Emerging themes and concepts, and the theoretical basis for analysis, was discussed with the last
12
13 author. Thematic patterns were considered within and across cases and between groups of cases
14
15 e.g. those who did, or did not, drink alcohol.
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21 Sociological theories relating to social influences, group identity and social norms were explored
22
23 during analysis to enhance understanding around the theoretical basis of influences on the initiation
24
25 and maintenance of alcohol use behaviour evident from the data.(25, 34, 35) Thus, these theories
26
27 were used as a theoretical lens, which helped to explain the data. We also explored whether social
28
29 practice theory (36-38) might help to explain alcohol use behaviour as a collective social practice
30
31 during adolescence. However, while a social practice perspective helped to explain the social context
32
33 of alcohol use and the meanings associated with alcohol consumption, it did not fully explain data
34
35 regarding peer influences and/or pressures, which were key themes in our study. We also note that
36
37 we did not specifically seek to examine the influence of social media in initial interviews, rather, the
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39 role and importance of social media emerged as a theme and was therefore explored in relation to
40
41 social influences during data analysis.
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48 ***Ethical considerations***

49
50 Ethical approval for the study was obtained from the University of Bristol Faculty of Health Sciences
51
52 Ethics Committee (study 131443 (8201)/2306).
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Public involvement

We did not involve young people in this study directly, however, the authors engaged with young people advisory groups (YPAGs) prior to commencing the programme of research in which this qualitative study was embedded. The overall aim of the programme of research was to develop an intervention to reduce excessive alcohol use and harm among young people and this qualitative study, and engagement of YPAGs aimed to inform the design and theoretical basis of an preventive intervention.

For peer review only

Results

The major themes that emerged from the data were: normalisation and the wider culture, motivations, peer influence, pressure among peers, social media, and young people's drinking culture. Family influences were also a major theme, but we have not addressed them here, as we have previously reported similar findings elsewhere.(10)

Normalisation of drinking and the wider alcohol culture

Young people described alcohol consumption as a normalised practice and an accepted part of the cultural context. Young people accepted drinking as part of life and stressed the importance of autonomy around people's decisions regarding alcohol consumption. Exposure to teen films and social media presented alcohol consumption as fun and 'cool' and a means of enhancing popularity, while lacking details of negative consequences. Young people therefore frequently came into adolescence with clear pre-formed positive attitudes towards drinking and an understanding of its meanings in the social world (Supplementary material S1, quotes 1 and 2).

So it's just like you just grow up with like people around you like just drinking casually like with meals and stuff so no-one sees it as particularly dangerous ... until like something actually goes wrong. Yeah. So you're kind of shielded from the actual dangers... (ID 17, F, drinker)

Reflecting the assimilation of wider cultural norms, perceptions of what constituted reasonable alcohol use involved levels of consumption far above levels at which drinking would become hazardous or harmful (see also S1, quote 3).

INT: And how much do you think is ok would you say?

RES: Not getting drunk like really drunk like you can't even walk (ID 29, M, non-drinker)

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3 Despite such misperceptions, participants (including those who did and did not drink alcohol) were
4 aware of the balance between consuming alcohol for enjoyment and negative consequences,
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6
7 evidencing a clear awareness of the potential for a range of negative consequences to ensue if limits
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10 were overstepped, rendering the activity pointless or creating difficulties for others (S1, quotes 4
11
12 and 6). In addition, those who abstained, while noting acceptance of alcohol use within social
13
14 groups, highlighted avoidance of such consequences through the absence of drinking in their own
15
16 world.

17
18
19 *I kind of fear the consequences of me drinking. And I also think about my family: if they*
20 *were to find out they would just be like angry and annoyed at me (ID 16, M, non-drinker)*
21
22

23 24 25 *Motivations to drink and the initiation of alcohol use*

26
27 Drinking became an integral practice in young people's social worlds by age 14-16. Young people
28
29 most frequently described a shared meaning of alcohol consumption relating to collective fun,
30
31 enjoyment and being cool. Drinking also improved confidence, popularity, and engagement with
32
33 friends while enabling young people to rebel, make memories, and experiment, while providing a
34
35 means of managing mental illness, avoiding reality, excusing behaviour or escaping stress (S2, quotes
36
37 1 and 2).
38
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41
42

43 Satisfying the range of motivations to drink was straightforward since alcohol was both readily
44
45 available and cheap. Some described initiation of drinking among peer groups via an influential
46
47 individual, who was the first to provide or drink alcohol (often via parents), setting an expectation of
48
49 drinking at subsequent parties.
50

51
52 *RES: I think first party was in October when it was like, oh there's going to be*
53 *alcohol there. .. And that was sort of an initiation. [LAUGHS] I don't know.*

54
55
56
57 *INT: Yeah.*

58
59 *RES: But it's sort of like the – yes it's after that party then it's sort of expected*
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3 *that there is at other ones, maybe. (ID 8, F, non-drinker)*
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8 *Young people's drinking and party culture*

9
10 Drinking practice was rooted in house parties, which were viewed as a safer and more controlled
11 setting than were outdoor settings. Parties' meanings were centred around the inherently social
12 nature of the events, providing opportunities for socialising, shared experiences and a sense of
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Drinking practice was rooted in house parties, which were viewed as a safer and more controlled setting than were outdoor settings. Parties' meanings were centred around the inherently social nature of the events, providing opportunities for socialising, shared experiences and a sense of togetherness with friends, as well as opportunity for drunkenness, which was a widely accepted norm. For many, alcohol made parties more enjoyable (S3, quote 1) and getting drunk provided an aim and purpose, while providing the means of looking popular, 'hard', or cool. Thus, widely held understandings, or aims, were to drink and 'get smashed' (S3, quotes 2 and 3), with the pace and extent of drunkenness often being a source of direct or indirect competition. Participants also described indirect pressures involving stigmatising insults linked to competence around intoxication.

RES: *...it's kind of like who can drink more and not get drunk, but it's like not a competition in that way, yeah.*

INT: *So it's not a competition?*

RES: *No, it's not a competition, but it feels like that because after you're a bit, oh, this guy's a lightweight, and that. (ID 37, M, non-drinker)*

Thus, it was important to tread a line between appearing competent in tolerating alcohol to avoid stigmatising labelling as a 'lightweight' (S3, quote 4), but to remain in control to avoid ruining a party and/or require care from friends, which was associated with reputational risk and disgruntlement from friends. Those who often took on the role of looking after friends described feelings of reluctance and resentment around missing out on enjoyment, or concern around managing the effects of intoxication.

The first feeling is panic and then you feel just disappointed and you're just angry.

You feel... I feel a little bit angry but especially if they've done it before you know

1
2
3 *what you've done, you know how like what your limit is and yet you go out of*
4
5 *your way to do it.. (ID 15, F, moderate drinker)*
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8 The disparity between individual autonomy in decisions around intoxication and the requirement for
9 help from others thereafter was also viewed negatively (S3, quote 5).
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13 *Social influences on adolescent alcohol use*

14 *1. Peer influence*

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16
17 Social influences became paramount in mid-adolescence, with young people frequently reporting a
18 desire to 'fit in' with friends. Those who drank earlier and to a greater extent acted as influential
19 'role models' for drinking (S4.1, quote 1). Thus, young people implicitly understood the social
20 significance of joining in and facilitating belonging in the social world to enhance social status or to
21 avoid social sanctions.
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30 *Kind of like 'cause everyone else is around you drinking, you kind of feel like you*
31 *have to otherwise you don't really fit in um so that's what kind of happens to me*
32 *most of the time. (ID 27, F, drinker)*
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39 Social influences also facilitated a rise in the prevalence of drinkers, thus enhancing proximal social
40 influences and further contributing to the normalisation of alcohol consumption and the feedback
41 cycle of conformity, with those who abstained thus feeling more isolated and dependent on non-
42 drinking friends to diminish felt pressures.
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50 Social influence led to perceived requirements to join in in some way, and those who didn't join in
51 with the vibe of the party were a 'buzz kill' (S4.1, quote 2). As such, a somewhat circular effect
52 sustained the party culture, whereby the increasing prevalence of drinking strengthened group
53 norms and social learning processes that generated a desire to drink to feel included, and which
54 generated a social environment in which abstaining could be alien (see also S4.1, quote 3).
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3 *I didn't intend to drinking alcohol last year ... but it just kind of happens, like when*
4 *you're invited to a party you just go and there's alcohol and you get, you get*
5 *told there's going to be alcohol, and you just drink it to have a good time anyway*
6 *'cause everyone else is. (ID 39, M, previous, now infrequent drinker)*
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14 Those who didn't comply with norms described feelings of awkwardness, embarrassment or
15 boredom, or they avoided parties altogether, while others were incentivised to drink to avoid having
16 to look after intoxicated friends (S4.1, quotes 4-6).
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23 Notably, however, peer influences could have counter-effects, such that participants described
24 alcohol consumption as pointless, expressing confusion around friends' drinking practices, while
25 others reported aversion to role models of intoxication, which could strengthen views around
26 abstinence (see also S4.1, quote 7).
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32 *I wouldn't do it because I have seen what in the middle, I have seen people feeling*
33 *sick, all in the bath, like going on the street, I was like no way I am not doing that,*
34 *you see what the impacts are if you drink. You see what would happen and I don't*
35 *want that at all. (ID 6, F, non-drinker)*
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41 Such individuals were less compliant, or non-compliant, with the group norm and often played a
42 greater 'mum' role in supporting and helping others within the social group (S4.1, quote 8). Those
43 who were non-compliant, acted in keeping with family values and messages, and were unaffected by
44 group norms.
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50 *I don't know what, what my mum would think if I become a drinker, so I – and I think she's*
51 *kind of built it in me that it's, it's now in my moral code not to drink. (ID 12, M, non-drinker)*
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3 Individuals who abstained from drinking described the importance of friends with similar attitudes
4 and behaviours around drinking and there was some evidence for peer selection in this group. Such
5 friends provided support for their viewpoint and provided some protection from felt pressure or
6 exclusion, enabling them to abstain and/or to enjoy social events more.
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12 *..if I was on my own it would have been worse, because you're just looking around*
13 *and everyone's drinking. Not that it would lead me to drinking, but it's still better*
14 *that I had friends who just don't do that at all: it made it much more fun (ID 16,*
15 *M, non-drinker)*
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23 Those who abstained frequently described strong interests in extra-curricular activities, particularly
24 sports, a strong religious faith, and/or clear core values and aligned family viewpoints (which
25 highlighted strong, clearly stated disapproval for alcohol use), which altered the meaning of alcohol
26 use and reduced, or counteracted, the effects of social influences and norms (S4.1, quote 9). In
27 addition, some of those who abstained reported family history of awareness of dependence or
28 alcohol-related problems, which increased concern around the risks and negative consequences of
29 alcohol consumption.
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39 *I'm pretty sure I'm glad not to like I don't want to start doing it because then maybe like*
40 *later life I will be addicted and I don't want to be. (ID20, M, non-drinker)*
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48 *2. The influence of social media*

49 The use of social media was integral to adolescent drinking behaviour and practice, particularly use
50 of Instagram or the multimedia messaging app Snapchat. Posting pictures and videos from parties
51 reflected the meanings associated with alcohol use, thus portraying participants being cool and
52 sociable, to enhance popularity and social status. The ubiquity and prominence of social media
53 weaved into young people's lives a relatively consistent, positive view of alcohol consumption that
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3 could act as another source of social influence and a visual depiction of norms that could contribute
4
5 to a felt pressure to drink (see also S4.2, quotes 1 and 2).
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7
8 *Because in a friendship it's more like direct, like they're going to tell you that, but*
9
10 *like, on a big scale like social media it kind of like tells you like that you should be*
11
12 *drinking, like when you can, and the norm is to, and then I think you feel a bit*
13
14 *pressured into it. (ID 37, M, non-drinker)*
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17
18 Social media used to demonstrate social capital, drinking 'competence' and maturity. Some were
19
20 described as sipping drinks just to look right in pictures, while others aimed to depict their prowess
21
22 in consumption.
23

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25 *I've noticed that a lot in my year group and like they'll kind of just... even if they*
26
27 *don't really want to drink it they'll kind of just hold it there and they'll just like sip*
28
29 *and stuff so they can have it for photos. (ID 34, F, moderate drinker)*
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34 Nevertheless, views on the impact on social media were mixed. A minority expressed caution about
35
36 posting images of themselves drinking owing to potential reputational risk. A minority also reported
37
38 a view that drinking was unaffected by social media, although it was nevertheless described as a key
39
40 component of drinking practice.
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43 44 45 *The pressurised environment*

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47 The combination of social media, social influences and social learning, alongside the meanings
48
49 associated with drinking (e.g. belonging, popularity) and wider cultural influences, created a
50
51 pressurised environment around drinking (Figure 1). Thus, the very interest in fitting in or feeling a
52
53 need to join in with friends was felt to be subtly pressurising, while being the only person not
54
55 drinking felt awkward and created unease, further contributing to a felt pressure.
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3 *Because you see everyone's doing it then you felt .. er like obliged to do it as well*
4
5 *sometimes. Um I don't often, like, myself but you can definitely tell other people*
6
7 *um it's like, oh everybody else is doing it so then I have to do it as well to fit in, it's*
8
9 *like one of those sorts of things and also if your friends are drunk then it sort of*
10
11 *becomes a thing where oh do you want mine you can have some, have some, and*
12
13 *then you're like oh my gosh like do I accept, do I not (ID 15, F, moderate drinker)*
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19 Branding of individuals as 'wimps' or awarding 'lad points' for intoxication associated with courage
20 and humour, further created incentives and obligations to drink to excess (S5, quote 1). The
21 inextricable link between drinking alcohol and socialising meant that resisting pressures or
22 challenging friends risked losing credibility as an integral and fun group member, or risked
23 jeopardising friendships (see also S5, quotes 2 and 3).
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30 *INT: .. and how does that make you feel if you are saying no?*
31

32 *RES: Um if you're like receiving yeah then you can kind of feel like it makes you*
33 *not want to be in that situation, it makes you just like feel oh I don't feel safe in this*
34 *environment anymore cos now I'm doing something that I don't want to do and*
35 *you're just like what do I do, I can't deal with this situation and you don't want to*
36 *not be friends with people who you're friends with, you don't want to break*
37 *friendships over it but it's one of those things where you kind of if you don't*
38 *like it then you have to say no and if your friends didn't accept that then it's like you*
39 *have to sort that out with your friends yourself, that sort of thing. (ID 15, F,*
40 *moderate drinker)*
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54 Pressure to drink was felt in a range of ways, including subtle and indirect pressure through offers of
55 alcoholic drinks, the felt need to be fun and to fit in, or proximal social influence. However,
56 participants also reported more direct pressure through goading or direct insults, leading some to
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1
2
3 describe feeling 'forced to drink' and others wishing to avoid appearing cowardly. Overall, the social
4 environment was felt to be conducive to feeling obliged to drink, or being 'pushed in the direction'
5
6 towards alcohol use (see also S5 quotes 4 and 5).
7
8

9
10 .. I used to think alcohol was really bad but I guess as like it becomes more talked
11 about, you're kind of dragged into it.
12

13
14 INT: Mm. It's interesting you say dragged into it.
15

16 RES: Not dragged – I'd say like kind of um pushed in the direction. (ID 27, F,
17 drinker)
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23 Nevertheless, such felt pressures were often unclear to the friends in question who were drinking,
24 who therefore pressurised others unknowingly. Drinkers did not consider their actions to be
25 pressurising, rather a gesture to enable or encourage friends to join in (see also S5, quote 6).
26
27

28
29 They just think they're saying it does – it's just a laugh like, if they're – they're
30 kind of – they're almost trying to make their experience more enjoyable by saying
31 if you do this... .. it will make it better, but I don't think that's the same kind of
32 response for the person on the other end. (ID 33, M, drinker)
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41 As outlined above, for non-drinkers, having friends with a similar viewpoint provided support and
42 reduced felt pressure.
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45 .. I don't know if I didn't have my friends or anyone to tell me not to drink, I'd probably be
46 drinking by now. .. So, I'm kind of happy that they're around. (ID 12, M, non-drinker)
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Discussion

In this paper, we have demonstrated how the wider alcohol culture normalised alcohol use for young people, helping to generate perceptions of drinking as a social practice associated with being cool, mature and popular as well as an important means of enhancing enjoyment and social status, in support of evidence regarding primary social and enhancement drinking motives in young adults (39). The ubiquity of alcohol use generated normative social influences and opportunities for social learning around initiation and continuation of alcohol use. Together with embedded meanings and expectancies, the interaction between peer norms, social influences and the effects of social media generated a pressurised environment in which young people felt obliged to comply and join in.

The strengths of our study include the gender-balanced sample of young people from both schools and youth groups, including those who used alcohol and those who abstained. We also used one-to-one interviews, which provided space for young people to share their views around drinking, without concerns around disagreement or judgement from peers or friends. A small proportion of interviews were conducted with dyads with one triad, however, we did not find evidence that participants exaggerated or withheld views and perspectives in these pairs, and paired interviews were conducted when expressed as a preference by the participants. Nevertheless, our data were not triangulated, and participants were recruited from urban and suburban settings only, so our findings cannot necessarily be generalised to different geographical or demographic contexts. Interestingly, although parental messages and the off-putting effect of observing intoxicated role models were described by some moderate drinkers, our data did not provide evidence regarding factors that might be affecting downward trends in the prevalence of alcohol use among young people in England, and further qualitative and quantitative research will be needed to explore such trends. Lastly, while we have reported that social influences and pressures are a critical influence on young people's alcohol use, further research will be needed to explore exactly how such influences could be effectively addressed in public health interventions for young people.

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5 The frequently reported desire to fit in with the group, and unease expressed in relation to
6
7 abstinence, highlighted the central role of normative social influence in generating a collective
8
9 practice in which intoxication was accepted and expected. Evidence suggests that both direct and
10
11 indirect pathways of peer influences and pressures may exist, which can contribute to generating
12
13 social influences (and can act together with peer selection (19, 40)). Pathways can be direct,
14
15 including offers of drinks, dares, or goading, (fitting with social and enhancement motives for
16
17 drinking)(41) and indirect, including modelling of peer drinking and/or contributions to the
18
19 formation of norms, beliefs and expectancies,(42, 43) (fitting with conformity motives for
20
21 drinking)(39) which were also evident in our study. In addition, studies have reported an impact of
22
23 being around peers who drink alcohol, either through proximity to social acquaintances who
24
25 consume alcohol or through time spent with drinking peers,(44, 45) highlighting the important
26
27 impact of the rise in prevalence of alcohol use through adolescence. This was evident in our study
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29 since being around other drinkers and being immersed in a practice in which drinking was highly
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31 prevalent (contributing to descriptive norms) contributed to the felt obligation to drink.
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39 Frequent reports by young people of needing to 'fit in' suggest that injunctive norms, or perceptions
40
41 of peer approval of drinking, were also critical. Thus, our findings support those of quantitative
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43 studies, which have reported associations between both descriptive and injunctive norms and
44
45 frequency and quantity of adolescence alcohol use and heavy episodic drinking,(22, 46). Specifically,
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47 one study reported a greater impact of injunctive compared to descriptive norms, with the former
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49 associated with a range of measures of alcohol use as well as alcohol-related negative
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51 consequences.(22)
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57 In addition to social norms and influences among peers, social media, or social networking sites
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59 (SNS), played a role in providing a physical depiction of positive alcohol-related descriptive and
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3 injunctive norms, which was an integral part of the social practice of adolescent alcohol use. Thus,
4
5 we have reported evidence to support a previous study describing 'intoxigenic digital identities' and
6
7 'intoxigenic digital spaces' that contribute to the normalisation of alcohol use.(47) Similarly, a
8
9 qualitative study of young women's drinking cultures described the critical nature of SNS in
10
11 facilitating displays of popularity, belonging, membership of the social network and 'friendship
12
13 fun'.(32) Such media also bring about opportunities for misperceptions owing to the circulation of
14
15 positive imagery, which can be interpreted at face value or as 'truth'.(48, 49) Quantitative data have
16
17 demonstrated an association between exposure to friends' alcohol-related SNS content and
18
19 initiation of alcohol use and stronger pro-alcohol peer injunctive norms, highlighting how the
20
21 provision of opportunities for observation, comparison and role-modelling of behaviours through
22
23 SNS can impact on norm perception and behaviour.(24) In addition, others have reported an
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25 association between alcohol promotion through digital media and adolescent alcohol
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27 consumption.(50, 51)
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34 Taken together, therefore, evidence suggests the need for public health interventions to effectively
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36 address both peer norms and social influences during adolescence, including the effects of SNS, to
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38 enhance the likelihood of effective prevention. Furthermore, the evidence of felt pressure resulting
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40 from the influences discussed above suggests that many young people feel a lack of autonomy
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42 around alcohol consumption, and constraint around behavioural decisions within their social groups.
43
44 Thus, in addition to addressing norm perception and normative social influence, there is a need for
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46 interventions to find ways of overcoming such constraints and fostering greater resistance to
47
48 conformity. Indeed our sample included participants who reported abstaining from alcohol use, and
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50 navigation through the social world resisting influences of drinking peers, with critical support from
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52 non-drinking friends, the importance of which has been reported by others (52). Thus, fostering
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54 greater resistance to conformity may require a strengthening of the voice and influence of those in
55
56 the minority group (i.e. those who abstain from drinking) as outlined in Moscovici's theory of
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3 minority influence (53, 54), which may be increasingly feasible in light of reported downward trends
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5 in adolescent alcohol consumption (3) and thus an increase in the proportion of non-drinking peers.
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Moscovici also highlights how influence goes beyond shaping people to a system, but that it continually changes a social system, thus the influence of increasing proportions of abstainers, who in our study reported counter-effects of peer influence and aversion to role models of intoxication, may increasingly shift alcohol use downwards at a population level (25) as the benefits of the 'deviant' or non-conforming behaviour or perspective become evident. It has also been suggested that feelings of powerlessness during adolescence may be overcome through enhanced social status for young people, for instance through opportunities for creative activities and active engagement in communities.(55)

Conclusions

Our study has demonstrated the effect of the interplay between cultural norms, social influences, social pressures, and social media, particularly the critical role of normative social influence, in driving the escalation and normalisation of alcohol use in mid-adolescence. Our findings suggest that there is a need for a combination of approaches to effectively prevent excessive alcohol use among young people. Interventions in young people need to target normative social influence and peer norms to interrupt the rise in prevalence of excessive drinking, while aiming to enhance social status and the ability to challenge social pressures, to increase the likelihood of preventing alcohol-related harm.

1
2
3 **Figure 1.**
4

5 Intersection of social and cultural influences on adolescent alcohol use and generation of a
6 pressurised environment.
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8 Note that family influences have been addressed elsewhere.
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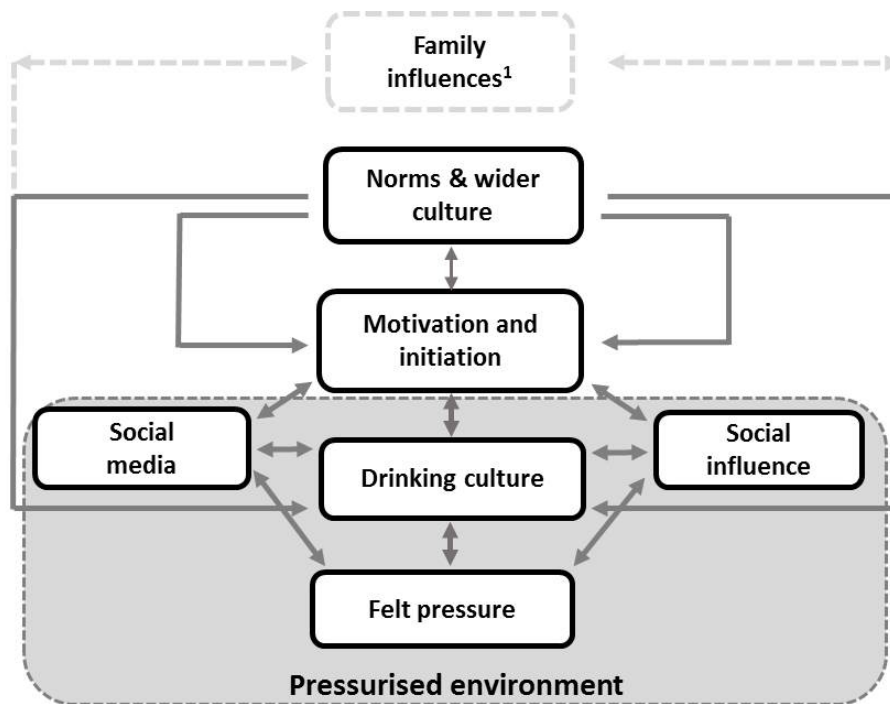


Figure 1. Intersection of social and cultural influences on adolescent alcohol use and generation of a pressurised environment.

¹ Family influences have been addressed elsewhere.

Intersection of social and cultural influences on adolescent alcohol use and generation of a pressurised environment. Note that family influences have been addressed elsewhere.

153x141mm (150 x 150 DPI)

Supplementary Material: Additional quotes

S1. Normalisation of drinking and the wider alcohol culture

1. *Yes but also like in films and like series, and social media, parties just look like crazy cus everyone's like getting drunk, so people who kind of their aim is, I wanna be cool, I wanna have lots of friends, and I wanna be the popular one. They think, the only way to do that is to go to the parties, cus that's what all the films say. (ID 13b, F, non-drinker)*
2. *I didn't really know that what it can actually do to you. I just thought oh it makes you happy and that's it, that's all you really hear about. (ID 21, F, drinker)*
3. *RES: ... I think drinking [sic: in adults] is fine because like obviously people really enjoy like wine and stuff, um, but I think it's bad when you're like addicted or like drinking more than is necessary. Yeah.*
INT: And how much would that be do you reckon, the drinking more than you need to?
RES: Um, like, I dunno, if someone was drinking like a bottle of wine a day that's like... that's just like someone who's like... it's like kind of like a normal amount to drink but it's a lot. But if someone's actually drunk throughout the day that's terrible I think. Yeah. (ID 17, F, drinker)
4. *Well there's a point where it's like, not fun anymore and also, it's just not cool anymore. It can be seen as like, cool having a few cans, getting drunk but then like after that it's just silly. And people will like, ignore you, in that situation (ID 13b, F, non-drinker)*

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5 5. INT: *Yeah, and what might be some of the bad things that you mention there?*

6 RES: *Getting addicted or feeling sick the next day. You can do bad things when*
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8
9
10 *you're drunk.*

11 INT: *Bad things?*

12 RES: *Well you don't really know what you're doing. (ID 40, M, light drinker)*

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18 6. INT: *And when you say kind of light drinking can I ask a bit what that would be?*

19 RES: *Maybe slightly tipsy but then like to the point where you can't walk is... there's n...*
20
21
22 *there's no point.*

23 INT: *Yeah. Okay. So, up to that point it's...?*

24 RES: *Well, slightly tipsy, [inaudible] but then anything more is pretty pointless but... yeah.*

25 INT: *Yeah. And pointless because?*

26 RES: *It just... it's sort of taking the fun out of it and it's just... you're just being stupid and*
27
28 *not controlling at all.*

29 INT: *Hmm. And what sort of things might happen at that point then?*

30 RES: *They'd hurt themselves.*

31 INT: *Okay. Yeah.*

32 RES: *Er, could hurt others maybe. Yeah. (ID 22, M, light drinker)*
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S2. Motivations to drink and the initiation of alcohol use

1. .. you could forget your troubles maybe and just live in the moment and just go, 'I'll deal with the problems later. I'll have fun now'. (ID 22, M, light drinker)

2. I think it's a good social thing like it makes it easier for you to talk to people, you know, and you can - you don't have to worry about like making a fool of yourself because you have an excuse and stuff. (ID 18, F, drinker)

For peer review only

S3: Young people's drinking and party culture

1. *People are saying oh its so, it will be so dead like without them drinking, like it will just be so boring and stuff, but they say like oh its better when we are drinking because it's more fun and like everybody is falling and everybody is like laughing. (ID 6, F, non-drinker)*
2. *Yeah, some people like – some people might usually go into like say the party and stuff and just say like “Oh I wanna get smashed” or something like that. (ID 36, M, drinker)*
3. *It's just mainly like parties, I guess, like people just think, it's a party, you have to drink, basically. (35b, F, non-drinker)*
4. *I'm not like – people often call you, um, a lightweight when you drink and get drunk, and it's like that's an offensive term. It's quite embarrassing if you get called that, but yeah, I think there's a lot of stigma towards that. (ID 32, F, drinker)*
5. *RES: I could be their friend and then they could do something stupid and I'd have to look after them or go and try and fix it, um, yeah.*
INT: And how would that make you feel doing that?
RES: Quite annoyed because they got themselves like this. (ID 22, M, light drinker)

S4. Social influences on adolescent alcohol use

4.1. Peer influence

1.

INT: And what do you think might have changed those people's opinion, how you said some people didn't and now do?

RES: Probably because they've seen the first people do it and once somebody...

INT: Hmm.

RES: ... one person starts doing it and then the next person then I think eventually it becomes like, everyone just wants to try it and then if they like it then they'll do it again and again. (ID 34, F, moderate drinker)
2.

Like one party we were at there's a group of people and they were talking about revision and so you just like walk away from them, and you're like 'oh, they're such like a buzz-kill' because it's not... they don't have to be drunk but they're just like changing... they're like shifting the... like the, um, like the vibe of the party to more like, I dunno, not as funny. (ID 17, F, drinker)
3.

INT: What do you think are the main reasons people might drink?

RES: Um, just they're eager to drink, and their friends are drinking. They will just drink. Like, it's... I mean, sometimes it's not even peer pressure; it's just seeing other people doing it, and you just want to do it as well, just to fit in. (ID 16, M, non-drinker)
4.

I know definitely that I felt a bit like not left out but like, not part of it, that's why I didn't enjoy it. It was really boring cus like I didn't wanna talk to anyone because

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3 they were all just like really drunk. So I just stayed like half an hour. (ID 13a, F, non-
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5 drinker)
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10 5. RES: Maybe like if you're invited to a party and everyone else there. You don't
11
12 really wanna be the one that...the only one not.

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15 INT: Um. How would it feel if you were the only person who wasn't do you
16
17 think?

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19 RES: Embarrassed maybe.

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21 INT: Um and why do you think that is?

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23 RES: Um 'cause you don't feel like you fit in the group. (ID 40, M, light drinker)
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28 6. But I think it's more like yeah you don't want to be sober at a party if you don't
29
30 want to be the person to look after all your friends. (ID 21, F, drinker)
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34 7. Because they see people when they're drunk and they'll think well that... that may...
35
36 may... you may think is fun but it really doesn't look that fun cos you're jumping
37
38 about and jumping on your head and stuff like that. What's the point? (ID 22, M,
39
40 light drinker)
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46 8. RES 1: .. in my friendship group I'm kind of like the mum like I'm always like.

47
48 RES 2: Me too.

49
50 RES 1: I'm always like just making sure everyone's ok.

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52 RES 2: Checking everyone's all right. (ID 31a F; 31b, F, moderate drinkers)
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57 9. I have had the invites from my friends but I've chosen not to go because I find that
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59 sport is more important to me, than just going drinking. (ID 37, M, non-drinker)
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4.2. The influence of social media

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1. *They kind of make you feel like you want to drink more cus it's like they're having...
When you look on Snapchat, most of the time, it just seems like you can see, like,
the good things. Cos people filming it are like oh such good fun. They won't put on
stuff that's like really bad. So it makes it; like I guess it gives the alcohol like a more
positive view (ID 8b, F, non-drinker)*
 2. *RES: I think whenever people are having like a night, like party then there's
always like drinks on their Snapchat which just shows that they're having fun and
they're drinking...
INT: Mm.
RES: So I wanna do that. And go to more things like that. (ID 26, F, drinker)*

S5. The pressurised environment

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5 1. INT: What kind of things would people say? What sort of um, type of thing
6
7 would they be?
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9 RES: Just like – like calling them scared and stuff for not doing it and stuff like
10
11 that.
12
13 INT: Okay. Yeah. Yeah.
14
15 RES: Like, are you too scared to do this? But like other words. (ID 33, M, drinker)
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19
20 2. .. a lot of people drink to impress their friends so say like one friends like oh yeah I
21
22 can drink this much and then the others like well I can drink this much and it's
23
24 almost like a sly competition and then that's when it gets bad and out of hand like
25
26 I've seen that from friends and then they've lost friends like because of it. (ID 31a,
27
28 F, moderate drinker)
29
30
31
32
33 3. RES: I think it's harder because what people want other people's – they want
34
35 other people to think about them like in a more positive way like...
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37 INT: Hmm.
38
39 RES: ... they don't wanna be thought of this person who's like not fun and
40
41 doesn't want to do all the stuff... (ID 33, M, drinker)
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43
44 4. RES3: Some people think you have to, just like peer pressure, I guess, if you're at a
45
46 party or something [laughs].
47
48 RES2: Mm.
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50 INT: What does that kind of feel like? What happens, when you say, 'peer
51
52 pressure', what's...?
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54 RES1: Forced into doing it, really. (ID 35a (M), b (F), c (F), non-drinkers)
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3 5. RES: *I think they always teach like I think they always teach peer pressure*
4
5 *wrong.*

6
7 INT: *Right. So what do they say?*

8
9 RES: *I mean they - well they always just say like if someone asks you to do*
10
11 *something that you don't want to do just say no. But it-it's not really that. I think*
12
13 *it's more that people are doing things and if you are not part of it – well you're not*
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15 *– like if you're not doing it as well you're not part of it... (ID 7, F, non-drinker)*
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21 6. RES: *I don't think so. I think I haven't really ever experienced any, like, peer*
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23 *pressure. Um, but I still think there is quite a lot of pressure to drink, um, whether or*
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25 *not anyone means to pressurise you. (ID 32, F, drinker)*
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37 Abbreviations:

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39 INT: Interviewer

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41 RES: respondent
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COREQ (CONsolidated criteria for REporting Qualitative research) Checklist

A checklist of items that should be included in reports of qualitative research. You must report the page number in your manuscript where you consider each of the items listed in this checklist. If you have not included this information, either revise your manuscript accordingly before submitting or note N/A.

Topic	Item No.	Guide Questions/Description	Reported on Page No.
Domain 1: Research team and reflexivity			
<i>Personal characteristics</i>			
Interviewer/facilitator	1	Which author/s conducted the interview or focus group?	
Credentials	2	What were the researcher's credentials? E.g. PhD, MD	
Occupation	3	What was their occupation at the time of the study?	
Gender	4	Was the researcher male or female?	
Experience and training	5	What experience or training did the researcher have?	
<i>Relationship with participants</i>			
Relationship established	6	Was a relationship established prior to study commencement?	
Participant knowledge of the interviewer	7	What did the participants know about the researcher? e.g. personal goals, reasons for doing the research	
Interviewer characteristics	8	What characteristics were reported about the interviewer/facilitator? e.g. Bias, assumptions, reasons and interests in the research topic	
Domain 2: Study design			
<i>Theoretical framework</i>			
Methodological orientation and Theory	9	What methodological orientation was stated to underpin the study? e.g. grounded theory, discourse analysis, ethnography, phenomenology, content analysis	
<i>Participant selection</i>			
Sampling	10	How were participants selected? e.g. purposive, convenience, consecutive, snowball	
Method of approach	11	How were participants approached? e.g. face-to-face, telephone, mail, email	
Sample size	12	How many participants were in the study?	
Non-participation	13	How many people refused to participate or dropped out? Reasons?	
<i>Setting</i>			
Setting of data collection	14	Where was the data collected? e.g. home, clinic, workplace	
Presence of non-participants	15	Was anyone else present besides the participants and researchers?	
Description of sample	16	What are the important characteristics of the sample? e.g. demographic data, date	
<i>Data collection</i>			
Interview guide	17	Were questions, prompts, guides provided by the authors? Was it pilot tested?	
Repeat interviews	18	Were repeat interviews carried out? If yes, how many?	
Audio/visual recording	19	Did the research use audio or visual recording to collect the data?	
Field notes	20	Were field notes made during and/or after the interview or focus group?	
Duration	21	What was the duration of the interviews or focus group?	
Data saturation	22	Was data saturation discussed?	
Transcripts returned	23	Were transcripts returned to participants for comment and/or	

Topic	Item No.	Guide Questions/Description	Reported on Page No.
		correction?	
Domain 3: analysis and findings			
<i>Data analysis</i>			
Number of data coders	24	How many data coders coded the data?	
Description of the coding tree	25	Did authors provide a description of the coding tree?	
Derivation of themes	26	Were themes identified in advance or derived from the data?	
Software	27	What software, if applicable, was used to manage the data?	
Participant checking	28	Did participants provide feedback on the findings?	
<i>Reporting</i>			
Quotations presented	29	Were participant quotations presented to illustrate the themes/findings? Was each quotation identified? e.g. participant number	
Data and findings consistent	30	Was there consistency between the data presented and the findings?	
Clarity of major themes	31	Were major themes clearly presented in the findings?	
Clarity of minor themes	32	Is there a description of diverse cases or discussion of minor themes?	

Developed from: Tong A, Sainsbury P, Craig J. Consolidated criteria for reporting qualitative research (COREQ): a 32-item checklist for interviews and focus groups. *International Journal for Quality in Health Care*. 2007. Volume 19, Number 6: pp. 349 – 357

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