Acceptability of targeting social embarrassment in a digital intervention to reduce student alcohol consumption: A qualitative think aloud study

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Abstract

Objective: Increasing knowledge about alcohol-related harms, changing social norms, or encouraging drinking within safe unit levels often fails to change behaviour in young people. A novel intervention called ‘OneTooMany’ was developed, which targets the short-term social, and potentially, embarrassing consequences of drinking alcohol. The aim of this paper was to explore its acceptability, and to determine any features that might influence its effectiveness as a means of reducing alcohol consumption.

Methods: Participants were 23 young adults (aged 18–30) currently studying at university (n = 18) or in the first six months following graduation (n = 5). A think aloud interview approach was employed. Three main themes were identified in a deductive thematic analysis.

Results: Embarrassing experiences were a normalised part of drinking occasions, while some were actively avoided, others were celebrated. Humour served as a device to engage and interest participants, but could also diminish intervention messages. OneTooMany prompted reflections on many regrettable drinking experiences, but the participants did not see themselves as the target audience for this intervention.

Conclusions: Interventions may benefit from focusing on some of the short term, embarrassing consequences of excessive alcohol consumption. Further research is needed to ensure that reflections on past behaviour are helpful in addressing future behaviour.

Keywords

Alcohol, digital interventions, social embarrassment, think aloud interviews

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Introduction

Excessive alcohol consumption is associated with a number of harmful consequences,¹ and young people in particular are negatively impacted. It appears that amongst some groups of young people in the United Kingdom (UK), alcohol consumption is falling, however, overall hospital admissions and alcohol-related illnesses such as liver disease are increasing.² Young people are also more likely to engage in heavy episodic drinking, which is associated with short-term harms such as accidents and injuries.³ A recent systematic review of student drinking in the UK and Ireland found that two-thirds of students could be classified as hazardous consumers and 20% reported alcohol problems.⁴

Health education programmes can sometimes fail to change student drinking behaviour.⁵ ⁶ Some findings

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suggest that heavier drinkers might be more critical of health messages than lighter drinkers,\(^5\) and that such educational interventions might be counter-productive, and lead students to maintain or increase their drinking.\(^7\) Advice about low-risk drinking guidelines is not perceived as relevant by this group of drinkers,\(^8\) and although social norms interventions are popular, their effectiveness has also been called into question.\(^9\) In fact, one recent study suggested that even though some interventions can produce short-term changes in behaviour, in the longer term, alcohol consumption returns to baseline levels.\(^10\) This evidence demonstrates that, despite various approaches to target the harms associated with young people’s drinking, there is an ongoing need to explore new approaches in this population.

The Global Drug Survey (GDS) 2015, specifically explored motivations for drinking less among different groups and identified social embarrassment as a significant issue for some.\(^11\) A study on a US college campus found a high level of acceptability for a poster campaign that targeted embarrassing situations that students might encounter when drinking.\(^12\) Another study found that students who scored lower in embarrassability were more likely to have experienced alcohol-related problems in their daily lives than those with higher embarrassability.\(^13\) This evidence suggests that there is a possible link between the extent to which one is prepared to lose face and the amount of alcohol consumed.

Other evidence suggests that young people might be motivated to avoid being the ‘one who needs to be looked after’ during a night out,\(^14\) and they may actively aim to stay in the ‘sweet spot’, a level of consumption where they believe they will not do anything that they may later regret.\(^15\) Thus, a focus on maintaining control, considering the embarrassing nature of one’s behaviour, and avoiding becoming a burden on friends could be explored as means of encouraging young people to drink less.

**OneTooMany**

Digital interventions have grown in popularity alongside the increase in Internet and smartphone use, and offer advantages in terms of cost and potential reach over face-to-face interventions. Although there are many freely available websites and phone applications that aim to encourage individuals to reduce their drinking, there is little research exploring the efficacy of, or optimal ingredients of such interventions.\(^16\)

Drawing on the GDS data and following a number of focus groups with university students, Author 4 developed an ultra-brief online self-assessment tool focusing on the short-term negative consequence of drinking, called OneTooMany. Focus-group findings suggested that participants were concerned with their social reputation, and would actively seek to avoid embarrassment. OneTooMany was designed to engage young people in a process that would allow them to reflect on their drinking in a novel and entertaining way and which could signpost interested individuals to seek further support and advice about drinking.

OneTooMany consisted of a single scrollable web page with 20 questions relating to incidents and behaviours that might occur as a result of alcohol consumption. Questions included asking whether participants have ‘lost important things (keys, phone, money, bag or clothing, etc.)’ whilst drinking, as well as asking whether participants have ‘got so drunk’ they are unable to recall what they have ‘done the night before’. Responses to these questions generated an Alcohol-Related Social Embarrassment (ARSE) score, out of a total possible score of 40. These scores were broken down into four groups, each category being given a label (e.g. Culus Major) and offering feedback on the type of drinker that score might relate to and the risks and consequences associated with it framed as motivators to reduce consumption. After reading a description associated with their score, participants were directed to sources of support concerning reducing alcohol consumption, if they wished to do so (see http://onetoomany.co/).

Using a taxonomy of behaviour-change techniques (BCT),\(^17\) the components of OneTooMany can be described as targeting the consequences of behaviour, specifically by presenting information about social and environmental consequences (BCT 5.3) and inducing anticipated regret (BCT 5.5).

The aim of the current study was to explore the acceptability of this novel intervention with young people, and to determine any features that might influence its effectiveness as a means of reducing excessive alcohol consumption.

**Method**

**Participants**

Participants were recruited in the UK via social media, a university electronic notice board and by posters displayed around the same university’s campus. The criteria for participation were that the individual was a current consumer of alcohol, and aged 18–30. We aimed to recruit both students and non-students to ensure a broad range of views were represented. Unfortunately it was challenging to recruit non-students into the study, and the employed participants were themselves recent graduates, thus the participants were a convenience sample. Recruitment of participants continued until saturation of data was reached, with a lack of new information being identified.
The participants were 23 young adults aged 20–30 (12 females; mean age = 22.91, SD = 2.57), 18 participants were students (11 undergraduate, 7 postgraduate), and five participants were employed in their first role since finishing university, having graduated six months prior to the study taking place. The procedure was granted approval by Oxford Brookes University Ethics committee (Study reference 150944). All participants were provided with an information sheet about the study in advance of the interview and asked to sign a consent form to indicate their agreement to take part. The information sheet explained that the purpose of the study was to provide feedback on a website designed to reduce excessive alcohol consumption in young people.

**Think aloud interview**

During a think aloud interview, participants are asked to talk through their thoughts whilst completing a task. This method was selected in the current study in order to find out how young people interacted with the intervention components. The think aloud interview has been used during the development of other digital interventions to determine their acceptability and feasibility.18,19 It has also been recently applied to evaluate how students engaged with another online intervention employed in the literature18,21 we used an approach that has previously been used by psychologists involved in developing digital interventions.19,22,23 In these studies, the think aloud method was used in combination with interviews; alongside being prompted to verbalise their thoughts, specific questions were used to elicit further elaboration from participants about the web pages.

In the current study, the think aloud interview was preceded by a semi-structured interview. The first main question was about general attitudes about alcohol; the second, about experiences of drinking at university; the third, about how their drinking compared with other people. These initial questions were used to set the scene for the topic of alcohol and to help the participant to feel comfortable in talking openly to the interviewer before the think aloud section. Participants were then shown the website on a laptop computer and invited to answer each of the 20 questions presented and to talk through their thoughts whilst doing so. If, during the think aloud interview, the participant stopped talking aloud, the interviewer asked them to ‘keep thinking your thoughts aloud’. If the participant remained silent at this stage, the interviewer would prompt a response, for example by asking the participant ‘what do you think about that question?’ or, ‘has this happened to you or anyone that you know?’ Participants were then asked their overall thoughts about the intervention, including who they thought it was aimed at. The final question asked what the participant would do if they were part of the interviewer’s research team in order to encourage young people to cut down the amount that they drank and reduce the negative consequences of drinking. At the end of the interview they were asked if they had any other views about alcohol not previously mentioned. Interviews lasted 30–40 minutes and took place in a quiet meeting room; the interviewer sat side-on to the participant. The interviewer was a female researcher not previously known to the participants. All interviews were audio recorded and transcribed verbatim prior to analysis. Participants received a £15 voucher to thank them for their time.

**Analysis**

We subjected the data to thematic analysis using the six stages outlined by Braun and Clarke.24 Our aim was to identify the acceptability of the intervention and determine any features that might influence its effectiveness. Thus, this study involved a deductive analytic strategy driven by the intervention. During data familiarisation, transcripts were read and re-read by the research team, before the data was first fully coded by Author 2. Initial coding generated 225 codes. Coding was then shared with the other authors, each taking a selection of interviews to code and discussions were held to agree coding where disagreements were found. A number of codes were combined following discussions, for example two codes ‘awareness of units’ and ‘alcohol guidelines’ contained similar extracts. Those that were not related to the intervention content were set aside, including codes relating to ideas for new initiatives to reduce drinking, drug use, and the role of alcohol at university. During the ‘search for themes’ phase of analysis, we reviewed the codes and pooled them into potential themes and sub-themes. These themes were then reviewed across the data set to ensure that they comprised an accurate reflection of the transcripts and a thematic map was produced in the form of a table (see Table 1 for the final set of themes and sub-themes). During the ‘defining and naming themes’ phase of analysis, we refined the specifics of each theme. The final set of themes and sub-themes were agreed between all authors during the process of preparing the manuscript.

**Results**

We identified three main themes relating to the research question within our analysis. Each theme had related sub-themes (see Table 1). Supporting quotes to evidence each theme and sub-theme are presented below.
Participants’ names have been replaced with pseudonyms and their ages are included, followed by UG to denote undergraduate student, PG for postgraduate and G for recent graduate.

### Embarrassment goes hand in hand with drinking

The theme ‘Embarrassment goes hand in hand with drinking’ encapsulates the tricky relationship between social embarrassment and drinking. Findings suggested that embarrassing experiences were a normalised part of drinking occasions; while some were negative, and outcomes that participants would wish to avoid, some were also celebrated as shared stories in the days or weeks that followed. Participants compared the intervention content with information that they would expect to see on a website about alcohol, such as health risks, and this new focus appeared to be unexpected. Furthermore it was apparent that for these participants, embarrassment could go hand in hand with social drinking, and to a certain extent was an expected aspect of the night out. Furthermore, this embarrassment could be seen as a marker of social status/reputation.

*Targeting embarrassment as a novel approach compared to targeting health*

It appeared that OneTooMany had a novel approach in comparison to other digital interventions or sources of information about alcohol that the participants had previously encountered. Some of the participants talked about their awareness of alcohol units as a means of measuring a level of alcohol consumption that was less risky for their health. However, it appeared that unit-based information was seen as too abstract.

‘Collecting just the data [on units] kind of separates the person from their drinking habits, whereas I think this is much deeper’ (Becca, 22, PG).

Linked to this, although most had heard of alcohol units, only three participants could accurately describe what a unit of alcohol actually was. Their discussions on this topic reflect other findings that demonstrate either a lack of awareness or a perceived lack of relevance of units to many people’s lived experiences of drinking.

It appeared that the feelings or the behaviours that resulted from drinking were cited as more relevant means of monitoring consumption. One reason that OneTooMany might have an advantage over interventions providing information about alcohol units or health is that participants were able to relate the information to their own lives.

I think this is better [than other alcohol websites] I’m presuming because this is going to be [sic] give rise to actual stories or like incidents or anecdotes as opposed to a unit-based thing. I don’t think many people have that many stories that begin with ‘hey I had 18 units last night’ (Jack, 22, PG).

As Jack says, young people do not tend to discuss alcohol in terms of units amongst themselves. However, they will discuss the things that have happened on a night out and these incidents might offer proxy measures of consumption levels. This could mean that they will be more willing to consider an intervention message that tackles short-term consequences than one that targets longer term health issues, for example. Indeed, for some participants, it was evident that they regulated their drinking primarily in order to avoid embarrassing consequences.

*Embarrassing behaviour can confer status*

Another key factor that appears to be important when comparing OneTooMany to other existing interventions is that many of the participants suggested that they were concerned about their social reputation. However, evidence from the transcripts suggested that, while image concerns were important, being involved in an embarrassing situation when drinking could confer some social status within one’s peer group.

The one I’m thinking of, I fell in a bin and that got posted on Facebook. But that’s the only time it’s ever happened and you know what, rightly so, if somebody...
gets something golden like that on camera [Laughing] I deserve to be humiliated for that (Nikki, 21, G).

‘The embarrassing things are probably the things you remember for years to come anyway’ (Mark, 23, UG).

For Nikki, remembering this event with her friends and comparing embarrassing mishaps appeared to be an important part of their stories about nights out. There was a sense for some participants that it was good to be the one providing the laughs for the others, and that these stories may be told and retold in the future. Indeed it seemed that part of the night out, for some participants, involved looking on social media the next day to see what had happened and to gain amusement from others’ misfortune. However, for other participants, it appeared that they regulated their drinking in order to reduce any potential embarrassment.

Taken together, this theme shows how a focus on the social consequences of drinking is likely to be more relevant to young people than a focus on health harms. It also shows that this approach needs to be cautious because there are clear short- and long-term social benefits of suffering some embarrassment whilst drinking.

**Humour can promote as well as undermine message content**

OneTooMany takes a light-hearted approach and provides respondents with their ARSE score, as outlined above. Findings relating to the humorous aspects of the intervention are drawn together in the theme ‘the role of humour’. It was apparent that there was a dual aspect to the jokey and light-hearted elements of the intervention. They seemed to serve as a device to engage and interest participants at the outset, and detract from serious issues arising from excessive drinking.

**Humour as an engagement strategy**

Participants appeared to find OneTooMany engaging because it used humour. The questions about embarrassing scenarios seemed to be appealing and may serve as a function to encourage participants to spend more time on this website than they would on other alcohol-related sites.

They were quite funny so sort of quite humorous so I did carry on with them. I was quite intrigued as to what the score was actually going to be and what the outcome was, because it’s not like, it didn’t feel like a test (Callum, 23, UG).

This approach may also have an advantage of being a ‘way in’ to discussing more serious issues related to alcohol. If participants are engaged by the humorous questions then this could be one way to appeal to those who may not normally engage with alcohol harm-reduction/prevention programmes.

I enjoyed this because it’s really funny, you know. Um, it’s just making a little bit of a joke out of um something that is quite serious, but as I say it it’s tackling something serious in a very nice jokey and um young way (Nikki, 21, G).

It is possible that the use of humour also means that the more serious messages about alcohol harm-reduction are listened to rather than being discounted. For many participants, drinking alcohol had simultaneously highly pleasurable and negative connotations. This means that any messages that simply focus on the negative aspects of drinking are not reflective of the participants’ lived experiences of having fun and social bonding.

I think that’s quite funny… because yeah you can wake up feeling like a total arse. But…yeah, I think…I like that it’s something that’s highlighting the negative side of that because there are there are [sic] always two sides to everything and at the time or other people may think that it’s fun and it’s you’re being funny and it’s you know all this hilarious story or all the rest of it but actually…it is embarrassing or slightly terrifying if you are so drunk that someone could’ve taken advantage of you. It’s not just embarrassing it’s actually quite dark (Tilly, 25, G).

Thus, there may be a fine balance between drunk enough to have fun, and becoming too drunk, and suffering negative consequences. Finding this tipping point could be a useful avenue for interventions.

**Humour can detract from the message**

On the other hand, it is important to acknowledge the use of humour could have a negative impact. For example, receiving a high ‘ARSE score’ could be viewed as amusing within a friendship group.

You’d end up just talking about what happened in certain occasions and then everyone would be taking the mick out of each other so it wouldn’t take it that seriously I wouldn’t have thought … if I was to do it now with all my course mates it, it would funny [sic] whoever got the highest score (Mark, 23, UG).
OneTooMany was also compared to ‘Buzzfeed’ (a website with numerous quizzes for entertainment purposes), which could mean that the underlying message about reducing drinking would not be comprehended. Instead, it may seem like a source of amusement, or something that would be trivialised.

‘Yeah I think it has a negative impact for maybe encouraging people to get a bad score, but then you’d get more people to actually take the survey’ (Matthew, 22, UG).

Thus, it may be problematic for participants to discuss their scores with others, because it may not be seen as socially acceptable to acknowledge that embarrassment is an unwanted consequence of drinking. On the other hand, it appeared that for many participants, their private reflection on the score might be quite different.

I think that’s definitely a different sort of attitude, it’s almost like how bad are you is a good thing at that age, that’s the issue. Extrovertly I’d say to my friends ‘oh, this is quite high’ and I’d be proud of it, but actually I’d be thinking um maybe that’s not such a good thing inside (Samuel, 23, UG).

Overall, the evidence in this theme suggests that using a humorous approach was well received by the participants, and could be a means of delivering a more serious message. However, this evidence also shows that humour has the potential to reduce or negate the safer drinking message, although this may be due to perceived social pressures and expectations.

Reflecting on past drinking behaviour influences perception of current behaviour

Participants reported that reading through the questions was a prompt that led them to contemplate past behaviour and drinking experiences. This final main theme encapsulates both the negative stories that participants retold during the interviews, and the sense that these experiences played an important part in creating the present and future drinker identity, where past errors had resulted in learning to avoid harms. This reflection revealed a further challenge in that participants, even those who suggested they drank excessively, did not appear to see themselves as the target audience for this type of intervention.

Evaluating and learning from past experiences

‘You read the question and it instantly triggers in your mind a night out or experience that you’ve had’ (Henry, 21, PG).

Henry’s quote is typical of the sample and illustrates that participants were able to recount various scenarios related to the OneTooMany questions. They each told a number of ‘horror stories’ about their own drinking that had impacted upon their subsequent alcohol consumption, at least for a short time. Contemplating these negative experiences has the potential to encourage participants to think about reducing their drinking.

I think when you read it … you think to back to the nights you’ve messed up on and you kind of think ‘ah but I kind of wish I wouldn’t do that’, cause I’m now rethinking the nights I’m trying to forget, if you know what I mean (Matthew, 22, UG).

This reflection could be a mechanism by which the intervention might reduce alcohol consumption as Fraser and many of the other participants suggested.

‘It might make people think about their drinking um, I think perhaps just er just going through the questions is a period of self-reflection isn’t it, it makes you um evaluate yourself a bit’ (Fraser, 30, UG).

Receiving a score and some feedback also seemed to be a point at which further reflection was prompted.

Even if it starts making people think about their actions, then you think ‘oh is it normal or is it not?’ and then, the ARSE score at the end … could work together to kind of make someone think ‘oh maybe I do need help’ or ‘maybe I do need to cut back on alcohol’ and then and then [sic] there’s the link there that they could go to (Lucy, 21, UG).

Some participants said that thinking about past mistakes might make people uncomfortable and that this could be a negative impact of the intervention. However, thinking about times when one’s behaviour did not match one’s self concept could drive future change.

Whilst it appeared that participants were not keen to repeat the majority, if not all, of the negative experiences they discussed, it seemed that they felt that some purpose had been served. Negative experiences were viewed as having learning outcomes that could be applied to future drinking. Tilly discussed a time that she had been separated from her friends during a night out and ended up going home with people she did not know:

‘And that it’s all really terrifying looking back on it now. At the time you try and laugh it off but you don’t quite realise how vulnerable you are I suppose’ (Tilly, 25, G).
Tilly, like many of the other participants, seemed to view these occasions as important lessons in staying safe from then on. Indeed, there was a strong sense that both acceptable levels of consumption and behaviour needed to be learned through personal experience.

I’ve definitely had nights when I’ve gone way past the limit and I’ve ended up you know, but not in hospital or anything, but throwing everything up and it’s just unpleasant. Um, but that’s just, learned from your mistakes really and then you gauge how to have a good and successful night (Eva, 22, PG).

Thus, OneTooMany might be effective because it prompts participants to reflect on their previously regretted behaviour and in this way in could encourage them to take steps to ensure that such mistakes are not repeated.

**Distancing from target audience for intervention**

There was also evidence that the participants distanced themselves from heavy drinkers in the form of direct comparisons made to other people who consumed more alcohol and whose behaviour was seen as inappropriate. Because of this, and that they had ‘learned from experience’, the participants did not view themselves as the target audience for this type of intervention. Participants tended to describe ‘other people’ as heavier drinkers, so perhaps there is still a place for some normative feedback about drinking to be included alongside the embarrassing scenarios.

‘I have got people in my life in comparison that are worse than me so I’m like “well I’m not them so I’m alright” ’ (Ellie, 23, G).

On the whole, participants did seem to feel that students were a good target for the intervention, but they generally thought that it might be aimed at younger drinkers than themselves. Although there were mixed views about whether it would impact on them.

I think it’s aimed at more people that possibly have just started drinking or yeah so I don’t know whenever they start drinking. But I don’t know, I don’t think it’s going to necessarily change anyone’s behaviours because people do what they do and usually people can’t tell them any different (Georgia, 23, PG).

However the intervention was seen as inappropriate for older people, or those or had problems with drinking.

‘They’d probably rather actually speak to like a doctor or something if they’re that worried about it, they wouldn’t want just an online quiz to tell them how good or bad their drinking was’ (Mark 23, UG).

Taken together, the findings in this theme show that OneTooMany prompted personal reflection on past drinking experiences, which could be a mechanism by which it might bring about behaviour change. However, caution needs to be taken because active reflection could lead to the conclusion that they do not need to change their current behaviour, because they distance themselves from their past, less-experienced self, and instead believe that these messages apply to younger, inexperienced drinkers.

**Discussion**

The aim of this study was to explore the acceptability of OneTooMany, and to determine any features that might influence its effectiveness as a means of reducing alcohol consumption. Three main themes relating to these aims were identified during the analysis process. These themes were related to social consequences, the role of humour, and prompting reflection.

A focus on the embarrassing consequences of drinking appeared to be an acceptable means of engaging young people, in contrast to a focus on avoiding health harms or advice about low-risk drinking in terms of units. This is in line with other research that suggests these factors are not viewed as relevant to young people.6,8 It is important to acknowledge that it is not just the drinking itself that is important when groups of friends socialise with alcohol. Drinking in this context involves a flow of fun activities around the drinking occasion and can add to the pleasure of socialising for young people.14 Because the intervention focused on such social occasions, it appeared to relate well to the participants’ experiences, leading them to recollect stories from nights out. Findings also suggested that participants were concerned with maintaining a good reputation amongst their peers. However, it appeared that being involved in an embarrassing situation might confer some status on an individual. In line with previous research, there was evidence that negative experiences were constructed as part of a good overall experience,14 and that they may contribute to bonding among friendship groups.25 Previous research also suggested that individuals who were less likely to feel embarrassment had higher levels of alcohol-related problems.13

The use of humour was also an important aspect of the intervention, which could both enhance and detract
from the overall message. Participants seemed to engage with the content because of the light-hearted nature of the website. Furthermore, it is possible that this could act as an entry point to more serious discussions about alcohol consumption. Some of the participants’ comments revealed that, while embarrassing experiences might be valued by the friendship group, the individual may later reflect and regret them in private. Previous studies on anticipated regret appear to focus on the amount of alcohol consumed, rather than what actual consequences might be regretted. Thus, the focus on social regret does appear to offer something novel here, and it would be helpful to explore this aspect quantitatively to gain an understanding of which experiences would be regretted to a greater extent than others.

Further research is also needed to explore which negative scenarios are seen as humorous and therefore sought out or valued in different friendship groups. Previous research has suggested a humorous value in stories that transgress social norms, highlighting the need for careful consideration of message content. One possible means of achieving the aim of reducing alcohol consumption via a focus on embarrassment might be to highlight the importance of not becoming the person everyone else has to take care of, thus reducing the chance of further funny memories being generated.

Reading through the intervention website appeared to prompt reflection on past drinking experiences among the participants. Indeed, some participants talked about occasions that they would much rather forget. This reflection might be uncomfortable, but, as suggested by other researchers, has the potential to encourage participants to think about how their drinking might have contributed and to influence future behaviour. For many of the participants, there was a sense that they had learned from past experiences, and a suggestion that individuals had to undergo a certain amount of alcohol-related hardship in order to learn their limits. Perhaps because they felt they had learned from past experience, the participants appeared to distance themselves from being the target audience for the intervention. Individuals often tend to think that they drink less than average. Other research suggests that when young people drink, they compare their behaviour favourably to that of other people, and therefore do not believe that they need to change. Further research is needed to explore ways of encouraging young people to view their drinking in a realistic light for interventions to be appropriately targeted.

Overall, these findings have a number of implications for the further development of OneTooMany, as well as for other alcohol interventions aimed at young people. These findings suggest that targeting the socially embarrassing consequences of drinking alcohol might be an effective means of engaging with this population, and encouraging them to reflect on their behaviour. The use of scenarios that participants could relate to and the role of humour to engage them can be viewed as strengths. What is clear from these findings is that further research is needed to determine which scenarios convey the sort of social status to be actively encouraged or converted into positive narratives when considering the night out as a whole. This research should also determine the types of situations that may lead participants to reflect on the regrettable consequences of drinking alcohol. It is also apparent from other studies that some nationalities may be more concerned with the socially embarrassing consequences of drinking alcohol than others. Thus, subsequent research should explore other experiences alongside embarrassment that might lead young people from the UK to reduce their drinking.

Limitations

This was a small qualitative study conducted on one university campus in the UK, and thus we make no claims for the generalizability of the findings. As disclosed on the study information sheet, participants were aware that the website was aimed at reducing excessive alcohol consumption, and that the researcher was involved in other studies with the same aim, thus they may have responded to her differently than they would have done to another individual not involved with alcohol-related research. Furthermore, detail included on the information sheet may have had an impact on the final sample, with individuals most at risk from their heavy drinking perhaps dissuaded from taking part. In this study we preceded the think aloud interview with some semi-structured questions and this timing may have influenced participants’ responses to the intervention. Furthermore, as some of the scenarios were of a personal nature, it is highly possible that the participants may have felt uncomfortable discussing them with the researcher. In order to reduce researcher bias, we reviewed the transcripts and findings a number of times to ensure that we had represented the views of the participants in the study fairly, but we acknowledge that analysts not engaged directly with alcohol research may have interpreted the findings in a different way.

In summary, interventions designed to reduce risky drinking in young people may benefit from focusing on some of the short-term, embarrassing consequences of excessive alcohol consumption, rather than on reducing unit intake or health harms. Embarrassment is a common side effect of alcohol consumption, but it is apparent that it could sometimes be viewed as positive by some young people, and woven into the narrative of
a night out. Using humour may be a good way to bring about engagement with alcohol interventions in a student population as long as this does not mask the behaviour-change techniques and become the sole outcome. Further research is also needed to ensure that reflections on past behaviour are helpful in addressing future behaviour, and not just chalked down to ‘experience’.

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