Voluntary Temporary Abstinence From Alcohol During “Dry January” and Subsequent Alcohol Use

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Objective: Research suggests that temporary abstinence from alcohol may convey physiological benefits and enhance well-being. The aim of this study was to address a lack of information about: (a) correlates of successful completion of a planned period of abstinence, and (b) how success or failure in planned abstinence affects subsequent alcohol consumption. Method: 857 British adults (249 men, 608 women) participating in the “Dry January” alcohol abstinence challenge completed a baseline questionnaire, a 1-month follow-up questionnaire, and a 6-month follow-up questionnaire. Key variables assessed at baseline included measures of alcohol consumption and drink refusal self-efficacy (DRSE). Results: In bivariate analysis, success during Dry January was predicted by measures of more moderate alcohol consumption and greater social DRSE at baseline. Multivariate analyses revealed that success during Dry January was best predicted by a lower frequency of drunkenness in the month prior to Dry January. Structural equation modeling revealed that participation in Dry January was related to reductions in alcohol consumption and increases in DRSE among all respondents at 6-month follow-up, regardless of success, but indicated that these changes were more likely among people who successfully completed the challenge. Conclusions: The findings suggest that participation in abstinence challenges such as Dry January may be associated with changes toward healthier drinking and greater DRSE, and is unlikely to result in undesirable “rebound effects”: very few people reported increased alcohol consumption following a period of voluntary abstinence.

Keywords: alcohol, abstinence, self-efficacy, prospective

In recent years, various organizations in different countries have established campaigns in which people are challenged to give up alcohol for 1 month. Some are designed as sponsored fundraising events (e.g., au.dryjuly.com, nz.dryjuly.com). Others such as “Dry January” (www.dryjanuary.org.uk) are simply presented as a challenge to be undertaken in cultures in which alcohol consumption is a common feature of social life (Babor, 2010). Anecdotal evidence suggests that some people make use of such challenges to initiate reductions in alcohol consumption or to quit drinking altogether. The latter goal is a key motivation behind campaigns such as “Stoptober” (stoptober.smokfree.nhs.uk), in which smokers are challenged to stop smoking for 1 month (Brown et al., 2014), because smokers who can give up for 1 month are significantly more likely to quit (West & Stapleton, 2008).

Whereas Stoptober is underpinned by a desire to encourage smoking cessation (Brown et al., 2014), temporary alcohol abstinence challenges do not aim for permanent abstinence. For example, the goal of the UK charity Alcohol Concern is to improve people’s lives by reducing the harm caused by alcohol, with a long-term aim of changing the drinking culture (www.alcoholconcern.org.uk). Alcohol Concern first ran its abstinence challenge, Dry January, in 2013 to encourage people to think about the way they drink and to talk about alcohol: this reflects theorizing around “social contagion,” and a hope that healthy changes in beliefs and behavior among a subgroup of people will spread through the population (Christakis & Fowler, 2013; Einstein & Epstein, 1980). Alcohol Concern also allows people to opt in to fundraising via sponsorship of their attempt to complete Dry January.

One small-scale study of the effects of a month of abstinence found marked reductions in liver fat and blood glucose, moderate reductions in blood cholesterol, and marked increases in self-reported sleep quality, concentration, and work performance (Coghlan, 2014). These benefits are impressive, but it has been suggested that they may be lost if people subsequently return to previous levels of drinking or experience “rebound effects” whereby their alcohol use increases following a period of abstinence (“A Break From Booze,” 2014).

Correlates and Consequences of Temporary Abstinence

There is a need for more information about the correlates and consequences of participation in alcohol abstinence challenges.
Little is known about how many people successfully complete the Dry January challenge, or about characteristics that distinguish those who succeed from those who fail. Furthermore, there has been no evaluation of the long-term effects of voluntarily undertaking a period of abstinence from alcohol. It is important to address these knowledge gaps to determine the potential utility of abstinence challenges within health psychology.

Characteristics of drinkers are likely to explain success in abstinence challenges and/or subsequent alcohol consumption. Drink Refusal Self-Efficacy (DRSE; Young, Oei, & Crook, 1991) is an individual’s self-perceived capacity to refuse alcohol in three domains: social settings when others are drinking, for emotion regulation, and opportunistic drinking. Greater DRSE correlates with less harmful alcohol consumption (Atwell, Abraham, & Duka, 2011; de Visser et al., 2014; Gilles, Turk, & Fresco, 2006; Oei & Jardim, 2007). One might, therefore, expect people with greater DRSE to be more likely to complete abstinence challenges. One might also expect those who have completed a month of abstinence in the past to be more likely to complete a new abstinence challenge because they have demonstrated their DRSE.

There is a lack of evidence about how patterns of alcohol use affect success in an abstinence challenge. However, evidence from two related domains suggests that moderate drinkers may be more likely than heavier drinkers to complete an abstinence challenge. One study of pregnant women found that lighter drinkers were less likely to intend to drink or to actually drink during pregnancy (Zammit, Skouteris, Wertheim, Paxton, & Milgrom, 2008). Studies of alcohol use among university students indicate that more moderate alcohol consumption in the past is related to a lower likelihood of intended and actual heavy episodic drinking (Norman & Conner, 2006; Norman, Conner, & Stride, 2012). Furthermore, people who more strongly endorse fun and sociability as reasons for binge drinking are more likely to subsequently engage in binge drinking (Norman et al., 2012). This finding supports the earlier speculation that people with lower social DRSE may be less likely to complete an abstinence challenge. It is also important to note that habitual patterns of alcohol intake exert a strong influence on people’s subsequent alcohol intake (Norman, 2011).

In addition to considering characteristics of individuals, it is important to consider social contextual influences on behavior change. Social support can help people to adhere to health behavior change (Bauld, Bell, McCullough, Richardson, & Greaves, 2010; Olander et al., 2013). Social support can be conceptualized in general terms and/or as a measure of direct support from specific individuals. In the context of Dry January, it could be conceptualized as encouragement from important individuals such as the event organizers and/or support and encouragement from companions in “buddy systems,” in which participants pair up to offer mutual support. Buddy systems can increase the likelihood of successful health behavior change across a range of behaviors (Jepson, Harris, Platt, & Tannahill, 2010; West & Stapleton, 2008), and there is evidence that supportive friends or partners can help people to reduce their alcohol intake (Barber & Crisp, 1995; McCrady, 2004). However, it is not known whether undertaking an alcohol abstinence challenge with another person affects success rates. People who engage in fundraising through Dry January may have a greater resolve to complete the challenge after having made a public commitment to it: evidence from social psychological research indicates that people are more likely to enact a behavior after making a public commitment to do so (Cialdini, 2009, p. 52; Festinger, 1957, p. 11).

The lack of information about rates and correlate of success in abstinence challenges is accompanied by a lack of information about the consequences of a successful or unsuccessful abstinence attempt. One might expect there to be feedback loops between DRSE and alcohol consumption such that successful completion of a dry month could lead to increases in DRSE that result in reduced alcohol consumption (Atwell et al., 2011; de Visser et al., 2014; Gilles et al., 2006; Oei & Jardim, 2007). It may also be the case that completing the first part of Dry January demonstrates to participants that they can refuse alcohol, leading to increases in DRSE that make completing a dry month more likely.

It is important to note, however, that failed attempts at temporary abstinence may lead to “rebound effects,” whereby alcohol intake increases above baseline levels following a period of abstinence. Studies of nonhuman animals suggest that enforced abstinence from alcohol tends to be followed by increases in alcohol consumption (Rodd, Bell, Sable, Murphy, & McBride, 2004; Sinclair & Senter, 1967). Although such findings are interesting, it must be noted that alcohol consumption in animals is devoid of the important cultural and psychosocial factors that influence people’s alcohol use (Babor, 2010; de Visser, Wheeler, Abraham, & Smith, 2013; Szvimig, Bengry-Howell, Griffin, Hackley, & Mistral, 2011). Furthermore, enforced abstinence in animal model studies may not be directly comparable with voluntarily participation in abstinence challenges such as Dry January. There is little evidence from studies of humans to conclusively support or rebut the notion that periods of voluntary abstinence will lead to “rebound effects” (Bray et al., 2010; Burish, Maisto, Cooper, & Sobell, 1981; Carey, Carey, & Maisto, 1988).

To address the issues identified above, a longitudinal study was conducted with data collection at registration for Dry January, at the end of Dry January (1-month follow-up), and 6 months after the end of Dry January (6-month follow-up). Analyses addressed three hypotheses:

Hypothesis 1: Successfully completing Dry January would be predicted by previous completion of 1 month of abstinence; drinking less at baseline, intending to stop drinking after Dry January, greater DRSE at baseline, doing Dry January with a companion, and fundraising through Dry January;

Hypothesis 2: Successful completion of Dry January would lead to increases in DRSE that would lead to consequent reductions in alcohol intake;

Hypothesis 3: Rebound effects would be uncommon, but would be most likely among people who failed to complete Dry January.

Method

Participants

The baseline sample consisted of 1,070 men and 2,722 women aged 18 years or older (range = 18–76, median = 41, M = 40.7, SD = 11.6) who had registered on the Dry January web site. Data from an additional 411 people were excluded from analysis: 11 respondents aged under 18 years; 10 people who had not con-
sumed alcohol in the past year; 84 people who did not live in the United Kingdom; and 306 who did not complete the baseline questionnaire. One-month follow-up data were provided by 1,684 people (479 men, 1,205 women; 44.4% of original eligible sample). Six-month follow-up data were provided by 857 people (249 men, 608 women; 22.6% of original eligible sample). Only the 857 respondents who completed all three waves of data collection were included in the analyses presented here.

Research Design

The study employed a prospective longitudinal design. The research methods were approved by the host university Research Ethics Committee. All people who registered on the Dry January web site were invited to take part via a link to the online survey, which was hosted on a secure server. The home page described the study rationale and methods and outlined consent and data protection procedures. Respondents were informed that by clicking “yes” to begin the survey, they were confirming that they were over 18 and gave consent for their data to be used for research purposes, and to be contacted for two follow-up surveys. Upon completing the baseline survey, participants were asked to provide contact details so that they could be sent the URL for each of the follow-up surveys and be entered into a prize draw to win £100 in store vouchers. The link to the 1-month follow-up questionnaire was sent on the first day of February, with reminders sent after 4 days and 8 days. The link to the 6-month follow-up questionnaire was sent in the first week of August (i.e., 6 months after the end of Dry January), with reminders sent after 4 days and 8 days. Data from the three waves of data collection were linked by unique ID codes.

Materials

Baseline questionnaire. In addition to collecting demographic data, the questionnaire assessed the age at which participants first consumed alcohol (Age first drink). Participants indicated the longest period of abstinence from alcohol since their first drink (in days, months, and/or years), from which it was possible to calculate the longest period of abstinence from alcohol since their first drink. Attention was given to items assessing participants’ usual number of drinking days per week (Drinking days per week), and the number of drinks consumed on a typical drinking day (Drinks per drinking day). Because most of the AUDIT items are framed with reference to at least the last year, AUDIT scale scores were not suitable for use in analyses of change in behavior at 6-month follow-up. Respondents also reported the number of times in the last month that they got drunk (Drunk episodes last month).

DRSE was assessed via responses to nine items (Young et al., 1991) using 7-point scales (very difficult to very easy) introduced with the instruction, “Please use the scale below to indicate how easy it would be for you to refuse alcohol in each situation.” The DRSE scale consists of the three-item subscales, each of which assesses a discrete domain of DRSE: social pressure (DRSE-social; α = .80; e.g., “When my friends are drinking”); emotional relief (DRSE-emotional; α = .90; e.g., “When I am worried”); and opportunistic drinking (DRSE-opportunistic; α = .83; e.g., “When I am watching TV”). Scores on these three subscales were significantly correlated, but not so strongly as to suggest collinearity (.33 ≤ r values ≤ .51, p values < .01).

One dichotomous question assessed whether respondents were attempting Dry January with another person (Dry January companion). Respondents also indicated whether they were fundraising during Dry January (Fundraising).

Respondents reported whether they intended to stop drinking, to drink less than before Dry January, to drink as much as before, or to drink more. Responses were used to make a dichotomous variable that identified respondents who intended to stop drinking permanently (Plan to stop drinking).

One-month follow-up questionnaire. Respondents completed the three measures of DRSE, which were used to determine change in DRSE during Dry January. Changes in DRSE were calculated by subtracting scores at baseline from scores at 1-month follow-up: difference scores above zero represented an increase in DRSE, difference scores of zero represented no change, and difference scores below zero represented a decrease in DRSE.

Six-month follow-up questionnaire. In response to the question “How many days after registering for Dry January did you have your first alcohol-containing drink?,” participants indicated the number of days from the start of Dry January until they first consumed alcohol (in days, weeks, and/or months). Their responses were used to create a dichotomous variable that indicated whether they had successfully completed Dry January (Completed Dry January). They also completed the measures of alcohol consumption presented in the baseline questionnaire. Changes in alcohol consumption and DRSE were calculated by subtracting scores at baseline from scores at the 6-month follow-up questionnaire: difference scores above zero represented an increase in intake, difference scores of zero represented no change, and difference scores below zero represented a decrease in intake.

Analytic Plan

Unless stated otherwise, all analyses were conducted using the Statistical Package for the Social Sciences (SPSS) version 21.0 (IBM Corp., 2012). Preliminary analyses revealed that compared with people who did not complete the 6-month follow-up, those who did: were older, were more likely to have completed a dry month in the past, drank fewer drinks per drinking day, reported less frequent drunkenness, had lower AUDIT scores, and had greater social DRSE (details available from the first author). Propensity scores (Austin, 2011; Rosenbaum & Rubin, 1983) were calculated to indicate the probability of completing the 6-month follow-up conditional on the variables listed in Table 1. All analyses were conducted using survey weights calculated as the inverse of the propensity scores. Weighting on the basis of propensity scores was preferred to imputation of missing data given that
most of the baseline sample were lost to follow-up and because data were not missing at random.

The first hypothesis was tested by conducting analyses to identify variables measured at baseline that were bivariate correlates of successful completion of Dry January: \( t \) tests for continuous independent variables, \( \chi^2 \) tests for dichotomous variables. Those variables were then entered into linear regression to identify significant multivariate correlates of successful completion of Dry January.

Hypothesis 2 was tested in two steps. First, repeated measures \( t \) tests were conducted to assess within-subjects changes in DRSE between baseline and 1-month follow-up, and within-subjects changes in alcohol intake between baseline and 6-month follow-up. Structural equation modeling (SEM) was then conducted to test whether participation in Dry January was related to changes in DRSE at 1-month follow-up that affected alcohol intake at 6-month follow-up. The SEM was conducted in order to simultaneously assess whether completion of Dry January had direct effects on subsequent alcohol use, and/or indirect effects mediated by changes in DRSE arising as a result of taking part in Dry January. The SEM was conducted using Mplus Version 7.3 (Muthén & Muthén, 2012). The distributions of “Drunk episodes last month” at both baseline and at 6-month follow-up were not symmetrical, with a modal frequency of zero at both time points. These two variables were treated as count variables with negative binomial distributions, and the model estimated robust standard errors.

The third hypothesis was assessed by comparing people who competed Dry January and those who did not in terms of the proportions of respondents who reported decreases, no change, or increases in the three alcohol intake variables between baseline and 6-month follow-up. Because weighted data were used, the Rao-Scott \( \chi^2 \) was employed with between-cell differences identified by examining standardized residuals.

**Results**

**Correlates of Successful Completion of Dry January**

Overall, 64.1% of respondents successfully completed Dry January, with similar proportions of men and women reporting success (see Table 1). Compared with other participants, those who successfully completed Dry January consumed fewer drinks per typical drinking day, had a lower frequency of drunkenness, and had lower AUDIT scores at baseline. They also had significantly greater social and emotional DRSE at baseline. Logistic regression was conducted using forward selection of variables correlated with success at \( p < .10 \). This was replicated using backward deletion of variables. This process identified one significant independent predictor of likelihood of success, which correctly classified 65% of participants as successful or not successful, \( \hat{\chi}^2 = 18.10, p < .01 \). Success was significantly predicted by a lower frequency of drunkenness at baseline (OR = 0.93; 95% CI = [0.90, 0.96]).

**Participation in Dry January and Subsequent Behavior**

Within-subjects tests revealed that participation in Dry January was related to significant increases in DRSE-social (\( t(855) = 10.11, \)}
Temporary Abstinence from Alcohol

"Rebound Effects" Among People Who Did Not Successfully Complete Dry January

The data in Table 3 show that a minority of participants experienced "rebound effects." Completion of Dry January was not significantly related to the likelihood of rebound effects for drinking days per week or drinks per drinking day, but it was related to frequency of drunkenness. Examination of standardized residuals revealed that compared with participants who were successful in completing Dry January, those who were not successful were significantly less likely to report no change, and significantly more likely to report an increase in frequency of drunkenness at 6-month follow-up. When considering these significant differences, it should be noted that among the whole sample, only 11% had an increased frequency of drunkenness at 6-month follow-up.

Discussion

The study reported here was the first large-scale follow-up study of voluntary abstinence from alcohol. The findings identified key correlates of successful completion of a month of voluntary abstinence from alcohol as part of Alcohol Concern’s Dry January campaign, and described the consequences of a successful or unsuccessful attempt. A key finding was that even a failed attempt at Dry January led to many of the positive changes in behavior and DRSE observed in people who successfully completed Dry January.

There was partial support for the first hypothesis. Successfully completing Dry January was predicted by more moderate alcohol consumption at baseline, and greater social DRSE at baseline. However, the predicted links between success and previous completion of a month of abstinence and doing Dry January with a companion were not found. The only significant independent multivariate predictor of success was a lower frequency of drunkenness at baseline. As expected, in bivariate analysis, success was

Table 2
Within-Subjects Analyses of Changes in DRSE and Alcohol Use Following Participation in Dry January

<table>
<thead>
<tr>
<th>Dependent variable</th>
<th>Baseline</th>
<th>Follow-up</th>
<th>Difference</th>
<th>Effect size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed Dry January (n = 549)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One-month follow-up</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DRSE-social</td>
<td>3.61 (1.75)</td>
<td>4.30 (1.78)</td>
<td>(t_{(548)} = 9.71, p &lt; .01)</td>
<td>(d = .39)</td>
</tr>
<tr>
<td>DRSE-emotional</td>
<td>4.35 (1.82)</td>
<td>4.88 (1.77)</td>
<td>(t_{(548)} = 7.37, p &lt; .01)</td>
<td>(d = .30)</td>
</tr>
<tr>
<td>DRSE-opportunistic</td>
<td>5.73 (1.39)</td>
<td>6.03 (1.27)</td>
<td>(t_{(548)} = 5.50, p &lt; .01)</td>
<td>(d = .23)</td>
</tr>
<tr>
<td>Six-month follow-up</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drinking days per week</td>
<td>4.78 (2.03)</td>
<td>3.73 (1.90)</td>
<td>(t_{(548)} = 15.87, p &lt; .01)</td>
<td>(d = .53)</td>
</tr>
<tr>
<td>Drinks per drinking day</td>
<td>3.78 (2.20)</td>
<td>3.11 (3.07)</td>
<td>(t_{(548)} = 4.82, p &lt; .01)</td>
<td>(d = .25)</td>
</tr>
<tr>
<td>Drunk episodes last month</td>
<td>2.55 (3.65)</td>
<td>1.21 (2.93)</td>
<td>(t_{(548)} = 9.34, p &lt; .01)</td>
<td>(d = .40)</td>
</tr>
<tr>
<td>Did not complete Dry January (n = 308)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One-month follow-up</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DRSE-social</td>
<td>3.23 (1.62)</td>
<td>3.41 (1.72)</td>
<td>(t_{(307)} = 2.24, p = .03)</td>
<td>(d = .11)</td>
</tr>
<tr>
<td>DRSE-emotional</td>
<td>4.05 (1.89)</td>
<td>4.47 (1.84)</td>
<td>(t_{(307)} = 5.26, p &lt; .01)</td>
<td>(d = .23)</td>
</tr>
<tr>
<td>DRSE-opportunistic</td>
<td>5.63 (1.38)</td>
<td>5.73 (1.35)</td>
<td>(t_{(307)} = 1.27, p = .21)</td>
<td>(d = .07)</td>
</tr>
<tr>
<td>Six-month follow-up</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drinking days per week</td>
<td>4.96 (1.93)</td>
<td>4.10 (1.86)</td>
<td>(t_{(307)} = 10.66, p &lt; .01)</td>
<td>(d = .45)</td>
</tr>
<tr>
<td>Drinks per drinking day</td>
<td>4.21 (2.59)</td>
<td>3.70 (3.01)</td>
<td>(t_{(307)} = 3.19, p &lt; .01)</td>
<td>(d = .18)</td>
</tr>
<tr>
<td>Drunk episodes last month</td>
<td>3.84 (4.92)</td>
<td>2.15 (3.59)</td>
<td>(t_{(307)} = 7.53, p &lt; .01)</td>
<td>(d = .39)</td>
</tr>
</tbody>
</table>
also predicted by other measures of more moderate alcohol consumption at baseline (Norman, 2011; Norman & Conner, 2006; Norman et al., 2012; Zammit et al., 2008). As hypothesized, greater baseline DRSE predicted success in Dry January (Atwell et al., 2011; de Visser et al., 2014; Gilles et al., 2006; Oei & Jardim, 2007). However, this effect was only found for social DRSE, a finding that is perhaps not surprising given the important role of alcohol for social life in the United Kingdom (Babor, 2010; de Visser et al., 2013; Szmigin et al., 2011). The observed significant differences generally reflected small effect sizes. Contrary to expectations, social support in the form of a companion or “buddy” was not a significant predictor of success (Bauld et al., 2010; Olander et al., 2013). Nor was fundraising during Dry January, a finding that may perhaps be explained by the fact that all Dry January participants had already made a public commitment to behavior change by registering on the Dry January web site (Cialdini, 2009; Festinger, 1957).

Figure 1. SEM of change in DRSE at 1-month follow-up and change in alcohol intake at 6-month follow-up. Only significant paths are shown: solid lines indicate paths significant at \( p < .01 \), dotted lines indicate paths significant at \( p < .05 \).

Table 3

<table>
<thead>
<tr>
<th>Measure of drinking behavior</th>
<th>Completed Dry January?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No (( n = 308 ))</td>
</tr>
<tr>
<td>Drinking days per week</td>
<td></td>
</tr>
<tr>
<td>Decrease</td>
<td>56.2%</td>
</tr>
<tr>
<td>No change</td>
<td>31.5%</td>
</tr>
<tr>
<td>Increase</td>
<td>12.3%</td>
</tr>
<tr>
<td>Drinks per drinking day</td>
<td></td>
</tr>
<tr>
<td>Decrease</td>
<td>45.5%</td>
</tr>
<tr>
<td>No change</td>
<td>37.3%</td>
</tr>
<tr>
<td>Increase</td>
<td>17.2%</td>
</tr>
<tr>
<td>Drunk episodes last month</td>
<td></td>
</tr>
<tr>
<td>Decrease</td>
<td>55.0%</td>
</tr>
<tr>
<td>No change</td>
<td>30.4%</td>
</tr>
<tr>
<td>Increase</td>
<td>14.6%</td>
</tr>
</tbody>
</table>

Note. Rao-Scott \( \chi^2 \) for weighted data.
There was partial support for the second hypothesis: successful completion of Dry January was associated with increases in DRSE at 1-month follow-up and reductions in alcohol intake at 6-month follow-up. The SEM suggested that successful completion of Dry January was related to increases in DRSE, and that increases in DRSE were related to lower alcohol consumption at 6-month follow-up. For people who successfully completed Dry January, there were significant reductions in all three measures of alcohol intake, and in all three DRSE domains. Among those who were unsuccessful, there were significant reductions in all three measures of alcohol intake, and in emotional DRSE. The SEM revealed significant direct paths from completion of Dry January to lower scores on all three measures of alcohol consumption at 6-month follow-up. This indicates that although alcohol consumption was reduced among all participants in Dry January, the reduction was greater among those who successfully completed the abstinence challenge. However, the Sobel tests of indirect paths from completion of Dry January to alcohol consumption via DRSE revealed that none were significant. For both successful and unsuccessful people, the observed significant differences generally reflected small-medium effect sizes. It therefore appears that successful completion of 1 month of abstinence may have lasting effects on drinking behavior and beliefs, and that increases in DRSE arising from abstinence attempts may be an important influence on subsequent patterns of alcohol use (Atwell et al., 2011; de Visser et al., 2014; Gilles et al., 2006; Oei & Jardim, 2007; Young et al., 1991). However, it is also important to note that even a failed attempt at Dry January led to many of the positive changes observed in people who successfully complete Dry January.

The third hypothesis was supported: very few Dry January participants experienced “rebound effects” (Bray et al., 2010; Burish et al., 1981; Carey et al., 1988), and the proportions reporting increases in alcohol consumption were small: most participants reported decreases in all measures of alcohol consumption. Respondents whose attempt at Dry January was unsuccessful were more likely to report an increase in their frequency of drunkenness: The observed significant difference reflected a small-medium effect size. Whether in the context of temporary drunkenness: The observed significant difference reflected a small-medium effect size. Whether in the context of temporary drunkenness, there were significant reductions in all three measures of alcohol intake, and in emotional DRSE. The SEM revealed significant direct paths from completion of Dry January to lower scores on all three measures of alcohol consumption at 6-month follow-up. This indicates that although alcohol consumption was reduced among all participants in Dry January, the reduction was greater among those who successfully completed the abstinence challenge. However, the Sobel tests of indirect paths from completion of Dry January to alcohol consumption via DRSE revealed that none were significant. For both successful and unsuccessful people, the observed significant differences generally reflected small-medium effect sizes. It therefore appears that successful completion of 1 month of abstinence may have lasting effects on drinking behavior and beliefs, and that increases in DRSE arising from abstinence attempts may be an important influence on subsequent patterns of alcohol use (Atwell et al., 2011; de Visser et al., 2014; Gilles et al., 2006; Oei & Jardim, 2007; Young et al., 1991). However, it is also important to note that even a failed attempt at Dry January led to many of the positive changes observed in people who successfully complete Dry January.

Although this study has provided some valuable insights into correlates and consequences of completion of a month of abstinence from alcohol, it does have some limitations. The first is that people register for Dry January voluntarily, resulting in a self-selected sample that may not be representative of the general population. Indeed, the baseline sample contained a self-selected sample that may not be representative of the general population. However, the Sobel tests of indirect paths from completion of Dry January to alcohol consumption via DRSE revealed that none were significant. For both successful and unsuccessful people, the observed significant differences generally reflected small-medium effect sizes. It therefore appears that successful completion of 1 month of abstinence may have lasting effects on drinking behavior and beliefs, and that increases in DRSE arising from abstinence attempts may be an important influence on subsequent patterns of alcohol use (Atwell et al., 2011; de Visser et al., 2014; Gilles et al., 2006; Oei & Jardim, 2007; Young et al., 1991). However, it is also important to note that even a failed attempt at Dry January led to many of the positive changes observed in people who successfully complete Dry January.

This study of participants in the Dry January alcohol abstinence challenge revealed that successful completion of Dry January was best predicted by more moderate drinking at baseline. Participation in Dry January was related to reductions in alcohol consumption and increases in DRSE among all respondents, regardless of success, but these changes were larger among people who successfully completed the challenge. Rebound effects were uncommon, but were more likely among those who did not complete Dry January. Taken together, these findings suggest that abstinence challenges such as Dry January can lead to changes toward healthier drinking and health-enhancing beliefs about alcohol, and are unlikely to result in undesirable rebound effects.

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