Prevalence of Hazardous Drinking Among UK 18–35 Year Olds; the Impact of a Revision to the AUDIT Cut Score

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Received 2 September 2015; Revised 8 September 2015; Accepted 16 September 2015

Abstract

Aim: Most published research utilizes an AUDIT score of >8 as the threshold for hazardous drinking. Recent research suggests that this limit should be amended for younger drinkers (aged 18–35 years). This study aimed to explore the effect of a revision to AUDIT cut scores.


Results: This more than doubles the prevalence of female hazardous drinkers, and significantly increases the overall rate for that age group when compared with the standard threshold of >8.

Conclusion: The prevalence of hazardous drinking among females ages 18–30 may be significantly higher than current estimates.

Scores of eight or more on the Alcohol Use Disorders Identification Test (AUDIT) have long been used as the cut off point for hazardous drinking. The reliability and validity of the AUDIT has been established in research conducted in a variety of settings and countries (Babor et al., 2001). However in recent years the issue of whether thresholds for safe levels of alcohol consumption and also alcohol use disorders should be the same for everyone has been raised.

For example, a 2011 report by the Royal College of Psychiatrists suggested lower recommended ‘safe’ levels of drinking for older people of 1.5 UK units per day or 11 units per week (currently 4/3 units for men and women per day, and 21/14 per week), with ‘binge drinking’ (currently 8/6 units for adults) defined as >4.5 units in a single session for men and >3 units for women (The Royal College of Psychiatrists, 2011). A subsequent study by Knott and colleagues suggested that, under these guidelines, the number of individuals in England aged 65+ and drinking in excess of daily recommended limits would increase 2.5-fold to over 3 million (using 2008 data) (Knott et al., 2013).

Foxcroft et al. (2015) explored the optimal cut off point for the AUDIT among 18–35 year olds. Revised thresholds for identification of hazardous drinking using AUDIT were scores of nine and four for men and women (for optimal Sensitivity and Specificity). This study is not the first to investigate optimal cut points for the AUDIT [see for example (Conigrave et al., 1995)], however it was the first to suggest age-specific cut points. The most recent large scale population survey that allowed participants to complete the full AUDIT was the 2007 Adult Psychiatric Morbidity Survey (APMS; Fuller et al., 2009). We re-coded the raw data for 18–35 year olds from the APMS 2007 available from the UK Data Archive (National Centre for Social Research and University of Leicester, 2011) (N = 1598) using the revised thresholds suggested by Foxcroft et al.

Overall, the proportion of hazardous drinkers (originally reported as those who scored 8+ on the AUDIT) increased significantly when the revised formulae were utilized (Table 1) While the number of males identified as hazardous drinkers remained relatively unchanged, the number of female hazardous drinkers more than doubled.

This simple re-scoring exercise demonstrates the implications of changes in the AUDIT cut points; changing the threshold suggests that the proportion of hazardous drinkers in the 18–35 age range
may have been significantly underestimated in previous research, and
that many female potential participants in intervention studies may
have been missed. The Screening and Intervention Programme for
Sensible drinking (SIPS) research programme (Kaner et al., 2013;
Drummond et al., 2014; Newbury-Birch et al., 2014) used AUDIT sta-
tus as its primary outcome measure; and also used AUDIT to assess
eligibility for the trial (only participants who scored 8+ were rando-
mized to receive an intervention), when perhaps there may have
been benefits of screening and brief intervention among female
young adults drinking at lower levels too. Foxcroft et al. acknowledge
the limitations of using simple thresholds in screening and diagnostic
tests such as the AUDIT. As their use continues, it is worthwhile ex-
ploring whether such thresholds should apply uniformly or be specific
to certain age-sex groups.

It is of particular concern that a large number of female hazardous
drinkers may have been missed by screening tests utilizing the standard
cut off score. This has important implications within primary care
where many patients receive a routine assessment of their drinking
based on an AUDIT score of 8+, as well as for the development of
intervention materials. Further research on alcohol screening and brief interventions that focus upon female drinkers seems warranted.

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### Table 1. Comparison of AUDIT thresholds for male and female aged
18–35 years in the 2007 APMS (N= 1598)

<table>
<thead>
<tr>
<th></th>
<th>Males (9+) and females (4+)</th>
<th>Difference</th>
</tr>
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<tbody>
<tr>
<td>Male</td>
<td>46.0</td>
<td>39.6</td>
</tr>
<tr>
<td>Female</td>
<td>21.4</td>
<td>55.8</td>
</tr>
<tr>
<td>Overall</td>
<td>31.5</td>
<td>49.1</td>
</tr>
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</table>

*aStatistical significance at 99% CI.