

Normative misperceptions about alcohol use in the general population of drinkers

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Introduction

- Normative misperception about alcohol use refers to the **underestimation of one's own alcohol consumption** relative to other people
- Removing this misperception has been found to **reduce subsequent alcohol use** in a number of studies₁₋₅
- Research has been limited to college and university students or heavy drinkers_{1-3,5} and has not looked at what factors may underlie them

Research questions

- 1) What is the **prevalence of normative misperceptions** about alcohol use in the general population of alcohol users from the UK, US, Australia and Canada?
- 2) To what extent are **normative misperceptions** about alcohol use **associated** with a range of **socio-demographic** and **drinking variables**?

Method

- Cross-sectional **online survey**
 - Conducted globally
 - Drawing on data from **UK, US, Australia & Canada**
- Participants
 - n= **9,820**
 - Aged 18+
 - Consumed alcohol in last year
- Measures
 - 10-item **AUDIT** questionnaire
 - Assessed alcohol consumption, harmful drinking & alcohol dependence
 - Socio-demographic assessment
 - Question **assessing beliefs about how one's drinking compares with others**
- Associations were analysed by linear regression models



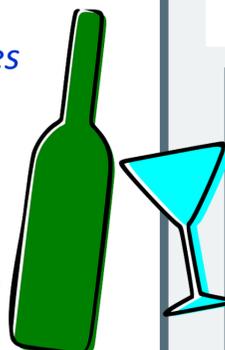
Results

High prevalence of normative misperceptions in the general population of drinkers

- Mean normative misperception score = 0.2 (SD=1.85)
- Significantly greater than 0 ($t_{(9819)}=10.443, p<0.001$)
- **Nearly half** (46.9%) of drinkers underestimated the proportion of other people who consume less alcohol than them

A number of socio-demographic and drinking variables associated with a larger normative misperception:

- Younger (16-24): $p<0.003$
- Male: $p<0.001$
- From the UK (vs the US): $p<0.001$
- Without (vs with) post-16 qualifications: $p=0.003$
- White: $p=0.035$
- Unemployed (vs employed): $p<0.001$
- At higher levels of alcohol-related risk: $p<0.001$



Conclusions

- Substantial **minority of harmful drinkers** believe their alcohol consumption to be **at or below average**
- **Underestimation** of one's own alcohol consumption relative to others is **common in the general population of drinkers**
- This normative misperception is **greater** in those who are **younger, male, less well educated, unemployed, white, from the UK, and high-risk drinkers**
- **Future research:**
 - Examine whether there is more impact for interventions targeted at individuals with the socio-demographic and drinking variables associated with normative misperceptions
 - Targeted interventions could potentially enhance the effectiveness of population wide health strategies to reduce alcohol consumption and misuse



		Mean normative misperception score (SD)	Adjusted multiple regression B (95% CI)	p
Country of origin	UK*	0.4 (1.78)		
	Australia	0.2 (1.95)	0.03 (-0.16, 0.22)	0.779
	Canada	0.1 (1.92)	-0.02 (-0.16, 0.11)	0.753
	US	-0.3 (1.90)	-0.29 (-0.37, -0.21)	<0.001
AUDIT risk zone (score)	1 (0-7)*	-0.8 (1.60)		
	2 (8-15)	0.5 (1.73)	1.29 (1.21, 1.36)	<0.001
	3 (16-19)	1.1 (1.74)	1.90 (1.77, 2.02)	<0.001
	4 (20-40)	1.4 (1.69)	2.00 (1.85, 2.16)	<0.001
Age	16-24*	0.5 (1.88)		
	25-34	0.0 (1.80)	-0.28 (-0.36, -0.20)	<0.001
	35-44	0.0 (1.79)	-0.22 (-0.34, -0.11)	<0.001
	45-54	-0.2 (1.77)	-0.26 (-0.43, -0.09)	0.003
	55+	-0.6 (1.71)	-0.47 (-0.73, -0.21)	<0.001
Gender	Male	0.3 (1.84)	0.34 (0.27, 0.41)	<0.001
	Female	-0.1 (1.84)		
Qualification level	Pre-16	0.6 (1.91)	-0.25 (-0.41, -0.08)	0.003
	Post-16	0.2 (1.85)		
Employment status	Unemployed*	0.4 (1.91)		
	Student	0.3 (1.87)	-0.09 (-0.18, 0.00)	0.056
	Employed	0.1 (1.80)	-0.20 (-0.29, -0.11)	<0.001
Ethnicity	White	0.2 (1.85)	-0.13 (-0.25, -0.01)	0.035
	Non-white	-0.1 (1.82)		

References

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