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Mood and Urgency Effects on Alcohol Expectancies

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Introduction

• Current mood facilitates the activation of mood congruent memory (Mood-congruent Memory Theory; Hufford, 2001).
• Therefore, specific mood states should influence the activation of specific expectancies in memory.
• Alcohol expectancies are anticipated outcomes from alcohol use stored in memory (Goldman et al., 2006).
• Prior studies of mood and alcohol expectancies have shown that individuals self-generate more:
  • positive reinforcement alcohol expectancies after a positive mood induction
  • negative reinforcement expectancies after a negative mood induction (Birch et al., 2004; McKee, Wall, Hinson, Goldstein, & Bissonnette, 2003).
• We tested whether individual differences in the personality trait urgency affects the activation of alcohol expectancies following mood induction.
• Urgency is a sub-component of impulsivity that:
  • is closely tied to mood reactivity
  • has both positive and negative components
  • is associated with drinking behavior (Cyders et al., 2007).

Method

Participants

• 324 participants signed up for the study; 313 (97%) completed both parts.
• Participants were 18 to 23 years old (mean age = 18.6; 62% women; 87.3% Caucasian) recruited from introductory psychology courses at the University of Missouri.
• 79.3% of our sample had at least one alcoholic drink in the past month.

Measures

• Questionnaire measures included:
  • Demographics
  • UPPS Impulsive Behavior Scale—Revised (UPPS-R; Whiteside & Lynam, 2001)
  • The Positive Urgency Measure (PUM; Cyders et al., 2007)
  • Alcohol Expectancies Questionnaire (AEQ; Brown, Goldman, Inn, & Anderson, 1988)
  • The Drinking Styles Questionnaire (Smith, McCarthy, & Goldman, 1995)

• Visual Analogue Scales (VAS)

• Participants rate their current mood state on four positive affect (cheerful, happy, glad, and pleased) and three negative affect (sad, depressed, and blue) scales by drawing a vertical line through a 100mm continuum.
• Example: How cheerful are you right now?
Not at all-----------------------------------------------Very

Procedure

• Participants were randomly assigned to a mood manipulation task (positive, negative, or neutral) in which they rated IAPS slides (Greenwald, Cook, & Lang, 1989) and listened to mood-congruent music. Examples:

  Positive Slide  Neutral Slide  Negative Slide

• Immediately following, participants self-generated alcohol expectancies by responding to the stem, “Alcohol makes me__________________.”
• All questionnaire measures were completed online.

Results

Manipulation Check

• VAS scale positive and negative mood ratings were significantly different between positive, neutral, and negative mood conditions (p's < .05).

Main Effects

• Counts of self-generated positive reinforcement, negative reinforcement, and negative consequences alcohol expectancies were not significantly different across mood conditions.
• Main effects of positive and negative urgency on expectancy counts were non-significant as well.

Interactions

• ANOVAs revealed a significant interaction between mood condition and positive urgency on positive reinforcement alcohol expectancies, F(2, 236) = 4.51, p = .012.
• Interaction of mood condition and positive urgency on negative consequences expectancy activation was also significant, F(2, 236) = 3.26, p = .012.
• Probing these interactions revealed that positive urgency is significantly negatively related to activation of positive reinforcement expectancies when participants are in a negative mood (r = -.36; Figure 1) and significantly positively related to negative consequences when participants are in a negative mood (r = .25; Figure 2).
• Mood condition did not interact with positive urgency to influence negative reinforcement expectancy activation, showing specificity of the effect.
• Interactions between negative urgency and mood condition were non-significant for all three expectancy types.

Discussion

• As hypothesized, differences in mood affected the relationship between the personality characteristic positive urgency and activation of specific mood-related alcohol expectancies in memory.
• Unlike prior studies (Birch et al., 2004; McKee et al., 2003; Simons et al., 2005), no main effects of mood on expectancy activation were observed.
• This study is a first step toward demonstrating expectancy activation as a mechanism by which personality traits and mood influence alcohol use decisions.
• Future research is needed to test whether the differential activation of expectancies found in this study would lead to actual differences in drinking behavior.

Supported by NIAAA Grant T32 AA 13326; PI Ken Sher.