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Mood and Urgency Effects on Alcohol Expectancies

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- 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 selfgenerate 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, 1980)
- 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



• 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 nonsignificant 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 < .05.
- 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.

Figure 1. Positive Reinforcement Expectancies by Positive Urgency and M.

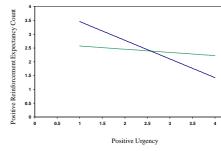
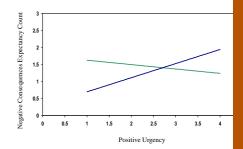


Figure 2. Negative Consequences by Positive Urgency and Mood C



Discussion

- As hypothesized, differences in mood affected the relationship bet personality characteristic positive urgency and activation of specific alcohol expectancies in memory.
- Unlike prior studies (Birch et al., 2004; McKee et al., 2003; Simon main effects of mood on expectancy activation were observed.
- This study is a first step toward demonstrating expectancy activati mechanism by which personality traits and mood influence alcohol
- Future research is needed to test whether the differential activation expectancies found in this study would lead to actual differences in behavior.

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