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INTRODUCTION

• The Reward Positivity (RewP) is a component of the event related brain potential (ERP) that is sensitive to reward receipt.

• The RewP can be augmented with affective imagery manipulations, suggesting an additional sensitivity to affective valuation (“liking”).

• This study examines Reward Positivity into alcohol cue rewards individuals with alcohol use disorder (AUD).

METHODS & MATERIALS

Participants

• Community Participants, 18-55 years old
• Expected N=60; For this analysis,
  • N_{AUD}=26 (Female= 15, Mean age= 39)
  • N_{CTL}= 20 (Female= 14, Mean age= 33)

Materials & Procedures

• Phase I: Clinical SCID and AUDIT assessments for AUD group
• Phase II: In-lab pen and paper administration of self-report questionnaires of demographics, BIS/BAS, AUDIT, BDI
• EEG assessment during the Reinforcement Learning (RL) Affective State Task
• Probabilities of reward were orthogonal to the affective cue type.

RESULTS

• AUD group appears to have a larger RewP, although it does not seem to be modulated by alcohol conditions.
• The behavioral data shows that affective images of alcohol was rated more pleasant by the AUD group
• A delta burst was observed for RewP for the AUD group and not for the Control group.

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