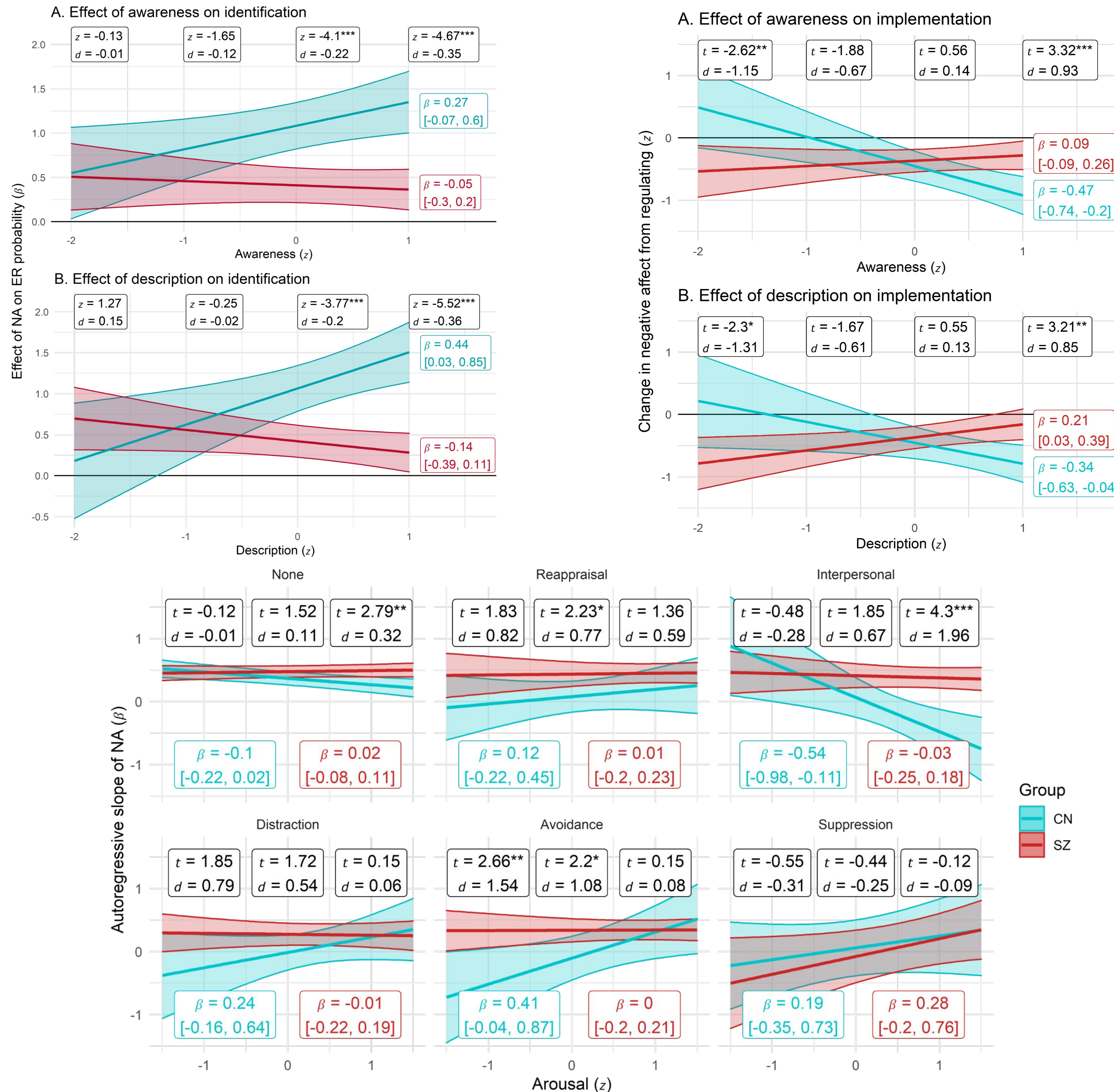


# Deconstructing Emotion Regulation In Schizophrenia: Evaluation Of Moderators Across Identification, Selection, And Implementation Stages

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## Context moderates emotion regulation in CN but not SZ



### Introduction

- People with schizophrenia-spectrum disorders (SZ) regulate emotions more often, at lower levels of negative affect (NA), using different strategies, and are less effective compared to controls (CN)
- It is important to identify moderators of these difficulties (e.g., difficulties with emotional awareness and description) in order to develop personalized emotion regulation treatments
- The present study aimed to evaluate how arousal, awareness, and description moderate the emotion regulation stages of identification and implementation
- **Hypotheses:**
  - NA would more strongly influence identification as moderators increase in CN but not SZ
  - Effectiveness would decrease with greater arousal in SZ
  - Effectiveness would increase with greater awareness and description in CN

### Methods

- 52 SZ and 55 CN completed ecological momentary assessment with 8 surveys per day over 6 days
- Groups did not significantly differ on age, gender, race, or parental education ( $ps > .1$ )
  - There was a trend of lower adherence among SZ ( $F = 3.52, p = .06$ )
  - Personal education was greater among CN than SZ ( $F = 19.33, p < .001$ )
- Surveys assessed emotional experience, emotion regulation, arousal, awareness, and description
- Mixed-effects models were used to evaluate moderation effects of interest

### Results

- No significant group differences in arousal ( $t = 1.33, p = .186$ ), awareness ( $t = -0.2, p = .843$ ), or description ( $t = -1.81, p = .073$ )
- Significant moderation of identification by awareness and description in CN but not SZ
- Significant moderation of implementation by awareness and description in CN but not SZ
- Arousal showed a significant interaction with strategy choice on the stability of negative emotion ( $\chi^2 = 15.74, p = .008$ )

Table 1. Summary of moderation effects

Moderator (Mod)	Mod	Identification ( $\chi^2$ )		Implementation ( $F$ )				
		Group X Mod	NA X Mod	Group X Mod	ER X Mod			
Arousal	2.34	0.82	0.07	0.8	1.69	2.57	0.05	0.05
Awareness	2.55	0.07	5.43*	5.26*	0.87	0.0	12.78***	10.81**
Description	6.75**	0.5	8.51**	11.47***	0.49	0.0	5.26*	8.8**

### Conclusion

- Emotion regulation did not vary by context in SZ in the same ways as CN
- **SZ show similar awareness of contextual factors but do not incorporate them as CN**
- Possible reasons:
  - Cognitive impairments make contextual integration more difficult
  - Negative symptoms including lack of motivation to engage in cognitive effort
  - May be capable and motivated but not know how to integrate context
  - Stressors may be experienced as less responsive to context, leading to less flexibility
- Infrequent regulation endorsement may limit power for some analyses
- Participants were chronic phase outpatients with mild to moderate symptoms
- Treatments which target emotion regulation in SZ may emphasize how to adjust emotion regulation based on context

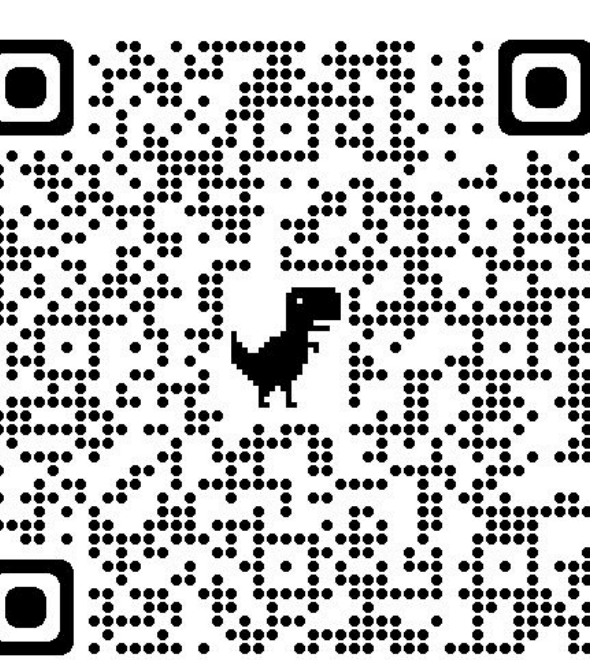


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