Anxiety before and after: Comparing changes in state anxiety during a speech task in people with low and high levels of social anxiety

Midhula Kalpak, Nancy Bahl, Allison J. Ouimet
School of Psychology, University of Ottawa, Ottawa, Canada

Abstract
Social anxiety disorder (SAD) is the fear of social situations in which the individual may be scrutinized (APA, 2013). Research findings suggest that people with SAD report higher levels of anxious distress at any given stage of a public speaking task (e.g., anticipation of speech, post speech) relative to those without SAD (Cornwell et al., 2011). It is unknown, however, whether social anxiety severity (i.e., high versus low symptoms) impacts the degree to which people’s anxiety during a speech task changes across two stages: anticipatory (before the speech task) and peak anxiety during the speech. Therefore, this study examined interactive effects between social anxiety severity and stage of speech task on state anxiety during an impromptu speech. People were assigned into low (n = 11) and high (n = 21) social anxiety groups based on their scores on the Liebowitz Social Anxiety Scale (Liebowitz, 1987). Participants completed the Subjective Units of Distress Scale (SUDS, Wolpe, 1969) immediately before the speech and retroactively after the task to determine levels of anticipatory anxiety and peak anxiety. We found that there is no interaction between level of social anxiety and time. Participants from both groups reported greater peak anxiety than anticipatory anxiety. The high anxiety group also reported higher anxiety at both stages than participants in low anxiety group.

Methodology
Participants
• 32 undergraduate students (81.8% female, M_age = 19 years, SD = 1.76 years, 21 HSA and 11 LSA)

Measures
• Liebowitz Social Anxiety Scale (LSAS; Liebowitz, 1987)
• Subjective Units of Distress Scale (SUDS, Wolpe, 1969)

Procedure
• Participants completed LSAS online.
- Score < 30 = Low Social Anxiety
- Score > 60 = High Social Anxiety

Analysis
• Mixed Model ANOVA
  - Between participants IV: High vs. Low Social Anxiety
  - Within participants IV: Time of SUDS completion
  - Dependent variable: SUDS score

Results
• There were no significant interactive effects between the level of social anxiety and time of SUDS (F(1, 30) = 0.01, p>0.05).
  • Participants in both groups rated their anticipatory anxiety as significantly lower than their peak anxiety (F(1, 30) = 4.27, p<0.05).
  • Participants with high social anxiety reported greater anticipatory and peak anxiety compared to participants with low social anxiety (F(1, 30) = 9.201, p<0.05).

Discussion
• It appears that most people report anxiety related to giving a speech.
• People with clinical levels of anxiety experience increases in anxiety from pre to peak at a rate similar to people with low social anxiety.
• Most treatments concentrate on reducing negative thoughts and fear of negative evaluation expressed prior to performance.
• Since peak anxiety is higher than anticipatory anxiety, treatments should focus more on anxiety during performance.
• Our study did not have an equal number of participants in each group.
• Over 80% of the participants were female.
• Small sample size

Reference

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Contact information: mkalp049@uottawa.ca, (867) 333-3323