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Social influence and moment-to-moment changes in young adults' mood and psychotic symptoms

BACKGROUND

- Social situations can have a significant impact on young people's mood and mental experiences.
- More specifically, we want to know how someone's perceived social influence in social situations relates to their mood and psychotic symptoms.
- Past studies have found connections between lower perceived social status (rank, comparison, and related concepts) and psychotic symptoms^{1,2,3}, anxiety, depression⁴, and other mood related psychopathology^{5,6}.
- We use experience sampling methods to capture moment-to-moment changes in mood and psychotic symptoms in a variety of social settings.



We predicted:

- groups
- In young adults with psychoticspectrum disorders, more social

METHODS

Participants

To date, 21 individuals ages 15-25 completed the phone surveys at the time of this analysis. Two participants did not receive survey questions regarding social influence, so 19 young adults are included in analyses. 4 met criteria for clinical high-risk (CHR) for psychosis on the Structured Interview of Psychosis-Risk Syndromes⁷, 6 met criteria for a psychotic disorder (PSY) on the Structured Clinical Interview for DSM-5⁸, and 9 were non-psychotic comparisons (NC) with no current or past mental illness. (Table 1)

Methods

- Participants complete daily surveys via a mobile phone app 6 times per day for 3 weeks
- Young adults are asked about their mood, mental experiences, and present-moment social contexts.
- Assessing social context: participants received questions about who they are with and how they feel about that social context
- Social influence: participants are asked to what degree they feel able to influence the people they are surrounded by in a given moment, as well as how much they feel able to be influenced by those people.
- We created a composite variable (social influence) by reverse scoring how much an individual felt able to be influenced, and averaging this with how much they felt *able* to influence others, assuming that these items would be inversely related.

CHR PSY NC (n=9) (n=4) (n=6) Age (m, SD) 19.6, 2.8 21.3, 1.5 19.33, 1.6 Average survey 82% 71% completion 80% rate (%) % of time spent 53% 35% 31% with others Gender % (n) Male 56 (5) 50 (2) 50 (3) 44 (4) 25 (1) Female 50 (3) 0 (0) 25 (1) Nonbinary 0 (0) Race % (n) 75 (3) 67 (6) 67 (4) White 25 (1) 0 (0) 17 (1) Black 0 (0)

33 (3)

0 (0)

Asian Interracial







Greater feelings of social influence will be associated with lower levels of negative affect in all diagnostic

influence will be associated with lower levels of psychotic symptoms

TABLE 1. Participant characteristics

0 (0)

0 (0)

17 (1)

Data Analysis

Due to the small sample size, we calculated Pearson's r in order to analyze the relationship between influence and symptoms.

Initial findings:

- \bullet influenced by others")
- lacksquare

Correlations by group (reflected in Figure 1): Non-psychotic Comparisons (NC)

 Weak positive correlations were found between both directions of influence and psychotic and mood symptoms, with the exception of *feeling able to influence others* and NA, which had no correlation.

Clinical High Risk (CHR)

- Negative correlations were found between both directions of influence and psychotic symptoms
- A weak positive correlation was found between *feeling able to influence others* and NA but no significant correlation between *feeling influenced by* others and NA.

Psychosis Group (PSY)

• Positive correlations were found between both directions of influence and psychotic and mood symptoms, with stronger correlations between *feeling influenced by others* and both types of symptoms.

CONCLUSIONS

- symptoms differs between groups (NC, CHR, and PSY)
- but not across groups.
- - social influences in either direction is associated with distress. being able to influence others).

We found weak negative correlations between composite social influence and negative affect (NA) (r = -0.22, p < 0.001) and psychotic symptoms (r = -.11, p = 0.003) in the full sample, which led us to consider breaking social influence down into its component parts ("feeling able to influence" and "feeling

"Feeling able to influence" and "feeling influenced by others" were positively correlated (r = .62, p < 0.001) – NOT inversely related No meaningful correlations were found between feeling able to influence or feeling influenced by others and psychotic and mood symptoms in the full sample, so we then broke out the correlations by group to learn how the relationships may differ between clinical and non-clinical populations



• These findings do not align with our hypotheses, but do suggest that the relationship between influence and

• It is notable that "feeling able to influence" and "feeling influenced by others" correlated with psychotic symptoms in the same direction, and correlated with negative affect in the same direction, within each group,

• Further exploring the relationship between influence and symptoms in young adults with psychotic disorders: • Higher levels of feeling influenced by others AND higher levels of feeling able to influence others were associated with increased symptoms (both negative affect and psychotic symptoms) in the PSY group, indicating that in the sample of individuals with psychotic disorders, regardless of whether a person feels like the influencer or influencee, experiencing

• However, there were stronger associations between feeling influenced by others and symptoms in the PSY group, which is more aligned with what we expected (that feeling influenced by others would be associated with more distress than

• Largest correlations were found in PSY group, demonstrating that social influence seems to be relevant to the wellbeing and mental health experiences of individuals with psychotic disorders. This could suggest an area for clinical intervention, and a potential topic to target in CBT therapies with this population.

• For a better understanding of the clinical implications of these results, it would be important to 1) see if the relationships hold in a larger sample and 2) tease apart whether the amplified relationship between influence and symptoms is more a product of the real vulnerability caused by the systematic marginalization of people with mental health disorders or more a product of the potential connectedness between interpersonal influence and potential delusion thought content (e.g. mind-control, thought insertion, etc.) that would be disproportionately present in the PSY group.



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