

Differential Item Functioning and Measurement Invariance of the PCL-5

1. Summary of all findings, including negative findings (required)

As a result of federal cuts to research grants, my protected research time has been significantly reduced, which has hindered progress on this specific project. As of my last renewal, I have not made any progress on completing the analyses but still intend to complete them. As a result, the following information is a similar description of what had been completed previously and reported on 2/4/25.

To date, my activities have focused on preparing for the analysis of PTSD screening measures from the SPIRIT trial within diverse patient populations using moderated nonlinear factor analysis (MNLFA). While I have not yet conducted full analyses on the data, I have taken several key preparatory steps to ensure a rigorous and well-informed approach.

These steps include:

- **Reviewing Descriptive Data:** *I have examined summary statistics and descriptive data from the parent clinical trial to understand the characteristics of the sample and inform the direction and hypotheses of my planned analyses.*
- **Manuscript Preparation:** *I have drafted an introduction for a manuscript detailing the study's aims, significance, and methodological approach.*
- **Data Analysis Plan:** *I have developed a comprehensive data analysis plan and drafted the R code outlining the application of MNLFA to identify potential disparities in PTSD screening across sociodemographic groups.*
- **Conference Submission:** *I presented the methodological approach that will be used at a conference as a proof-of-concept presentation.*
- **Preregistration of Analysis Plan:** *I am preparing a preregistration of my analysis plan to ensure transparency and methodological rigor before conducting the complete analyses.*

In the coming months, I will focus on the following activities:

- **Conducting MNLFA Analyses:** *Implementing the planned statistical models to assess differential item functioning, impact, and measurement invariance of PTSD symptoms across demographic variables.*
- **Interpreting Findings:** *Evaluating how PTSD symptom presentations differ based on sociodemographic backgrounds and determining implications for clinical screening practices.*
- **Manuscript Development:** *Expanding the initial draft with results and discussion of findings, with the goal of submission to a peer-reviewed journal.*

2. A listing of papers that use data that have been published or accepted for publication (since the PI received the data or since the PI sent his/her last annual report), with complete citations including the email address of the first author (optional)

- N/A

3. A listing of papers that use the data that have been presented at professional meetings or invited talks (since the PI received the data or since the PI sent his/her last annual report), including the conference/symposium name, date, location, and the email address of the first author [Please include the full text when possible for inclusion in the ICPSR Bibliography] (optional)

- **Haws, J.K.** (2024, June). A Longitudinal Moderated Nonlinear Factor Analysis of the

PTSD Checklist for DSM-5 Among Adults Presenting to FQHCs – A Proof of Concept
[Oral Presentation]. Academy Health Annual Research Meeting 2024, Baltimore,

4. *A listing of grants that the PI has received to use the data with the title of the grant, the name of the funding agency, amount of funding received, and dates of award (optional)*

- N/A

5. *A listing of graduate students who used these data for dissertations, with the title, date of completion, and the awarding institution (optional)*

- N/A