

Study Protocol and Statistical Analysis Plan

Title of Study: Sun Protection and Tanning Awareness in Rural Schools (STARS)

ClinicalTrial.gov Identifier: NCT06694571

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Study Protocol

Objective

The objective of this study is to pilot test a rural-adapted skin cancer prevention intervention, evaluating effectiveness and implementation outcomes. Drawing from prior school-based skin cancer prevention programs, we adapted intervention materials to target rural high schoolers. Program components (including in-class education as well as teacher and parent/guardian resources) are co-implemented by the research team and participating school staff. Surveys one month following the intervention evaluate its effectiveness.

Design & Methods

This study comprised a single-arm pilot intervention. Intervention visits occur in high school classrooms and last approximately 60 minutes, immediately following completion of a baseline survey. The intervention visit may be divided into 2 days, depending on the length of the class periods at the participating schools. During the intervention visit, students receive general education on skin cancer and skin cancer prevention, complete a skin cancer risk self-assessment tool, and create a sun protection action plan for an outdoor activity.

One month later, participants receive a brief (15-minute) post-intervention survey via email and/or text.

Statistical Analysis Plan

To evaluate changes over time, linear mixed effects models will be used. These models will control for key demographic variables (e.g., gender) as well as school. Separate models will be used to analyzed weekday and weekend sun protection index scores. Analyses will be conducted using SPSS statistical software.