

PA levels, perceived social support from peers and adults, and mental health, but no stakeholder-informed interventions exist. We describe parents' impressions of TGD adolescent children's PA experiences and advice for a PA intervention. **METHODS/STUDY POPULATION:** We conducted individual Zoom interviews with parents of 13- to 20-year-old TGD adolescents ($n = 15$). All parents were recruited from a gender healthcare clinic. All children self-identified as TGD, an umbrella term including people who have a gender identity different from social expectations for their assigned sex. We asked questions regarding children's current and historical participation in PA, parents' perceptions of barriers to PA for their TGD children, and parents' desired intervention components. After each interview, parent participants were compensated \$100 for their time. We analyzed interview transcripts, focusing on insights to incorporate in an intervention. This study was approved by the University's Institutional Review Board. **RESULTS/ANTICIPATED RESULTS:** Parents shared rich histories of their children's PA participation, compounding barriers to PA, numerous benefits of PA, and a range of preferences for program activities and inclusive practices (e.g., safety protocols, training for adult leaders). They also emphasized the need for TGD youth to build social connectedness through PA. **DISCUSSION/SIGNIFICANCE OF IMPACT:** We gathered concrete advice from parents on creating a PA intervention, which we will use to build a social PA program that meets TGD adolescents' needs. Addressing health disparities and improving PA, social support, and mental health among TGD adolescents will require such stakeholder input to improve upon existing PA and sports opportunities.

Assessing gender literacy: A novel methodology for evaluating eligibility criteria in clinical research

Jeremiah Lee and Terry Church
University of Southern California

OBJECTIVES/GOALS: The objective of this project is to develop a tool for evaluating clinical trial (CT) eligibility criteria for demonstrated "gender literacy," defined as the recognition that biologically assigned "sex" is distinct from personally defined "gender identity," as a way to quantify the inclusion of gender minority populations. **METHODS/STUDY POPULATION:** The study is validating an assessment scale that evaluates gender literacy based on CT eligibility criteria (EC). Two health professionals will serve as "coders," tasked with grading 15 CTs. EC for all CTs will be exported from clinicaltrials.gov. Once trained with using the scale, each coder will give a score for each trial. After this first scoring period, coders will share their scores and experiences using the scale. Coders will be tasked again with grading 15 new CTs. This second scoring period will yield final scores to calculate the inter-rater reliability (IRR), or the extent to which qualitative measurements are consistent and not due to random chance. IRR will be quantified by Cohen's kappa to validate the scale. **RESULTS/ANTICIPATED RESULTS:** Cohen's kappa is on a continuous interval from 0 to 1, where 0 means no agreement and 1 means perfect agreement. It is expected that the Cohen's kappa for

this assessment scale will exceed 0.80. Such validation is necessary to ensure the scale is robust and dynamic for multiple use-cases and consistent across any coder. By having a discussion after the initial scoring period, we can identify confusions or challenges with the scale early on and correct them before the secondary scoring period. In comparing these two coders' performance, it is expected that the second scores will be more similar, thus a kappa closer to 1. However, if the kappa is low, this may be because gender literacy is a learned skill, through the internalized recognition that gender is truly different from sex. **DISCUSSION/SIGNIFICANCE OF IMPACT:** Systemic barriers and exclusionary language have excluded gender minorities from CT spaces for too long. Tools such as these, paired with standardized language for sex and gender eligibility criteria, will greatly bolster the representation of this population and spark change for a more inclusive future.

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Key elements of Community Engagement Studios within diverse fields of health service research: A systematic scoping review

Ida Salusky, Josefina Serrato and Darius Tandon
Northwestern University

OBJECTIVES/GOALS: This scoping review examines common characteristics of Community Engagement Studios, defined as custom panels bringing together community partners with lived experience around a health issue to provide highly tailored feedback to a research team. The authors also identify health service fields that most commonly use community engagement studios. **METHODS/STUDY POPULATION:** This scoping review will follow procedures outlined in the Joanna Briggs Institute Manual for Evidence Synthesis. Inclusion criteria are limited to peer reviewed manuscripts published between 2010 and 2024. Key word searches for terms related to Community Engagement Studios will be conducted within Embase, MEDLINE, CINAHL, and Web of Science. Experimental, quasi-experimental, observational studies, process and conceptual manuscripts published in English or Spanish meet inclusion criteria. Two reviewers will reach consensus about article inclusion. Data analysis will include content analysis and descriptive statistics. **RESULTS/ANTICIPATED RESULTS:** The results for studies that meet inclusion criteria will be summarized through descriptive tables of study characteristics, the number of studies excluded at the full-text review stage, and reasons for the exclusion of any studies that met the initial inclusion criteria. The results will also include a summary of common elements in the design of CE studios, the health disciplines for which CE Studios are most frequently conducted, and the aspect/phase of research design for which CE Studios are most frequently requested. **DISCUSSION/SIGNIFICANCE OF IMPACT:** To date, no work exists examining key elements of Community Engagement Studios and the fields within health services using this valuable research tool. This scoping review is a critical first step to develop guidelines, standards, and best practices around consistent procedures and characteristics to include in the design and conduct of CE Studios.