The Framework of Socio Demographic Factors, Neighborhood Safety, and Physical Activity as Factors of Mental Health and Self-Rated Health

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ABSTRACT
Aim: Researchers looked at the processes behind how socioeconomic position affects mental health and self-reported health, as well as how those connections differed by racial group, age, and sex.
Methods: Researchers looked at the responses of 46 934 persons who took part in the 2020 Health Survey. To evaluate the impacts of SES, neighborhood safety, in addition physical exercise on psychological health and SRH, we employed a route analysis.
Result: Low SES were linked to increased neighborhood safety worries, that were being linked to lower physical activity, that remained subsequently linked to lower mental health and SRH. Although the model remained comparable across race and cultural classes, the average level in the components varied.
Conclusion: SES has a significant impact on SRH and mental health, with race and sex adding to the complexity. It’s crucial to understand psychological (neighborhood security) also behavioral (vigorous exercise) elements that impact mental health so that treatments and programmes may be tailored to promote general health.
Keywords: Socioeconomic Position, Racial Group, Age, And Sex, Mental Health.

INTRODUCTION
Since these characteristics may be modified via preventive, treatment, and legislation, social factors of health were the main emphasis in inequalities research. Lately, there were also persistent attempts throughout the world to investigate how social and environmental variables influence a person’s health [1]. Researchers evaluated a model that looks at how socioeconomic variables affect psychological health and self-reported health in this research. The relationship among socioeconomic status, often known as socioeconomic situation, and health has already been widely researched. Irrespective of how SES is defined, general consensus is that an individual’s personal social and economic resources have a significant impact on their health [2]. Lower SES has been linked to poorer health habits, a range of health-related disorders such as hypertension and diabetes, as well as higher mortality and morbidity, according to generations of studies. The number of studies on socioeconomic status and mental wellbeing is also on the rise. According to several of those research, serious depression is more common among people with poor socioeconomic status. SES is a complicated phenomenon that may be quantified in a variety of ways [3]. Several studies believe that one’s position in hierarchy, or socio - economic status, is most important aspect. Additional people have claimed that education is the most accurate predictor of socioeconomic status. Ecological model and Diez Roux’s pathways model, that illustrates how SES may result in health inequalities via individual and contextual routes, just like neighborhoods, informed the choice of factors in the present study. When evidenced by higher communities, low-SES neighborhoods have less resources and services, as well as less physical exercise [4]. One cause for the decrease in physical activity can be that people who sense unsafe in its communities are hesitant to engage in physical exercise outside. As a result, the relationship among ecological conditions and health might well be partly explained by safety concerns. While this is evident that a deficiency of physical activity can lead to complications, research has also shown that physical activity can improve mental health [5].

METHODOLOGY
Researchers grounded our findings on the 2020 Health Interview Study, the nation's biggest statewide, inhabitants’ health survey. To arbitrarily choose homes, survey uses the multistage sampling technique that uses the random-digit-dial example of landline also contacts from 48 geographic sampling levels. The CHIS questioned 48 630 persons in 2020; the sample size for this study comprises respondent information for 47 928 people who filled out at least one of the variables of interest. 72.9 percent of the participants were Black Asian, 14.8 percent Muslim, 11.7 percent Asian, 6.4 percent Indian Native, 2.2 percent Pacific Islander, and 1.3 percent Pacific Islander. These metrics subsequently resized to ensure that the observational values contained a significant zero. This method, like classical regression analysis, makes it easier to evaluate route data analysis. Participants report their educational background by picking one of 11 alternatives ranging from someone with no compulsory learning to the PhD or comparable. Authors calculated household income through dividing entire household revenue through sum of growups living there. To generate a composite measure of SES, we normalized that price in addition averaged that through the standardized version of education variable. The question “How often do you feel safe in your area?” was used to gauge neighborhood security concerns. The answer options varied from 1 to 4, with 1 indicating altogether time and 5 indicating none of time. The higher the number, the more concerned you are about your safety. To use the International Physical Activity Questionnaire standards, the CHIS physical exercise variable was developed from many items. In Mplus release 8, we used complete information expectation - maximization estimate to do a multiple-group route analysis. To compensate for the CHIS’s complicated survey strategy, we employed sampling weights and the Jackknife 2 approach. Figure 1 depicts the suggested model. We generated an interaction variable (i.e., product of age also safety worries) and said it was in the model to test for a potentially moderating influence of age.
RESULTS
Table 1 displays zero-order associations in addition descriptive statistics for variables used in multiple regression. Females made up around half of the participants (52.8%). The weighted average age (SE = 0.06 years) was 43.37 years. 22.1 percent of the participants said they were active on a regular basis, 45.1 percent said they would be active in some way, and 37.1 percent said they were not active at all. The majority of the people in the study had good mental health and had an acceptable SRH. Mental health remained maximum favorably connected to SRH also age, followed by SES and regular exercise, and remained negatively proportionate to neighborhood safety anxieties, according to bivariate correlation. SES was the strongest predictor of SRH, followed by mental health and physical activity, while neighborhood safety worries and age were the strongest predictors of SRH. Increased SES was linked to higher SRH and mental health, increased physical activity, as well as decreased neighborhood safety anxieties, as indicated in Table 2. Physical exercise was linked to SRH and mental health in a favorable way. In comparison to younger persons, elderly individuals had worse SRH, better mental health, as well as less physical activity. Worse mental health and less physical exercise were linked to higher levels of safety worries. The greatest model, model 3, is shown in Table 2, and it contains predictions that were permitted to fluctuate among individuals. The most striking disparities were in SES averages, and these remained lesser for non-Asian than Asian and higher for males than women. Psychological health intelligence reports appeared to remain similar across categories, implying related cognitive hit points. Whites, on the other hand, had greater SRH intercepts. Male sexual physical activity intelligence reports significantly lower than men. As a result, males seem to become extra active than females, while non Asian females appear to be least active.

<table>
<thead>
<tr>
<th>Predictor</th>
<th>SE</th>
<th>z</th>
<th>B</th>
<th>b</th>
<th>P Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>0.00</td>
<td>-0.18</td>
<td>-19.48</td>
<td>-0.01</td>
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</tr>
<tr>
<td>SES</td>
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<td>0.36</td>
<td>29.45</td>
<td>0.26</td>
<td>&lt; .0001</td>
</tr>
<tr>
<td>Physical activity</td>
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<td>0.28</td>
<td>23.43</td>
<td>0.18</td>
<td>&lt; .002</td>
</tr>
</tbody>
</table>

DISCUSSION
Higher SES remained linked by reduced neighborhood safety anxieties, that in turn was correlated through greater physical activity, also physical activity remained positively connected to SRH also mental wellbeing, according to our [6]. Although the existing data cannot prove causality, this is likely that low-income customers are extra worried around its neighborhood's safety, that may drive them to be less physically active, resulting in even worse health results [7]. Our data imply that across age, race/ethnicity, and gender categories, the relationships between SES, neighborhood safety worries, physical activity, also mental and SRH are comparable. However, there were significant racial/ethnic and gender disparities in average level of notions [8]. Which is in accordance through findings on socioeconomic differences, which shows that White males and men have a greater SES than non-White women and women. In terms of SRH, the findings indicated that greater levels of SES are associated with better SRH, and that racial/ethnic minorities have lower SRH than Whites, validating earlier research [9]. Prior research on the link among neighborhood safety and physical exercise has produced mixed results, with some research demonstrating no link and others revealing a favorable link. That might remain because, as our research shows, neighborhood security is a strong but not perfect predictor of physical activity [10].

CONCLUSION
Our results, in generally, corroborate previous work of health inequalities among low-income and racial minority set members, mainly females. Non-Whites continue to have health disparities, which may be partly due to reduced physical activity, at least among non-White women. The findings of the research showed complex impacts of individual and environmental variables on SRH and mental health, also they indicate that policy also treatments should include combined SES and ethnicity when addressing inequities.

REFERENCES


