Mobilizing Physician Assistants: Educational Outreach to Underserved Urban Communities

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Purpose
Underrepresented minority (URM) communities face challenges accessing healthcare due to shortages of healthcare providers, which has been linked to a lack of diversity in medical professions in the U.S. Pipeline programs in medicine and dentistry have been successful in increasing diversity through the enrollment of URM pre-college students to prepare for pursuing a career in the health care field. Drawing on past literature, we developed a pilot pre-college outreach program exposing underrepresented high school students to topics and skills related to the PA profession.

Methodology
This mixed-methods approach study draws on qualitative and quantitative data collected from student surveys. The study evaluates a pre-college outreach program, which recruited underrepresented high school (HS) students in grades 10-12 from an urban high school in New Jersey for one academic year (2019-2020). The program consisted of five meeting sessions. PA students from a PA program were invited to volunteer as peer mentors in this MPA program. Pre- and post-survey instruments to capture participants' experiences and knowledge.

Results
Qualitative findings revealed students integrated their concrete experience gained in the program with their knowledge of the healthcare professions. Overall, student responses indicated participants gained knowledge of the PA profession through the MPA program; but these experiences did not significantly increase their interest in becoming a PA. Although, they still expressed to be "very to moderately interested" in applying to a PA program in the future.

<table>
<thead>
<tr>
<th>N</th>
<th>M</th>
<th>SD</th>
<th>SE</th>
<th>Significance</th>
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<tbody>
<tr>
<td>HS Completed the Pre-program Survey</td>
<td>24</td>
<td>4.1</td>
<td>.85</td>
<td>.17</td>
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<tr>
<td>HS Completed the Post-program Survey</td>
<td>19</td>
<td>3.5</td>
<td>1.12</td>
<td>.25</td>
</tr>
</tbody>
</table>

Table 2. t-test Results Comparing Pre- and Post-program of High School Students' Interest to Apply to PA School.

Conclusions
Our findings show that pipeline programs can help students learn about the PA profession, but further research is needed to examine how they shape career aspirations. We interpret these results as suggesting participants gained knowledge of the PA profession. Additional research could address this by increasing data collection on students' experiences in the program and their long-term goals. Thus, we propose a multi-institutional PA school pre-college outreach program with various HS districts throughout the U.S. that would provide a larger and more representative sample with statistical power. This may allow researchers to examine the relationships that different program characteristics have with outcomes.

Acknowledgments
Special thanks to nccPA Health Foundation, Seton Hall University Department of Physician Assistant, and Clifton Public Schools.

References