Generating Long-Term Resiliency via Cultural Organization Affiliation in Medical School

Justin Chin, DO1,2, McKenzie Warschel, OMS-II3; Michael Yen, OMS-II2; Leslie Petasis, MAT, MSMeD4; Mark Terrell, EdD5; Christine Lomiguen, MD, MSMeD4

1Olubník Medical Care-Department of Family Medicine, Lake Erie College of Osteopathic Medicine-Department of Medical Education

Abstract

This study analyzes the effectiveness of membership and participation in a culturally-affiliated organization in mitigating minority student adjustment difficulties to medical school. Results from this project will allow administrators, faculty advisors, and other mentors 1) to respond to difficulties experienced by medical student advises with recommendations for culturally-affiliated organizations and 2) to support the development of resiliency in osteopathic medical students through the cultivation of professional identity formation and association.

Introduction

Resiliency comes from the Latin term “resiliens”, the ability to spring back from difficulties and setbacks. Medical students begin their journey as individuals with unique backgrounds and experiences, which can contribute to varying levels of resiliency when faced with the daunting challenges of medical school and their subsequent field of practice. This difficulty in adjustment can manifest in increased levels of depression, maladaptive coping mechanisms, and struggles with mastery of material. This is especially the case for minority students who may find it particularly difficult to identify with other students, administration, and faculty in a field in which those students’ races and ethnicities are not the majority in medicine.

Through this study, we hope to highlight a potential avenue for undergraduate medical education to respond to difficulties experienced by medical students with recommendations for culturally-affiliated organizations and to support the development of resiliency in osteopathic medical students through the cultivation of professional identity formation and association.

Methods

First-year medical students at an osteopathic medical school identified a lack of representation, discussion, and extra-curricular options regarding culturally-based health and healthcare within the curriculum at an osteopathic medical school. To address this issue, medical students initiated the process to form a new student chapter of a national organization: the Asian Pacific American Medical Student Association.

Once clearing administrative hurdles and logistics, the formation of the osteopathic medical school’s student chapter of APAMSA was created, thus serving a rallying point for Asian and Pacific Islander medical students (Figure 1).

Figure 1: In Scenario 1, there is one (1) faculty research advisor serving as a direct mentor to five (5) medical students. In Scenario 2, there are two (2) additional medical students, thus decreasing overall direct mentorship load of the faculty member, providing students with leadership roles, and generating an increase number in research projects.

Discussion

According to both the American Association of Colleges of Medicine Colleges (AACMC) and American Association of Colleges of Osteopathic Medicine (AAMC), Caucasians of Non-Hispanic origin comprise most allopathic and osteopathic medical school matriculants. In 2015, AACMC reported that Asians constituted only 4,085 of 20,122 (20%) US allopathic matriculants, and even more startling, the number of those who identified themselves as Native Hawaiian or Other Pacific Islander was 17 (<1%). The number is slightly higher for osteopathic matriculants, in which 1,537 of 6,763 (23%) identified as Asian American; however, Hawaiian/Pacific Islander was 3 (<1%). While these numbers are still greater than that of historically underrepresented minorities, the complexities of homogenization are lost under larger pan-Asian classification, thus requiring individual institutions to create their own parameters regarding admission of underrepresented APIA students.

Since its inception, the minority student chapter described has been one of the most active student organizations at the osteopathic medical school: organizing over 40 events, filling numerous regional and national leadership roles, and hosting regional conferences and the 2010 national conference. Anecdotal evidence revealed that the cultural organization allowed for APIA medical students to have a sense of belonging and fostered a sense of community. A potential impact is that culturally-affiliated organizations can be an additional method for promoting resiliency in minority medical students through the maturation and development of professional identity. This can be seen tangentially with the effect on faculty advisement on research projects (Figure 2).

Future Considerations

This project will be replicated in the 2020-2021 academic year as a similar student chapter is established at a second osteopathic medical school, and the results will be compared. Additionally, a survey to evaluate efficacy relative to resiliency will be obtained and created. Permission has been requested and granted to incorporate items from the Brief Resilience Scale into a final survey with adaptations to assess the effect of cultural organizations on resiliency (Figure 3).

This project will aim to use a survey at pre-formation of a culturally-affiliated student organization and a survey at post-formation. Additionally comparisons will be made using national drop-out rates from medical schools, proportions of minority health professional completing residencies and certifying and re-certifying in respective board exams. Evaluations can be strengthened to include benchmarks for membership, member feedback regarding events hosted, 5- and 10-year trajectories of minority student members as they enter the graduate medical education and the general healthcare workforce.

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References


Contact

Justin Chin, DO
Lifelong Medical Care
jchin2@student.touro.edu
Website: http://bit.ly/2yQcbse

Figure 3: The Brief Resilience Scale

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<tr>
<th>Statement</th>
<th>Strongly Disagree</th>
<th>Disagree</th>
<th>Neutral</th>
<th>Agree</th>
<th>Strongly Agree</th>
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<tr>
<td>I tend to bounce back quickly after hard times.</td>
<td>□</td>
<td>□</td>
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<td>I have a hard time making it through stressful events.</td>
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<td>It does not take me long to recover from a stressful event.</td>
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<td>It is hard for me to snap back when something bad happens.</td>
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<td>I usually come through difficult times with little trouble.</td>
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<td>I tend to take a long time to get over set-backs in my life.</td>
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