A Collaborative Approach Establishing Pathways to Medicine Through Leading Trauma Organizations

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SPECIFIC AIMS

Aim 1: Increase interest of racially/ethnically under-represented middle and high school students in surgery, trauma, and medicine by providing early exposure and hands-on experience

Aim 2: Establish a strategic mentoring and professional development program for racially/ethnically under-represented middle and high school students interested in surgery, trauma, and medicine

Aim 3: Develop a pipeline of under-represented racial/ethnic minority students interested in surgery, trauma and medicine

METHODS

• Establish mentor pairs between racially/ethnically under-represented middle and high school students and members of leading trauma organizations: AAST, COT, PTS

• Pre- and post-program survey (immediate, 3, 6, and 12 months)

• Students will be followed long-term for ongoing interest and participation in STEM fields (specifically surgery, trauma, and medicine) along with ongoing connection with their assigned mentor

OUTCOMES

• Differences in pre- and post-survey interest, knowledge, and confidence

• Number of mentor pairs for the year

• Ongoing program engagement

• Long-term interest in STEM fields

• Matriculation into and graduation from college

• Matriculation into and graduation from medical school

PROGRAMS

AMERICAN ASSOCIATION FOR THE SURGERY OF TRAUMA

2022 Cohort (Chicago)

• 10 mentor/mentee pairs

• 100% mentee completion pre- and post-program survey

• 60% mentee completion 6-month survey

• Completing manuscript of 2022 results

2023 Cohort (Anahiem)

• 10 mentor/mentee pairs

• Pre-workshop virtual mixer for mentor/mentee pairs

• 100%, eligible mentee completion of pre- and post-workshop survey

• Relationship with Anaheim Unified School District for improved continuity

• Ongoing program engagement

• Coordinating research efforts at a single institution to track program success measures

• Developing virtual longitudinal curriculum combining both cohorts focusing on mastering science courses, interviewing, public speaking, standardized exams, applications

• Initiating planning for AAST Annual Meeting in Las Vegas 2024

PEDIATRIC TRAUMA SOCIETY

2022 Cohort (Portland)- 4-year program

• Portland High School students selected

• Undertaken an immersion experience at Oregon Health & Science University simulation center

• Attended the Nov 2022 PTS meeting in Portland and were paired with national mentors for regular virtual mentoring

• Participated in surgical research with the Division of Pediatric Surgery and regularly attend research meetings

• Obtained CITI certification for research.

• Future immersion experiences (Clinic and OR shadowing, trauma call) scheduled

• Scholars sponsored to attend the 2023 PTS meeting in New Orleans

• Co-authors on an abstract being presented at the meeting and will be part of a CSI Luncheon where they will share their experiences and research

• Submitted research they are participating into the Western Trauma Association and the American Pediatric Surgery Association upcoming meetings

Clinical Congress 2023
October 22-25 / Boston, MA

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Dr. Bethany Strong with AAST scholars and vendors during the 2023 PTS meeting in Portland and were paired with national mentors for regular virtual mentoring.