

# A Collaborative Approach Establishing Pathways to Medicine Through Leading Trauma Organizations

Dr. Laura Haines, Dr. Sharon Henry, Dr. Mubeen Jafri, Dr. Bindi Jayendra Naik-Mathuria, and Dr. Bethany Strong

ACS Board of Regents Innovative Grant for Diversity, Equity, Inclusion and Anti-Racism Organizational Leads

PIs: Dr. Cherisse Berry and Dr. Karen Brasel



## 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 mentee/mentor pairs
- 100% mentee completion pre- and post-workshop survey
- 60% mentee completion 6-month survey
- Completing manuscript of 2022 results

#### 2023 Cohort (Anaheim)

- 10 mentee/mentor pairs
- Pre-workshop virtual mixer for mentee/mentor pairs
- 100% eligible mentee completion of pre- and post-workshop survey
- Relationship with Anaheim Unified School District for improved continuity

#### Next Steps

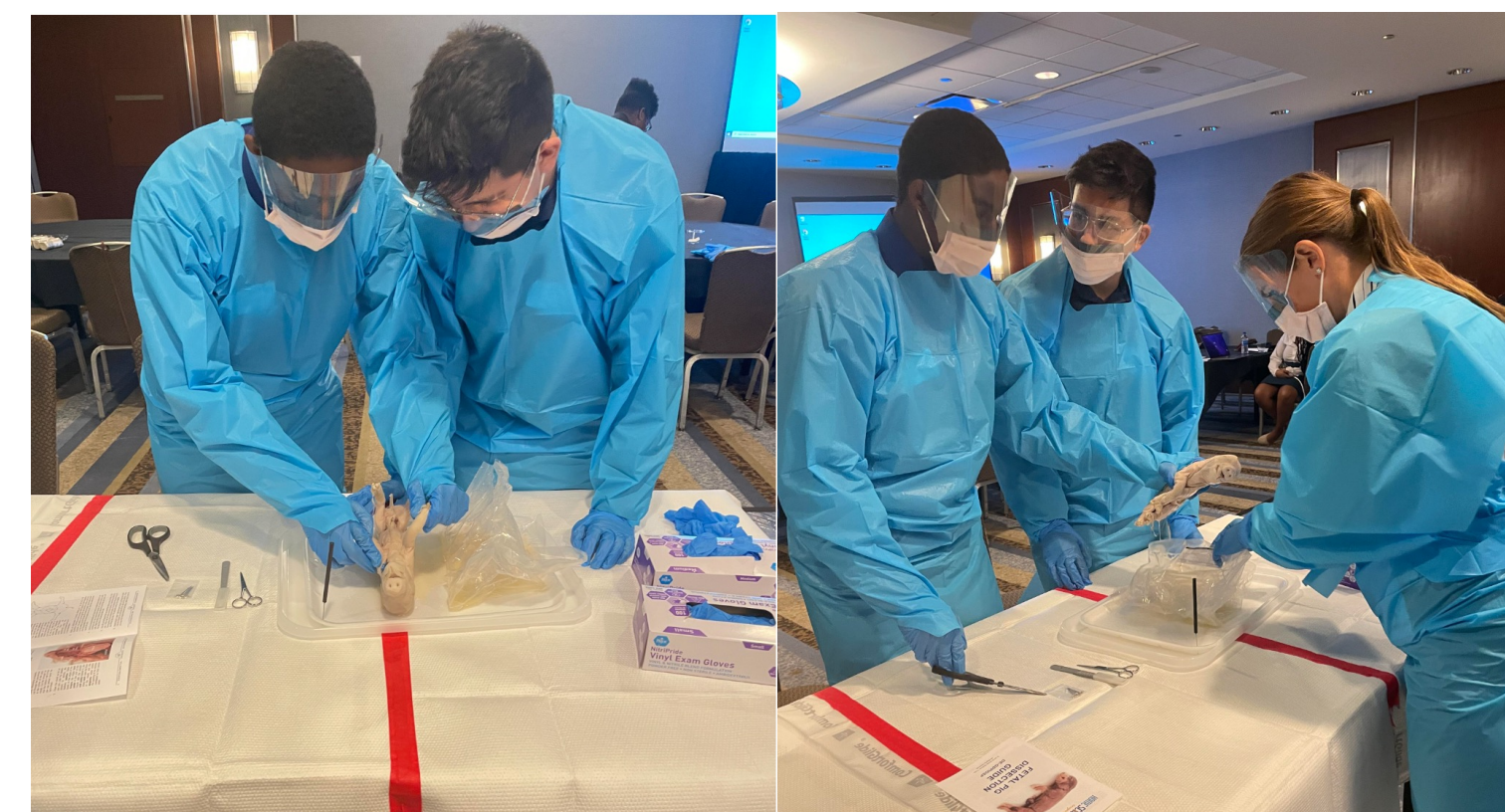
- Coordinating research efforts at a single institution to track program success measures
- Developing virtual longitudinal curriculum combining both cohorts focusing on mastering science courses, interviewing, public speaking, standardized exams, applications
- Initiating planning for AAST Annual Meeting in Las Vegas 2024



### PEDIATRIC TRAUMA SOCIETY

#### 2022 Cohort (Portland)- 4-year program

- 5 Portland High School 11th Graders selected
- Underwent an immersion experience at Oregon Health & Sciences 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 DEI Luncheon where they will share their experiences
- Submitted research they are participating into the Western Trauma Association and the American Pediatric Surgery Association upcoming meetings



ACS Regents / AAST Pipeline Scholars learning anatomy during the Pig Dissection Lab at the 2022 AAST Annual Meeting Chicago, IL



Dr. Sharon Henry teaching students at Stop the Bleed. At "A Day at the College High School Program" at 2022 ACS Clinical Congress San Diego, CA



ACS Regents / PTS Scholars with National Mentors attending the November 2022 Pediatric Trauma Society Meeting, Portland, OR



Oregon Health and Science Transplant Surgeon Lecturing students. McDaniel High School, Portland, OR



Students working with MIS Fellow from Oregon Health & Science University. McDaniel High School, Portland, Oregon



Dr. Bethany Strong with AAST scholars and vendors during the 2023 AAST Annual Meeting, Anaheim, CA



Students learning skills on the da Vinci Robot in the Exhibit Hall at "A Day at the College High School Program" at 2022 ACS Clinical Congress San Diego, CA