

Disclosures

The authors have none to disclose



Introduction

 The current state of diversity in the training pipeline for the orthopaedic sports medicine workforce is poorly understood

We hypothesized that the proportion of women, racial and ethnic minorities in the emerging orthopaedic sports medicine workforce would be underrepresented relative to the US population over the past decade



Methods

 This was a retrospective, cross-sectional study of allopathic medical students, orthopaedic surgery residents, and orthopaedic sports medicine fellows in the US (2013-2022)

 Disparities in demographic representation between orthopaedic sports medicine fellows and the 2020 US population census were quantified with percentage differences and participation-to-prevalence ratios (PPRs)



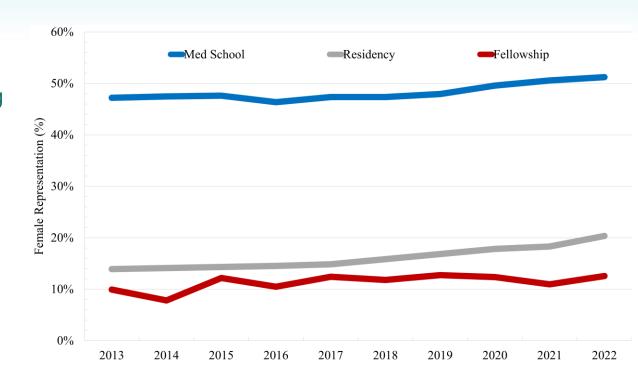
Methods

- PPR = participation in orthopaedic sports medicine workforce (%) / prevalence in overall US population (%)
 - PPRs of 0.8-1.2 = equivalent representation
 - PPRs < 0.8 = under-representation
 - PPR > 1.2 = over-representation





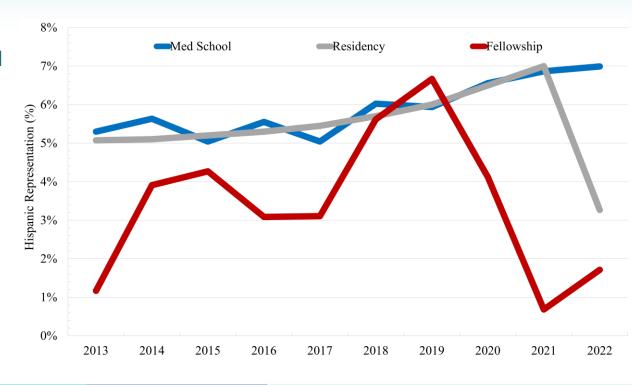
- The representation of female trainees decreased at each stage of the training pipeline (P<0.001)
- Female trainees increased among allopathic medical school graduates (47.5% to 51.2%, P<0.001), orthopaedic surgery residents (13.7% to 20.4%, P<0.001), and orthopaedic sports medicine fellows (9.9% to 12.6%, P=0.051)



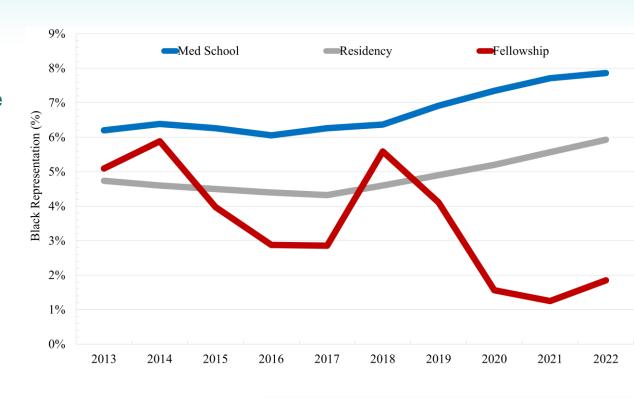




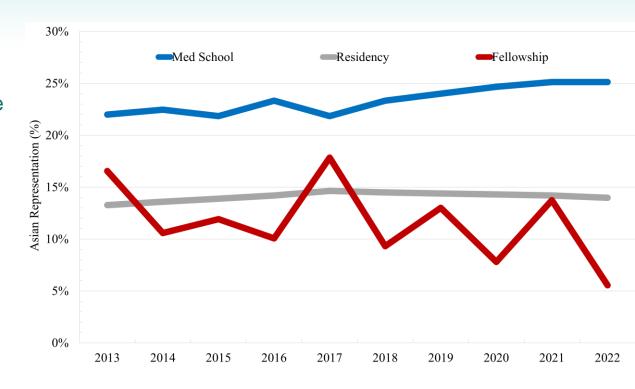
- The representation of Hispanic trainees decreased at each stage of the training pipeline (P<0.001)
- Hispanic trainees increased among allopathic medical school graduates (5.7% to 7.1%, P=0.003), decreased among orthopaedic surgery residents (5.0% to 3.3%, P=0.760), and increased among orthopaedic sports medicine fellows (1.2% to 1.7%, P=0.882)



- The representation of Black trainees decreased at each stage of the training pipeline (P<0.001)
- Black trainees increased among allopathic medical school graduates (6.5% to 8.0%, P<0.001), orthopaedic surgery residents (4.7% to 5.9%, P=0.006), and decreased among orthopaedic sports medicine fellows (5.1% to 1.9%, P=0.016)

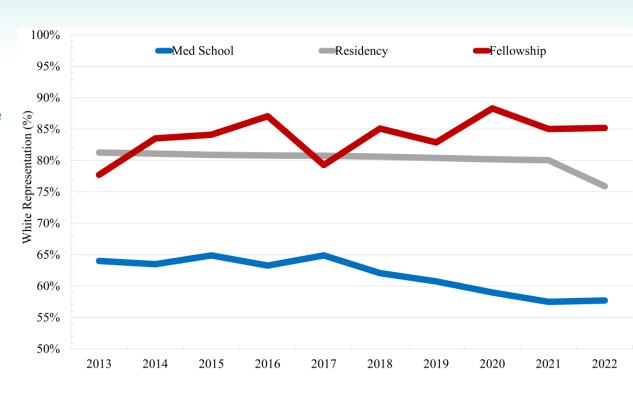


- The representation of Asian trainees decreased at each stage of the training pipeline (P<0.001)
- Asian trainees increased among allopathic medical school graduates (22.9% to 25.7%, P<0.001), orthopaedic surgery residents (13.3% to 14.0%, P=0.076), and decreased among orthopaedic sports medicine fellows (16.6% to 5.6%, P=0.173)

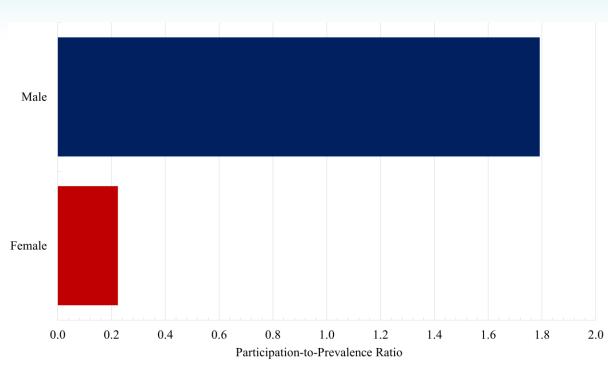




- The representation of White trainees increased at each stage of the training pipeline (P<0.001)
- White trainees decreased among allopathic medical school graduates (64.7% to 58.9%, P<0.001), orthopaedic surgery residents (81.3% to 75.9%, P<0.001), and increased among orthopaedic sports medicine fellows (77.7% to 85.2%, P=0.122)

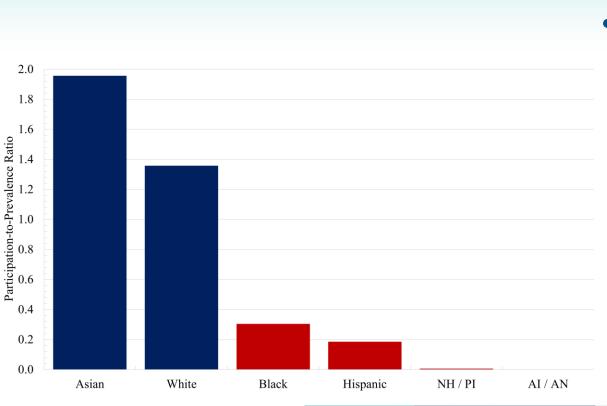


- Female trainees were underrepresented relative to the US population (PPR=0.22)
- In contrast, male trainees were overrepresented relative to the US population (PPR=1.79)









- Racial and ethnic minorities were underrepresented in orthopaedic sports medicine
 - PPR (Black) = 0.30
 - PPR (Hispanic) = 0.19
 - PPR (Native Hawaiian/Pacific Islander) = 0.01
 - PPR (Native American/Alaskan Native) = 0.00





Discussion

 Female, Hispanic, Black, NH/PI, and NA/AN surgeons are underrepresented in the emerging orthopaedic sports medicine workforce

 More work is needed to engage faculty, program directors, and professional organizations in orthopaedic sports medicine to create longitudinal recruitment efforts that promote diversity and inclusion in the specialty



