

Medical School and State Efforts Towards Physician Workforce Diversity: How Do They Rank?

Background

The benefits of diversity in medicine and the promotion of a diverse physician workforce are in the interest of all patients. These benefits include an enhanced educational environment for all medical students, the disproportionate service of minority physicians in underserved areas, and the potential growth of research addressing healthcare inequities. Of the many forms of diversity, the adequate representation of those from ethnicities under-represented in medicine has been particularly difficult to achieve. In fact, the difficulty in achieving diversity in medicine was recently highlighted by the "Altering the Course" AAMC report, which found that there are fewer African-American men in medicine today than in 1978. It has long been known that there is a paucity of ethnic minorities in medicine. African-Americans, Latinos/Hispanics, and Native Americans/Pacific Islander/Alaska Natives compose 13.2%, 17.4% and 1.4% of the U.S. population respectively, yet constitute 10% of direct care physicians (U.S. census, Diversity Data Snapshots, 2013. AAMC).



Figure 1. Physician Workforce Diversity. (a) Physician workforce diversity, as percentage of direct care physicians.. (b) Medical school Faculty diversity. Adapted from: Diversity Resources and Data Snapshots, August 2015 Edition. https://www.aamc.org/initiatives/diversity/data/



Figure 2. National trends in UME diversity. (a) Percentage of medical school applicants, matriculants and graduates who self identify as members of ethnic groups URM. (b) Historical view of total number of medical school matriculants self-identifying as members of ethnic groups URM. (a) Adapted from: Diversity Resources and Data Snapshots, August 2015 Edition. (b) adapted from Altering the Course AAMC report.

Motivation and Methods

In order to better inform future diversification efforts, we have used Association of American Medical Colleges (AAMC) and U.S. Census data to evaluate U.S. medical schools by their degree of diversity. We have ranked all U.S. medical schools by % URM enrollment and compare these rates to national demographics. We also introduce a new approach of quantifying diversity beyond the percent enrollment of URMs by normalizing enrollment levels to local demographics.

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Data





	% URM		
Medical School ¹	Students Enrolled	City/State	% in
UCLA-Geffen	17.59	Los Angeles/CA	
UC San Francisco	17.41	San Francisco/CA	
Duke	15.86	Durham/NC	
North Carolina	15.71	Chapel Hill/NC	
Penn-Perelman	15.68	Philadelphia/PA	
Columbia	15.11	New York/NY	
Harvard	13.6	Boston/MA	
Stanford	12.83	Stanford-Palo Alto/CA	
Yale	12.2	New Haven/CT	
Johns Hopkins	10.491	Baltimore/MD	
Minnesota	10.49	Minneapolis/MN	
Baylor	10.17	Houston/TX	
Michigan	10.06	Ann Arbor/MI	
Colorado	10.05	Aurora/CO	
UT Southwestern	10	Dallas/TX	
Washington U St. Louis	8.89	St. Louis/MO	
Oregon	6.44	Portland/OR	
U Washington	4.87	Seattle/WA	



State's Percent URM Population reflect the URM demographics of that state

Source: Author's analysis of AAMC Table B-5 (2016-2017) and 2015 U.S. Census. Mapping performed using mapchart.net.

We find that even amongst our most diverse medical schools, many do not match national demographics, and very few schools and states achieve parity between medical trainees and the populations they serve. Our study illustrates how data may be utilized to develop targeted goals and move the discussion beyond describing the lack of diversity in our physician workforce towards utilizing data to motivate and direct interventions to increase the number of URM physicians.⁴

https://factfinder.census.gov/faces/nav/jsf/pages/community_facts.xhtml). at https://www.aamc.org/data/facts/.) Med. 2010;152(12):804-11.

1. Office of Inclusion and Diversity 2. The following individuals provided inspiration and feedback on prior versions of this data: Dr. Roy Hamilton, Dr. Nahla Khalek, Krystal Hill,

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Data Cont.

Values less than 1 indicate that percent URM of current medical students in that state do not

Discussion and Future Work

Citations

1. United States Census Bureau. (Accessed February 17, 2017, at <u>https://www.census.gov/quickfacts/table/RHI125215/00</u>) and 2. FACTS: Applicants, Matriculants, Enrollment, Graduates, M.D.-Ph.D., and Residency Applicants Data. (Accessed January 6, 2016,

3. Methodology: 2018 Best Medical Schools Rankings. Morse R, Hines K. (Accessed November 18, 2017, at (https://www.usnews.com/education/best-graduate-schools/articles/medical-schools-methodology.) 4. Mullan F, Chen C, Petterson S, Kolsky G, Spagnola M. The social mission of medical education: ranking the schools. Ann Intern

Acknowledgements