

Racism and Racial Bias in Medicine

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Racism and Racial Bias in Medicine

- Evidence for Racism and Racial Bias in Medicine
- · Impact on Patient Care
- Impact on Diversity of the Medical Profession
- Counteracting and Preventing Racism and Bias in Medicine

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A Role for Implicit Bias?





Physicians' Implicit and Explicit Attitudes About Race by MD Race, Ethnicity, and Gender Sabin, Nosek, Greenwald, Rivara

Sabin, Nosek, Greenwald, Rivara J Health Care Poor Underserved. 2009 August; 20(3): 896–913.

- " ... Implicit preference for White Americans was strong among all MD groups except for African American MDs"
- "White MDs showed the strongest implicit preference for Whites"
- "African American MDs, on average, did not show an implicit preference for either White Americans or Black Americans"

Physician Implicit Racial Bias is One Thing ...

But What About Physician Explicit Racial Bias (Racism)?

Black-White Race IAT also asks for self-reported explicit racial biases

White, Asian, and Hispanic physicians have self-reported having mild levels of <u>explicit</u> anti-black bias, or racism1,2.

Medical students self-report **explicit** negative attitudes toward Blacks3

1Sabin. J of Healthcare for Poor Underserved. 2009 2Capers. Academic Medicine. 2017 3Harrison. Proc Baylor U Med Ctr. 2019

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The Effects of Oncologist Implicit Racial Bias in Racially Discordant Oncology Interactions

- 18 Oncologists (non-Black) took the Black-White IAT
- Treatment of 112 Black pts several weeks later
- Office visits were recorded and "graded" by neutral observers
- Oncologists higher in implicit racial bias had shorter interactions
- Patients and observers rated these oncologists' communication as less patient-centered

Penner. Journal of Clinical Oncology 34, no. 24 (August 2016)

Disparities in Cardiovascular Care: Physician Bias?

- Green, et al. J Gen Int Med 2007
- 220 IM and EM residents from 4 programs in Boston and Atlanta completed web-based study
- Participants took "Implicit Association Test": computerbased, psychological test to measure unconscious bias
- Participants were unaware of purpose of study

Disparities in Cardiovascular Care: Physician Bias?

- · Clinical Vignette:
 - Mr. T is a 50 year old male smoker with HTN who presents to the ED having a heart attack.



- Residents were less likely to treat the Black man with thrombolytic therapy (heart attack drug)
- Biggest predictor of the decision to not treat the Black man: implicit negative bias about Blacks and implicit association of Black Man = "less cooperative"

I. AICD therapy in pts at risk for SCD





AICD Therapy in Patients at Risk for Cardiac Arrest

Circ 2003 Jul 22; 108 (3):286-291

6,000 Medicare patients after cardiac arrest OR for Blacks (vs Whites) to receive AICD: 0.5

Circ 2016 Aug 16:134(7):517-26

21,000 pts with severely weakened heart muscle

Blacks and Hispanics less likely than Whites to get counseled re: ICD

II. Restoring Blood Flow to Blocked Leg Arteries



Treating Poor Circulation

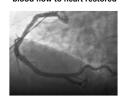
- Arch Surg 1995 Apr; 130 (4): 381-6
 19,236 Medicare pts with LE ischemia
 African Americans compared to Whites:
 More likely to undergo amputation
 Less likely to undergo revascularization
- J Racial Ethn Health Disparities. 2017
 African Americans 200% and Hispanics 50% more likely to have amputation than Whites

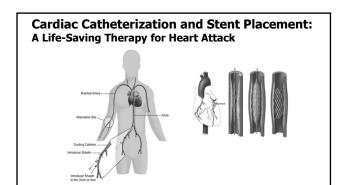
III. Rapid Treatment of Blocked Heart Arteries in Heart Attack Victims

Before stent, artery closed, no blood flow to heart



After stent, artery open, blood flow to heart restored





The Effect of Race and Sex on **Physicians' Recommendations** for Cardiac Catheterization

"Men and whites were significantly more likely to be referred than women and blacks."

Kevin Schulman, MD, et. al, NEJM, February, 1999



Temporal trends and predictors of time to coronary angiography following non-ST-elevation acute coronary syndrome in the USA Muhammad Rashid¹⁰, David L. Fischman¹, Sara C. Martinez⁹, Quinn Capers IV⁶, Michael Savage¹, Azfar Zaman⁶, Nick Curzen⁶, Joie Ensor⁶, Jessica Potts⁸, Mohamed D. Mohamed¹⁰, Chun Shing Kwok¹⁰, Tim Kinnaird⁸, Rodrigo Bagur¹⁰ and Mamas Mamas¹⁰.

- National US Inpatient Sample, 4.3 million NSTEMI/USA pts, 2004-2014
- 57% of pts received coronary angiography
- Endpoint: Early (within 24 hrs) vs Late (> 3d after admission) coronary angiography

Coronary Artery Disease 2019.

Temporal trends and predictors of time to coronary angiography following non-ST-elevation acute coronary syndrome in the USA

Independent predictors of LATE vs EARLY coronary angiography:

- •Female gender
- African American race
- · Weekend admission
- · Lack of Private Insurance

Coronary Artery Disease 2019

Racial Disparities in Cardiovascular Care: A Review of Culprits and Potential Solutions

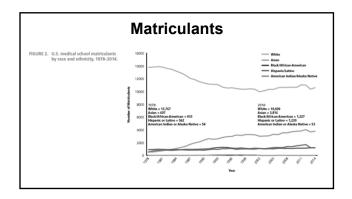
Ouinn Capers IV · Zarina Sharalaya

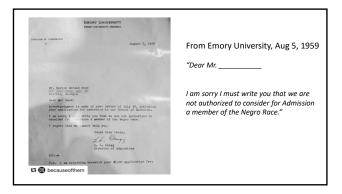
Received: 28 January 2014/Revised: 25 March 2014/Accepted: 30 April 2014/Published online: 23 May 2014 © W. Montague Cobb-NMA Health Institute 2014

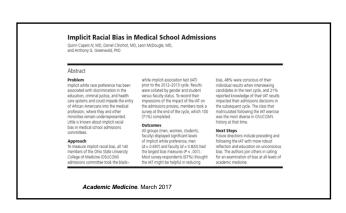
J of Racial and Ethnic Health Disparities: 2014

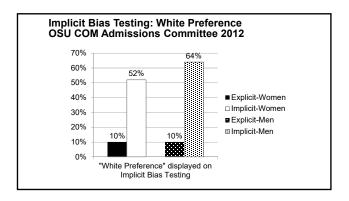
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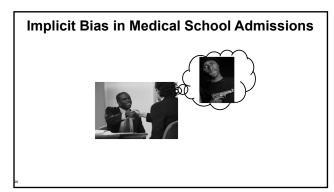
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"An Exploration of Myths, Barriers, and Strategies for Improving Diversity Among STS Members"

- STS Task Force on Diversity and Inclusion surveyed 5,158 members with a response rate of 9.3% (n = 481 respondents). Questions:
- What are some of the barriers to diversity and/or inclusion within cardiothoracic surgery?
- If there is a barrier not included in the list above, please explain.
- How can STS improve diversity and/or inclusion in cardiothoracic surgery and/or the Society?

Backus. Annals of Thoracic Surgery. 2019

"An Exploration of Myths, Barriers, and Strategies for Improving Diversity Among STS Members"

- "White males are currently being discriminated against in admission to college, med school and residency programs! CT [cardiothoracic] surgery should be a meritocracy."
- "I do not believe barriers exist. This myth of the necessity of diversity and inclusiveness is political correctness on steroids. We need to worry about turning out well trained residents...."
- "[The STS] doesn't need to [address diversity] and this should not even be on the radar of things to be done." (15% of respondents)
- \blacksquare "There are no barriers. None of the above are important!"

Backus. Annals of Thoracic Surgery. 2019

Perceptions on Diversity in Cardiology:
A Survey of Cardiology Fellowship
Training Program Directors

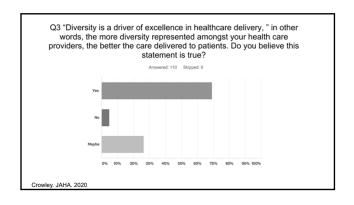
Area Lac County, M.D. Add Chart A. Marker & Balant A.D. County & Cardiology Fellowship
Training Program Directors

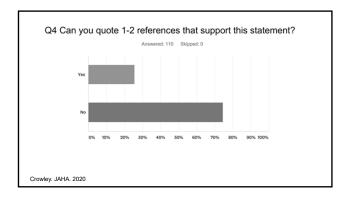
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Thours A. Hong, M.D. Cardiology & Cardiology Fellowship
Down Cargers V.D. Marker & L. Cardiology & Cardiology Fellowship
Programs represented)

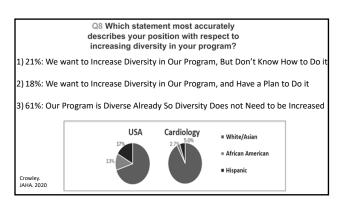
55% Adult General Cardiology

45% Adult Subspecialty Cardiology

Crowley. JAHA. 2020







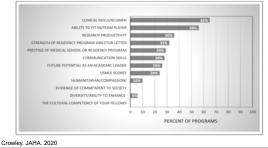
Top 3 Considerations When Making Your Rank List?



"Cigar smoke-filled backroom"

Crowley. JAHA. 2020

Top 3 Considerations When Making Your Rank List?



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2020: Racism/Racial Bias is a "Second Pandemic"

- Blacks, Hispanics:
 - Overrepresented in Patients Hospitalized for COVID
 - Overrepresented in Patients Dying From COVID
 - Overrepresented in those Dying From Fatal Police Encounters (While Unarmed)
 - Underrepresented in the Medical Profession



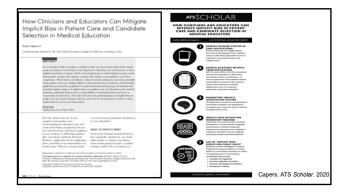


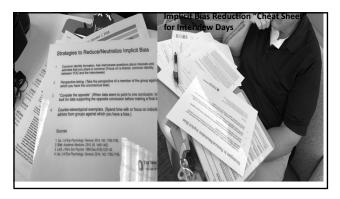
Eliminate Bias and Racism

- Training. Rehearsing. Training Some More
- · Direct Interventions
- Promote Anti-Racism Images/Role Models/Social Media
- Enhance Diversity in Medicine by Dismantling Bias/Racism in "Pipeline"

 - Deep PipelineSelection Strategies

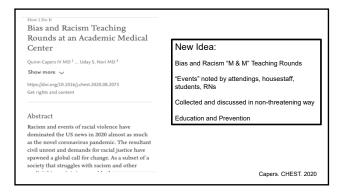






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American College of Cardiology Progam Directors Summit

ACC Heart House 2019

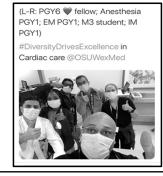


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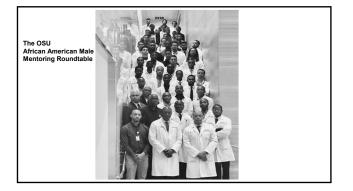
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Twitter Campaign to Inspire and Encourage







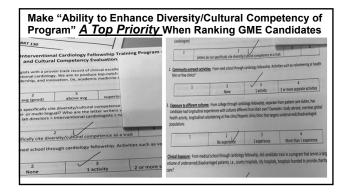
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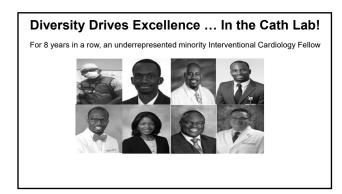
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Summary

- Bias and Racism in Medicine Exacerbate Healthcare Disparities
- Bias and Racism Contribute to the Lack of Diversity in Medicine
- Lack of Diversity in Medicine & Healthcare Disparities Put Patients at Risk
- There is a Global Call to End Racism
- Academic Medicine Must (and Can) Heed this Call

