DOM Onboarding UCLA-David Geffen School of Medicine **Exploring Bias in Clinical Practice** November 18, 2020

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"Few people are capable of expressing with equanimity opinions which differ from the prejudices of their social environment." - Albert Einstein

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UCLA Department of Medicine - Office for Equity, Diversity and Inclusion



Potential Conflicts of Interest

Our Personal Biases Based on our Life Experiences





From UCLA Health Care Workers rally for Black Lives Matter – June 2020

A billionaire has donated ten million dollars to the UCLA Dept Med Practice Plan and it helps to provide ½ day a week off for education. What are your thoughts about this billionaire?

You are on the admission committee and your Dean calls you. A request for a favor has been made - the billionaire's son wants to go to medical school but has poor grades and a low MCAT score. The Dean wants you to help admit the son. What do you do? What are your thoughts about this billionaire now?



David Geffen School of Medicine

This may be both explicit and implicit bias

Personal Identity Exercise Grab a Piece of Paper.



Race/Ethnicity Class/Socioeconomic Status Gender Sexual Orientation **Religion Faith/Spirituality Birth Order** Nationality Citizenship, Residence or Legal Immigration Status Where you went to undergrad/med school Hometown/State Hair Color/Texture Age Weight/Body Type **Political Party Personal Health Status Relationship Status** Being a parent



Implicit Bias

Everyone has it.... <u>Attitudes, thoughts or stereotypes</u> that affect our understanding, actions and decisions in an <u>unconscious</u> manner; are involuntarily formed and are typically unknown to us

"Implicit biases come from the culture. I think of them as the thumbprint of the culture on our minds. Human beings have the ability to learn to associate two things together very quickly that is innate. What we teach ourselves, what we choose to associate is up to us."



Dr. Mahzarin R. Banaji, quoted in Hill, Corbett, & Rose, 2010, p. 78



Implicit Bias

Implicit biases are an example of system 1 thinking, such that we are **not even aware that they exist** (Greenwald & Krieger, 2006).



DANIEL KAHNEMAN'S SYSTEMS OF THINKING



Bias and the Brain



Schemas:

- Mental shortcuts
- Automatic
- Organize & categorize information



Ingroups vs Outgroups





Implicit Bias Training

IS NOT

- A "check the box" compliance activity
- Intended to make you feel guilty or ashamed
- A one and done

- IS
- One part of an ongoing individual and departmental commitment to excellence
- Dependent on critical self reflection
- Focused on increasing your

competence and developing strategies

IMPLICIT BIAS MYTHS

- I'm _____; I can't have bias against _____ people.
- If bias is natural, there is obviously nothing we can do about it.
- It's a waste of time to try to mitigate my implicit biases. They don't impact anyone.
- Implicit bias is nothing more than the beliefs people choose not to tell others. People know how they feel, but they also know they cannot or should not say certain beliefs aloud, so they hide them.



But first, is Implicit Bias Even Real?



Implicit Bias: Leadership & Height (% CEO's over 6' tall)





Women in Academic Medicine in the United States



If subjective performance scores were the same......

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If there is only 1% variance in score favoring men

...only 35% of level 8 employees would be blue.

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"Team, we will chase **perfection**, and we will chase it relentlessly, knowing all the while we can never attain it.

But along the way, we shall catch **excellence**. I am not remotely interested in just being good."

— Vince Lombardi

How does Bias Impact Excellence in Medicine ?

Contributors to Implicit Bias

- Education and Institutional Sexism and Racism
 - Visual imagery that perpetuates stereotypes
 - Sexist or racist beliefs taught in textbooks or school
 - Vertical transmission of stereotypes passed down from educators

"Hysteria" Diagnosis

US Government Supported Tuskegee Experiment

Contributors to Implicit Bias

- Media portrayals
- Influences start at a young age

Media Images could be.....

Arrested for the same crime.

Or

Arrested for the same crime.

Contributors to Implicit Bias

- Cognitive Stressors
 - Biases against patients may be due to taking "mental shortcuts" because of high or stressful cognitive loads
 - This may contribute to persistent racial and gender health inequities

Can we measure bias?

Measuring Bias: The Implicit Association Test (IAT)

Series of free, publicly available computer-based exercises

Developed by Project Implicit[®], a long-term research project based at Harvard University

Asks participants to associate words with images to assess automatic associations between concepts by measuring the time and latency of their responses

Measuring Bias: The Implicit Association Test (IAT)

Take the RACIAL and the WEIGHT Bias tests. Then choose one more of your own.

Write down your score for each of the tests you take.

Did your IAT scores match you thought, were lower or higher?

Implicit and **explicit racial bias** correlate strongly and are common outside the US as well

Believes some races are born less intelligent

Coutts, A. (2020) Racial Bias Around the World https://osf.io/ysxch/download.

Does Medicine have any Biases?

Race Implicit Association Test (IAT) Doctors, Researchers and Lawyers

Cohen's D: standardized effect size, comparing the mean to M=0 (no bias), D of 0.2 = small effect, D of 0.5 = medium effect, and D of 0.8 = large effect Data from *Project Implicit*®, operated at Harvard University (https://implicit.harvard.edu/)

David Geffen School of Medicine Sabin J, et al. Physicians' implicit and explicit attitudes about race by MD race, ethnicity, and gender. *J Health Care Poor Underserved*. 2009;20(3):896–913.

RACE IMPLICIT ASSOCIATION TEST

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Sabin J, et al. Physicians' implicit and explicit attitudes about race by MD race, ethnicity, and gender. *J Health Care Poor Underserved*. 2009;20(3):896–913.

Bias in Action – Clinical Care

Patient-physician gender concordance and increased mortality among female heart attack patients

Gender concordance and patient survival: 90% confidence interval displayed. Estimates include controls and hospital quarter fixed effects. **Comparison group is male doctor, male patient**. n =581,797 for full sample, n = 134,420 for matched sample

Greenwood BN, et al. Patient-physician gender concordance and increased mortality among female heart attack patients. PNAS. 2018;115(34):8569-74

Effect of racial concordance on infant survival

Estimates displayed in the absence of the physician fixed effect to allow comparison across physician race. Includes controls, hospital fixed effect, and time fixed effects. The 95% CI is displayed.

Ref - Patient White– Physician White

Brad N. Greenwood et al. PNAS 2020;117:35:21194-21200

Bias in ER Traumatic Injury Pain Treatment

 Compared with White patients - Hispanics were 21% less likely and Asian patients were 31% less likely to receive a pain assessment procedure

&

 Black patients (32%), Hispanic patients (21%), and Asian patients (24%) were less likely to receive pain medication.

A retrospective analysis of > 25,000 EMS encounters from 2015-17 recorded in the Oregon EMS Information System using multivariate logistic regression models to examine the role of patient race/ethnicity in pain assessment and pain medication administration among patients with a traumatic injury.

David Geffen School of Medicine Kennel J, et al. Racial/ethnic disparities in pain treatment: evidence from Oregon Emergency Medical Services Agencies. Medical care. 2019 Dec 15;57(12):924-9.

Bias in Action – Clinical Care

Perm J. 2011 Spring; 15(2): 71–78. Spring 2011. PMID: 21841929

Impact of Clinician Bias

- With increasing provider bias there is:
 - More clinician-dominated language
 - More negative tones
 - Less time spent per patient
- With increasing provider bias patients perceive:
 - Less trust and lower confidence in the provider
 - More difficulty remembering details of conversation

Small Group Clinical Vignette Discussion and Debrief

Examples of <u>research-proven strategies</u> to neutralize or mitigate implicit biases.

- Be Mindful. Be Self-Awareness. Be Honest.
- <u>Common identity formation</u> Focus on a shared, common identity between YOU and the patient; do you have common hometowns or common interests in food, music, sports teams, etc? Such discussions not only put the patient at ease, research shows that they also blunt the impact of the physician's negative implicit bias because now you and the patient have a shared common group identity. They are no longer "other" but "one of the gang."
- <u>Perspective-taking</u> Take the perspective of the patient; what did they go through today before this interaction? What was their life like 6 months ago? Five years ago? What will happen in their household when they go back home? This exercise develops **empathy** for the patient that can oppose implicit bias.

Examples of <u>research-proven strategies</u> to neutralize or mitigate implicit biases.

- Consider the opposite: When data seem to point to one conclusion, briefly look for data supporting the opposite conclusion before making a final decision. Example: at first pass the patient does not seem to be a good candidate for organ transplantation because of a history of medication non-adherence and lack of reliable transportation.
- Has the patient held the same job for years? This implies that they can follow instructions and complete tasks.
- Does the patient have a stable family life, i.e., same spouse or significant other for years, children raised to independence? This implies reliability and that the patient keeps commitments.
- <u>Counterstereotypical exemplars</u>: Focus on individuals we admire who are in the same demographic as the patient.

After this exercise, make a final decision.

Research shows that this exercise can blunt the impact of implicit bias.

Real World Case:

What do disparities look like in real life?

Quality Care: System & Provider Knowledge/Bias

- A 75 year old obese Black female with DM was brought to a local ER by her daughter with progressive confusion, anxiety & change in mental status over 1-2 days.
- At the ER, her BP was low requiring vasopressors and she was admitted to the ICU for care.
- Diagnosis rendered was "End Stage Alzheimer's Disease" and recommendations were for DNR status and transfer to hospice.
- No further evaluation or treatment was offered.

What are possible risk factors for this diagnosis & recommendation

What Resources might have changed her treatment?

Let's give her a lot of social capital

- Her daughter contacted UCLA medical colleagues transferred arranged to Reagan Medical Center.
- A complete medical evaluation was conducted and treatment initiated. She returned to baseline and was discharged and the patient continued to teach UCLA students & fellows.
 - She was a national leader in community partnering to address health disparities
- 4 months later she received the UCLA Medal, the highest honor UCLA confers

Was her situation due to substandard hospital care due to poor diagnostic testing ?

Might it have been due to bias?

Provider, Health System?

What possible individual level biases? Age, Gender, Race, Weight, Perceived SES, other?

What would her outcome likely have been without extensive social capital?

How often might this be happening every day to others in similar situations without the resources?

WHAT MAKES A GOOD DOCTOR-THE PATIENT-CENTERED LENS

Defining excellence

How do we balance this with the other parts of our institutional mission?

"We can disagree and still love each other *unless* your disagreement is rooted in my oppression and denial of my humanity and right to exist."

- James Baldwin

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Tell us what you think!

We are interested in hearing from YOU! Click on the suggestion box below and let us know what our office could do to support EDI efforts in DOM.

Suggestion Box

