

Diversity, Equity, Inclusion and Belonging (DEI-B): Key Considerations in Hospital Medicine

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Disclosures

I have no relevant relationships with ineligible companies to disclose within the past 24 months.



Disclaimer



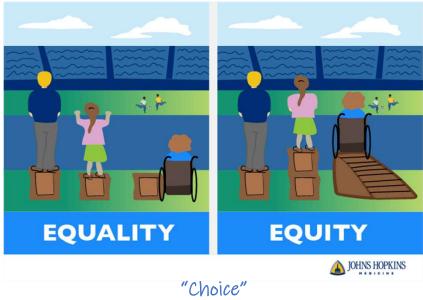
Learning Objectives

- 1. Define Diversity, Equity, Inclusion, and Belonging (DEI-B) in the context of healthcare
- 2. Describe challenges related to DEI-B in our current healthcare systems and environments
- 3. Discuss ways in which hospitalists can incorporate evidence-based DEI-B principles into everyday workflow
- 4. List ways in which we can overcome barriers to advancing DEI-B in hospital medicine

Definitions











October 29. 2016; culturalorganizing.org

Health Equity

Everyone has a fair and just opportunity to be as healthy as possible. - RWJF

Requires removing obstacles to health — poverty, discrimination, and their consequences, including powerlessness and lack of access to good jobs with fair pay, quality education and housing, safe environments, and health care, i.e., Health Justice

Inclusion

Active, intentional, and ongoing engagement with diversity, including intentional policies and practices that promote the full participation and sense of belonging of every individual



"Action"

Georgetown Univ. SOM

Belonging

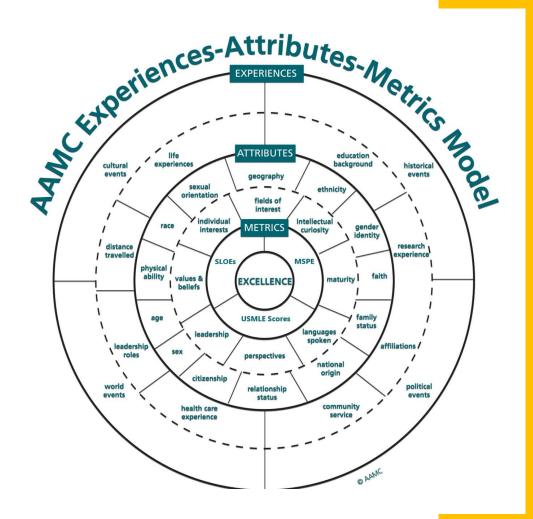
Individual's sense that their uniqueness is accepted and valued by their organization and colleagues

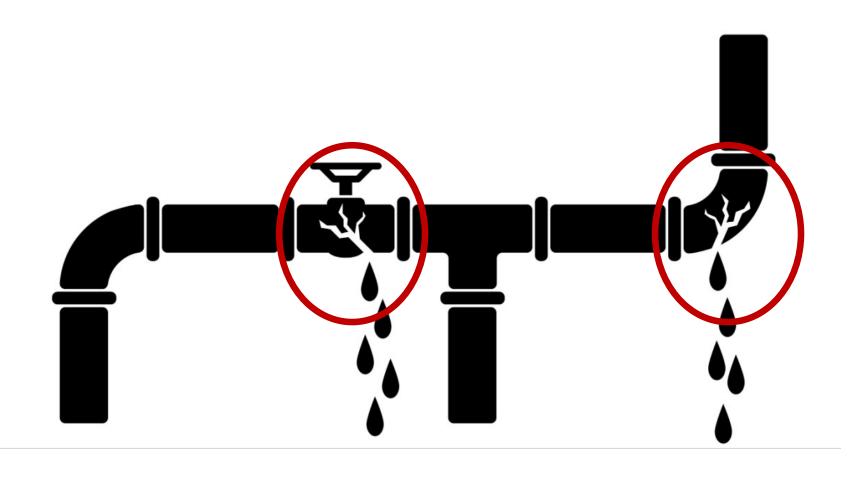




Best Practices in Diversity Recruitment

- Holistic Review
- Unconscious Bias Trainings
- Diversification of Interview and Selection Committees
- Focused Outreach





Issues Faced By Minoritized*Learners, Trainees, Faculty, and Staff

- Marginalization
- Microaggressions
- Gaslighting
- Low expectations
- Lack of incorporation into communities

- Biased evaluations
- Forced assimilation
- Lack of development
- Discrimination
- Harassment
- Mistreatment
- Abuse



- Uneven use of disciplinary actions
- Uneven use of remediation and probation
- Threats, coercion, intimidation
- Lack of mentorship
- · Lack of encouragement



Racial Disparities exist in the care of <u>all</u> patients

- Premature birth
- HIV
- Obesity
- Hypertension
- Rheumatoid arthritis
- Pain management
- Stroke
- Diabetes
- CAD
- Mental Illness



Perspective

Achieving the Triple Aim for Sexual and Gender Minorities

Michael Liu, M.Phil., Sahil Sandhu, M.Sc., and Alex S. Keuroghlian, M.D., M.P.H.

Sexual and Gender Minorities (SGMs)

As compared with the general population, SGM people have higher rates of:

- Cardiovascular Disease
- Obesity
- Cancer
- Sexually Transmitted Infections (including HIV, HPV, syphilis, and Hepatitis C)
- Mental Health Problems (including depression, anxiety, and substance use disorders)

Sexual and Gender Minorities (SGMs)

Perspective

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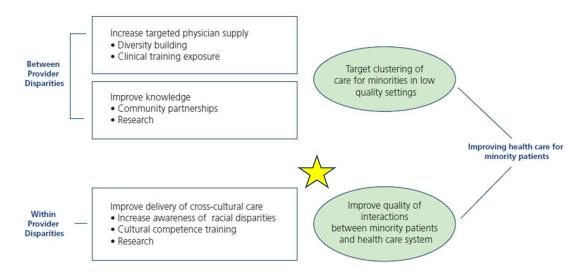
Michael Liu, M.Phil., Sahil Sandhu, M.Sc., and Alex S. Keuroghlian, M.D., M.P.H.

SGM people often have negative health experiences, e.g., 2015 national survey found that 23% of transgender adults avoid necessary health care because of mistreatment by providers, with higher rates in those who were also members of marginalized racial and ethnic groups

Addressing Racial Disparities in Health Care:

A Targeted Action Plan for Academic Medical Centers

Model of Academic Centers' Role in Addressing Health Care Disparities



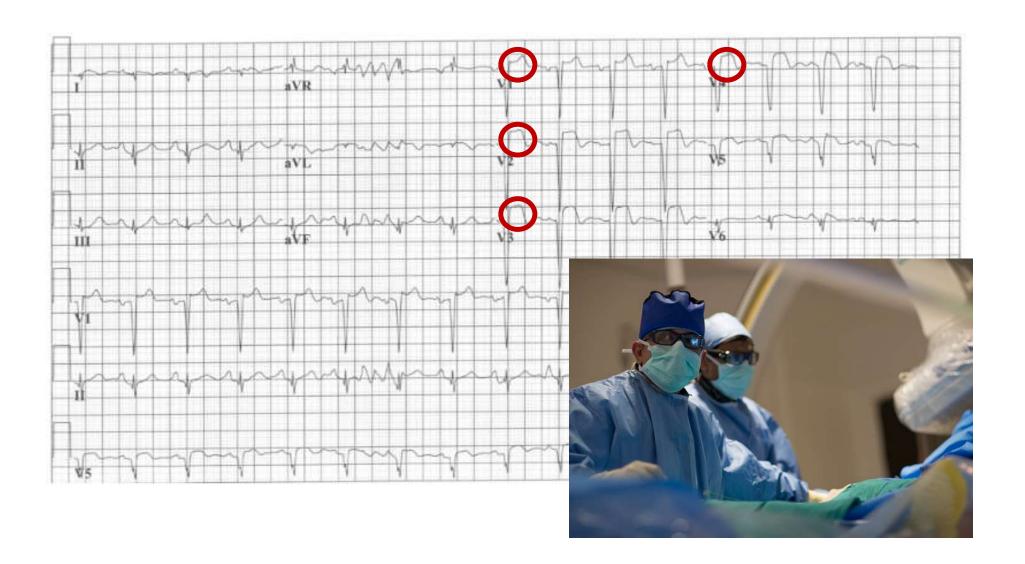
AAMC Addressing Racial Disparities in Health Care, 2009

Incorporating DEI-B Into Workflow

- Bias (use of race and language)
- Algorithms and Medical Devices
- Addressing Microaggressions

Stereotypes Prejudice

OResearch Rehavior F ent Hidden Ethnicity Preferences Gender



Thinking Fast (System # 1) - Intuitive

- Best used for quick decisions, where speed is more important than accuracy
- Uses heuristics
- Heuristics simplify information and allow for quick decisions

Makes sense when time is a factor or stakes are low.

BIAS!

Additional Triggers of Bias

- Ambiguous Evidence
- Emotional overload
- Cognitive overload
- Fear of threat
- Short on time



https://www.enactsolutions.com/ub/

How Clinicians Can be Biased



Use stereotypes to make clinical decisions



Differential weight of findings depending on patient history and appearance



Overt moral rationing



Unconscious behaviors affecting patient decisions, adherence, and satisfaction

Race and Ethnicity in Case Presentations

...and illness scripts, differential diagnoses, etc. First Impressions — Should We Include Race or Ethnicity at the Beginning of Clinical Case Presentations?

Allan S. Brett, M.D., and Christopher W. Goodman, M.D.

- Clinical Reasoning
- Formulation of Diagnostic Hypotheses
- Notes Historical Record
- Biologic probabilities relevant for hypotheses, diagnosis, and treatment
- Processing an individual patient's history and physical findings through the lens of race or ethnicity

Race and Ethnicity in Case Presentations

First Impressions — Should We Include Race or Ethnicity at the Beginning of Clinical Case Presentations?

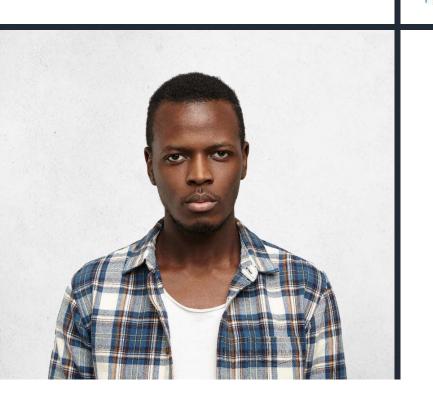
Allan S. Brett, M.D., and Christopher W. Goodman, M.D.

- Mistaken belief that race or ethnicity is a surrogate for genetic or innate biologic predisposition to disease
- Predisposes to premature diagnostic closure
- Conscious or unconscious demographic or cultural stereotyping

THE SCIENCE OF RESEARCH ON RACIAL/ETHNIC DISCRIMINATION AND HEALTH

Implicit Stereotyping and Medical Decisions: Unconscious Stereotype Activation in Practitioners' Thoughts About African Americans

Gordon B. Moskowitz, PhD, Jeff Stone, PhD, and Amanda Childs, MA



- Sickle Cell Anemia
- Sarcoidosis
- Obesity
- Illicit Drug Use

Clinical Pearls

- Race should be recorded in the social history, not in the opening sentence of the presentation or note
- Patient should self-identify their race or races
- Race should not be used as a proxy for genetic variation, social class, or other elements of the social history
- Clinicians should be mindful of the potential influence of racism in the clinical encounter

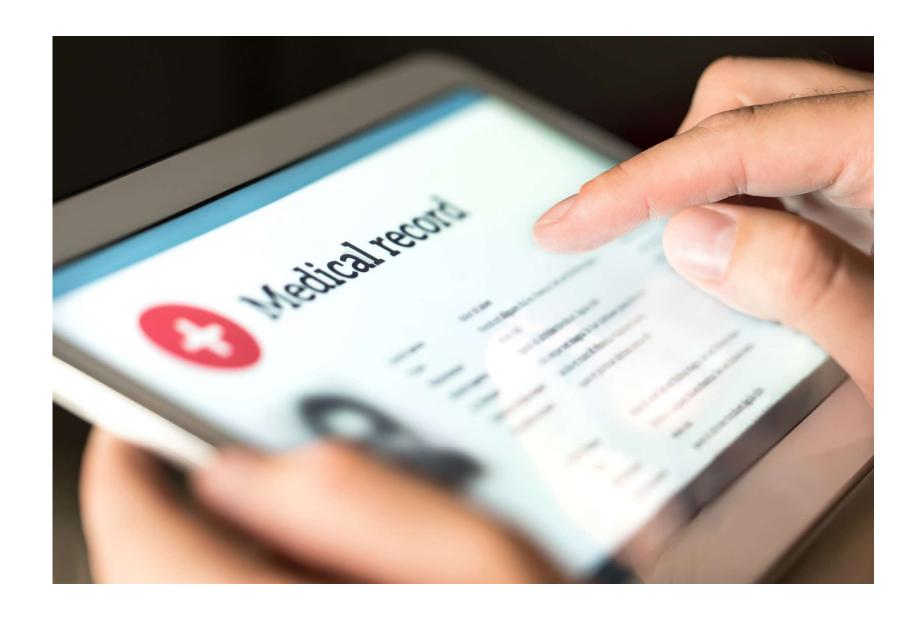
"The Role of Race in Clinical Presentations". Anderson et al. Fam Med. 2001. Jun, 33(6):430-4



Thinking Slow (System # 2) - Rational

- Proceeds with conscious effort
- Gives you good decisions but takes time
- Used for evaluating evidence
- Uses algorithms

Makes sense if you have lots of time and consequences for failure are high.



- One urban academic medical center
- Analyzed sample of 40,113
 History and Physical (H&P)
 notes from 18,459 patients
 for sentences containing a
 negative descriptor of the
 patient or patient's behavior,
 e.g., resistant, noncompliant
- Controlled for sociodemographic and health characteristics
- Compared with White patients, Black patients had a 2.54 times the odds of having at least one negative descriptor in the H&P notes

HEALTH EQUITY

By Michael Sun, Tomasz Oliwa, Monica E. Peek, and Elizabeth L. Tung

Negative Patient Descriptors: Documenting Racial Bias In The Electronic Health Record

DOI: 10.1377/hlthaff.2021.01423 HEALTH AFFAIRS 41, NO. 2 (2022): 203–211 This open access article is distributed in accordance with the terms of the Creative Commons Attribution (CC BY 4.0) license

Non-adherent Non-compliant Non-cooperative Aggressive Agitated Angry
Challenging
Combative
Confront
Defensive

Exaggerate Hysterical Unpleasant Refuse Resist

- Randomized vignette study of two chart notes employing stigmatizing versus neutral language to describe the same hypothetical patient, a 28-year-old man with sickle cell disease.
- Participants 413 physiciansin-training, medical students and residents in internal and emergency medicine programs at an urban academic medical center
- Response rate 54%
- Measures Attitudes towards hypothetical patients and Pain management decisions



Do Words Matter? Stigmatizing Language and the Transmission of Bias in the Medical Record

Anna P. Goddu, MSc¹, Katie J. O'Conor, BA¹, Sophie Lanzkron, MD, MHS², Mustapha O. Saheed, MD³, Somnath Saha, MD, MPH^{4,5}, Monica E. Peek, MD, MPH, MSc⁶, Carlton Haywood, Jr., PhD, MA², and Mary Catherine Beach, MD, MPH¹

"Neutral Language" Note

- 28-year-old man with Sickle Cell Disease
- Comes to ED with 10 out of 10 pain in arms and legs
- Typically requires opioid pain medications
- Pain not alleviated by his home med regimen
- Moved to a new apartment
- On PE, he is in distress
- PE normal other than TTP along left hip
- Girlfriend is by his side

"Stigmatizing Language" Note

- 28-year-old Sickle Cell Patient
- Comes to ED stating he has 10/10 pain "all up in my arms and legs"
- Narcotic dependent and in our ED frequently
- Pain not helped by narcotic medications
- Housing authority moved him to a new neighborhood
- On PE, he appears to be in distress
- He reports TTP along his left hip
- Girlfriend is lying on bed with shoes on, requesting bus token



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- Exposure to the stigmatizing language note was associated with more negative attitudes towards the patient (20.6 stigmatizing vs. 25.6 neutral, p < 0.001).
- Reading the stigmatizing language note was associated with less aggressive management of the patient's pain (5.56 stigmatizing vs. 6.22 neutral, p = 0.003).

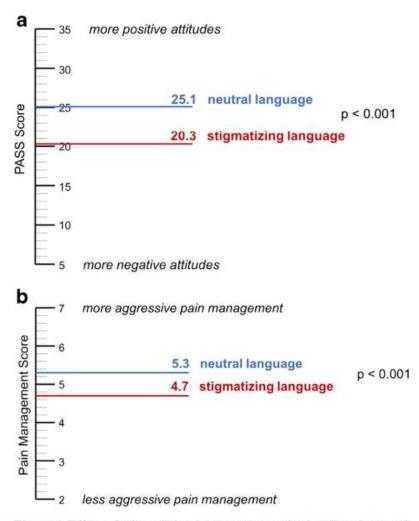


Figure 1 Effect of stigmatizing language on attitudes (Panel A) and on pain management (Panel B).

Testimonial Injustice: Linguistic Bias in the Medical Records of Black Patients and Women

Mary Catherine Beach, MD, MPH^{1,2,3,4}, Somnath Saha, MD, MPH^{2,5,6}, Jenny Park^{2,7}, Janiece Taylor, RN, PhD, FAAN⁸, Paul Drew, PhD⁹, Eve Plank¹⁰, Lisa A. Cooper, MD, MPH^{2,3,4}, and Brant Chee, PhD¹¹



- Content analysis of 600 clinic notes revealed 3 linguistic features suggesting disbelief:
 - Quotes, e.g., had a "reaction" to the medication
 - Specific judgement words,
 e.g., claims or insists
 - Evidentials
- Notes written about Black
 patients had higher odds of
 containing at least one quote and
 one judgement word and used
 more evidentials
- Notes about female patients had a higher odds ratio of containing at least one quote

Clinical Pearls

- Value judgements informed by feelings about a patient should not appear in the medical record
- Record data that are relevant and as objective as possible
- Recognize that using certain phrases (e.g., substance abuse vs. substance use), quotation marks, etc. opens the possibility for other clinicians to make or interpret judgement

Racialized Tools in Healthcare

Algorithms and Devices

The NEW ENGLAND JOURNAL of MEDICINE

MEDICINE AND SOCIETY

Debra Malina, Ph.D., Editor

Hidden in Plain Sight — Reconsidering the Use of Race Correction in Clinical Algorithms

Darshali A. Vyas, M.D., Leo G. Eisenstein, M.D., and David S. Jones, M.D., Ph.D.

JAMA Internal Medicine | Original Investigation

Racial and Ethnic Discrepancy in Pulse Oximetry and Delayed Identification of Treatment Eligibility Among Patients With COVID-19

Ashraf Fawzy, MD, MPH; Tianshi David Wu, MD, MHS; Kunbo Wang, MS; Matthew L. Robinson, MD; Jad Farha, MD; Amanda Bradke, MD, MA; Sherita H. Golden, MD, MHS; Yanxun Xu, PhD; Brian T. Garibaldi, MD, MEHP



- Retrospective cohort study of clinical data from 5 referral centers and community hospitals in the Johns Hopkins Health System
- Included patients with COVID-19 who self-identified as Asian, Black, Hispanic, or White
- Concurrent measurements (within 10 minutes) of oxygen saturation levels in arterial blood and by pulse ox
- Compared proportion of patients with occult hypoxemia (SaO2<88% with concurrent SpO2 of 92%-96%) by race and ethnicity

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- Occult hypoxemia occurred in 19
 Asian (30.2%), 136 Black (28.5%),
 and 64 non-Black Hispanic (29.8%)
 patients compared with 79 White
 patients (17.2%)
- Black patients had a 29% lower hazard and non-Black Hispanic patients had a 23% lower hazard of treatment eligibility recognition
- A total of 451 patients (23.7%) never had their treatment eligibility recognized, most of whom (54.8%) were Black
- Among the remaining 1452 patients (76.3%) who had eventual recognition of treatment eligibility, Black patients had a median delay of 1 hour longer than White patients

Clinical Science | April 2005

Effects of Skin Pigmentation on Pulse Oximeter Accuracy at Low Saturation FREE

Philip E. Bickler, M.D., Ph.D.; John R. Feiner, M.D.; John W. Severinghaus, M.D.

Anesthesiology April 2005, Vol. 102, 715-719.

https://doi.org/10.1097/00000542-200504000-00004

"In a carefully controlled <u>study</u> published in 2005, lab scientists compared readings from 11 darkly pigmented individuals and 10 lightly pigmented individuals at various oxygen levels. They found the devices read 1% higher for dark-skinned individuals at higher oxygen levels and an average of 3% higher at lower (and more dangerous) oxygen levels. Some readings read up to 8% higher, the authors noted, adding that the issue 'deserves attention and possible provision of correction factors, tables, or even built-in user-optional adjustments." – STAT News

ARTICLE: RESEARCH REPORT

Dark Skin Decreases the Accuracy of Pulse Oximeters at Low Oxygen Saturation: The Effects of Oximeter Probe Type and Gender

Feiner, John R. MD; Severinghaus, John W. MD; Bickler, Philip E. MD, PhD

Author Information (9)

Anesthesia & Analgesia 105(6):p S18-S23, December 2007. | DOI: 10.1213/01.ane.0000285988.35174.d9

FREE



The data suggest that clinically important bias should be considered when monitoring patients with saturations below 80%, especially those with darkly pigmented skin; but further study is needed to confirm these observations in the relevant populations. "The information remained largely unnoticed. Why wasn't this issue, that literally affects a majority of the world's population, more widely known? For one thing, the studies were largely published within the journals of one medical specialty, anesthesiology, and never reached a wider audience. Looking back, many now think that disinterest was a clear example of structural racism in medicine. 'It speaks to the fact that some scientific knowledge is not prioritized. And this was not,' said Sjoding." – STAT News

The FDA currently requires studies involving medical devices to include at least two people, or at least 15% of subjects, with darker skin.



Racial Differences in Detection of Fever Using Temporal vs Oral Temperature Measurements in Hospitalized Patients

Sivasubramanium V Bhavani ¹, Zanthia Wiley ¹, Philip A Verhoef ², Craig M Coopersmith ³, Ighovwerha Ofotokun ¹

Clinical Pearls

Questions we should be asking:

- Do we have any data suggesting the equipment we are using may be inaccurate?
- How will this impact clinical decision making?
- Will using this device relieve or exacerbate health inequities?
- How do we advocate for changes, including increased representation in device testing and other studies?

Incorporating DEI-B Into Workflow

Inclusion and Belonging in Work Environments





Microaggressions:

Everyday, subtle, intentional or unintentional interactions or behaviors that communicate some sort of bias toward historically marginalized groups.

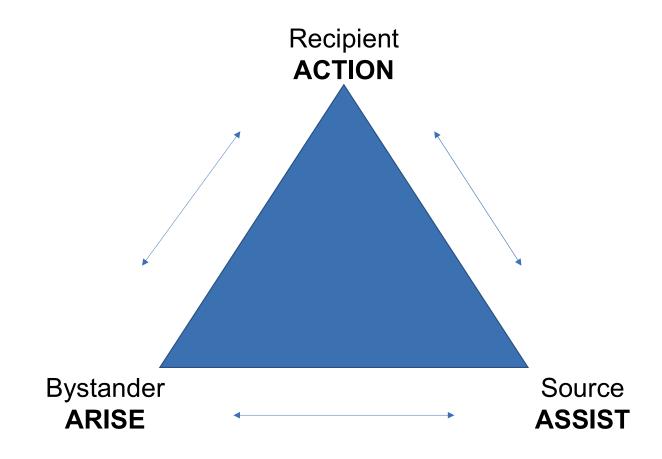
ON OUR SLEEVES

Microassault Microinsult Microinvalidation

Upstander

A person who speaks or acts in support of an individual or a cause, particularly someone who intervenes on behalf of a person being attacked or bullied.

- Stands Up
- Combats
- Works to make it right
- Acts



Recipient **ACTION**

- Ask a clarifying question
- Come from curiosity, not judgement
- Tell what you observed in a factual manner
- Impact exploration
- Own your thoughts and feelings about the subject
- Next steps

Source **ASSIST**

- Acknowledge your bias
- **S**eek feedback
- **S**ay you are sorry
- Impact, not intent
- **S**ay:
- Thank You

Bystander **ARISE**

- Awareness
- Respond with empathy and avoidance of judgement
- Inquiry
- Statements that start with "I"
- Educate and engage



Approaches for Residents to Address Problematic Behavior: Before, During, and After the Clinical Encounter. Shankar, et al.

Approaches to Address Problematic Behaviors





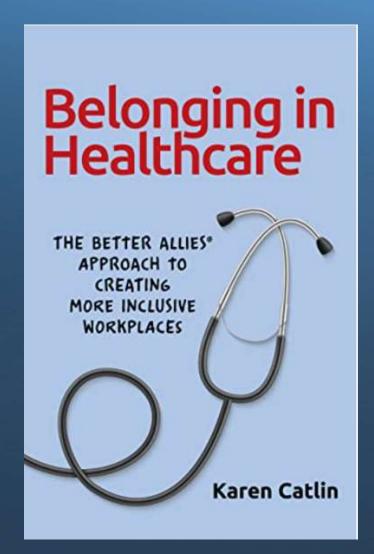
Before the Encounter: Reflecting **For** Action



During the Encounter: Reflecting <u>In</u> Action

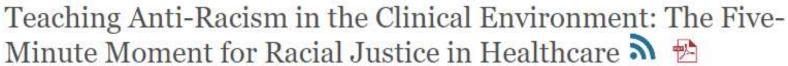


After the Encounter: Reflection **On** Action



The Upstander
The Sponsor
The Amplifier
The Advocate
The Confidant

FULL TEXT ARTICLE



Article in Press: Accepted Manuscript

Samantha XY Wang, Kevin Chi, Megha Shankar, Sonoo Thadaney Israni, Abraham Verghese and Donna M. Zulman American Journal of Medicine, The, Copyright © 2022

Clinical Significance

- Radical transformation of the medical education landscape is needed to disrupt structural racism in healthcare.
- Many practicing physicians are unaware of the present-day practices that perpetuate racial bias and contribute to healthcare disparities.
- A structured framework on how to teach this expansive topic in the clinical learning environment can be an effective way to engage learners in real-time as they encounter teachable moments with patients.

Teaching Antiracism in the Clinical Environment



CONTEXT



CURRENT STANDARDS



HISTORICAL NARRATIVE



DISPARITIES AND REALITIES



STEPS TO EQUITY

Overcoming Barriers

Engage Leadership Early Form DEI-B Committees Expand knowledge



INCLUSION

DIVERSITY

EQUITY

IDENTITY

Utilize Resources

- Offices of Diversity, Equity, and Inclusion
- Offices of Equity
- Offices of Disability, Access, and Inclusion
- AAMC
- ACGME Equity Matters
- AIM Equity Matters

Take-Home Points

While there are challenges related to DEI-B in our healthcare systems and environments, we can overcome them by:

- Actively working to mitigate bias in our daily work, e.g., avoiding stigmatizing language in documentation and communications, slowing down, utilizing race appropriately in clinical reasoning
- Learning about and educating others about DEI-B
- Being upstanders
- Slowing down!

