

## Thank You Team!

We would like to sincerely thank the following:

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# Faculty Development: Teaching Implicit Bias Before the Diagnostic Process

Key Concepts to Prepare Faculty Before Teaching Learners

## **Faculty Development**

- Support and training provided to health professions educators
- To Enhance skills:
  - Teaching
  - Assessment
  - Curriculum design
  - Leadership
  - Scholarship
- ensuring high-quality learning environments and patient care



# **ACGME Educator Milestones**

Universal Pillar 3: Recog	gnition and Mitigation of E	Bias		
Level 1  Identifies common and complex biases to effective education and patient care (e.g., language, disability,	Level 2 Proactively seeks to assess and reflect on one's personal biases, both explicit and implicit	Level 3 Identifies strategies to mitigate the effects of bias on effective education and patient care	Level 4  Addresses personal biases and proactively mitigates the effects of personal bias in effective education	Level 5 Mentors others on recognition and mitigation of bias
cultural differences, internalized oppression)			and patient care	
Comments:			Not Yet Co	ompleted Level 1

## Why Faculty Development on Diagnostic Excellence Matters?

- Diagnostic inequities impact marginalized populations
- Implicit bias contributes to diagnostic errors and delays
- Faculty must train learners to recognize and mitigate bias

## **Key Learning Objectives:**

- 1. Recognize how bias affects diagnostic reasoning
- 2. Understand Type 1 & Type 2 thinking and premature closure
- 3. Apply the 12 Tips to faculty training on implicit bias

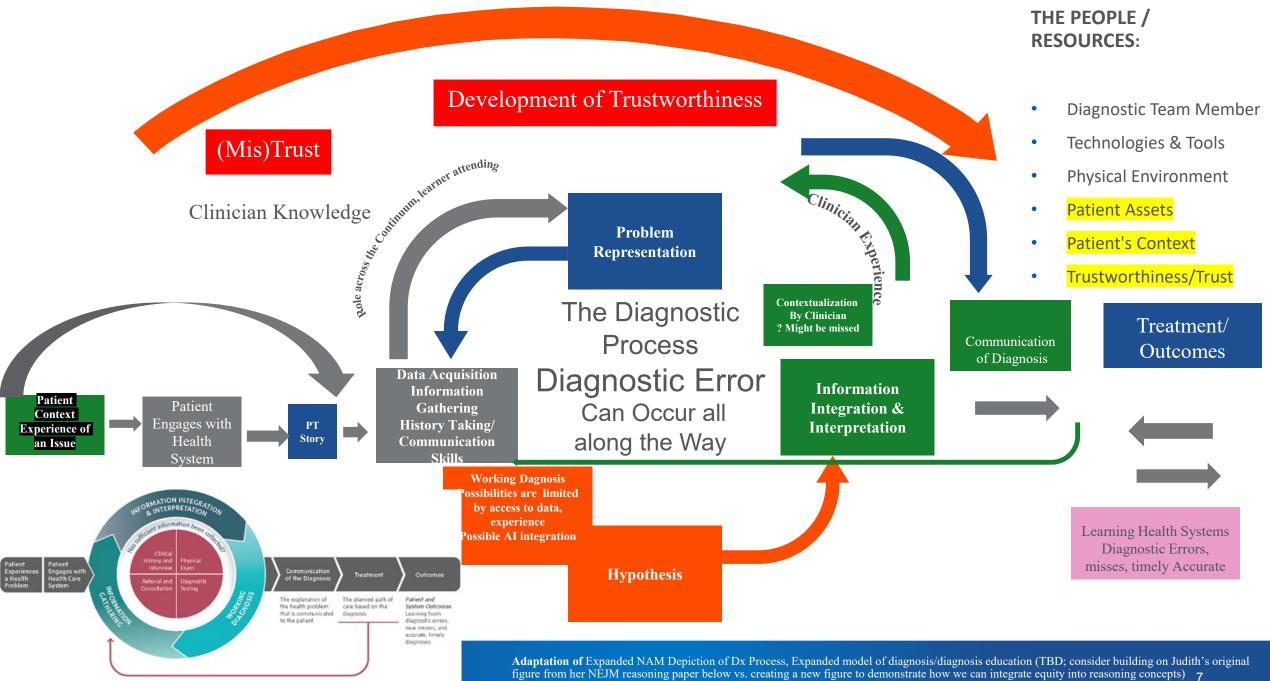


figure from her NEJM reasoning paper below vs. creating a new figure to demonstrate how we can integrate equity into reasoning concepts) 7
Added trustworthiness (ref) Contextualization of care ( wiener to the model as well, pt Asetts

# **Implicit Bias: Type 1 and Type 2 Thinking**

- Type 1 (Fast, Intuitive, Unconscious)
  - Influences rapid decisions, potential for bias.
- Type 2 (Slow, Analytical, Conscious)
  - Allows reflection, bias mitigation.
- Balancing both improves clinical decisionmaking and diagnostic equity.

Faculty Role:
Train learners to recognize when to slow down and engage Type 2
Thinking



# Teaching Learners to Slow Down and Expand the Differential

- Explicitly Teach Bias Recognition Use case-based learning.
- Train Learners in Structured Diagnostic Thinking e.g. checklists.
- Encourage Reflection:
  - If I feel confident too soon, list three more differentials.
  - Would my diagnosis change if this patient were a different race, gender, or background?

### Faculty should teach learners to:

- 1. Consider alternative diagnoses (e.g., heart failure, PE).
- 2. Use decision-support tools instead of assumptions.
- 3. Engage Type 2 Thinking and slow down.



# An Example: Premature Closure – A Key Contributor to Diagnostic Inequities

- Definition: Accepting a diagnosis too early without full consideration of alternatives.
- Why it Happens:
  - Cognitive ease The diagnosis 'feels' right.
  - Confirmation bias Ignoring conflicting data.
  - Stereotypes Making assumptions about certain patient groups.

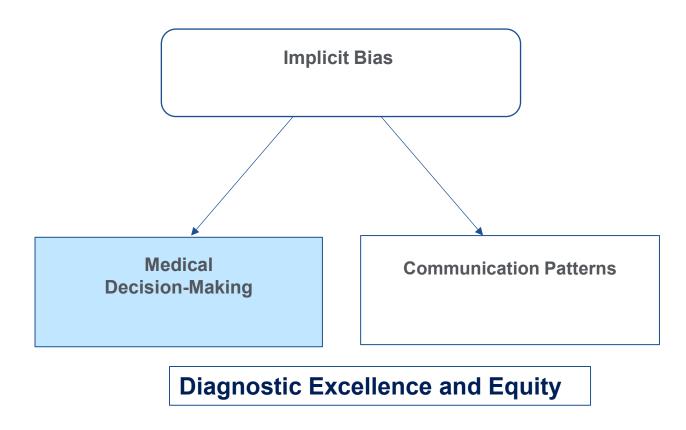
Example: A Hispanic woman with fatigue, cold intolerance and weight loss is diagnosed with anxiety instead of being tested for thyroid dysfunction.

Faculty Teaching Strategy:

Ask learners: - Why was ethnicity mentioned in the ID statement, should it have been? Did adding the gender limit our abilities to diagnosis?

What else could this be? Are we missing something?\*

# Implicit Bias Contributes to Health Disparities



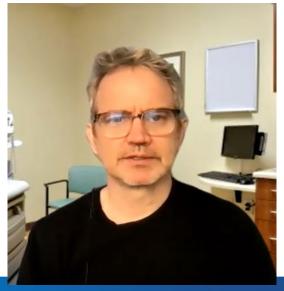
Zestcott et al. Group Processes & Intergroup Relations 19(4) (2016) 528-542.

# Mr. Richard Grant: 52yo M p/w N/V and epigastric pain

Same Patient/characteristics

Different Race





Standardized patients playing Mr. Richard Grant

Query: Implicit Bias Showing 1 of 1 new projects:						
Project Number	Subproject	Project Title	Contact PI / Project Leader			
1K23MD014178- 01		DOES IMPLICIT BIAS INFLUENCE MEDICAL DECISION- MAKING? DEVELOPING AND VALIDATING NOVEL MODELS AND OUTCOME METRICS	GONZALEZ, CRISTINA M			

#### View results in MyRePORTER

Gonzalez CM, et al. It Can Be Done! A Skills-Based Elective in Implicit Bias Recognition and Management for Preclinical Medical Students. Acad Med 2020;95:S150-S5.

Sukhera J, Watling CJ, Gonzalez CM. Implicit Bias in Health Professions: From Recognition to Transformation. Acad Med 2020;95:717-23.



## Education / Assessment / Feedback: Communication Skills Patient Cues

 What verbal and nonverbal cues did you notice in this patient?

- Identify verbal and nonverbal <u>physician</u>
   communication that can be perceived as bias by the patient
- Why might poor communication skills have a disproportionately bad impact on the diagnostic process for racially minoritized patients?

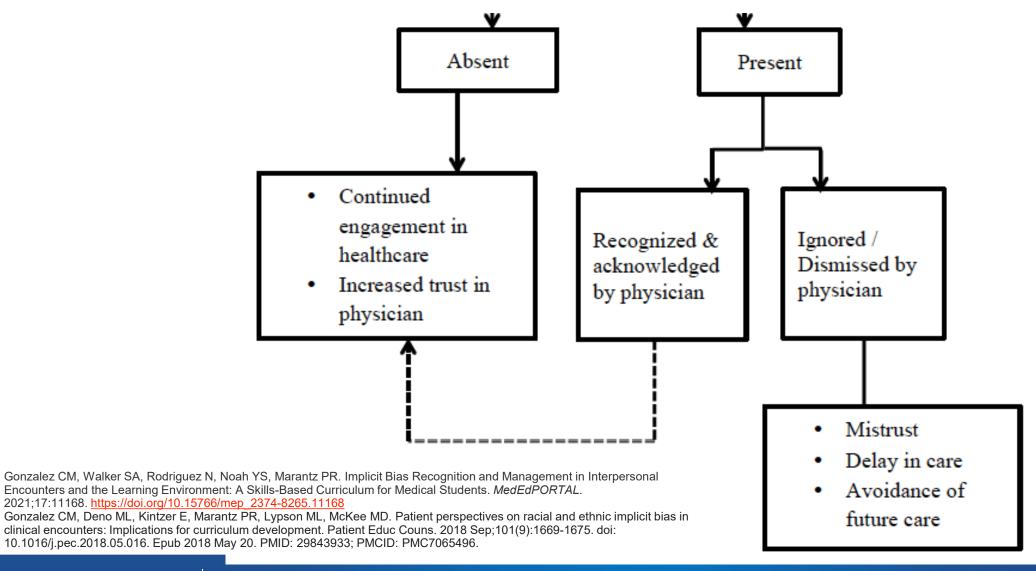
What type of patient cues do physicians often miss?

 What are the potential consequences to the patient's perception of the physician's communication abilities based on missed cues?

## Advice ...?

- How can physicians restore rapport?
- What to do during an interruption?

## Restoring Rapport to Optimize Problem Representation



## The 12 Tips for Teaching Faculty About Bias in Diagnosis

How Faculty Should Be Trained Before Teaching Learners:

- 1. Create a Safe Learning Environment.
- 2. Flatten the Hierarchy Encourage open dialogue.
- 3. Normalize Bias While Reducing Self-Blame.
- 4. Integrate the Science of Bias Teach Type 1 vs. Type 2 Thinking.
- 5. Create Activities That Embrace Discomfort Use case-based learning.
- 6. Encourage Critical Reflection Question assumptions.
- 7. Explore Structural & Institutional Biases.
- 8. Use Perspective-Taking Incorporate patient narratives.
- 9. Skill-Building Exercises Practice bias mitigation strategies.
- 10. Reinforce Bias Recognition as Lifelong Learning.
- 11. Include Formative & Summative Assessments.
- 12. Secure Leadership Support Advocate for system-wide change.

#### Implicit Bias Recognition and Management

- A skills-based instructional approach that moves learners beyond awareness to actual skill development and practice to mitigate the negative influence of bias in a clinical encounter (or any interpersonal

  - Provides opportunities for skill development and practice to manage the impact of implicit bias and achieve communication behaviors or decision making in line with the individuals conscious, egalitarian values.

Sukhera J., Walling C.J., Gonzalez C.M. Implicit Blas in Health Professions: From Recognition to Transformation. Acad Med 2020;5:217-23.



# Faculty Action Item: Train "BEFORE" teaching learners about bias in diagnosis.

## Faculty Development Strategies to Address Bias in Diagnostic Thinking

Sustainabilty: Hardwiring these practices into the educational process as well as in the E.H.R, with checklist and AI protocols – REWARD Faculty

Consider Diagnostic
Excellence in Promotion –
Quality Safety Tracks / Clinical
Care Tracks and Others

Strategy	Goal	Example Implementation
Cognitive Forcing Strategies	Recognize context where Type 2 thinking is needed	Use "If-Then" or "alternative scenario" rules to counteract bias
Bias Checklists	Promote structured equity in diagnosis	Faculty review cases using an equity checklist
Implicit Bias Training	Increase faculty skills in addressing of how bias affects Type 1 thinking	Use the IAT, simulation and role-playing exercises
Case-Based Learning	Teach deliberate, slow reasoning in diverse cases	Use structured reflection questions
Simulation Training	Provide experiential learning in debiasing	<b>Al-driven</b> patient cases with bias feedback
Institutional Policy Changes	Align faculty teaching with equity goals	Update EHR protocols & faculty promotion criteria

## What You Can Do Tomorrow on the Wards / in Clinic

### Prompt Learners to Slow Down

- Ask: \*What else could this be? Are we missing something?\*
- Use \*\*'If-Then' Cognitive Forcing Strategies\*\* (e.g., \*If I feel confident too soon, I must list 3 more differentials.\*)

### Challenge Assumptions in Case Discussions

- Ask: \*Would our differential change if this patient had a different background?\*
- Encourage structured reasoning instead of gut instinct

### Model Bias-Aware Diagnostic Thinking

- Share examples of "how bias influences diagnosis"
- Discuss Type 1 vs. Type 2 Thinking in real-time

### Use the 12 Tips for Teaching Bias in Diagnosis

- Foster Safe learning environments for discussing diagnostic errors
- Normalize bias as a cognitive process, not a character flaw



Small changes in how we teach diagnostic reasoning can create a lasting impact on patient care equity!

# Summary & Call to Action

\*\*Key Takeaways for Faculty Development:\*\*

- ✓ Bias impacts diagnosis faculty must be trained before teaching learners.
- ✓ Type 1 Thinking can lead to diagnostic shortcuts and premature closure.
- ✓ Type 2 Thinking and the 12 Tips help mitigate bias.
- ✓ Faculty should promote structured reasoning and reflective practice.



- Develop faculty workshops on addressing implicit bias in diagnostic reasoning.
- Implement real-time feedback on bias addressing skills during clinical teaching.
- Advocate for institutional change to promote diagnostic equity.

