Eliminating Race-Based Medicine: Policy Implementation and Practice Implications

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FACULTY DISCLOSURE INFORMATION

 In the past 12 months, I have not had a significant financial interest or other relationship with the manufacturer(s) of the products or provider(s) of the services that will be discussed in my presentation.

 This presentation will not include discussion of pharmaceuticals or devices that have not been approved by the FDA.



CONTEXT FOR PERSPECTIVE — PROFESSIONAL JOURNEY

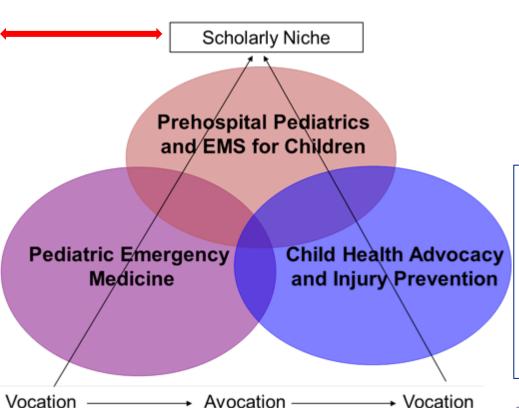
Part VIII. Emergency Medicine and Critical Care **Emergency Medical** 79 Services for Children Joseph L. Wright Steven E. Krug Keywords disaster preparedness. · emergency department EMSC EMT ground transport medical air transport medical control paramedic prehospital care readiness regionalization The overwhelming majority of the 27 million children who present annually for

Wright J. Nelson Textbook of Pediatrics, 19th, 20th and 21st editions,

emergency care in the United States are seen at community hospital emergency departments (EDs), Visits to children's hospital EDs account for just 10% of initial

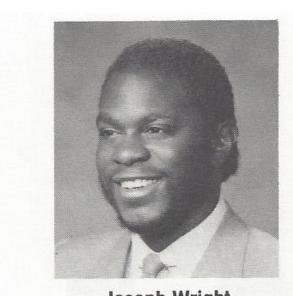
emergency care encounters. This distribution suggests that the greatest opportunity to

Philadelphia: Elsevier, 2011, 2015, 2019

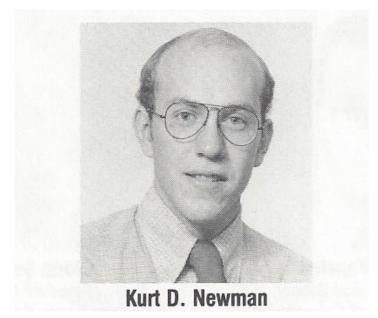


- Health Equity
- Career
 Development
- Faculty Sponsorship





Joseph Wright
M.D., Rutgers New Jersey
Medical School



M.D., Duke University Residency, Peter Bent Brigham Hospital

INSTITUTIONAL LEADERSHIP MATTERS: CHILDREN'S NATIONAL ALUM



Harolyn M.E. Belcher, MD, MHS
Vice President and
Chief Diversity Officer
Kennedy Krieger Institute



Helene D. Gayle, MD, MPH President Spelman College



Roderick K. King, MD, MPH Senior Vice President and Chief Diversity & Inclusion Officer Univ of Maryland Medical System



Maria E. Trent, MD, MPH Associate Dean for Diversity and Inclusion Johns Hopkins



POLICY LEADERSHIP MATTERS: CNH COMMUNITY HEALTH TRACK ALUM



Tiffani Johnson, MD, MSc University of California Davis

Prepublication Release

PEDIATRICS

OFFICIAL JOURNAL OF THE AMERICAN ACADEMY OF PEDIATRICS

Eliminating Race-Based Medicine

Joseph L. Wright, MD, MPH, FAAP, Wendy S. Davis, MD, FAAP, Madeline M. Joseph, MD, FAAP, Angela M. Ellison, MD, MSc, FAAP, Nia J. Heard-Garris, MD, MSc, FAAP, Tiffani L. Johnson, MD, MSc, FAAP,



Nia Heard-Garris, MD, MSc Northwestern/Lurie Children's

Pediatrics 2022;150(1):e2022057998







Aisha Barber, MD, MEd
Director
Pediatric Residency Program

MEDICAL EDUCATION LEADERSHIP MATTERS

Factors That Influence the Choice of Academic Pediatrics by Underrepresented Minorities

OBJECTIVES: Our objective for this study was to explore the experiences of faculty in academic pediatrics who are underrepresented minorities (URMs) at 2 urban medical centers, in particular, the experiences that influenced their pursuit of academic pediatrics.

METHODS: Three focus groups were conducted in 2016 with URM faculty from Howard University College of Medicine and Children's National Health System to explore how they were influenced to pursue academic pediatrics. Ten 1-on-1 interviews were also conducted in 2017 with URM faculty at Children's National Health System. Focus groups were coded and analyzed by the research team using standard qualitative methods. The 1-on-1 interviews were coded and analyzed by the primary investigator and verified by members of the research team.

RESULTS: A total of 25 faculty participated in the study (15 in the focus groups and 10 in individual interviews). Eighteen of the faculty were women and 7 were men. Findings revealed that mentorship, family, and community influenced participants' career choices. Barriers for URMs in academic pediatrics included (1) lack of other URMs in leadership positions, (2) few URMs practicing academic pediatrics, and (3) the impact of racism and gender and implicit bias in the medical field.

CONCLUSIONS: Mentorship and family are major influences on why URMs become academic pediatricians. Lack of URMs in leadership positions, racism, gender bias, and implicit bias are barriers for URMs in academic pediatrics. More research should be conducted on ways to enhance the experience of URMs and to reduce barriers in academia.

abstract



Gabrina Dixon, MD, MEd
Director, Advancing Diversity in
Academic Pediatrics

Pediatrics 2019;144:e20182759



CURRENT CONTEXT

 American Academy of Pediatrics (AAP) Board of Directors, At Large Member

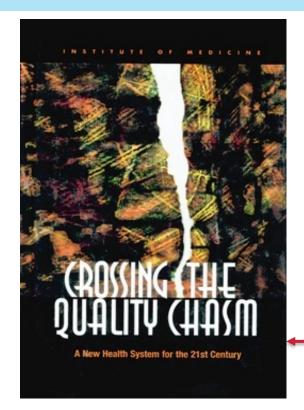
Chair, AAP Board Committee on Equity



CONGRATULATIONS DR. JOELLE SIMPSON!!

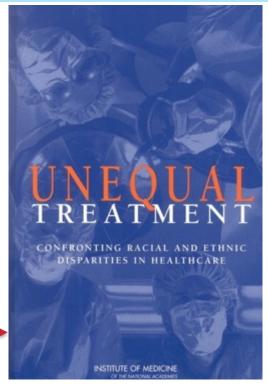


 Elected last month to at-large AAP Board of Directors seat; term begins 1/1/23



QUALITY CARE

Safe
Effective
Patient-centered
Timely
Efficient
Equitable



Committee on Quality of Health Care in America. Institute of Medicine, **2001**

Committee on Understanding and Eliminating Racial and Ethnic Disparities in Health Care. Institute of Medicine, **2002**

ACCREDITATION AND REGULATORY ENVIRONMENT



Joint Commission tackles health equity with new accreditation standards

Published Aug. 15, 2022



Methodology:

U.S. News & World Report Best Children's Hospitals 2021-22 CMS Innovation Center Launches New Initiative To Advance <u>Health Equity</u>

Dora Lynn Hughes

MARCH 3, 2022 DOI: 10.1377/forefront.20220302.855616



Education in Quality Improvement

A cohesive model of health care includes qualityrelated goals, tools, and techniques that are necessary in order for health care professionals to achieve quality improvement goals.

Residents must receive training and experience in quality improvement processes, including an understanding of health care disparities. (Core)



Trends of Racial/Ethnic Disparities in Pediatric Central Line–Associated Bloodstream Infections

Brittany L. Willer, MD,^a Joseph D. Tobias, MD,^a Markita L. Suttle, MD,^b Olubukola O. Nafiu, MD, FRCA, MS,^a Christian Mpody, MD, PhD, MPH, MBA^a

- 5-year retrospective study of children < 18 years admitted to ED/inpatient ward (PHIS database); primary outcome = risk adjusted CLABSI rates
- A total of > 225,000 children in the study
- What we learn about minority children, compared to non-minority children:
 - Overall improvement in CLABSI rates over the course of the study
 - Black children: consistently higher CLABSI rates (relative risk [RR], 1.27; 95% confidence interval [CI], 1.17–1.37; P < .01)
 - Hispanic children: consistently higher CLABSI rates (RR, 1.16; 95% CI, 1.08–1.26; P < .01)
- Concerns arise for access to equitable care, and bias in nursing and clinical care.



IMPORTANT LEVEL SET

- The work of advancing equity and anti-racism is necessarily iterative and incremental. It requires commitment, courage, humility, introspection, and resolve.
- This is uncharted territory and moving forward can feel challenging, disruptive, frustrating and polarizing.
- We can't expect to immediately have all the answers. We're at unique places on our individual journeys and must embrace the opportunity to learn from our collective fits and starts.









- Head
- Logic
- Data
- Facts



- Fairness
- Justice
- Meaning

Heart

Adapted from N. Burke CommonHealth Action

Learning Objectives:

ELIMINATING RACE-BASED MEDICINE

Recognize the fallacy of race as a biologic proxy.

- Identify inequities embedded in practice guidelines.
- Define the pathway for moving from race-based to race-conscious medicine

POLICY STATEMENT

Organizational Principles to Guide and Define the Child Health Care System and/or Improve the Health of all Children

American Academy of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDRE

Eliminating Race-Based Medicine

Joseph L. Wright, MD, MPH, FAAP, Wendy S. Davis, MD, FAAP, Madeline M. Joseph, MD, FAAP, Angela M. Ellison, MD, MSc, FAAP, Tiffani L. Johnson, MD, MSc, FAAP, and the AAP Board Committee on Equity

Pediatrics 2022;150(1):e2022057998



Elimination of race-based medicine: a call to action

In a recently published American Academy of Pediatrics (AAP) policy statement1 on eliminating race-based medicine, the authors write about "...the elimination of race-based medicine as part of a broader commitment to dismantle the structural and systemic inequities that lead to racial health disparities". In this, we hear a cry for action. Extensive research and dialogue reaffirms the fact that race is a sociopolitical construct. Racism is a risk factor, induces trauma and epigenetic changes, and

Bell S, Falusi O, Lindo E.

Lancet Child Adolesc Health.

Addressing these inaccuracies will require a methodical approach to educating current and future clinicians and researchers. A comprehensive strategy to educate the next generation of the health-care workforce should begin with re-examining early childhood Lancet Child Adolesc Health 2022 education and parental education, given research suggests that infants show preference for particular skin colours at as early as 3 months of age.6 Within



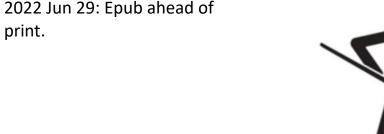


Published Online https://doi.org/10.1016/ \$2352-4642(22)00166-3

remove race-based calculations in clinical guidelines.

ELIMINATING RACE-BASED MEDICINE

Skate to Where the Puck Is Going



ELIMINATING RACE-BASED MEDICINE

Presentation Outline

- > Truth
 - What are we talking about?
 - How did we get here?
- > Reconciliation
 - Why is this important?
- > Transformation
 - What is the task at hand?

POLICY STATEMENT on

Organizational Principles to Guide and Define the Child Health Care System and/or Improve the Health of all Children

American Academy of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN

Truth, Reconciliation, and Transformation: Continuing on the Path to Equity

American Academy of Pediatrics Board of Directors

Pediatrics 2020;146(3):e2020019794



Eliminating Race-Based Medicine: Truth - What are we talking about?

> Assumptions vs. Reality

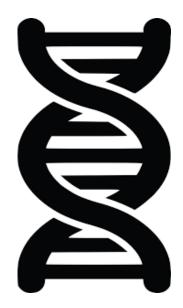


TRUTH: FLAWED ASSUMPTIONS

Race is a biologic category

 Race is a construct for genetic difference

 Equivalency between genes that determine race and health



TRUTH: REALITY

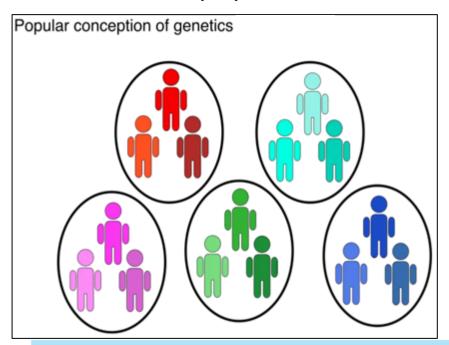
Race is a not a biologic category based on innate differences. Rather, it is a social construct that reflects differential and often inequitable lived experiences and should not be used as a biologic proxy for disparities.

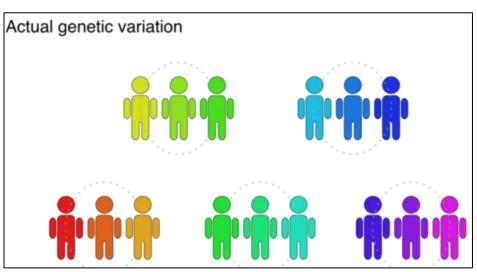




TRUTH: RACE, ANCESTRY, AND GENETIC VARIATION

The greatest fraction of genetic diversity is found <u>within</u> populations, rather than <u>between</u> them.





Adapted from: https://sitn.hms.harvard.edu/flash/2017/science-genetics-reshaping-race-debate-21st-century



 We share 99.9% of DNA with one another; only 0.1% varies between individuals.

 Stratification based on the minute portion of that 0.1% variation responsible for the phenotype of skin color has been used throughout history to justify a belief in human hierarchy.

TRUTH: BOTTOM LINE

Courtesy: Child Health Advocacy Institute, Children's National Hospital





RACE-BASED MEDICINE

Inappropriate use of race as a corrective, risk-adjusting, or dichotomizing variable in algorithms, practice guidelines, or policies that influence the clinical decision-making process.



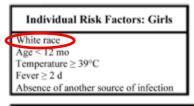


PEDIATRIC URINARY TRACT INFECTION

CLINICAL PRACTICE GUIDELINE

Urinary Tract Infection: Clinical Practice Guideline for the Diagnosis and Management of the Initial UTI in Febrile Infants and Children 2 to 24 Months

Pediatrics 2011;128(3):595 reaffirmed 2016



Probability of UTI	No. of Factors Present
≤1%	No more than 1
≤2%	No more than 2

Individual Risk Factors: Boys												
Nonblack race												
Temperature ≥ 39°	C											
Fever > 24 h												
Absence of anothe	r source of infection											

Probability	No. of Factors Present									
of UTI	Uncircumcised	Circumcised								
≤1%	a	No more than 2								
≤2%	None	No more than 3								

FIGURE 2

Probability of UTI Among Febrile Infant Girls²⁸ and Infant Boys³⁰ According to Number of Findings Present. Probability of UTI exceeds 1% even with no risk factors other than being uncircumcised.

Probability of UTI based on clinical characteristics
Enter child's clinical characteristics below (all fields are required)
Age < 12 months
○ Yes ○ No
Maximum temperature ≥ 39 °C (i.e., 102.2 °F)
○ Yes ○ No
Self describes race as black
Yes No
Female or uncircumcised male
○ Yes ○ No
Other fever source*
○ Yes ○ No
Probability of UTI
-
Calculate Clear



RACE ASSIGNMENT IS BINARY - OUR PATIENTS ARE NOT



Dr Nathan Chomilo

Executive Committee Member

AAP Section on Minority

Health, Equity, and Inclusion

 "I often use my own example of being a biracial Black man. My father's family is from Cameroon and my mother's family is from Norway. Are you going to assign my lungs or kidneys to my mom's side or my dad's side? That's not at all clear in the way that we use race in medicine."

- How Racist is Your Algorithm? Medscape, July 1, 2022



Eliminating Race-Based Medicine: <u>Truth</u> - How did we get here?

- Historical Transgressions
- American Academy of Pediatrics Equity Journey



ROOTS OF RACE-BASED MEDICINE

 "On the dysfunction of the pulmonary apparatus in Blacks...among the real distinctions which nature has made is a lack of lung capacity."

- Thomas Jefferson, 1781

Library of Congress

Notes on the state of Virginia.

582 382

NOTES ON THE STATE OF VIRGINIA.

BY THOMAS JEFFERSON.

LC

BOSTON: PUBLISHED BY LILLY AND WAIT.

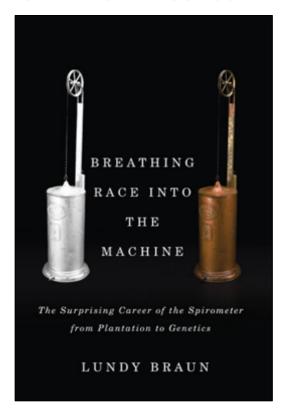
https://www.loc.gov/item/03004902/.pdf



PSEUDOSCIENCE OF RACE NORMING IN LUNG FUNCTION ASSESSMENT

- "Lung capacity in the Negro is 20% deficient...because small lungs prevent Blacks from inhaling enough air forced labor is a way to vitalize the blood and correct the problem."
 - Dr. Samuel Cartwright, 1851

Cartwright SA. Report on the diseases and physical peculiarities of the negro race. *New Orleans Medical and Surgical Journal*. 1851;VII:692-713.



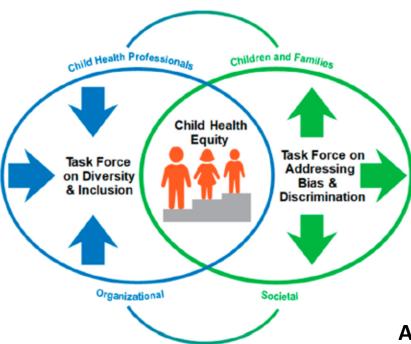
Braun L. Race correction and spirometry: Why history matters. *Chest.* 2021;159:1670.

Eliminating Race-Based Medicine: <u>Truth</u> - How did we get here?

- Historical Transgressions
- > American Academy of Pediatrics Equity Journey



AAP EQUITY JOURNEY





AAP Task Force on Addressing Bias & Discrimination



PATH TO EQUITY AND ANTI-RACISM

Pediatricians must be equipped with knowledge, skills, and resources needed to create equitable systems of care and ultimately optimal health for all children.



https://services.aap.org/en/about-the-aap/american-academy-of-pediatrics-equity-and-inclusion-efforts/aap-equity-agenda



EQUITY AND ANTI-RACISM RESOURCES

Three-hour program free to AAP members helps equip pediatricians to advance child equity by applying an anti-racist lens to systems that shape health and medicine







Words Matter

Guidance on Inclusive, Anti-biased Language

Words Matter: AAP Caldance on Inclusive, Anti-biased Language
The AAP monages the rate of inclusive, are based in apage on glight on publications and communications as or other terrolities of months has, and other terrolities and all premite interegins. The rate of a contract terrolities are an all premite interegins. The rate of a contract terrolities are all premite interegins. The rate of a contract terrolities are all premite interegins to the contract terrolities are all premite interests and according to the specimen are premite interests. According to the premite interests are all premite interests and according to the specimen and according to the premite interests and according to the premite interests and according to the premite interests and according to the premite interests. According to the premite interests are all the premite interests and the pre

"...not only do words matter but so does context – both social and situational. It is important to note that words do not exist in a vacuum. They are contextualized by history, politics, social position, geography, and other variables.

Recognizing that these factors are

dynamic, so too is language."

con any decorated and book

- General Considerations
- Be as specific as possible when referring to groups or subspects. Specificity provides clurity and avoid
- multiple interpretations or misinterpretations.
- Use terms like "vulnerable," and "marginalized" sparingly as general descriptors. They can obscure
 measuring, for example, instead of using "vulnerable" consider using "people experiencing barriers or

American Academy of Pediatrics

https://shop.aap.org/fighting-racism-to-advance-child-health-equity/

EQUITY AND ANTI-RACISM — AN EMERGING CORE COMPETENCY



Entrustable Professional Activities EPA 14 for General Pediatrics

EPA 14: Use Population Health Strategies and Quality Improvement Methods to Promote Health and Address Racism, Discrimination, and Other Contributors to Inequities Among Pediatric Populations

An Entrustable Professional Activity Addressing Racism and Pediatric Health Inequities

Ndidi I. Unaka, MD, MEd,^{a,b} Ariel Winn, MD,^{c,d} Adiaha Spinks-Franklin, MD, MPH,^e Patricia Poitevien, MD, MSc,^f Franklin Trimm, MD,^g Brenda J. Nuncio Lujano, MS,^h David A. Turner, MD^h

Pediatrics. 2022 Feb 1;149(2):e2021054604

EQUITY AND ANTI-RACISM RESOURCES: PERIODICITY SCHEDULE UPDATE



Recommendations for Preventive Pediatric Health Care

Bright Futures/American Academy of Pediatrics



Each child and family is unique; therefore, these Recommendations for Preventive Pediatric Health Care are designed for the care of children who are receiving nurturing parenting, have no manifestations of any important health problems, and are growing and developing in a satisfactory fashion. Developmental, psychosodia, and chronic disease issues for children and adolescents may require more frequent counseling and treatment visits separate from preventive care visits. Additional visits also may become necessary if circumstances suggest concerns. These recommendations represent a consensus by the American Academy of Pediatrics (AAP) and Bright Futures. The AAP continues to emphasize the great importance of continuity of care in comprehensive health supervision and the need to avoid framementation of care.

Refer to the specific guidance by age as listed in the Bright Futures Guidelines (Hagan JF, Shaw JS, Duncan PM, eds. Bright Futures: Guidelines for Health Supervision of Infants, Children, and Adolescents. 4th ed. American Academy of Pedatrics, 2017.

The recommendations in this statement do not indicate an exclusive course of treatment or serve as a standard of medical care. Variations, taking into account individual circumstances, may be appropriate.

The Bright Europe American Academy of Bediatrics Recommendations for Preventive Pediatric Health Care are

The Bright Futures/American Academy of Pediatrics Recommendations for Preventive Pediatric Health Care are updated annually.

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		INFANCY EARLY CHILDHOOD														MIDDLEC	HILDHOO)		ADOLESCENCE												
AGE1	Prenatal ²	Newborn ²	3-5 d*	By 1 mo	2 mo	4 mo	6 mo	9 mo	12 mo	15 mo	18 mo	24 mo	30 mo	3 у	4 y	5 y	6 у	7 y	8 y	9 y	10 y	11 y	12 y	13 y	14 y	15 y	16 y	17 y	18 y	19 y	20 y	21 y
HISTORY Initial/interval	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MEASUREMENTS																																
Length/Height and Weight		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Head Circumference		•	•	•	•	•	•	•	•	•	•	•																				
Weight for Length		•	•	•	•	•	•	•	•	•	•																					
Body Mass Index ^a												•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Blood Pressure*		*	*	*	*	*	*	*	*	*	*	*	*	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SENSORY SCREENING																																
Vision ⁷		*	*	*	*	*	*	*	*	*	*	*	*	•	•	•	•	*	•	*	•	*	•	*	*	•	*	*	*	*	*	*
Hearing		•5	● 9-		>	*	*	*	*	*	*	*	*	*	•	•	•	*	•	*	•	4		● 10	-	+		-	4			-
DEVELOPMENTAL/SOCIAL/BEHAVIORAL/MENTAL HEALTH																																
Maternal Depression Screening ¹¹				•	•	•	•																									
Developmental Screening ¹²								•			•		•																			
Autism Spectrum Disorder Screening ¹¹											•	•																				
Developmental Surveillance		•	•	•	•	•	•		•	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Behavioral/Social/Emotional Screening ¹⁴		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tobacco, Alcohol, or Drug Use Assessment ¹³																						*	*	*	*	*	*	*	*	*	*	*
Depression and Suicide Risk Screening ¹⁶																							•	•	•	•	•	•	•	•	•	•

BEHAVIORAL/SOCIAL/EMOTIONAL

Footnote #14

The Psychosocial/Behavioral Assessment recommendation has been updated to Behavioral/Social/Emotional Screening (annually from newborn to 21 years) to align with AAP policy

American Academy of Pediatrics

Applying an Equity Lens to Clinical Practice Guidelines: Getting Out of the Gate Aug 2022

FROM POLICY TO ACTION:

LAST 36 MONTHS

POLICY STATEMENT Organizational Principles to Guide and Define the Child Health Care System and/or Improve the Health of all Children

July 2019



DEDICATED TO THE HEALTH OF ALL CHILDREN

Joseph L. Wright, MD, MPH, a,b Maria E, Trent, MD, MPH, c,d

POLICY STATEMENT Organizational Principles to Guide and Define the Child Health Care System and/or Improve the Health of all Children

May 2022

American Academy of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN

The Impact of Racism on Child and Adolescent Health

Maria Trent, MD, MPH, FAAP, FSAHM, Danielle G. Dooley, MD, MPhil, FAAP, Jacqueline Dougé, MD, MPH, FAAP, SECTION ON ADOLESCENT HEALTH, COUNCIL ON COMMUNITY PEDIATRICS, COMMITTEE ON ADOLESCENCE

Eliminating Race-Based Medicine

Joseph L. Wright, MD, MPH, FAAP, Wendy S. Davis, MD, FAAP, Madeline M. Joseph, MD, FAAP, Angela M. Ellison, MD, MSc, FAAPe, Nia J. Heard-Garris, MD. MSc. FAAP, Tiffani L. Johnson, MD. MSc. FAAPe and the AAP Board Committee on Equity

Oct 2021

American Academy of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN

VIEWPOINT

Jan 2020

Rachel H. Kowalsky, MD, MPH

Division of Pediatric

The Case for Removing Race From the American Academy of Pediatrics Clinical Practice Guideline for Urinary Tract Infection in Infants and Young Children With Fever

People are trapped in history and history is trapped in them. -James Baldwin¹

should be used with care in pediatric research. I based or ethnicity-based assessments about biologic nerabilities to disease can reify disproven conce

RETIRED

May 2021

Clinical Practice Guideline: Urinary tract infection: clinical practice guideline for the diagnosis and management of the initial UTI in febrile infants and children 2 to 24 months. *Pediatrics*.

2011;128(3):595-610. Available at: https://pediatrics.aappublications.org/content/128/3/595

AAP Perspective: Race-Based Medicine

American Academy of Pediatrics Board of Directors and Executive Committee





AΡ

US pediatricians' group moves to abandon race-based guidance

Modern Healthcare

HEALTH

How removing race-based guidance can benefit patients and clinical practice

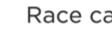


May 5, 2022 · 5:14 PM ET

Heard on All Things Considered

Q SEARCH Ω PODCASTS & SHOWS





Race can impact the medical treatment a person gets. Pediatrics wants to address

HEALTH WATCH ©CBS NEWS

THE WALL STREET JOURNAL.

U.S. Pediatrics Group to Review Policies for Misuse of Race in Medical Care

Move by group representing 67,000 doctors is part of a process to improve healthcare disparities

Eliminating Race-Based Medicine: Reconciliation – Why is this important?



American Academy of Pediatrics

DEDICATED TO THE HEALTH OF ALL CHILDREN

O

NEONATAL HYPERBILIRUBINEMIA

JAMA Pediatrics | Review

JAMA Pediatr. doi:10.1001/jamapediatrics.2020.1767

Combating the Hidden Health Disparity of Kernicterus in Black Infants A Review

Francesca Okolie, DO, MPH; Jeannette E. South-Paul, MD; Jon F. Watchko, MD

IMPORTANCE Kernicterus is a devastating, permanently disabling neurologic condition resulting from bilirubin neurotoxicity. Black neonates account for more than 25% of kernicterus cases in the US, despite making up only approximately 14% of all births. This is a largely overlooked health disparity.

Variables Used in Predictive Logistic Regression Model (2001): ETCOc, feeding type, birth weight, *race*, parity, maternal diabetes, maternal blood type, and bruising.

TABLE 2. Risk Factors for Development of Severe Hyperbilirubinemia in Infants of 35 or More Weeks' Gestation (in Approximate Order of Importance)

2004 CPG

Major risk factors

Predischarge TSB or TcB level in the high-risk zone (Fig 2)^{25,31} Jaundice observed in the first 24 h³⁰

Blood group incompatibility with positive direct antiglobulin test, other known hemolytic disease (eg, G6PD deficiency), elevated ETCO_c

Gestational age 35-36 wk39,40

Previous sibling received phototherapy^{40,41}

Cephalohematoma or significant bruising³⁹

Exclusive breastfeeding, particularly if nursing is not going well and weight loss is excessive^{39,40}

East Asian race³⁹
Minor risk factors

Predischarge TSB or TcB level in the high intermediate-risk zone^{25,31}

Gestational age 37-38 wk^{39,40}

Jaundice observed before discharge⁴⁰

Previous sibling with jaundice40,41

Macrosomic infant of a diabetic mother^{42,43}

Maternal age ≥25 y³⁹

Male gender^{39,40}

Decreased risk (these factors are associated with decreased risk of significant jaundice, listed in order of decreasing importance)
TSB or TcB level in the low-risk zone (Fig 2)^{25,31}

Gestational age ≥41 wk³⁹

Exclusive bottle feeding 39,40

Black race^{38*}

Discharge from hospital after 72 h40,44

* Race as defined by mother's description.



NEONATAL HYPERBILIRUBINEMIA - REVISED CLINICAL PRACTICE GUIDELINE

American Academy of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN'

Clinical Practice Guideline Revision: Management of Hyperbilirubinemia in the Newborn Infant 35 or More "Family history or genetic ancestry suggestive of inherited red blood cell disorders, including G6PD"

Weeks of Gestation

Alex R. Kemper, MD, MPH, MS, FAAP, Thomas B. Newman, MD, MPH, FAAP, Jor M. Jeffrey Maisels, MB BCh, DSc, FAAP, Jon F. Watchko, MD, FAAP, Stephen M Randall W. Grout, MD, MS, FAAP, David G. Bundy, MD, MPH, FAAP, Ann R. Starl Alison Volpe Holmes, MD, MPH, FAAP, Lori B. Feldman-Winter, MD, MPH, FAAP, Steven R. Brown, MD, FAAFP, Gabriela M. Maradiaga Panayotti, MD, FAAP, Kyn Peter D. Rappo, MD, FAAP, Terri L. Russell, DNP, APN, NNP-BC

Pediatrics. 2022 Aug 5:e2022058859. doi: 10.1542/peds.2022-058859. Epub ahead of print.

TABLE 1 Risk Factors for Developing Significant Hyperbilirubinemia

Risk Factors

- Lower gestational age (ie, risk increases with each additional week less than 40 wk)
- . Jaundice in the first 24 h after birth
- Predischarge transcutaneous bilirubin (TcB) or total serum bilirubin (TSB) concentration close to the phototherapy threshold
- Hemolysis from any cause, if known or suspected based on a rapid rate of increase in the TSB or TcB of >0.3 mg/dL per hour in the first 24 h or >0.2 mg/dL per hour thereafter
- . Phototherapy before discharge
- Parent or sibling requiring phototherapy or exchange transfusion
- Family history or genetic ancestry suggestive of inherited red blood cell disorders, including glucose-6-phosphate dehydrogenase (G6PD) deficiency
- Exclusive breastfeeding with suboptimal intake
- · Scalp hematoma or significant bruising
- Down syndrome
- . Macrosomic infant of a diabetic mother



VIEWPOINT

The Silent Crisis of Pediatric Clinical Practice Guidelines

Corinna J. Rea, MD, MPH

Division of General Pediatrics, Boston Children's Hospital, Boston, Massachusetts. panded trem there have be velopment a portant role i Care by synth Massachusetts.

Francisco J. Alvarez, MD Lucile Packard

Lucile Packard Children's Hospital, Palo Alto, California; and Stanford University School of Medicine, Stanford, California.

Joel S. Tieder, MD, MPH

MPH
Hospital, Seattle,
Washington; and
University of
Washington School of
Medicine, Seattle,
Washington.

Current State of Clinical S

The number of Clinical Prpanded tremendously of there have been parallel velopment and ensure t portant role in improving care by synthesizing larg vide standardized recom fessionals and patients. ately and updated regul

processes and outcome

The National Academ

International Network profor guideline developmen ordination efforts, and rob these standards, including and skilled, (2) transparen of interest, (3) evaluation a is systematic and unbiase dence and strength of rec dations that are implemen perpetuate racial and ethernal stakeholders, and

JAMA Pediatrics | Review

Use of Race in Pediatric Clinical Practice Guidelines
A Systematic Review

Courtney A. Gilliam, MD; Edwin G. Lindo, JD; Shannon Cannon, MD; L'Oreal Kennedy, DNP, CNM, ARNP; Teresa E. Jewell, MLIS; Joel S. Tieder, MD, MPH

Race and

IMPORTANCE National clinical practice guidelines (CPG, Textbook

The use of race in CPGs has the potential to positively of and health inequities.

OBJECTIVE To review the use of race in published pedia

EVIDENCE REVIEW A literature search of PubMed, Meds Institute Guidelines Trust, and MetaLib.gov was perfor guidelines addressing patients younger than 19 years o 2021. The study team systematically identified and eva ethnicity terms and then used a critical race theory fran to the potential to either positively or negatively affect in health care

FINDINGS Of 414 identified pediatric clinical practice gu for full review because of the use of race or ethnicity te or ethnicity terms. The use of a race term occurred 175 recommendations, or future directions. A use of race w occurred 87 times (49.7%) across CPGs and a positive control of the control of

"A use of race with a potential negative effect occurred in 49.7% of CPGs"

UNDER THE MICROSCOPE

Race in the Reading: A Study of Problematic Uses of Race and Ethnicity in a Prominent Pediatrics

Alice Li 1, Andrea T Deyrup 2, Joseph L Graves Jr 3, Lainie Friedman Ross 4

Affiliations + expand

PMID: 35294417 DOI: 10.1097/ACM.0000000000004666

Abstract

Purpose: Aspects of medical education and clinical pract that race is a biologically valid distinction among individua analyzed the use of race and ethnicity in a popular pediats were being used consistently and correctly.

Method: In May 2021, using the search function on the A eBooks platform, the authors searched for 29 race- or eth Black, race) in the AAP Textbook of Pediatric Care, 2nd Ec researcher extracted direct quotes containing at least one independently coded each quote as problematic or nonpr search terms, excluding examples in which the terms wer warning). The researchers then identified themes based o problematically.

Results: The search produced 2,167 total results across to race or ethnicity and were analyzed. Problematic quote social variables; (2) conflated terminology (e.g., conflated (3) overgeneralized or made claims based on limited data inclusivity; (6) promoted racial stereotypes; or (7) made or the conflated stereotypes; or (7) made or the conflated stereotypes; or (8) made or the conflated stereotypes; or (9) made or the conflated stereotypes; o

Conclusions: The use of race and ethnicity in the AAP 1 always appropriate, as demonstrated by examples that re Are Black Girls Exhibiting Puberty Earlier? Examining Implications of Race-Based Guidelines

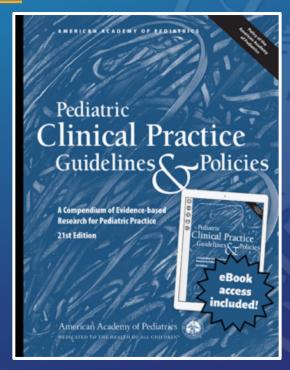
Adeiyewunmi (Ade) Osinubi, MD,^a C. Paula Lewis-de los Angeles, MD, PhD,^{a,b} Patricia Poitevien, MD, MSc,^{a,b} Lisa Swartz Topor, MD, MMSc^{a,b,c}

From 1977 to 2013, the average age of thelarche, the first sign of puberty in girls, decreased by nearly 3 months per decade. This trend, along with rising rates of precocious puberty in girls, has significant implications for girls' physical and psychosocial development, especially because early puberty has been linked to future health risks.^{2,3}

In 1997, the Pediatric Research in Office Setting study introduced race into the discourse surrounding pubertal timing as a factor in the pubertal timing of girls and has been included in recent American Academy of Pediatrics (AAP) clinical reports⁶ and Pediatric Endocrine Society guidelines.7 As a result, many patients, caregivers, medical students, and physicians have been taught that Black girls experience puberty at earlier ages. In addition, in scientific and educational resources8,9 and the lav media. 10,11 race continues to be associated with precocious puberty without considering the potential causes of this association, including the impact

^aWarren Alpert Medical School of Brown University, Providence, Rhode Island: and ^bDepartment of Pediatrics and ^cDivision of Pediatric

Eliminating Race-Based Medicine: Transformation - What is the task at hand?

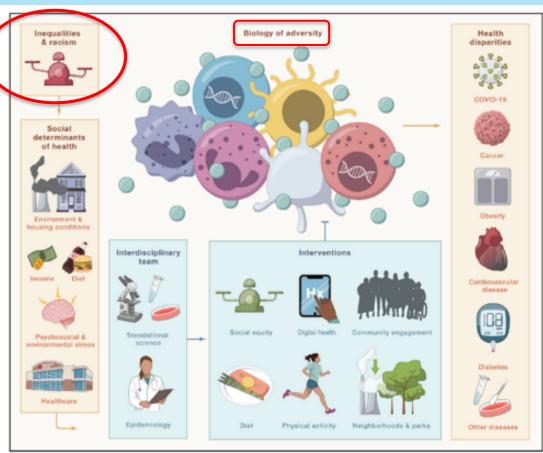


American Academy of Pediatrics

MOVING TOWARDS ANTI-RACISM IN PEDIATRICS

- Recognize it
- Name it
- Oppose it
- Replace it

Healthcare Physical activity Ward JV. The Skin We're in: Teaching Our Teens to be Emotional Strong, Socially Smart, and Spiritually Connected. New York, NY: Free Press; 2002



Moving from Race-Based to Race-Conscious Medicine

RACE-BASED MEDICINE

Race inferred to have biological significance

Epidemiological and clinical studies link race with disease

Basic or translational science studies link race with biology

Racial groups understood as inherently diseased

Biologized concepts of race reinforced

Healthcare bias and stereotyping

Racially tailored clinical practice

Health Disparities

RACE-CONSCIOUS MEDICINE

Race defined as a social construct

Effects of structural and systemic racism are analyzed

Health consequences of racism taught

Support provided to overcome structural and systemic barriers

Reduction in Health Disparities

Lancet 2020;396(10257):1125



US Law Week

Justice Jackson Takes Originalist Approach on Voting Rights

By Kimberly Strawbridge Robinson

Oct. 4, 2022, 4:06 PM



• The "framers themselves adopted the equal protection clause" reflected in the 14th and 15th amendments "in a race-conscious way," Jackson said in countering the argument that redistricting – and particularly challenges to redistricting plans under the Voting Rights Act – must be race-blind.

American Academy of Pediatrics

"Until the lion tells the story, the tale of the hunt will always glorify the hunter"

- Zimbabwean proverb



Introducing Race-Conscious Medicine into Discovery and the Scientific Literature

JAMA Pediatrics | Original Investigation

2022 Jun 1;176(6):569

Reassessment of the Role of Race in Calculating the Risk for Urinary Tract Infection

A Systematic Review and Meta-analysis

Nader Shaikh, MD, MPH; Matthew C. Lee, BA; Lynissa R. Stokes, PhD; Elizabeth Miller, MD, PhD; Marcia Kurs-Lasky, MS; Isabella Conway, BS; Timothy R. Shope, MD; Alejandro Hoberman, MD

IMPORTANCE A previously reported prediction model included a child's race to estimate risk of urinary tract infection (UTI), but race-conscious medicine encourages investigating how race is likely to be a proxy for other factors that should instead be used for risk prediction.

"...race-conscious medicine encourages interrogating how race is likely to be a proxy for other factors and that those factors should be considered for inclusion in decision making processes".



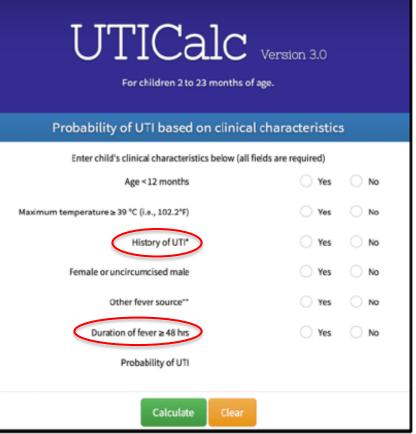
PEDIATRIC UTI: EQUITABLE CARE DELIVERY

Emergency Medicine I

External validation of the UTICalc predictive model for pediatric urinary tract infections

Anna G. Smith, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, United States; Lindsay H. Boles, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, United States; Anisha Kshetrapal, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, United States; Norma-Jean E. Simon, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, United States; Timothy R. Shope, UPMC Children's Hospital, Gibsonia, PA, United States; Nader Shaikh, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States; Sriram Ramgopal, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, United States

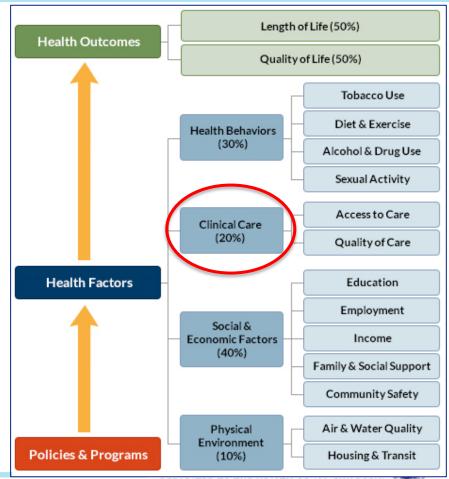
 The variable race was replaced with history of UTI and duration of fever.
 Accuracy compared to previous risk prediction models was similar.





CAN'T THROW THE BABY OUT WITH THE BATH WATER

- evidence that race is not a biologic proxy, there <u>is</u> definitely a role for what race represents in terms of differential lived experiences and exposures.
- Rigorously incorporating socially determined factors that frame health status into clinical care guidelines is necessary to eliminate disparities and achieve more equitable outcomes.



RACISM NOT RACE

- "With no physiologic differences to explain the difference in drowning risk, race and ethnicity are likely a proxy for social and cultural differences...underlying reasons are not well understood, but may include historical (such as segregation and lack of access) and environmental influences".
 - Prevention of Drowning Pediatrics 2021

The New York Times

'Swimming Wasn't for Us'

The nation's first Black-owned pool club aims to teach hundreds of children to swim this summer, helping to close a dangerous racial gap in the process.



https://www.nytimes.com/2022/07/04/us/segregation-nile-swim-club.html



RACISM NOT RACE: RESTRICTIVE COVENANTS - REDLINING'S RESIDUAL **ECHO AND ENVIRONMENTAL INJUSTICE**

Attention White Home **Buyers!**

The Largest Restricted White Community in Washington

> Invites your attention to the decision of

The U. S. Supreme Court

-that negroes cannot buy in a restricted white section

Buy or Rent in the section known as

Eckington . High View Bloomingdale Edgewood

> For further information apply to: **Executive Committee of**

> > North Capitol Citizens'

Bloomingdale Owners P. W. Pritchett, Chairman 2651 North Capitol St.

Association Henry Gilligan, President 2304 1st St. N.W. W. T. Richardson, Secy.

Redlining means 45 million Americans are breathing dirtier air, 50 years after it ended

Boyle Heights, a heavily Latino area in Los Angeles singled out for its 'detrimental racial elements,' has one of the highest pollution scores in California

https://www.washingtonpost.com/climate-environment/2022/03/09/redlining-pollution-environmental-justice/

Historical Redlining Is Associated with Present-Day Air Pollution Disparities in U.S. Cities

Haley M. Lane, Rachel Morello-Frosch, Julian D. Marshall, and Joshua S. Apte*

Environ Sci Technol Lett 2022;9(4):345-350



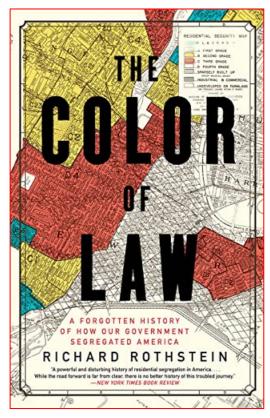
Home Appraised With a Black Owner: \$472,000. With a White Owner: \$750,000.

Nathan Connolly and his wife, Shani Mott, say an appraisal company undervalued their home based on their race. The couple has filed a lawsuit in Maryland.



"We had to have a conversation with our kids about why we're pulling down all their drawings," Dr. Connolly said. "It's very humiliating to strip yourself of your own home."

RACISM NOT RACE - RESOURCES



RACISM NOT RACE

ANSWERS TO FREQUENTLY ASKED QUESTIONS

JOSEPH L. GRAVES JR. AND ALAN H. GOODMAN

APPLYING SCIENTIFIC INTEGRITY

Achieving equity through science and integrity: dismantling race-based medicine

Joseph L. Wright^{1,252}, Gary L. Freed^{3,4}, Karen D. Hendricks-Muñoz⁵, James N. Jarvis⁶, Yvonne A. Maldonado^{7,8}, Jean L. Raphael⁹, David Schnadower¹⁰, Brian Sims¹¹, Clifford W. Bogue¹², Mary B. Leonard^{7,13}, Tamera D. Coyne-Beasley^{11,14} and Committee on Diversity, Inclusion and Equity on behalf of the American Pediatric Society*

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Pediatric Research (2022) 91:1641-1644; https://doi.org/10.1038/s41390-022-02041-8

- Comprehensive
- Collaborative
- Transdisciplinary

Convergence Science





DISPARITIES IN THE PAIN MANAGEMENT OF CHILDREN

 African American children receive opioid analgesia significantly less frequently than white patients and are less likely to achieve optimal pain reduction.

Provider implicit bias strongly implicated.

Original Investigation

Racial Disparities in Pain Management of Children With Appendicitis in Emergency Departments

Monika K. Goyal, MD, MSCE; Nathan Kuppermann, MD, MPH; Sean D. Cleary, PhD, MPH; Stephen J. Teach, MD, MPH; James M. Chamberlain, MD

IMPORTANCE Racial disparities in use of analgesia in emergency previously documented. Further work to understand the cause undertaken, which can then help inform the development of in eradicate racial disparities in health care provision.

gency Departments

Racial and Ethnic Differences in Emergency Department Pain Management of Children With Fractures

Monika K. Goyal, MD, MSCE,* Tiffani J. Johnson, MD, MSc,* Ja Michael Webb, MS,* Amy L. Drendel, DD, MS,* Evaline Alessam Robert W. Grundmeier, MD,* Elizabeth R. Alpern, MD, MSCE,* PB

Racial/Ethnic Differences in ED Opioid Prescriptions for Long Bone Fractures: Trends Over Time

Monika K. Goyal, MD, MSCE, Amy L. Drendel, DO, James M Chamberlain, MD, Justin Wheeler, BS, Cody Olsen, MS, Robert W. Grundmeier, MD, Lalit Bajaj, MD, MPH, Lynn Babcock, MD, MS, Joeseph J. Zorc, MD, MSCE, Tiffani Johnson, MD, MS, and Elizabeth R. Alpern, MD, MSCE, Service MD, MSCE, Cody Cody, MD, MSCE, Cody, MD, MS, Cody, MD, MSCE, Cody, Cody, MSCE, Cody, MSCE, Cody, MSCE, Cody, MSCE, Cody, MSCE, Co

Pediatric Emergency Care Applied Research Network (PECARN) Registry Study Group

- JAMA Pediatrics. 2015;169:996
- Pediatrics. 2020; 145: e20193370
- Pediatrics. 2021;148(5):e2021052481



INVESTIGATORS MATTER



Monika Goyal, MD MSc Endowed Chair of Women in Science and Health Children's National Research Institute



COLLABORATIVE OPPORTUNITIES ON THE HORIZON

Race Norming in Spirometry

Race- and Ethnicity-Based Spirometry Reference Equations

Are They Accurate for Genetically Admixed Children?

INTERPRETATION: Guideline-recommended spirometry reference equations yielded biased estimates of lung function in genetically admixed children with high variation of African ancestry. Spirometry could benefit from reference equations that incorporate genetic ancestry, either for more precise application of the current equations or the derivation and use of new equations.

CHEST 2022

Undetected (Occult) Hypoxemia in Pulse Oximetry

The NEW ENGLAND JOURNAL of MEDICINE

CORRESPONDENCE

Racial Bias in Pulse Oximetry Measurement

Thus, in two large cohorts, Black patients had nearly three times the frequency of occult hypoxemia that was not detected by pulse oximetry as White patients.

NEJM 2021



IMPORTANT LEVEL SET – STRATEGIES AND TACTICS

• Skew to the evidence:

- Appeal to the inherent scientist and life long learner in us to build fund of knowledge.
- Expand awareness of surreptitiously hidden history.

Emphasize lived experience:

➤ Leverage collegial relationships to better understand the synergistic value of difference.



Wright JL, Johnson TJ. Child Health Advocacy: An Anti-Racism Journey. *Pediatric Clinics of North America* 2023; in press







Thank you!!