


MAYO CLINIC

Health Disparities and Inequities in the Treatment of Pain

What the Informed Clinician Needs to Know to Optimize Patient Care

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Tuesday April 25, 2023

Eleshia Morrison, PhD, LP, ABPP
Assistant Professor
Consultant
Department of Psychiatry & Psychology
Pain Rehabilitation Center,
Mayo Clinic, Rochester, MN



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LEARNING OBJECTIVES

1. Identify individual and structural factors in healthcare that contribute to health inequities in pain treatment
2. Describe the intersection of individual identities (i.e. "intersectionality") in exacerbating adverse pain outcomes
3. Identify practical clinical and educational strategies that mitigate and dismantle health inequities in patient care

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RELEVANT TERMINOLOGY

- **Race:** a **social and political construction** with no inherent genetic or biologic basis. Used to arbitrarily categorize and divide groups of individuals based on physical appearance (particularly – skin color), ancestry, cultural history, and ethnic classification.
- **Gender:** **socially constructed** roles, behaviors, activities, and/or attributes that a given society associates with being a woman, man, girl, or boy, as well as relationships with each other. As a social construct, gender varies from society to society and can change over time.
- **Sex:** **biological** category based on reproductive, anatomical, and genetic characteristics, generally defined as male, female, and intersex; used when describing anatomical, chromosomal, hormonal, cellular, and basic biological phenomena
- **Sex and gender minority (SGM):** populations include, but are not limited to, **individuals who identify as lesbian, gay, bisexual, asexual, transgender, Two-Spirit, queer, and/or intersex.** Individuals with same-sex or -gender attractions or behaviors and those with a difference in sex development are also included.
- **Intersectionality:** Non-additive impact of being disadvantaged by **multiple sources of oppression** that converge to impact an individual or community in ways beyond the influence of any of those factors individually, coined by Crenshaw in 1989

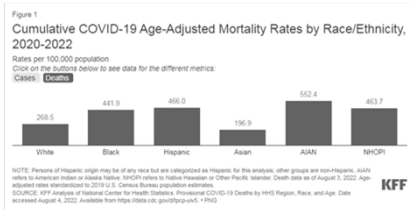
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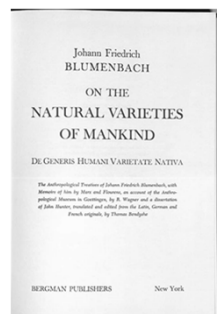
A Lens THROUGH HISTORY...



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Five racial categories determined by Johann Friedrich Blumenbach
<https://www.vox.com/2019/01/13/7536655/race-myth-debunked>




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Race Is a Social Construct, Scientists Argue

Racial categories are weak proxies for genetic diversity and need to be phased out

By Megan Garsen, LiveScience on February 5, 2016

<https://www.sciencemag.com/article/race-is-a-social-construct-scientists-argue/>



More than 100 years ago, American sociologist W.E.B. Du Bois was concerned that race was being used as a biological explanation for what he understood to be social and cultural differences between different populations of people. He spoke out against the idea of "white" and "black" as discrete groups, claiming that these distinctions ignored the scope of human diversity.

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RACE IS NOT REAL BUT RACISM IS....

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- **Structural racism** refers to the totality of ways in which societies foster racial discrimination through mutually reinforcing systems of housing, education, employment, earnings, benefits, credit, media, health care and criminal justice
- These patterns and practices in turn reinforce discriminatory beliefs, values and distribution of resources

*Bailey ZD, et al. Structural racism and health inequities in the USA: evidence and interventions. *Lancet*. 2017; 389 (10077):1463-1483.

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Social determinants of health

- The **nonmedical factors** that influence Health Outcomes

- The conditions in which people are born, grow, work, live, and age
- The wider set of forces and systems shaping the conditions of daily life



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Misconceptions about pain along racial lines

- Dates back centuries

- Cartwright 1851, "blacks are insensible to pain due to less sensitive nervous system"
- "Blacks could tolerate surgical operations with little pain"



- 1846-1849, J. Marion Sims performed gynecological procedures on enslaved black patients without anesthesia



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Unethical experiments on black subjects due to notion of less pain and injury

- Mustard gas on black soldiers during World War II



You Are Here: Home » Blog » History » Pentagon Admitted to Using Black Soldiers as Human Guinea Pigs in WWII

Black enlisted men were used as human guinea pigs in chemical experiments during World War II—not by Nazi Germany, but by Uncle Sam.

By David Lane —



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Tuskegee syphilis experiment (Federally funded program) in black men 1932-1972



Wisc.org

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- Survey of 222 Caucasian white medical students and residents, 92 Caucasian non-healthcare personnel
 - "Black skin is thicker than whites and less likely to experience pain"**
 - 58% of the general population, 40% of medical students, 25% of residents.

Medical Student > Proc Natl Acad Sci U S A. 2016 Apr 19;113(16):4296-301.
doi: 10.1073/pnas.1516047113. Epub 2016 Apr 4.

Racial bias in pain assessment and treatment recommendations, and false beliefs about biological differences between blacks and whites

Emily M Huffman¹, Sophie Traenkle², Jordan R. Axt³, M. Norman Oliver³
Affiliations expand
PMID: 27040069 PMCID: PMC4543483 DOI: 10.1073/pnas.1516047113

Item	General	1st year	2nd year	3rd year	Residents
Blacks age more slowly than white	23	21	28	32	34
Blacks' nerve endings are less sensitive than whites'	20	8	14	5	4
Black people's blood coagulates more quickly than whites	39	29	17	3	4
Whites have larger brains than blacks	12	2	1	0	0
Whites have a better sense of hearing than blacks	10	3	7	0	0
Blacks' skin is thicker than whites'	58	40	42	22	23
Blacks have a more sensitive sense of smell than whites	20	10	18	3	7
White have a more efficient respiratory system than blacks	16	8	3	2	4
Black couples are significantly more fertile than white couples	17	10	15	2	7
Blacks are better at detecting movement than whites	18	14	15	5	11
Blacks have stronger immune systems than whites	14	21	15	3	4

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WHAT DOES THE LITERATURE SAY ABOUT RACIAL DISPARITIES IN PAIN MEDICINE TODAY?

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Editorial > J Pain Res. 2020 Nov 6;13:2825-2836. doi: 10.2147/JPR.S287314. eCollection 2020.

Chronic Noncancer Pain Management and Systemic Racism: Time to Move Toward Equal Care Standards



Mallini Ghoshal ¹, Hannah Shapiro ², Knox Todd ³, Michael E Schatman ⁴ ⁵

Affiliations + expand

PMID: 33192090 PMID: PMC7654542 DOI: 10.2147/JPR.S287314

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> Pain Med. 2019 Feb 1;20(2):223-232. doi: 10.1093/pm/pny074.

Racial and Ethnic Disparities in the Evaluation and Management of Pain in the Outpatient Setting, 2006-2015



Dan P Ly ¹

Affiliations + expand

PMID: 29688509 PMID: PMC6374136 DOI: 10.1093/pm/pny074

- **National Ambulatory Medical Care Survey (NAMCS)**
- **4,764 white patients, 692 black patients, and 682 Hispanic patients**
- **Back pain visits of Hispanic patients lasted 1.6 fewer minutes** than those of white non-Hispanic patients ($P = 0.04$)
- **Black patients were less likely than white patients to receive opioids for abdominal pain** ($P = 0.04$) and less likely than white patients to receive opioids for back pain ($P = 0.046$)
- **Hispanic patients were less likely than white patients to receive opioids for abdominal pain** ($P = 0.003$) and less likely than white patients to receive opioids for back pain ($P < 0.001$)

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Original Contribution

January 2, 2008

Trends in Opioid Prescribing by Race/Ethnicity for Patients Seeking Care in US Emergency Departments

Mark J. Fletcher, MD, MPH; Stefan G. Kertesz, MD, MSc; Michael A. Kohn, MD, MPH; et al

> Author Affiliations | Article Information

JAMA. 2008;299(1):70-78. doi:10.1001/jama.2007.64

Setting: Pain-related visits to US emergency departments were identified using reason-for-visit and physician diagnosis codes from 13 years (1993-2005) of the National Hospital Ambulatory Medical Care Survey.

Results: Of the roughly 157,000 pts analyzed, white patients with pain were more likely to receive an opioid (31%) than Black (23%), Hispanic (24%), or Asian/other patients (28%) ($P < .001$ for trend)

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J Pain Res. 2018 Apr 12;11:753-761. doi: 10.2147/JPR.S158128. eCollection 2018.

Non-Hispanic Black-White disparities in pain and pain management among newly admitted nursing home residents with cancer

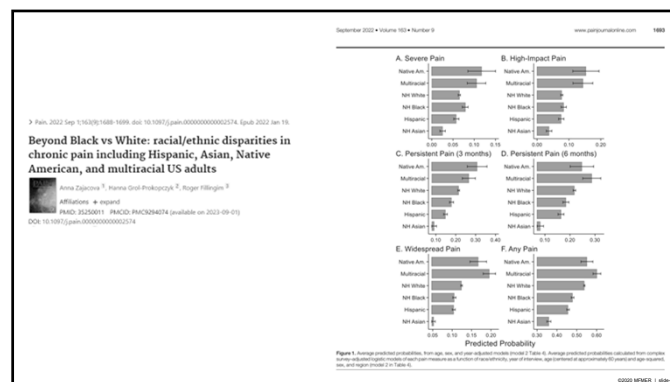
Deborah S Mack¹, Jacob N Hunnicutt¹, Bill M Jesdale², Kate L Lapane²
Affiliations + expand
PMID: 29695927 PMCID: PMC5905487 DOI: 10.2147/JPR.S158128

Method: Cross-sectional study design, we compared reported pain and pain management between non-Hispanic White and non-Hispanic Black newly admitted nursing home residents with cancer (n=342,920)

Results: While most residents received some pharmacologic pain management, Blacks were less likely to receive any compared with Whites (Blacks: 66.6%, Whites: 71.1%; aPR: 0.98, 95% CI: 0.97-0.99), consistent with differences in receipt of non-pharmacologic treatments (Blacks: 25.8%, Whites: 34.0%; aPR: 0.98, 95% CI: 0.96-0.99)

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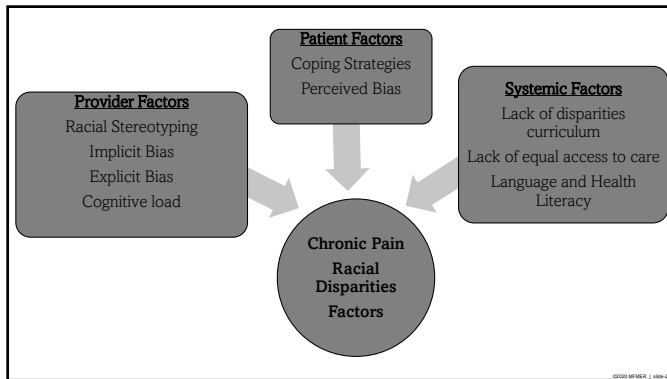
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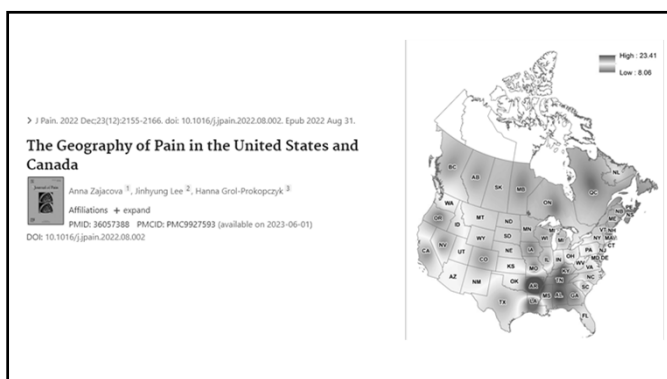
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Can J Pain. 2022 Sep 14;11(142):170. doi: 10.1080/24740527.2022.2104699. eCollection 2022.

The relationship between patients' income and education and their access to pharmacological chronic pain management: A scoping review

 Nicole Atkins¹, Karim Muhida¹

Affiliations + expand
PMID: 36092247 PMCID: PMC9400987 DOI: 10.1080/24740527.2022.2104699

Individuals with lower socioeconomic status do not receive the same medications for chronic pain conditions.

Responsible Factors include:

- Access to care
- Unaffordability of certain therapies
- Health literacy
- Prescribing biases

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Neuromodulation. 2021 Mar 15. doi: 10.1111/ner.13373. Online ahead of print.

Racial and Socioeconomic Disparities in Spinal Cord Stimulation Among the Medicare Population

 Mark R Jones¹, Vwaire Orhurhu², Brian O'Gara³, Ethan Y Brownman⁴, Nikhlesh Rao⁵, Stephanie G Vatterpool⁶, Lawrence Porne⁷, Amitabh Gulati⁸, Richard D Urman⁹

Affiliations + expand
PMID: 33723896 DOI: 10.1111/ner.13373


- 1,244,927 patients between 2016-2019
- Diagnosis of post-laminectomy syndrome/Chronic pain syndrome
- 59,182 (4.8%) had a spinal cord stimulation implant
 - 90.4% were White (53,496/59,182)
 - 20.4% were dually enrolled in Medicare and Medicaid (12,059/59,182)
- Black (0.62, $p < 0.001$), Asian (0.66, $p < 0.001$), Hispanic (0.86, $p < 0.001$), and North American Native (0.62, $p < 0.001$) patients had lower odds of receiving SCS compared with White patients
- Similar studies for other pain interventions are needed

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J Pain. 2017 Dec 18;18(12):1459-1467. doi: 10.1016/j.jpain.2017.07.005. Epub 2017 Jul 29.

Racial and Socioeconomic Disparities in Disabling Chronic Pain: Findings From the Health and Retirement Study

 Mary R Janevic¹, Sara J McLaughlin², Alicia A Heagy³, Casey Thacker⁴, John D Piette⁵

Affiliations + expand
PMID: 28760648 PMCID: PMC5682226 DOI: 10.1016/j.jpain.2017.07.005

Method: Subsample of Health And Retirement Study (HRS) respondents (n = 1,925) who were randomly selected for a supplementary pain module in 2010.

Results: Overall, 8.2% (95% confidence interval = 6.7-10.1%) of adults older than age 50 met criteria for high-impact chronic pain. This proportion rose to 17.1% (95% confidence interval = 12.3-23.4%) among individuals in the lowest wealth quartile.

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> *Psychosomatic Medicine*. 2016 Oct;25(10):1212-1221. doi: 10.1002/psm.4218. Epub 2016 Aug 12.

Sociodemographic inequalities in barriers to cancer pain management: a report from the American Cancer Society's Study of Cancer Survivors-II (SCS-II)



Kevin D Stein ^{1,2}, Cassandra I Alcaraz ³, Chelsey Kamson ⁴, Elizabeth A Fallon ⁵, Tenbroeck G Smith ³

Affiliations [expand](#)
PMID: 27421683 DOI: 10.1002/psm.4218

Method: 4707 cancer survivors in the American Cancer Society's Study of Cancer Survivors-II, who reported experiencing pain from their cancer. A multilevel, socioecological, conceptual framework was used to generate a list of 15 barriers to pain management, representing patient, provider, and system levels.

Results: Two-thirds of survivors reported at least 1 barrier to pain management. While patient-related barriers were most common, the greatest disparities were noted in provider- and system-level barriers.

© 2016 WILEY | DOI: 10.1002/psm.4218

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GENDER DISPARITIES IN PAIN MANAGEMENT

© 2016 WILEY | DOI: 10.1002/psm.4218

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Sex and Gender Disparities in Pain

OBSERVED BUT NOT WELL UNDERSTOOD

- Women report greater pain sensitivity

- Women are more likely than men to:

- Experience multiple pain complaints
- Have higher rates of MSK related disability
- Recover from MSK injuries less quickly
- Return to work later

- Female: Male ratios

- 1.5 : 1 Headache, neck, shoulder, knee, and back pain
- 2 : 1 Orofacial pain conditions
- 2.5 : 1 Migraine headache
- 4 : 1 Fibromyalgia



[Sex & Gender | Office of Research on Women's Health | NIH.gov](#)

Edington HS, King CD, Ribeiro-Dasilva MC, Robson-Williams B, Wiley A. 2016. Sex, gender, and pain: a review of recent clinical and experimental findings. *J Pain*. 2016;16(12):1457-1465. doi: 10.1016/j.pain.2016.12.005

© 2016 WILEY | DOI: 10.1002/psm.4218

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Gender Disparities in Pain

THE PARADOX

Compared to men:

- It is more acceptable for women to show pain
- Women clinically present with more pain symptoms
- Women are diagnosed more frequently with chronic pain syndromes

Yet, paradoxically, women's:

- Pain reports are taken less seriously
- Their pain is more often discounted as being psychological or nonexistent
- And their care plan is not the same evidenced based care

Hoffman DC, Tennen AL. The girl who cried pain: a bias against women in the treatment of pain. *J Law Med Ethics*. 2001;29(1):13-27. doi:10.1111/j.1740-1240.2001.tb00827.x

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Sex and Gender Disparities in Pain

CLINICAL IMPLICATIONS

- Prospective cohort with 981 patients with acute abdominal pain in the ED
 - 62% received analgesic medications
- Similar Pain Scores, but Women less likely to receive any analgesia
 - Men: 67%
 - Women: 60%
 - (95% CI: 1.1% to 13.6%)
- Similar Pain Scores, but Women less likely to receive opioid analgesia
 - Men: 56%
 - Women: 45%
 - (CI: 4.1 to 17.1)
- Similar Pain Scores but longer wait times for analgesia
 - Men: median 49 min
 - Women: median 65 min
 - (95% CI= 3.5-33 min)
- Controlling for age, race, triage class and pain score; sex-specific dx excluded

Chen EC, Chander TC, Quan AL, Hollander K, Ben NCI, Roberts L, Sauer KL, Mills MM. Gender disparity in analgesic treatment of emergency department patients with acute abdominal pain. *Acad Emerg Med*. 2008 May;15(5):454-8. doi: 10.1111/j.1552-2125.2008.00330.x. PMID: 18625592

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Gender Disparities in Pain

CARE FOR TRANSGENDER INDIVIDUALS

Gender identity may play a more significant role in pain sensation than genetic sex

Transgender women:

- Demonstrated greater temporal summation for heat pain stimuli or mechanical stimuli than cis-gender men and cis-gender women
- Reported similarly to cis-gender women with greater chronic pain severity compared to cis-gender men

Yet...

- Restricted access to pain care
- Less personalized, biopsychosocial approaches to pain management
- Heightened risk of substance misuse, especially pain medications

• Chang KD, Holmes C, Hudguth M, Mout G, Mousa-Milne M, Vetter C, Ballantyne B. Pain in persons who are marginalized by social conditions. *Pain*. 2020 Feb;161(2):261-265. doi: 10.1097/j.pain.0000000000001719. PMID: 31815176. PMCID: PMC6970564.

• Fenderson-Wright MM, Kidd CD, Patel SA. The State of the Research on Sexual Coercion Among Lesbian, Gay, Bisexual, Transgender, Queer, and Other Sexuality and Gender Diverse Populations: A Scoping Review. *J LGBT Health*. 2022 Jun;15(1):1-17. doi: 10.1089/lgbt.2022.0018. Epub 2022 Jul 31. PMID: 36378023.

• Riquelme R, Kiefer SC, Gaudier S, Riquelme S. Prevalence of Addictions among Transgender and Gender Diverse Subgroups. *Int J Environ Res Public Health*. 2021 Aug 22;18(16):8063. doi: 10.3390/ijerph18168063. PMID: 34440505. PMCID: PMC8300305.

• Drath LJ, Sarge RL, Owens MA, Gonzalez CE, Chastain J, Wilks DM, Martin JS, Gordon MB. Sex and Gender are Not the Same: Why Identity is Important for People Living with HIV and Chronic Pain. *J Pain Res*. 2022 Apr; 1-15. doi: 10.2147/JPR.S340034. PMID: 35420387. PMCID: PMC8718764.

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Age-related and SES Disparities in Pain

- Older adults (age 65+), the unemployed, those living in/near poverty, and rural residents experience the highest rates of chronic pain and high-impact pain.
- COVID-19: lack of access to telemedicine for rural and lower SES patients
- Lower health literacy associated with worse pain outcomes

Basar, 2016; Crookshaw, 1989; Dattner et al., 2016; Gruchal et al., 2020; Institute of Medicine, 2011; Lurie et al., 2018; Minney, 2011; Nivens et al., 2016; Wilson et al., 2019; Zeng et al., 2020

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Intersectionality & Health

- Non-additive impact of being disadvantaged by multiple sources of oppression that converge to impact an individual or community in ways beyond the influence of any of those factors individually
- Confluence of factors that impact physical and mental health, and exacerbate health inequity
- Influence on cognitive implicit bias is complex
- An intersectional lens offers a holistic look and highlights the limits of healthcare



March 27, 2020: Our View: Black Americans' health is in jeopardy. [Read more](#)

Our View

Impact of racially restrictive covenants across its current policies and attitudes

May 16, 2020: Impact of racially restrictive covenants across its current policies and attitudes. [Read more](#)

Crookshaw, 1989
Cole & Bailetti, 2019
Kaphar et al., 2018

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Intersectionality in Pain Medicine

- Recognition of intersecting impact of race and gender on pain outcomes
- Intersectional factors impact physical and psychological outcomes
- Exacerbation of pain-related functional disturbance
- Identity factors (e.g. race, sex and gender identity) further influenced by pain behaviors and psychiatric history do influence patient care

Cole, 2020
Basar, 2016
Wells, Vojtkova, & Chiphawa, 2018
Wilson et al., 2019

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PAIN

Sociodemographic patterns of pain in an urban community sample: an examination of intersectional effects of sex, race, age, and poverty status

Renee L. Gabor¹, Derek LaRue², Evelyn B. Boyd³, Sheri Waldron^{4,5}, Mohamed Elzein⁶, Alan B. Zonderman⁷

- Participants (**N=1173**) were from the epidemiological Healthy Aging in Neighborhoods of Diversity across the Life Span (HANDLS) study; reported pain in various body sites.
- A significant three-way interaction was found for race, sex, and poverty status (odds ratio [OR] 5.6 0.04, 95% confidence interval [CI] [1.25-28.97], $P \leq 0.025$)
 - Specifically, among Whites living in poverty, women were more likely to report pain than men ($P \leq 0.043$), suggesting a **double disadvantage of being both female and living in poverty**.
 - Among those above the poverty line, **African American (AA) men were less likely to report pain** than White men ($P \leq 0.024$) and AA women ($P \leq 0.019$)-due to greater stoicism? coping skills? sources of resilience?
- Consistent with prior research, significant main effects revealed that **older age** (OR 5.2 1.6, 95% CI [1.28-3.64], $P \leq 0.004$) and **higher depressive symptoms** (OR 5.1 0.3, 95% CI [1.02-1.04], $P \leq 0.001$) were associated independently with increased likelihood of reporting pain.
- Conclusion: in an urban population, **intersecting sociodemographic factors create unique social identities that impact pain**, and emphasizes the need for identification of relevant mediational pathways.

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- N=115 patients with chronic pain in rural Alabama
- Measures of pain catastrophizing, depression, pain intensity, pain interference, perceived disability, and life satisfaction
- Mean age of 52, 79% were female, 74% were African-American, 72% reported annual income between 00,000-12,999, and 61% were unemployed.
- Mean years of education=12.26, reading level percentile was 17.33.
- Cross-sectional multivariate and univariate analyses were conducted
- **African Americans reported higher pain intensity and pain interference than White Americans**
- Pain catastrophizing was uniquely associated with pain intensity, pain interference, and perceived disability; depression was uniquely associated with pain interference, and life satisfaction.
- Pain catastrophizing mediated the relation between primary literacy and pain intensity; age effects were differentially mediated by either pain catastrophizing or depression.
- Conclusion: data provides insight into the specific demographic and psychosocial factors associated with **chronic pain in a low-literacy, low-SES rural population.**

Intersectionality is multifaceted

- Consideration of intersectionality aims to highlight oppressive systems
- Important to note that race and gender alone do not fully explore the potential reach and impact of intersectionality on patient outcomes
- Social class, education level, sexual orientation, etc also influence outcomes
- Mere identity-matching between patient and provider is not feasible in the medical landscape, nor would it guarantee patient satisfaction or desirable outcomes
- Diversifying healthcare benefits all, impacts patient outcomes

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PRACTICAL STRATEGIES TO:

MITIGATE BIAS & SYSTEMIC BARRIERS
 PROMOTE HEALTH EQUITY
 ENHANCE PATIENT OUTCOMES

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**PRACTICAL STRATEGY #1:
Provide Pain Education (PE)**

- A range of educational interventions
- Biological processes underpinning pain
- Pain is a protector; can be overprotective
- **Pain is real** even though tissue may not be in danger (chronic pain)
- Knowing how pain works can decrease emotional responses to pain
- Address role of psychosocial impact of pain

Loew A, Zorrey K, Puentes E, Dwyer J. The efficacy of pain neuroscience education on musculoskeletal pain: A systematic review of the literature. *Physiother Theory Pract*. 2016;32(5):332-355. doi:10.1080/09593183.2016.1194946

Mosley, G. L., & Baker, D. S. (2015). Fifteen years of explaining pain: the past, present, and future. *The Journal of Pain*, 16(5), 607-612.

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**PRACTICAL STRATEGY #2:
Standardize Clinical Practices**

- Provider frustration with patients associated with worse symptom management and greater patient distress
- Provide brief PE, then assess for biological, psychosocial, and social contributors of pain
- Use standardized approach to assess for medication and recreational substance use for all patients

Hansen, M. et al. 2016. Association of physicians' stress perception of fibromyalgia with frustration and resistance to receptive patients: a cross-sectional study. *Clin Rheumatol*. 36, 1019-1027.

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Real-world considerations of intersectionality in patient care

- Practically speaking, clinicians must practice cultural agility and humility to understand the impact of intersectional identities, and adjust clinical approaches that achieve health equity to combat such influences in order to optimize clinician-patient relationship and patient outcomes
- Patient outcomes are improved through culturally-informed pain treatment

Brady et al., 2018
Wilson et al., 2019

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Case Examples

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CASE DISCUSSION #1


- What are your concerns as one of this patient's providers?
- Is this truly "sickle cell crisis" even with normal labs and imaging?
- How do you balance empathy with patient safety?
- He tells you, "you think I am drug seeking don't you?" How do you respond?
- What social determinants of health are at play here?

- www.chicagotribune.com
- Mr. C.F. is a Black 21-year-old male with Sickle Cell Disease
 - Presents to the Emergency Department with diffuse body pain
 - Home pain medication regimen:
 - Oxycodone 10 mg q6h prn
 - Oxycontin 20 mg BID
 - Imaging and labs are unremarkable
 - He is requesting admission to the hospital and "stronger" pain medications
 - This is his 4th visit to the ED in the past two months

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CASE DISCUSSION #2


- What are your general concerns?
- Impact of language barrier on these issues?
- The provider is considering dismissing the patient from the clinic. Your thoughts?
- What social determinants of health could be at play here?
- Preventative measures to help our patient?

monica.mayo.edu

- Mrs. C.R. is a 57 year old Latinx Female with chronic back pain. Returns to clinic for a follow up evaluation
- Spanish-speaking only
- Home pain medication regimen:
Hydromorphone 8 mg q6h prn
- She missed her last two clinic appointments
- Her last UDS was positive for oxycodone

[illegible]

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mcmedia.mayo.edu

CASE DISCUSSION #3

- What are your general concerns?
- What social determinants of health could be at play here?
- How would you address the use of outdated terminology with your colleagues?
- The patient informs you that he has been reading his treatment notes. How would you address the team's terminology use with the patient?

- Mr. RS is a 67 yo white male with diabetic neuropathy, DM2
- Home pain medication regimen: Gabapentin 300 mg TID
- Born intersex; clinical team using outdated terminology in rounds and in documentation
- Rounds discussion focused on intersex status at birth, not chronic pain

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Achieving Health Equity is not a Zero-Sum Game

- **Zero-Sum Game in Economics:** the net benefit of sums and losses add up to zero; if one person wins, the other loses in equal measure
- The US History of Wheelchair Ramps
 - First intro in 1950s
 - 1968 Architectural Barriers Act
 - 1990 Americans with Disabilities Act (ADA)
- Did the need suddenly arise in the 1950s?
- Who benefits?

<https://dictionary.apa.org/zero-sum-game>
<https://www.economicshelp.org/>

Zero-Sum vs. Non-Zero-Sum Games

The diagram shows two scenarios of two people pulling on ropes attached to each other. In the 'Zero-Sum' scenario, both are pulling away from each other, labeled 'Good alone?' and 'If we cooperate, we can both win!'. In the 'Non-Zero-Sum' scenario, they are pulling towards each other, labeled 'Definitely!' and 'This is much better!'. Below the first scenario is the text 'Zero-Sum' and below the second is 'Non-Zero-Sum'.

Image created by Market Business News

Man using refined cane and hand pump, cane-to-wheel, 1880s.
www.bostonpubliclibrary.org/collections/

[illegible]

QUESTIONS
& ANSWERS



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