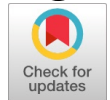


Servant Leadership Meets Health Equity: Examining the Causal Comparative Impact of Black Health Disparities and the United States in the First States to Mandate Implicit Bias Training

Ayanna Alexander-Laine



Abstract: *The racial health disparities gap is widening in the United States. This analysis uses a non-experimental quantitative causal-comparative analysis to support the study's findings. The rates and percentages of Black and National variables were compared to highlight devastating and disproportionate Black health disparities. The data focuses on statistics from some of the first states to require healthcare professionals to take implicit bias training. The health disparities chosen are the most prominent ones plaguing the Black community. Additionally, the article will examine how improving organizational behavior by implementing servant leadership will help improve Black health disparities. The research will highlight Black health disparities, implicit bias, organizational behavior, and servant leadership. The research shows that healthcare professionals become aware of their implicit bias to lead ethically by shifting the organizational behavioral approach toward servant leadership. It also revealed that servant leadership provided a more compassionate, caring, empathetic, selfless, and nurturing form of care that will build trust amongst Black patients and patient-provider relationships, lessening Black health disparities stemming from subconscious implicit decisions. The researcher tested the methodology and found that the data provided a comparative analysis between variables and showed the prevalence of Black health disparities in the United States; however, the analysis did not prove causal inference or cause and effect.*

Keywords: *Servant Leadership, Implicit Bias, Black Health Disparities, Health Equity, Organizational Behavior, Medical Ethics.*

I. INTRODUCTION

According to the National Census Bureau, African Americans make up just 12.4% (41 million) of the population of the United States but suffer from health disparities at disproportionate rates [40]. Additionally, Black women are alarmingly 2-3 times more likely than white women to tragically die from preventable complications during childbirth, highlighting a critical maternal health crisis that demands immediate attention [15].

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*Correspondence Author(s)

Ayanna Alexander-Laine*, Department James T. George School of Business, Hampton University, Hampton, VA, United States of America (USA). E-mail: ayanna.a.alexander@gmail.com, ORCID ID: [0009-0001-1351-0953](https://orcid.org/0009-0001-1351-0953)

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According to Siden et al., 2021, 10% of Black mothers report suffering mistreatment in hospitals due to their race, far surpassing the mere 3% of White mothers who experience similar issues [32]. One factor that fundamentally contributes to disparities is implicit bias, an attitude that unconsciously affects our emotions, understanding, and decisions [45]. Furthermore, Nanney et al., 2019 suggest that reducing racial inequality and eliminating avoidable deaths means approximately 475 to 812 lives saved annually, translating into \$1.2 billion to \$2.9 billion per year in economic savings [28]. The basis of this non-experimental quantitative casual comparative study stems from the first states (California, Maryland, Michigan, Minnesota, and Washington) that recently passed legislation mandating implicit bias training for healthcare professionals [13].

A. Statement of the Problem

According to the CDC, racism in healthcare, both interpersonally and structurally, negatively affects millions of individuals [9]. This racism prevents individuals from attaining higher levels of healthcare and consequently affects the overall health of the United States [9]. Tucker et al. (2014) found that the cultural competency of healthcare providers is a demonstrably effective best practice for reducing chronic disease disparities, which can positively impact provider-patient interactions, patient engagement, and adherence to treatment plans [36]. Additionally, African American women are nearly 50% more likely to have high blood pressure than non-Hispanic white women [41]. Black women are also 40% more likely to die from breast cancer, and Black men and women are 30% less likely to receive revascularization in coronary angioplasty [19]. Revascularization refers to medical treatments that restore blood flow to parts of the heart when the flow is limited or blocked [8]. Due to increasing concerns about healthcare disparities, promoting physician cultural competence has become a priority [27]. Research shows that Black people have significantly higher rates of diabetes, heart disease, and hypertension than other groups; in addition to this, Black children have an asthma death rate that is 500% higher than white children [43]. Moreover, according to Gordon (2022), it is estimated that these health inequities will cost approximately 1 trillion dollars by 2040 if left unaddressed [18]. However, despite these findings, limited research draws reference to Black health disparities and implicit bias.

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Given this information, the researcher will perform a comparative analysis of Black health disparities in the first states that require implicit bias training for healthcare professionals, with health disparity statistics of the United States.

B. Purpose and Significance of the Study

This study aims to fill the knowledge gap by providing research on Black health disparity statistics in the first states that require implicit bias training for healthcare professionals compared to the United States statistics. This research audience is any professionals in healthcare, medicine, organizational management in healthcare systems, organizational behavior, healthcare finance, health equity, healthcare management, and medical ethics boards. Furthermore, this research provides insights for other states wanting and needing to implement implicit bias training within the healthcare industry.

II. RESEARCH QUESTION AND HYPOTHESIS

A. The Research Question of the Study is as Follows:

To what extent does the prevalence of implicit bias among healthcare providers in the first states to require implicit bias training contribute to increased Black health disparity mortality rates in those states, compared to the rest of the United States, independent of other socioeconomic and demographic factors?

B. The Hypothesis of the Study is as Follows:

H0: Black Americans experience higher health disparity mortality rates across the first states to require implicit bias training compared to the rest of the United States, and implicit bias among healthcare professionals significantly contributes to these disparities, independent of other socioeconomic and demographic factors.

H1: Black Americans do not experience higher health disparity mortality rates across the first states to require implicit bias training compared to the United States, and implicit bias among healthcare professionals does not significantly contribute to these disparities, independent of other socioeconomic and demographic factors.

III. ASSUMPTIONS AND LIMITATIONS

The assumptions and limitations of the research include transparency, human error, and statistics [43]. The transparency of healthcare providers and employees may not be fully transparent and may lean on their biases and subjectivity. The limitation of human error is unavoidable and exists in many research studies due to the subjectivity and bias in every human being, whether they realize it or not. The data from this research originates from secondary sources, including state, government, national, and nonprofit entities; some statistical information may vary depending on the data collection method (i.e., rates, percentages, and year). Additionally, due to the nature of the analysis, the data cannot prove conclusive causal inference.

A. Definitions

Below are some terms and descriptions used throughout this research:

- Black Health Disparity – Systemic differences and structural barriers, encompassing factors such as adverse environmental exposures, elevated chronic disease burden, increased violence risk, compromised maternal and child health outcomes, limited access to healthcare and insurance, heightened mortality rates, and reduced life expectancy, disproportionately burdening the Black community [1].
- Health Disparities- Preventable unjust gaps in health outcomes plague disadvantaged communities, leading to higher burdens of disease, injuries, and violence and hindering their ability to thrive [12].
- Health Inequities- A systematic difference in the health status of different population groups [44][45][46][47].
- Implicit Association Test (IAT)- an online computer-based test that measures differences in response latency to reveal implicit bias [6]. During this test, participants are given stimuli such as pictures, words, or labels and must categorize them into opposing classifications as quickly as possible [3].
- Implicit Bias- Unconscious attitudes and beliefs that impact behaviors like body language, tone of voice, receptivity, or decision-making—affect treatment decisions and outcomes [32].
- Organizational Behavior- Focuses on understanding how people behave in corporate work environments. O.B. covers three primary levels of analysis: micro (individuals), meso (groups), and macro (the organization) [4].
- Servant Leadership- Crafted by Robert Greenleaf, servant leaders embody characteristics such as empathy and compassion, persuading the people who follow them to adopt the same characteristics to care for others in the same way [21].
- Structural Racism- Structural racism weaves a web of inequitable systems, from housing segregation to biased algorithms, that disproportionately burden communities of color. This web reinforces discriminatory beliefs and resource distribution, perpetuating a historical legacy of injustice [2].

IV. THEORETICAL FRAMEWORK

This study will examine the theoretical design and framework of the Servant Leadership Theory. Robert Greenleaf first crafted servant leadership in the early 1970s, but a definition was not developed until later in the decade [21]. Servant Leadership happens when the leader's primary goal and responsibility is to serve their people [35]. Servant Leadership's behavioral characteristics of empathy, compassion, and a commitment to healing create a ripple effect, fostering a healthy and well-connected workforce while building trust, collaboration, and sustainable relationships with their community [24]. Additionally, a servant leader focuses on the people directly below them rather than the company. This type of leader ensures that the followers grow in all areas — their profession, knowledge, autonomy, and health and physical development [35].

Servant Leadership Theory has not been a prevalent topic since its creation in the 1970s until now. More recently, servant leadership has generated significant attention in literature for its comprehensive approach to leading [23]. According to Mezu-Ndubuisi (2021), servant leaders hold one another accountable for promoting equity and diversity and put their employees' priorities first [25]. They are doing so by helping them grow as individuals to become healthier, wiser, more accessible, more autonomous, and more likely to serve others [25].

In addition to diversity and inclusion initiatives, leaders of medical institutions should investigate existing structures, policies, procedures, and workplace cultures to unmask hidden or inherent systemic inequities. Organizations should also work to initiate more inclusive and equitable remedies that confer value to every staff member, regardless of sex, race, or ethnicity [25]. Since there are numerous positive benefits, servant leadership is reflected by many as the best leadership model to address the difficulties facing the healthcare industry [33], [34], [31].

Since data shows structural racism is the leading cause of Black health disparities, servant leadership is vital for healthcare managers and providers to focus on empathy, compassion, integrity, trust, helpfulness, respect for others, and empowerment. Mezu-Ndubuisi (2021) emphasizes that authentic servant leadership is not authority but the philosophy of leadership in which the leaders aim to serve the people working for them [25]. Servant leadership holds individuals accountable for promoting equity and diversity. Medical leaders and institutions must investigate existing structures, policies, and workplace cultures to expose these inherent systemic inequities [25]. Additionally, diversity strengthens and determines the productivity and success of all institutions [25].

V. LITERATURE REVIEW

A. Servant Leadership

Mezu-Ndubuisi (2021) states as medical institutions acknowledge the effects of social determinants of health on racial/ethnic minority populations, leadership should also address the impact of systemic racism and unconscious bias on their staff [25]. Authentic leadership is not authority but humble service—servant leadership [25]. Humanely treated employees are more likely to allow themselves to gravitate toward their moral conscience, independent of religion, culture, geography, nationality, race, and sexual orientation [25]. The article exemplifies the need for servant leadership in healthcare institutions and presents the moral and ethical principles they wish to promote in their organization [25]. (Tucker et al. (2011) explain that culturally competent healthcare systems are a powerful tool for tackling chronic disease disparities, empowering patients, improving patient-provider interactions, and fostering equitable health [36].

Since servant leadership also strives to increase a safe space for staff to express themselves, it is imperative that healthcare institutions also take responsibility and provide safe spaces where bias and microaggressions can be reported [25]. Additionally, servant leaders prioritize creating an environment where employees can develop their strengths, knowledge, and well-being. These characteristics

enable them to make autonomous decisions, contribute meaningfully, and positively impact others [25]. Frederick (2021) provides additional context to what providers look at when returning patients home after discharge [17]. The article provided a better understanding of patients expressing the need for continued care and getting discharged against their will [18]. Frederick's research suggests there is room to build upon and add to their study, allowing the researcher to provide knowledge of how to fill the gaps in the research.

B. Implicit Bias in Healthcare

Studies conducted by FitzGerald & Hurst (2017) showed a significant correlation between high levels of physician implicit bias against Black patients on the IAT scores and interactions that were negatively rated by Black patients and, in one study, negatively rated by external observers [16]. A subsequent study using clinical vignettes confirmed a significant correlation between IAT scores and doctors with higher pro-white implicit bias; they were more likely to recommend preferred treatment options for white patients [16]. Additionally, twenty out of twenty-five assumptions studies found that some type of bias existed in either the diagnosis, treatment recommendations, number of questions asked of the patient, the number of tests ordered, and other responses that indicate discrimination against the patients examined [16].

Blair et al. (2011) provide a clinical example of how implicit provider bias harms Black patients. For example, imagine a doctor unknowingly influenced by unconscious bias against an elderly Black male patient with uncontrolled blood pressure. Though unaware, the doctor perceives the patient as uncooperative, even wrongly remembering they can't afford medication; this leads to not intensifying treatment, leaving the patient's health at risk [6]. Another example would be a Black mother who is already facing the immense physical and emotional stress of childbirth, being denied proper pain management because of harmful stereotypes. Picture her pleas for relief ignored, her pain dismissed, and the joy of childbirth overshadowed by unnecessary suffering. This type of treatment is the devastating reality faced by many Black mothers due to implicit bias in healthcare. A study conducted by Penner et al. (2016) revealed a concerning link between 112 Black cancer patients and the IAT results (Implicit Association Test) of 18 non-Black oncologists. The study found that patients seen by doctors with higher implicit bias scores reported difficulty recalling information and perceived a lack of patient-centered care during their appointments, suggesting a potential link between implicit bias, less time interacting with patients, and communication challenges [30]. Another analysis by Cooper et al. (2012) indicated that clinicians associated Black patients with being less cooperative with treatment in comparison with white patients and that Black patients experienced less patient-centered care and more significant implicit bias [13]. While those positioned in power might be oblivious, systemic racism imposes barriers and burdens on marginalized communities, often undetected by its very targets, individuals who are privileged by it [14].



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One reason is that it does not require the conscious prejudice of individuals and groups; for an institution to be racist, it need not state racist policies [14]. Very seldom will you find institutions with overt guidelines that explicitly show racism; hence, healthcare systems are perceived as a catalyst for institutional racism if left unaddressed. A prime example is African American patients receiving inadequate healthcare compared to white patients who seek medical care. In Green et al. (2007) research, physicians show no explicit preference for white versus Black patients or difference in perceived cooperativeness; however, the IAT (Implicit Association Test) revealed implicit preference favoring white Americans and implicit stereotypes of Black Americans as less cooperative with medical procedures and generally less cooperative [20].

VI. RESEARCH METHODOLOGY

The research methodology for this analysis will be a non-experimental quantitative causal-comparative analysis, comparing variables of Black health disparities in states that implemented implicit bias training and the rest of the United States. The researcher used a causal-comparative design to show the drastic difference between the two variables. Also implied is that the implicit bias that Black people face in healthcare systems affects their overall health and causes elevated health disparities in the Black community [42]. This design uses secondary data and acknowledges the ethical and logistical challenges of implicit bias in a setting without manipulating variables. The methodology is derived from statistical health disparity information from several government, state, and nonprofit research organizations in some of the first states to make laws requiring Implicit Bias Training for healthcare professionals: California, Maryland, Minnesota, Michigan, and Washington. The charts display some of the most prevalent Black health disparities, which include asthma, diabetes mellitus, heart disease mortality, hypertension, maternal mortality, infant mortality, and overall life expectancy.

VII. RESEARCH DESIGN

The study reflects the sample size and population of the United States, which comprises of approximately 334.9 billion, with the Black population accounting for 13.6% of that total [40]. As far as the states are concerned, California has a population of roughly 39 million with a Black population of 6.5%, Maryland 6.1 million with a Black population of 31.7%, Michigan 10 million with a Black population of 14.1%, Minnesota 5.7 million with a Black population of 7.7%, and Washington 7.8 million with a Black population of 4.6% [39]. The researcher gathered statistics from state and government databases from 2017 to 2023. These statistics were the most recent rates and percentages available. Aliments such as asthma, diabetes, hypertension, maternal mortality, and life expectancy reflect the number of deaths per 100,000 individuals in the population. Meanwhile, the number of deaths per 1,000 individuals serves as an indicator of infant mortality.

To better understand the severity of these disparities, the researcher conducted a non-experimental quantitative causal-comparative analysis of Black health disparities in the first states to implement implicit bias training requirements compared to health disparities of the United States population.

VIII. DATA ANALYSIS AND RESULTS

California

California			
Health Disparity by Ailment	Black/African American	United States	Black Rate /Percentage Above/Below National Statistics
Asthma	21.5	7.7 / 8%	13.8
Diabetes Mellitus	17.50%	10.90%	6.6
Heart Disease Mortality	197.3	161.5	35.8
Hypertension	39.70%	48.10%	-8.4*
Maternal Mortality	45.8	32.9	12.9
Infant Mortality	8.5	2.4	6.1
Life Expectancy	75.1	76.1	-1*

Table 1. Data collected from the Agency for Healthcare Research and Quality- ahrq.gov, American Heart Association- heart.org, American Lung Association- lung.org, Center of Disease Control – cdc.gov, National Healthcare Quality and Disparities Report, National Institute of Health- nih.gov, National Institute on Minority Health and Health Disparities – nimhd.nih.gov, The Office of Minority Health hhs.gov
*Percentage or rate below the United States average

Maryland

Maryland			
Health Disparity by Ailment	Black/African American	United States	Black Rate /Percentage Above/Below National Statistics
Asthma	16.2	7.7 / 8%	8.5
Diabetes Mellitus	12.60%	10.90%	1.70%
Heart Disease Mortality	190	161.5	28.5
Hypertension	42.80%	48.10%	-5.30%*
Maternal Mortality	44.1	32.9	11.2
Infant Mortality	10.2	2.4	7.8
Life Expectancy	70.8	76.4	-5.6*

Table 2. Data collected from: Agency for Healthcare Research and Quality- ahrq.gov, American Heart Association- heart.org, American Lung Association- lung.org, Center of Disease Control – cdc.gov, National Institute of Health- nih.gov, National Institute on Minority Health and Health Disparities- nimhd.nih.gov, The Office of Minority Health hhs.gov
*Percentage or rate below the United States average

Michigan

Michigan			
Health Disparity by Ailment	Black/African American	United States	Black Rate /Percentage Above National Statistics
Asthma	17.3	7.7 / 8%	9.6
Diabetes Mellitus	16.60%	10.90%	5.70%
Heart Disease Mortality	271.7	161.5	110.2
Hypertension	42.60%	48.10%	-5.5
Maternal Mortality	69.9	32.9	37
Infant Mortality	13.3	2.4	10.9
Life Expectancy	74.1	78.2	-4.1*

Table 3. Data collected from: Agency for Healthcare Research and Quality- ahrq.gov, American Heart Association- heart.org, American Lung Association- lung.org, Center of Disease Control – cdc.gov, National Institute of Health- nih.gov, National Institute on Minority Health and Health Disparities- nimhd.nih.gov, The Office of Minority Health hhs.gov
*Percentage or rate below the United States average



Minnesota

Minnesota			
Health Disparity by Ailment	Black/African American	United States	Black Rate /Percentage Above National Statistics
Asthma	16.2	7.7 / 8%	7.7
Diabetes mellitus	10.10%	10.90%	-0.8*
Heart Disease Morality	279.5	161.5	118
Hypertension	56%	48.10%	7.9
Maternal Mortality	40.5	32.9	7.6
Infant Mortality	8.5	2.4	6.1
Life Expectancy	74.2	76.1	-1.9*

Table 4. Data collected from: the Agency for Healthcare Research and Quality- ahrq.gov, American Heart Association- heart.org, American Lung Association- lung.org, Center of Disease Control – cdc.gov, National Institute of Health- nih.gov, National Institute on Minority Health and Health Disparities- nimhd.nih.gov, The Office of Minority Health -hhs.gov, www.health.state.mn.us, <https://www.health.state.mn.us/news/pressrel/2022/maternal080322.html>
*Percentage or rate below the United States average

Washington

Washington			
Health Disparity by Ailment	Black/African American	United States	Black Rate /Percentage Above National Statistics
Asthma	15.60%	7.7 / 8%	7.60%
Diabetes Mellitus	14.30%	10.90%	3.4
Heart Disease Mortality	325	161.5	163.5
Hypertension	44.30%	48.10%	-3.8*
Maternal Mortality	78	32.9	45.1
Infant Mortality	9.6	2.4	7.2
Life Expectancy	70.8	76.1	-5.3*

Table 5. Data collected from: Agency for Healthcare Research and Quality- ahrq.gov, American Heart Association- heart.org, American Lung Association- lung.org, Center of Disease Control – cdc.gov, National Institute of Health- nih.gov, National Institute on Minority Health and Health Disparities- nimhd.nih.gov, The Office of Minority Health -hhs.gov
*Percentage or rate below the United States average

United States

United States			
Health Disparity by Ailment	Black/African American	United States	Rate /Percentage Above National Statistics
Asthma	10.40%	7.7 / 8%	2.70%
Diabetes Mellitus	15.50%	10.90%	4.60%
Heart Disease Mortality	203.3	161.5	41.8
Hypertension	50.60%	48.10%	2.50%
Maternal Mortality	69.9	32.9	37
Infant Mortality	10.4	2.4	8
Life Expectancy	72.7	76.1	-3.4*

Table 6. Data collected from, Agency for Healthcare Research and Quality- ahrq.gov, American Heart Association- heart.org, American Lung Association- lung.org, Center of Disease Control – cdc.gov, <https://www.cdc.gov/nchs/data/hsus/2020-2021/SlectMort.pdf>, National Institute of Health- nih.gov, National Institute on Minority Health and Health Disparities- nimhd.nih.gov, The Office of Minority Health -hhs.gov
*Percentage or rate below the United States average

The data shows that Black health disparities are disproportionately higher compared to the entire United States. The data collected was from several state, government, and nonprofit organizations that specialize in gathering statistical health information. By analyzing the charts, data illustrate a concerning gap in health disparities for Black communities compared to national figures. For example, Maryland's Black infant mortality rate is 10.2, considerably more elevated and more than four times the national rate of 2.4 (Table 2). California also has a high Black infant mortality rate of 8.5, a rate of 6.1 above the national rate of 2.4 (Table 1).

This unfortunate pattern is also prevalent in Michigan, Minnesota, Washington State, and the rest of the United States (Table 1; Table 4; Table 5; Table 6). Additionally, Black birthing mothers in Minnesota make up 13% of the population; however, they disproportionately suffer 23% of their pregnancy-related deaths [26]. One of Minnesota's primary goals for preventing future deaths is to address bias within the systems that create and increase disparities in the birthing population by acknowledging the historical trauma and racism that impacts Black mothers [26]. As mentioned, in the United States, "Black women are three times more likely to die from a pregnancy-related cause than white women" [10]. Which statistically translates to a national Black maternal mortality rate of 69.9 and a national maternal mortality rate of 32.9 (Table 6). The aforementioned is a rate difference of 37 more than the national rate. Many factors contribute to these disparities, including variations in quality healthcare, underlying chronic conditions, structural racism, and implicit bias [10]. However, research throughout these states suggests that implicit bias is a common denominator in the high rates of Black health disparities. Even in the states where disparities are not as alarming, it is more likely due to the low population of Black individuals in that state.

Taking a closer look at the analysis, statistics from the state of California showed that Black people feared worse in all ailments except when compared to the national hypertension statistic. Very few instances reveal Black disparities being statistically less than the national variable. The research for California showed that all Black health ailments, except for one, surpassed the national rate and percentage. These findings are devastating, considering that Black people only make up approximately 6.5% of the population in California. Furthermore, the chart shows that maternal mortality and infant mortality rates are just as disturbing.

Nationally, Black women are three times more likely to die from pregnancy-related complications than white women [10]. Maternal mortality affects Black mothers at a much higher rate than any other race; it is also a particular disparity that involves a more specific demographic: women. California's Black maternal mortality disparity is an alarming 45.8, and the infant mortality rate is at a shocking 8.5, compared to the national rate of 2.4 (Table 1).

The state of Maryland has a similar outcome, with Black health disparities disproportionately more prominent in the Black community.



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However, the research showed a national hypertension percentage of 48.1%, slightly higher than the Black state hypertension percentage of 42.80% (Table 2). Similarly, this is also a disproportionate percentage, considering the Black population in Maryland is only 31.7 % (Table 2) [37].

According to the data collected, heart disease mortality, hypertension, maternal mortality, and asthma infant mortality show the most devastating disparities in Maryland. Moreover, the state of Michigan shows a prevalence of ailments such as heart disease, mortality, hypertension, diabetes mellitus, asthma, infant mortality, and life expectancy, all above the national statistics. Black people represent roughly 14.3% of the population of Michigan but suffer the most health disparities (Table 3) [38]. Subsequently, research paints a grim picture, revealing pervasive Black health disparity mortality exceeding national rates and percentages.

Comparably, in Minnesota, Black individuals only account for 7.6% of the population; however, they suffer significant disparities [39]. More specifically, the contrast between diabetes mellitus of Black people at 10.10% compared to the national rate of 10.90% is a difference of -0.8% (Table 4). Even though this statistical comparison does not show a noticeable disparity, in retrospect, the Black population makes up only 7.6% of the state population but suffers at a similar rate as the whole nation. The charts display that even though a few Black health disparities in this research are slightly below the national variable, they can still be unfavorable toward the Black population. According to the analysis, heart disease mortality illustrates one of the most prominent disparities in Minnesota. Black people suffer at a rate of 279.5 and a national rate of 161.5, a Black and national rate difference of 118 (Table 4). Comparably, Washington has an equally high heart disease mortality rate of 325 for the Black population and 161.5 for the national rate (Table 5). Additionally, the maternal mortality rate in Washington continues to reveal an unsettling pattern of four times the national rate (Table 5).

Overall, Black people have a lower life expectancy rate of 72.7 years of age compared to the national life expectancy rate of 76.1 years of age (Table 6). Parallel to the other states, the mortality disparities such as heart disease mortality, maternal mortality, and infant mortality rates also show disproportionate statistics in some associations and are far above the national variable. For instance, the national Black infant mortality rate is 10.4, and the national infant mortality rate is 2.4 (Table 6). This comparison shows that on a national level, Black infants die four times more than the national rate.

IX. CONCLUSION

Implicit bias is a significant contributor to Black health disparities. However, little research compares servant leadership as an organizational behavioral approach to combating implicit biases in Black health disparities. The data for these disparities is derived from the most recent statistical information and ranges from 2017 to 2023. Additionally, Minnesota disclosed that in 2022, it released its first-ever Minnesota Maternal Mortality Report, which examines maternal deaths for one year, 2017-2018 [26]. Healthcare disparities are a severe problem in the United States, and research shows that some disparities are more

prevalent than others. Given the results of the non-experimental quantitative causal-comparative analysis, the findings suggest a potential association between the healthcare professional's implicit bias and the devastating statistics of Black health disparities compared to the United States. Furthermore, the data provides a comparative analysis between variables and shows the prevalence of health disparities among Blacks in the United States; however, the analysis does not prove causal inference or cause and effect. While the analysis acknowledges association, researchers can explore further mechanisms to show cause and effect between healthcare professional implicit bias and the increase of Black health disparities compared to the United States.

It is imperative to recognize that these disparities are real and should not be ignored. The fact that some disparities are more prevalent than others suggests that underlying factors drive these disparities. It is essential to identify and address these factors to reduce healthcare disparities and improve the health of all Americans. Research suggests that a servant leadership approach can help to combat these disparities by fostering an organizational culture of empathy, integrity, selflessness, compassion, and humility. While healthcare systems are about providing patient care, servant leadership is the most dominant model in healthcare infrastructures. Servant leaders possess qualities such as empathy, awareness, foresight, stewardship, healing, moral core, building community, and commitment to the growth of people [34]. These traits and characteristics are ideal for caring for Black health disparities because they exude a certain level of patient care, and individuals are more inclined to lead ethically and morally. Subsequently, the researcher believes this is just the beginning of solving a critical problem in healthcare. Understanding Black health disparities is vital to the growth and development of healthcare systems, Black people's health, and health equity advancement.

The first step in addressing such disparities is acknowledging they exist and taking the correct measures to eliminate them. There is a significant gap in the research about Black health disparities and ways to eliminate them, which is why healthcare researchers have emphasized the need to investigate more on this topic. Moreover, recent studies indicate that healthcare providers hold unconscious bias through an Implicit Association Test (IAT) [3]. However, the states mentioned have taken a proactive approach, and by law, implicit bias training is mandatory for most licensed healthcare professionals in their given state.

Hence, the findings in this study support the need for implementing servant leadership throughout all healthcare infrastructures. Moreover, research proves that servant leadership is the best leadership style in healthcare organizations. This leadership style can positively impact and lessen Black health disparities and significantly affect health equity. Since data suggests implicit and explicit bias as the root causes for these disparities, the researcher recommends that each state conduct a similar analysis and cross-examine the differences between these disparities compared to Black and national averages. Only then will healthcare institutions be able to statistically see the pattern of Black people dying or experiencing poor quality of care in preventable situations.



According to the California legislature, the United States shows that most people have an implicit bias that disfavors African Americans and favors Caucasian Americans, which results from a long history of subjugation and exploitation of people of African descent [7].

Furthermore, research also shows that we can minimize their negative influence on our interactions and decisions by acknowledging unconscious biases and actively challenging them through self-reflection, education, and conscious decision-making [8]. Black health disparities are a devastating pattern amongst many health ailments across several states (California, Maryland, Michigan, Minnesota, and Washington State); research suggests that a servant leadership approach is beneficial for healthcare professionals to help combat Black health disparities. Since there is no one-size-fits-all approach to decrease these disparities, it is up to the state to determine which training methods work best for their state.

A study by Oliver et al. (2014) reveals that participants acknowledged the influence of unconscious bias and embraced the opportunity to learn, recognizing the potential to improve patient care through increased awareness and self-reflection [29]. For these reasons, healthcare organizations should adopt the organizational behavioral approach to improve leadership by implementing servant leadership to help providers and medical personnel lead with empathy, integrity, selflessness, compassion, and humility while caring for patients' needs and helping to eliminate implicit bias. Austin et al. (2021) state that healthcare systems need to be more transparent in reporting these disparities as a part of their quality matrix [5]. Acknowledging these biases brings forth mechanisms to hold healthcare systems accountable for their patients. Transparency offers building blocks of trust to people of color and other marginalized populations, providing an avenue towards healing from a history of ethical medical abuse and medical mistreatment [5].

Implicit biases saturate healthcare systems and affect patients via patient-clinician communication, clinical decision-making, and institutionalized practices [42]. Servant leadership has shown to be the best model for healthcare organizations mainly because it focuses on the team's strength, building trust, and serving the needs of its patients [34]. Healthcare servant leaders may be the best equipped to make changes in organizations and build provider-patient relationships that improve patient care [34]. Also, Servant leadership's ethical and moral aspects encourage providers to look for the patient's physical, emotional, and financial needs first [34].

Moreover, the research question and hypothesis are positively associated with servant leadership improving organizational behavior in combating Black health disparities. However, there is room for further alternative explanations through experimental designs. The positive effects of servant leadership play a significant role in understanding cultural competence, caring for patients, and displaying compassion and empathy. This analysis of Servant Leadership and Black health disparities was excellent in connecting the devastatingly high rates and percentages of Black health disparities throughout several states. It proved that these disparities exist in alarming rates and percentages. Hence, the states mentioned require mandatory implicit bias

training for licensed healthcare professionals. Additionally, the findings of Trastek et al. (2014) show that when applying servant leadership, management becomes more mindful and focused on the team's strength, developing trust, and serving the needs of patients [34]. As servant leaders, healthcare providers are best equipped to make changes in the organization and the provider-patient relationship to improve the value of care for patients.

The CDC (2021c) states, "To build a healthier America for all, we must confront the systems and policies that have resulted in the generational injustice that has given rise to racial and ethnic health inequities" [11]. At the CDC, "we want to lead in this effort—both in the work we do on behalf of the nation's health and the work we do internally as an organization" [11]. Healthcare institutions can use this as a learning tool to help understand how important it is to combat biases at all levels of healthcare institutions. Training your workforce to practice servant leadership to better care for Black patients will help reduce their disparities, improve the quality of care, and save lives. The researcher also believes that if we solve the most complex healthcare issues, that format and template can tackle similar areas of bias to improve health outcomes for all. If providers and management have control of how they treat their Black patients and the health of these Black patients is continuously being compromised, that's a level of human error inflicted on Black patients, ultimately causing adverse health outcomes. Thus, it concludes that biased providers, clinicians, and management contribute to Black health disparities.

In conclusion, considering the findings of the analysis, recommendations for future research, annual progression reports, continued qualitative and quantitative analysis, and any research that contributes to the cause of decreasing health disparities in the Black community can help save lives.

Servant leadership lead implicit bias training, cultural competency, and sensitivity training need to be a part of the organizational behavioral framework that governs healthcare institutions. Mindfulness training is also beneficial because if individuals are missing red flags in caring for Black patients, something in them needs to be ignited and understood as to why practitioners make suboptimal decisions when caring for Black patients. Additionally, Healthcare systems should actively integrate thoughtful training to address racism, reduce biases, and increase patient-centered care, making it accessible to all community members [22].

Lastly, professionals should always work on developing equitable and inclusive healthcare for all. "Of all the forms of inequality, injustice in health care is the most shocking and inhumane."—Martin Luther King, 1966

DECLARATION STATEMENT

Authors must include a declaration of accountability in the article, counting review-type articles, that stipulates the involvement of each author. The level of detail differs; Some subjects yield articles that consist of isolated efforts that are easily voiced in detail, while other areas function as group efforts at all stages.



Servant Leadership Meets Health Equity: Examining the Causal Comparative Impact of Black Health Disparities and the United States in the First States to Mandate Implicit Bias Training

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AUTHOR PROFILE



Ayanna Alexander-Laine is a doctoral student at Hampton University. The publication of this article precedes the traditional proposal and defense of her dissertation. Ayanna holds undergraduate degrees in Sociology and Psychology from Louisianan Tech University and a Master of Business in Management from Marymount University. She has roughly 20 years

of experience in healthcare and healthcare systems. Ayanna is an Olympian, a former professional track and field athlete in the triple jump, a multiple Commonwealth Games medalist, and holds several other international medals. She has always been a champion of health and wellness as a professional athlete and in her everyday life, spreading the importance of health equity in her travels worldwide. Her research in health equity, Black maternal health, healthcare management, healthcare finance, and medical ethics reflects her unwavering commitment to health and wellness. She champions innovative solutions to bridge the healthcare gap and continues to show dedication to advancing healthcare systems and health equity.

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