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ORIGINAL RESEARCH

Racial Difference in the Relationship Between Health and Happiness in the United States

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Aim: To understand if Black and White adult Americans differ in the effects of self-rated health (SRH) on happiness.

Methods: This cross-sectional study used data from the General Social Survey (GSS; 1972–2018), a nationally representative survey in the US. Our analytical sample included 42,201 Black and White adults. The independent variable was SRH. Happiness was the dependent variable. Sociodemographic factors were covariates. Race was the moderator. Logistic regression was used to analyze the data without and with interaction terms between race and SRH.

Results: Overall, good SRH was positively associated with happiness, however, there was a significant interaction between race/ethnicity and good SRH on the outcome (i.e. happiness). This finding suggested that the boosting effect of good SRH on happiness is weaker for Black than White people.

Conclusion: In the United States, due to a weaker concordance between good health and happiness, Blacks who have poor SRH are more likely to report happiness. At the same time, Whites who are healthy report happiness, however, Blacks who are healthy do not necessarily report happiness. Disjointed link between health and happiness may be due to different racial, ethnic, and cultural perceptions of physical health and happiness as well as salience of physical health as a component of happiness. This may be an adaptive response of Blacks to sociopolitical as well as health-related adversities over centuries as a result of the combination of oppression, injustice, and poverty.

Keywords: population groups, Blacks, Whites, race/ethnicity, self-rated health, happiness

Introduction

There is abundant evidence showing happiness is influenced by both physical and mental health. Chronic physical illness as well as mood, anxiety, and other mental disorders can greatly reduce happiness.¹ Happiness is recognized as being influenced by endogenic dimensions (biological, cognitive, and personality factors) and exogenic factors (health status, socio-demographics, behavioral factors, and life events).^{2,3} Physical health is critical in constructing and evaluating happiness,^{2,3} which is a major component of life satisfaction.^{3,4} The strong linkage between physical health and happiness is state-dependent (rather than a stable trait).^{5,6} For example, physical conditions such as chronic pain, arthritis, cardiovascular disease, and kidney disease may reduce happiness through causing depression and anxiety.⁷

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© 2020 Cobb et al. This work is published and licensed by Dove Medical Press Limited. The full terms of this license are available at https://www.dovepress.com/terms.php and incorporate the creative Commons Attribution – Non Commercial (unported, v3.0) License (http://creativecommons.org/licenses/by-nc/3.0/). By accessing the work you hereby accept the tirms. Non-commercial uses of the work are permitted without any further permission from Dove Medical Press Limited, provided the work is properly attributed. For permission for commercial use of this work, please see paragraphs 4.2 and 5 of our Terms (http://www.dovepress.com/terms.php). The interrelationship between physical and mental health may differ across racial/ethnic groups, specifically Whites and Blacks. For example, Blacks are more likely to have co-occurring physical and mental comorbidities than Whites.⁸ Nobles and colleagues found the association between lifetime history of trauma and diabetes to be higher among Blacks compared to Whites.⁹ Blacks and Whites with better physical health have higher levels of happiness.¹⁰ However, Blacks and Whites may differ in the association between the two.

MDR Literature

According to the Minorities Diminished Status (MDRs) theory,¹¹ the marginal utility of resources may be weaker for Blacks than Whites. For example, the return of socioeconomic status (SES) resources are systematically smaller for minority groups, such as Blacks, when compared to Whites.¹² The concordance between factors that are expected to covary are weaker in Black people compared to White people. It has been established that SES is a primary determinant of adverse physical and mental health outcomes.^{13,14} Further, it has been found that household income is more protective for Whites against chronic medical conditions as compared to Blacks.¹⁵ Another example is that education and income show a weaker association in Blacks than Whites. Blacks are less likely to experience upward mobility based on parental and selfeducational attainment.^{16,17} Similarly, the reciprocal association between positive and negative affect is stronger for Whites than Blacks, who endorse higher levels of negative affect.¹⁸ Similar to the marginal return of SES^{19,20} and coping,²¹ physical health may show a weaker utility for generating happiness for Blacks than Whites. In this view, due to a diminished health-happiness gradient, Blacks may show less increase in happiness even if they are healthy, however, for Whites, health would be more likely to improve happiness. This may explain the observation that highly educated and high income Black men are at an increased rather than reduced risk of depression.²²⁻²⁴

We may also expect a disjointed concordance between health and happiness according to the Black-White mental health paradox. The Black-White mental health paradox can be defined as better mental health of Blacks, compared to Whites, despite of higher prevalence of health problems as well as stress and adverse life conditions.^{25–29} Keyes found Blacks are highly resilient regardless of diminished returns, SES, and exposure to discrimination, as evidenced by their lower rates of mental illnesses.²⁶ Assari found the association between depression and chronic medical conditions to be weaker among Blacks compared to Whites.²⁵ Other supporting evidence has shown that mental health symptoms may be predictive of worsening health status, including mortality, for Whites but not Blacks.³⁰ Jackson and colleagues have found that Blacks, who are more likely to live in stressful environments with multiple disparities, may reduce their mental stress symptoms though engagement in unhealthy lifestyle behaviors.³¹ While they can alleviate symptoms of stress, these behaviors increase the risk for higher morbidity and mortality for this group.

Another argument suggesting a disjoint between SRH and happiness is that racial differences may exist in the definition and perception of happiness in the context of SRH, and what poor SRH reflects. Many studies have documented Black-White differences in correlates of happiness³² and SRH.^{33–35} For Whites, SRH seems to be strongly affected by physical health as it may operate as a sponge that also absorbs social relations and promotes greater mental well-being. This may not be true for Blacks. Among Blacks, demographic and SES factors greatly impact the association between mental illness and SRH.³⁶ For example, a study by Assari showed that the association between mental illnesses and physical SRH was explained by SES factors.³³ In some other studies, SRH better reflected risk of mortality for Whites than Blacks.³⁷ This may be because Whites may have a narrower definition of happiness and health, while for Blacks these may be different and also may be more inclusive to social factors. For example, Blacks were more likely to experience depressive symptoms if they reported mobilities issues, worse access and quality of healthcare resources, lower functional status, and limiting of social activities due to chronic health conditions.³⁸ Further, they report high levels of selfesteem in spite of greater encounters with traumatic stress exposure.²⁸ Another explanation is that physical illness and disability are more acceptable in the Black culture, and as a result, they may not as negatively affect their happiness, compared to Whites.

Research by Other Groups

Multiple studies have tested combined effects of race and SES on health. These studies have collectively provided evidence for the continuing significance of both race and SES in determining health status, however, in complex ways. In a study, Geronimus, Hicken, Keene, and Bound compared Black and White adults for the roles of age and SES on biological markers of health (allostatic load

scores). The paper showed that Blacks experience early health deterioration, reflected in their biological indicators of repeated exposure and adaptation to stressors, however, this is not simply due to SES. Using data from the National Health and Nutrition Examination Survey data, the study showed that Blacks have higher allostatic load scores than did Whites at all ages, particularly at 35-64 years. Authors concluded that racial inequalities in health exist across a range of biological systems and are not all due to racial differences in poverty. The study proposed that combination of living in a race-conscious society and engagement in high-effort coping are likely to have physiological toll.³⁹ Howard and Sparks also conducted a study to expand the earlier findings of racial/ethnic and education-allostatic load associations. The study investigated the persistence of racial differences in allostatic load across all levels of educational attainment. Borrowing data from four recent waves of the National Health and Nutrition Survey (NHANES), their study suggested that race/ethnicity and educational attainment affected allostatic load; however, the effect of race/ethnicity was inconsistent across education level. Analysis of interactions showed that allostatic load levels did not differ by race/ ethnicity in the lowest sections of society (based on education) and largest for Mexican Americans (p < 0.01) and non-Hispanic Blacks (p < 0.001) in those with a college degree or more. This finding was attributed to differential returns to education by race/ethnicity.⁴⁰ Finally, Farmer and Ferraro used the US National Health and Nutrition Examination Survey to compare racial health disparities between White and Black adults by SES. Authors found interactions between race and education/employment on health outcomes. Their study showed that the racial disparity in self-rated health was largest at the higher levels of SES, suggesting that SES generates "diminishing returns" for Black adults than White adults.⁴¹

Aims

To better understand racial differences in the association between health and happiness of American adults, we compared American Black and White adults for the effects of good SRH on happiness. Based on previous work on Blacks' mental health paradox^{25,27} and diminished returns of resources for Blacks compared to Whites (i.e. MDRs),^{42–45} we expected a weaker association between good SRH and happiness in Blacks than Whites. To generate generalizable results, we used a nationally representative sample.

Methods

Design and Setting

The General Social Survey (GSS; 1972–2018) is a state-of -the-art social survey of American adults. The GSS is conducted annually from 1972 to 2018 by the University of Chicago to monitor the societal change and social trends of the American society over time. The GSS is mainly funded by the National Science Foundation (NSF).

Ethics

The GSS study protocol is approved by the University of Chicago Institutional Review Board (IRB). All GSS participants have provided informed consent. The current study, however, was not human subject research as all the data were public and fully deidentified.

General Social Survey (GSS)

The GSS gathers extensive data on the social aspects of the contemporary American society. This study has continued to monitor the trends of attitudes, behaviors, and beliefs of American adults for over 4 decades since 1972. The GSS helps us understand how the American individuals and society as whole have changed. It also sheds light on the changes of different demographic groups over these decades. This study provides a unique opportunity to investigate sub-population variation based on gender, race/ ethnicity, and class. The data have also provided a unique opportunity to compare US subgroups over time . Some of the variables cover sociological, economical, demographic, and policy-making-related aspects of health and happiness.

Analytical Sample

The current study included all Black or White adults who had participated in the GSS from 1974 to 2018 and had data on SRH and happiness. This was a total number of 42,201 people. From all, 35,802 people were White (84.8%) and 6399 people where Black (15.2%).

Study Measures

Study variables included age, gender, race/ethnicity, educational attainment, employment status, marital status, year of the survey, as well as SRH, and happiness.

Independent Variable Self-Rated Health (SRH)

SRH was measured using a 4-level categorical variable. The exact item was "Would you say your own health, in general, is excellent, good, fair, or poor?" Potential responses were excellent, good, fair, or poor. We merged excellent and good as good health (coded as 1) and fair and poor as poor SRH (coded as 0). This variable is commonly operationalized as a categorical (binary) variable to compare poor (poor/fair) and good (excellent/good) as the outcome. As shown by Idler and others, SRH is a strong and independent predictor of mortality.⁴⁶

Outcome

Happiness

General happiness was measured using a single item. The item reads as: "Taken all together, how would you say things are these days – would you say that you are very happy, pretty happy, or not too happy?" Responses were 1) very happy, 2) pretty happy, and 3) not too happy. This variable was operationalized as a categorical (binary) variable (1 being very happy/pretty happy, 0 not too happy).

Moderator

Race/Ethnicity

Self-identified race and ethnicity were measured as a three-level categorical variable: Whites 0 [the reference group], Blacks 1), and other race/ethnic groups 2.

Confounders

Age (years), race/ethnicity, and year of survey were the study covariates. Age was an interval variable, measured in years.

Gender

Gender (men 0, women 1) was a binary variable.

Year of the Survey

Year of study was operationalized as an interval variable ranging from 0 to 46 (reflecting the study years 1972 to 2018) (Table 1).

Educational Attainment

Education attainment was measured as years of schooling, varying from 0 to 20. It was treated as an interval measure (a higher score reflecting higher education attainment/ years of schooling).

Fulltime Employment

Employment was measured as an ordinal variable, with categories: "1) Working Full-time, 2) Working Part-time, 3) Temporarily Not Working, 4) Unemployed, Laid Off, 5) Retired, 6) School, 7) Keeping House, and 8) Other". We

recoded this variable as a binary variable with working full-time as 1 and other status as the reference group.

Marital Status

Marital Status was also assessed as a binary variable: Married, widowed, divorced, separated, and never married. Married was coded as 1 and other statuses were the referent category (coded as 0).

Statistical Analysis

Data were analyzed using SPSS 22.0. Although each 1. We did not apply GSS sampling weight because that is only available for 18 of 32 years (https://gssdataexplorer. norc.org/variables/5593/vshow). We reported frequency (%) and mean (standard error; SE) to describe our participants overall as well as by race/ethnicity. We used Chisquare or independent t-tests to compare race/ethnic groups for our study variables. Overall, we ran four logistic regression models for data analysis. The first two models (Model 1 and Model 2) were performed in the pooled sample that included all race/ethnic groups. Model 1 only had the main effects. Model 2, however, also included the race/ethnicity by SRH interaction term. Model 3 and Model 4 were performed in Whites and Blacks, respectively. Age, gender, educational attainment (years of education), employment status and marital status were covariates, good SRH was the primary predictor (independent variable), and year of survey were the covariates. Race/ethnicity was the moderator. Odds Ratio (OR), SE, 95% CI, and p values were reported.

Results

Descriptive Statistics

The total sample of 42,201 were drawn between 1972 and 2018. Each year about 2% to 6% of the sample was drawn (Table 1).

This study included 42,201 people. From this number, 35,802 people were White (84.8%) and 6399 people where Black (15.2%). Black and White people differed in gender, age, education, marital status, SRH, and happiness. Blacks were younger than Whites (43.56 vs 46.56; p <0.05). Blacks were more women than Whites (61.4% vs 54.7%; p <0.05). Blacks had lower education than Whites (highest education = 4.2% vs 12.5%; p <0.05). Blacks were also less likely to be married than Whites (34.7% vs 57.3%; p <0.05). Finally, Blacks were less likely than Whites to

Year	All		Whites		Blacks		
	n	%	n	%	n	%	
1972	1601	3.8	1341	3.7	260	4.1	
1973	1485	3.5	1304	3.6	181	2.8	
1974	1472	3.5	1303	3.6	169	2.6	
1975	1481	3.5	1318	3.7	163	2.5	
1976	1489	3.5	1360	3.8	129	2.0	
1977	1512	3.6	1336	3.7	176	2.8	
1980	1451	3.4	1312	3.7	139	2.2	
1982	1828	4.3	1322	3.7	506	7.9	
1984	1388	3.3	1224	3.4	164	2.6	
1985	1486	3.5	1336	3.7	150	2.3	
1987	1725	4.1	1203	3.4	522	8.2	
1988	926	2.2	796	2.2	130	2.0	
1989	982	2.3	881	2.5	101	1.6	
1990	869	2.1	772	2.2	97	1.5	
1991	943	2.2	817	2.3	126	2.0	
1993	1021	2.4	897	2.5	124	1.9	
1994	1899	4.5	1638	4.6	261	4.I	
1996	2278	5.4	1938	5.4	340	5.3	
1998	2614	6.2	2218	6.2	396	6.2	
2000	2145	5.1	1806	5.0	339	5.3	
2002	869	2.1	746	2.1	123	1.9	
2004	832	2.0	714	2.0	118	1.8	
2006	1738	4.1	1466	4.1	272	4.3	
2008	1223	2.9	1037	2.9	186	2.9	
2010	1160	2.7	974	2.7	186	2.9	
2012	1165	2.8	969	2.7	196	3.1	
2014	1526	3.6	1256	3.5	270	4.2	
2016	1698	4.0	1381	3.9	317	5.0	
2018	1395	3.3	1137	3.2	258	4.0	

Table I Frequency of Participants Based on Year in the GeneralSocial Survey Overall and by Race

report good health (67.5% vs 76.5%; p<0.05) and high happiness (77.9% vs 88.6%; p<0.05) (Table 2).

Multivariable Models (Pooled Sample)

Table 3 presents the summary of the results of our two logistic regression models with SRH, race, and covariates as the independent variables and happiness as the dependent variable. Both models were estimated in the overall sample. Model 1 only entered the main effects of SES indicators (educational attainment, employment, and marital status) while controlling for gender and covariates. Model 2, however, also added three interaction terms between gender and our SES indicators. Based on Model 1, good health was associated with lower odds of happiness (OR = 2.94; 95% CI = 2.76-3.14; p<0.001). Model 2, however, showed a statistically significant interaction

between race/ethnicity and good SRH on odds of happiness (OR = 0.68; 95% CI = 0.59-0.79; P<0.001), suggesting that good SRH has a weaker boosting effect on the happiness of Blacks than Whites.

Multivariable Models (Race/Ethnic-Specific Results)

Table 4 presents the summary of the results of racestratified logistic regression models on the association between good SRH and happiness across races. Model 3 and Model 4 were performed in White and Black people, respectively. While in both races, good SRH was associated with happiness, the magnitude of this association was larger for Whites (OR = 3.18; 95% CI = 2.95-3.42P<0.001) than Blacks (OR = 2.35; 95% CI =2.05-2.68P<0.001). The difference in the magnitudes of these effects in terms of OR was about 20% (comparison of OR of 2.95 and 2.35 for Whites and Blacks, respectively).

Discussion

In the US, while health and happiness covary, this link differs by race/ethnicity. The concordance between health and happiness is weaker for Blacks than Whites. That means, the marginal return of health in terms of happiness is smaller for Blacks than Whites. In fact, the return of health in terms of happiness is approximately 20% less for Blacks than for Whites (OR = 2.35 vs OR = 2.95).

This study documented diminished returns of good health in generating happiness for Blacks compared to Whites. This finding is in line with the extensive literature on MDRs of SES on health of Blacks compared to Whites.^{19,20,47,48} Similar MDRs are shown for the health returns of positive coping.²¹ Finally, some studies have shown that high SES Blacks are more likely, not less likely, to be depressed.^{22–24,49–51} Thus, due to MDRs, a resource is less likely to generate positive outcomes for Blacks than Whites.^{52,53} In two independent studies, education and income generated more happiness and positive emotions for Whites than Blacks.^{32,45}

Blacks with poor SRH can maintain happiness, while Whites with poor SRH lose more happiness. This study adds to the body of literature supporting the Black-White mental health paradox.^{26,28,54} Blacks have higher prevalence of chronic physical conditions, such as diabetes or hypertension, which may be influenced by racial inequalities and experiences with racism.⁵⁴ However, this group remains very resilient despite having a lower SES and differential

Characteristics	All		Whites		Blacks		
	n	%	n	%	n	%	
Race/ethnicity							
White	35,802	84.8	35,802	100.0	_	_	
Black	6399	15.2	-	-	6399	100.0	
Gender							
Men	18,694	44.3	16,223	45.3	2471	38.6	
Women	23,507	55.7	19,579	54.7	3928	61.4	
Employed							
No	21,589	51.2	18,209	50.9	3380	52.8	
Yes	20,612	48.8	17,593	49.1	3019	47.2	
Marital Status*							
No	19,486	46.2	15,305	42.7	4181	65.3	
Yes	22,715	53.8	20,497	57.3	2218	34.7	
Educational Attainment							
0–11 years	25,756	61.0	20,770	58.0	4986	77.9	
12 years	8615	20.4	7764	21.7	851	13.3	
12–15 years	3088	7.3	2797	7.8	291	4.5	
16+ years	4742	11.2	4471	12.5	271	4.2	
Self-Rated Health*							
Not healthy	10,483	24.8	8402	23.5	2081	32.5	
Healthy	31,718	75.2	27,400	76.5	4318	67.5	
Happiness*							
Not happy	5493	13.0	4080	11.4	1413	22.1	
Нарру	36,708	87.0	31,722	88.6	4986	77.9	
	м	SD	м	SD	м	SD	
Age (years)*	46.11	17.39	46.56	17.50	43.56	16.58	

Table	2 D	escriptive	Statistics	in	the	Overall	Sam	ple	and	by	Race
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Note: *p < 0.05 for comparison of Blacks and Whites.

protective effects than Whites.³⁵ Socioeconomic factors, such as higher self-rated health and perceived income, are acknowledged as being associated with happiness.⁵⁵ Blacks who have been identified as happy are more likely to be married, employed and earn an annual salary of at least \$30,000, which may show that there are certain social factors that influence mental well-being as opposed to health conditions.¹⁰

Interestingly, Blacks still possess higher level of happiness even when they have lower SRH. Similar to other minority groups, certain cultural factors, such as religiosity, of the Black population may increase resilience despite adverse events and discrimination.^{56,57} Among Blacks, the historical burden of oppression, discrimination, downward mobility, and economic hardship have resulted in high allostatic loads at birth and throughout their lifetime with

protective cultural factors, such as supportive family relationships.⁵⁸ Such resilience protects Blacks with high levels of psychosocial functioning in multiple domains, evidenced in this study with happiness, but leads to increased risk of infection.⁵⁹

Blacks have faced high levels of racial discrimination, poorer SES, more health problems, and greater social inequities compared to other ethnic groups in the United States. Yet, this group exhibits lower rates of mental illness compared to Whites, indicating they have developed a form of hardiness.⁶⁰ Hagiwara and colleagues found that perceived group level racial discrimination among Blacks was associated with better mental and physical status, but diminished with perceived personal-level racial discrimination.²⁹ A negative association between poor health behaviors and stress has been found among Blacks, which may indicate that Blacks are protected

Characteristics	Model I Main Effects			Model 2 MI + Interaction			
	OR	95% CI	Р	OR	95% CI	Р	
Race/ethnicity (Black)	0.62	0.58–0.67	<0.001	0.77	0.69–0.86	<0.001	
Gender (women)	1.21	1.14–1.29	<0.001	1.21	1.14–1.29	<0.001	
Age (years)	1.01	1.00-1.01	<0.001	1.01	1.00-1.01	<0.001	
Married	2.55	2.39–2.71	<0.001	2.54	2.38–2.71	<0.001	
Employed	1.35	1.26–1.44	<0.001	1.35	1.26–1.44	<0.001	
Educational attainment			<0.001			<0.001	
0–11 years	1.00			1.00			
12 years	1.28	1.17–1.39	<0.001	1.27	1.17–1.38	<0.001	
12–15 years	1.29	1.13–1.46	<0.001	1.28	1.12–1.45	<0.001	
16+ Years	1.51	1.35–1.69	<0.001	1.49	1.33–1.67	<0.001	
Time (year)	1.00	1.00-1.00	0.888	1.00	1.00-1.00	0.752	
Self-rated health (healthy)	2.94	2.76–3.14	<0.001	3.22	3.00-3.46	<0.001	
Self-rated health (Healthy) × black				0.68	0.59–0.79	<0.001	
Constant	1.22		0.003	1.17		0.021	

Table 3 Summary of Logistic Regressions on the Association Between Good Self-Rated Health and Happiness in the Pooled Sample

Abbreviation: Cl, confidence interval.

Table 4 Summary of Logistic Regressions on the Association Between Good Self-Rated Health and Happiness in Whites and Blacks

Characteristics	Model 3 Whites			Model 4 Blacks			
	OR	95% CI	р	OR	95% CI	Р	
Gender (women)	1.22	1.14-1.31	<0.001	1.15	1.01–1.30	0.037	
Age (years) Married	1.00	1.00-1.01	<0.001	1.02	1.01-1.02	<0.001	
Employed	1.31	1.21–1.41	<0.001	1.48	1.30–1.69	<0.001	
Educational attainment			<0.001			0.002	
0–11 years	1.00			1.00			
12 years	1.26	1.15–1.38	<0.001	1.29	1.06–1.57	0.010	
12–15 years	1.31	1.14-1.51	<0.001	1.08	0.80-1.47	0.602	
16+ years	1.46	1.29–1.65	<0.001	1.75	1.22–2.53	0.002	
Time (year)	1.00	1.00-1.00	0.801	1.00	1.00-1.01	0.273	
Self-rated health (healthy)	3.18	2.95–3.42	<0.001	2.35	2.05–2.68	<0.001	
Constant	1.30		0.001	0.61		<0.001	

Abbreviation: Cl, confidence interval.

from mental illnesses by engaging in risky behaviors.⁶¹ This may explain the stronger effect of happiness among Blacks compared to Whites but lead to concerns about their physical health status and well-being. For example, the cultural construct of the "strong Black women" (SBW) has assisted Black women to negate the direct effects of racial discrimination for centuries but has led to poor physical health effects.^{62,63} Some of the SBW factors include being emotionally contained, taking care of family and others, and being high achieving,

which are pervasive among Blacks, regardless of SES factors.⁶⁴ Another explanation can be lower level of expectation in Blacks when it comes to what they need to be happy compared to Whites. Also, Black culture (norm) may be more accepting of medical illnesses as they are more common than in the lives of White people.

These findings have important implications for healthcare practice and policy. For Whites, those who are less happy have poor SRH as well, so lower happiness may prompt providers to examine further health issues for Whites.⁶⁵ However, such correlation is less meaningful in Blacks with high or low levels of happiness when it comes to clinical practice, because happiness is less informing of SRH of Blacks than Whites. Providers should be encouraged to utilize various measures when assessing the overall physical health status of Black people, using multi-item screening tools, as each one may not capture all of the data, given the lack of concordance between mental and physical health. In summary, reduced physical health seems to be more informing of possible mental health issues in Whites than Blacks. Also, there is potential evidence for less healthy coping mechanisms for stress in Black that may lead to the mismatch between happiness and medical illness.⁶⁶ In this population, exploring and replacing those coping methods with more healthy ones seems to be an important preventive approach in primary care practice.

These findings underscore the importance of taking a multifaceted approach to understanding the physical health of Blacks who may express happiness despite having a poor SRH. This study calls for more attention to positive aspects of mental well-being among Blacks, such as resilience, as they maintain happiness even with diminished gains and racial discrimination compared to Whites. Studies that focus on examining different aspects of happiness should incorporate related SES factors in addition to resilience processes that are protecting this group from mental stress but leading to worsening physical health conditions. Further research needs to explore the effects of other SES factors (wealth and income) and lifestyle behaviors (spirituality) to fully account for the underlying factors of happiness among Blacks.

Limitations

This study had some methodological limitations. Similar to other studies with a cross-sectional design, our data do not allow causal inferences between race, physical health and happiness. We did not test variations of our findings based on other factors such as class, gender, and their interaction with race and ethnicity. We only tested differential effects by race/ethnicity. Future research may also include SES, class, and region. Despite these limitations, the results of the current study extend what is already known about racial differences in the wellbeing of American people. Last but not least, we used only one measure of happiness. Happiness can be seen and measured from multiple aspects, such as life, work, etc. Future research may test if these results replicate across domains of happiness. Finally, we did not break the sample based on age groups. The results may differ for young, middle aged, and older adults.^{67,68} A strength of our study was that we used data from GSS, a state-of-the-art study with results that are robust methodology, sampling, and very large sample size that increase our confidence in our results.^{69,70}

Conclusion

In the United States, there is a relative discordance between good SRH and happiness in Black than White Americans. This discordance may allow Blacks to maintain happiness in the absence of health, which reflects mental resilience and is in line with the Black-White mental health paradox. In line with minorities' diminished returns, physical health may have lost some of its utility in generating happiness for Blacks compared to Whites. The final possibility is that happiness and SRH have different meanings for Black and White people. All these hypotheses and explanations require additional research on the complex interplay between race/ethnicity, adversities, health problems, and mental well-being.

Author Contributions

All authors made substantial contributions to conception and design, acquisition of data, or analysis and interpretation of data; took part in drafting the article or revising it critically for important intellectual content; gave final approval of the version to be published; and agree to be accountable for all aspects of the work.

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Disclosure

The authors declare no conflict of interest in this work.

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