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Discrimination and Health Outcomes in England's Black Communities Amid the Cost-of-Living Crisis: Evaluating the Role of Inflation and Bank Rates

Abstract

This study utilised longitudinal data from Black History Month events in London from 2021 to 2023. Novel findings revealed that increased inflation and Bank Rates, related to the cost-of-living crisis, were associated with greater discrimination and deteriorations in both general and mental health for Black individuals. Moreover, it was found that during the cost-of-living crisis period, i.e., 2022-2023, discrimination was more adversely related to general and mental health deterioration compared to the period before the cost-of-living crisis, i.e., 2021. In addition, women, non-native individuals, non-heterosexual individuals, the unemployed, economically inactive individuals, those with lower educational attainment, and older individuals experienced higher levels of discrimination and reduced general and mental health compared to reference groups. The findings of the study contribute to the literature by demonstrating the intertwined associations of macroeconomic deteriorations and discrimination with the health of the Black community, and its subgroup differences, providing a basis for targeted policies.

Keywords: Black Community; Health; Mental Health; Discrimination; Cost-of-Living Crisis; Inflation Rate; Bank Rate

JEL classification: E31; E32; E43; I14; J71; J15

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1. Introduction

The current period in the UK presents a unique and critical context for examining issues related to discrimination and health outcomes for individuals with a Black ethnic background. The uncertainty and economic shifts due to the UK's departure from the European Union in 2020 have affected immigration laws, attitudes, and socioeconomic status, exacerbating xenophobia, racism, discrimination, and exclusion for Black individuals (Abranches et al., 2020; Benson and Lewis, 2019). Moreover, the COVID-19 pandemic has disproportionately affected Black individuals, associating with increased racism and deteriorating economic and health outcomes (Jaspal and Lopes, 2021; Otu et al., 2020). Additionally, the ongoing cost-of-living crisis, which became prominent between 2022 and 2023, has adyly affected the Black community, linked to economic deterioration¹ and heightened health inequalities (Meadows et al., 2024; Brown et al., 2023; Saleem and Zaidi, 2023).

A 2023 nationwide survey involving more than 10,000 Black individuals across the UK found that racism continues to be a significant impediment in every sector of the economy (Black British Voices Project, 2023). The study revealed that 93% of research participants felt that Black individuals in Britain receive unfair treatment from healthcare professionals. Furthermore, 91% of respondents reported experiencing workplace discrimination, while 41% identified racism as the primary obstacle to the educational attainment of young Black people (Black British Voices Project, 2023). In 2023, the United Nations reported that economic austerity measures in the UK over the last decade have exacerbated racism and racial discrimination experienced by Black individuals, leading to adverse consequences for their fundamental rights (United Nations, 2023). At the same time, denial of racism in the UK manifests through institutional neglect and the invalidation of personal experiences, undermining efforts towards achieving true racial equity (St Louis, 2021).

The present study, utilising longitudinal data collected in 2021, 2022, and 2023 during London, England's Black History Month, aims to examine six thematic areas: (a) the determinants of discrimination across different subgroups within the Black community; (b) the determinants of general and mental health across different subgroups within the Black community; (c) the relationship between discrimination and general and mental health within the Black community; (d) the relationship between the cost-of-living crisis and discrimination within the Black community; (e) the relationship between the cost-of-living crisis and general and mental health within the Black community; and (f) a comparison of the magnitude of the relationship between discrimination and general and mental health within the Black community, before and during the cost-of-living crisis.

¹ In the UK, in 2023, the percentage difference between the unemployment rate for White individuals and Black/African/Caribbean/Black British individuals was approximately 91.67% (3.6% vs 6.9%). In 2024, this percentage difference increased to 133.33% (3.3% vs 7.7%) (House of Commons Library, 2024).

This study makes two contributions to the existing literature. Firstly, it takes place before and during the cost-of-living crisis. Although comprehensive research on the relationships between macroeconomic deteriorations due to the cost-of-living crisis, discrimination against Black individuals, and general and mental health outcomes could provide an informative understanding of health inequalities, a relevant study is currently missing from the literature. The present study aims to address this research gap. In previous periods of macroeconomic deterioration, such as the Great Recession of 2008-2009, there was an increase in the level of discrimination against Black individuals (Anderson et al., 2020; Krosch et al., 2017; Johnston and Lordan, 2014; Redclift, 2014). At the same time, discrimination was found to contribute to deteriorated general and mental health for Black individuals (Maletta et al., 2023; Hackett et al., 2020; Wallace et al., 2016). In the UK, the limited available evidence indicates that the cost-of-living crisis, as manifested by increased inflation and Bank Rates, has disproportionately impacted Black communities, who are already overrepresented among low-income households and those experiencing deep poverty (Edmiston et al., 2022). The cost-of-living crisis can exacerbate both existing financial insecurity and deteriorating health outcomes for Black individuals (Meadows et al., 2024; Brown et al., 2023; Saleem and Zaidi, 2023). This makes it essential to understand which factors, including macroeconomic deteriorations and discrimination, might deteriorate health outcomes. Failure to capture and evaluate present phenomena might result in growing discrimination, economic inequality, and health inequalities. This knowledge is crucial for developing targeted interventions and policies that can mitigate the adverse effects of the cost-of-living crisis on these communities.

Secondly, the study utilises a rich dataset that enables well-informed evaluations across different subgroups within the Black community. The study examines determinants of discrimination, general health, and mental health across different subgroups within the Black community, including nationality, gender, sexual orientation, and employment. In the UK literature, there is a gap in studies addressing these determinants across such subgroups within the Black community (Devonport et al., 2023; Hatch et al., 2016). The Black community is not homogeneous; it encompasses a wide range of demographics and socio-economic backgrounds (Raleigh, 2023; Halvorsrud et al., 2019). For instance, Black women and men may face different levels of discrimination due to factors such as gender bias and gender roles (Winchester, 2021; McManus et al., 2016). Similarly, non-heterosexual individuals within the Black community may encounter compounded discrimination related to both racial and sexual orientation stigma (Meads, 2020). Studying within-group differences among Black individuals is essential for acknowledging and addressing the full spectrum of experiences and challenges faced by these populations (Drydakis, 2024a). This approach aids in refining scientific inquiry and subsequently enhancing the effectiveness of interventions to reduce health inequalities (Drydakis, 2024a).

The study's findings reveal that minoritised subgroups within the Black community experience higher levels of discrimination and poorer health outcomes compared to their reference groups. Moreover,

increased inflation and Bank Rates are linked to greater discrimination and deteriorations in both general and mental health among Black individuals. Additionally, during the 2022-2023 cost-of-living crisis, discrimination is more strongly associated with worsening health outcomes compared to the period before the crisis in 2021. The ongoing cost-of-living crisis in the UK, coupled with the study's findings, provides a crucial context for re-examining Group Conflict Theory (Sherif, 1967). In times of social and economic upheaval, intergroup tensions often intensify, particularly when dominant groups perceive their access to resources to be under threat (Sherif, 1967). Such perceptions can lead to heightened levels of prejudice and discrimination against minoritised groups, as dominant groups may scapegoat these communities or attempt to safeguard their own interests in the face of the perceived financial instability of minoritised populations, and a constricted job market (Drydakis, 2022a). By prioritising the reduction of discrimination, especially in times of crisis, the study underscores the need to work towards fostering a more equitable society and improving the well-being of all citizens, with particular emphasis on the most vulnerable groups (Drydakis, 2022a; 2024a).

The rest of the study is structured as follows: Section 2 presents the theoretical background of the study. Section 3 details the data gathering process and the study's variables. Section 4 offers the descriptive statistics. Section 5 presents the regression outcomes. Finally, Section 6 offers a discussion.

2. Theoretical considerations

Racism involves the belief that certain demographic groups are superior or inferior, often leading to discriminatory attitudes and behaviours (Williams et al., 2019). Discrimination is defined as the differential treatment of an individual based on a socially ascribed characteristic (Hackett et al., 2020). Racism essentially creates and maintains policies and systems that enable majoritised groups to unfairly distribute opportunities and resources away from minoritised individuals, whom they perceive as inferior (Williams et al., 2019).

Western societies have demonstrated discrimination against Black individuals (United Nations, 2023; Black British Voices Project, 2023). Racism is rooted in an organised system that separates racial groups into ranked categories, by which members of lower-ranked groups are devalued, disempowered, and generally regarded as inferior (Williams et al., 2019; Versey and Curtin, 2016; Hall, 2006). Black individuals who also identify as women, non-native, non-heterosexual, older, less educated, and economically disadvantaged may experience compounded forms of discrimination, rendering them more vulnerable than their counterparts in relevant comparison categories (Drydakis et al., 2023; Versey and Curtin, 2016). This feature means that the effects of discrimination might be additive or even multiplicative, leading to a more profound impact on these individuals' lives (Drydakis et al., 2023).

In the UK, the current socio-political climate has influenced these dynamics. For instance, the country's departure from the European Union has been linked to a rise in xenophobic sentiments, which

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have disproportionately affected non-native Black individuals (Abranches et al., 2020; Benson and Lewis, 2019). Moreover, the combined effect of racism, sexism, and ageism has been found to adversely affect individuals' realities in the UK (United Nations, 2023; Black British Voices Project, 2023; Drydakis et al., 2023; Drydakis et al., 2018). Recent UK studies have indicated that older Black British women experience the highest level of discrimination in the labour market compared to younger and older Black British men, as well as younger and older White British men and women (Drydakis et al., 2023; Drydakis et al., 2018), supporting the multiplicative effect of discrimination based on subgroup characteristics within Black communities.

Reflecting on these patterns, the study suggests the following hypothesis:

Hypothesis 1: Among Black individuals, those with minoritised demographic characteristics experience higher levels of discrimination compared to those with majoritised demographic characteristics.

Social epidemiology indicates that social status groups, such as minoritised ethnicity, gender, and sexual orientation, may play a role in increasing the incidence of adverse general and mental health in minoritised subgroups within the Black community, while having a lesser impact on majoritised groups (MacGuire, 2020; Hatch et al., 2016; Manandhar et al., 2018; Braveman and Gottlieb, 2014).

In the UK, it is well-documented that Black individuals experience lower incomes compared to White British individuals (Office for National Statistics, 2020). Considering that these income inequalities can be linked to vulnerability, it might not be surprising that in the UK, there are higher rates of infant and maternal mortality, cardiovascular diseases, and adverse mental health in Black communities compared to White communities (Office for National Statistics, 2023; Devonport et al., 2023; Raleigh, 2023; Halvorsrud et al., 2019; Williams et al., 2019).

Moreover, studies in the UK have shown that women experience poorer general and mental health outcomes than men (Winchester, 2021; McManus et al., 2016). It is suggested that sexism and discrimination introduce critical barriers to women's education and employment, reducing their economic resources and adversely affecting their general and mental health (Manandhar et al., 2018; McManus et al., 2016). Additionally, in the UK, vulnerable non-native populations experience deteriorated general health outcomes compared to native populations (Giuntella et al., 2018). The general and mental health of non-natives is influenced by a range of social determinants, including factors that affect the migration process, reasons for migration, mode of travel, length of stay, language skills, legal status, and lived experiences in the host country (Giannoni et al., 2016). These lived experiences encompass levels of integration, encounters with racism, financial resources, and access to healthcare (Giannoni et al., 2016).

Furthermore, there are significant inequalities in general and mental health among individuals based on their sexual orientation (Meads, 2020). Research in the UK has shown worse general and mental

health, as well as poorer healthcare experiences for sexual minorities (Meads, 2020). Non-heterosexual individuals, due to experiences of homophobia and discrimination, encounter higher rates of unemployment, poverty, and financial hardships, which have been found to be correlated with adverse general and mental health outcomes (Drydakis, 2022b). Additionally, evidence from the UK indicates that growing older significantly increases the risk of experiencing ageism and discrimination, which are often associated with economic vulnerability and health inequalities (Jackson et al., 2019).

In light of the presented arguments, it is suggested that:

Hypothesis 2: Among Black individuals, those with minoritised demographic characteristics experience lower levels of general and mental health compared to those with majoritised demographic characteristics.

Studies in the UK have explored the relationship between discrimination against individuals from ethnic minoritised backgrounds, including Black communities, and its association with their general and mental health outcomes (Maletta et al., 2023; Devonport et al., 2023; Hackett et al., 2020; Hatch et al., 2016; Wallace et al., 2016). These studies consistently demonstrate a link between discrimination and adverse general and mental health outcomes (Maletta et al., 2023; Hackett et al., 2020; Wallace et al., 2016).

Historical and ongoing discrimination in healthcare, housing, employment, and lending practices, as examples of structural racism, can limit access to quality healthcare, nutritious food, and safe housing (Pascoe and Smart Richman, 2009). This can be associated with poorer health outcomes, including higher rates of chronic diseases such as diabetes and heart disease (Devonport, et al., 2023; Hackett et al., 2020; Pascoe and Smart Richman, 2009). Moreover, cultural racism is found to be associated with chronic stress, anxiety, low self-esteem, and depression due to constant negative portrayals and stereotypes (Black British Voices Project, 2023; Pascoe and Smart Richman, 2009; Hall, 2006). This stress can manifest in physical health problems such as hypertension, cardiovascular diseases, and a weakened immune response (Devonport, et al., 2023; Hackett et al., 2020; Pascoe and Smart Richman, 2009).

In addition, institutional racism, demonstrated through discrimination in access to healthcare services and the quality of care received, as well as racial profiling by law enforcement, has been found to be linked to the disproportionate targeting and incarceration of Black individuals (Black British Voices Project, 2023; Pascoe and Smart Richman, 2009). This is related to physical harm, stress-related illnesses, and post-traumatic stress disorder (Black British Voices Project, 2023; Devonport, et al., 2023; Hackett et al., 2020; Pascoe and Smart Richman, 2009). Additionally, physical violence and verbal harassment, as examples of interpersonal racism, can be associated with physical injuries and chronic stress (Devonport et al., 2023; Amaro et al., 2021). Furthermore, internalised racism can be linked to behaviours that are

detrimental to health, such as neglecting medical care or adopting unhealthy coping mechanisms (Devonport et al., 2023; Amaro et al., 2021).

The study examining these patterns suggests that:

Hypothesis 3: Discrimination is linked to worsened general and mental health among Black individuals.

Macroeconomic downturns, such as rising inflation and Bank Rates, can lead to economic instability (Bank of England, 2024). During such periods, competition for limited resources, such as jobs, housing, and social services, can intensify (Anderson et al., 2020; Krosch et al., 2017). Group Conflict Theory posits that intergroup tensions arise when a dominant group perceives a threat to its status, resources, or well-being (Sherif, 1967). This perception often results in prejudice and discrimination against minoritised groups (Sherif, 1967). In the UK, during the Great Recession, such competition was found to amplify existing prejudices, resulting in increased discrimination against those perceived as 'others,' including Black individuals (Johnston and Lordan, 2014; Redclift, 2014).

Based on previous experiences of macroeconomic downturns, the cost-of-living crisis in the UK, which began in 2022 (Bank of England, 2024), due to rising energy prices, could exacerbate racism against minoritised groups (Anderson et al., 2020; Krosch et al., 2017; Johnston and Lordan, 2014; Redclift, 2014). In the UK, the inflation rate increased by approximately 174.3% between 2021 and 2023 (from 2.49% to 6.83%). As the inflation rate rises, so do rental housing costs (Bank of England, 2024). Black individuals, who are statistically more likely to be in lower-income brackets (Brown et al., 2023; Edmiston et al., 2022), may find it harder to afford housing. Landlords and property managers might discriminate against Black tenants, perceiving them as higher financial risks during adverse economic periods, leading to increased housing denials.

Similarly, increased Bank Rates make loans and credit more expensive and harder to obtain (Brown et al., 2023; Edmiston et al., 2022). The Bank of England's base rate increased by approximately 4272.7% between 2021 and 2023 (from 0.11% to 4.81%). Banks may disproportionately deny Black individuals access to financial services, assuming higher default risks based on racial stereotypes. Moreover, employers, influenced by stereotypes and biases, may view Black applicants as less desirable in a strained job market (Bank of England, 2024). In the UK, the unemployment rate increased by approximately 18.9% between 2022 and 2024 (from 3.7% to 4.4%). Economic uncertainty can result in increased discrimination in hiring and employment practices (Anderson et al., 2020; Krosch et al., 2017).

Macroeconomic deteriorations have been found to be associated with heightened social stress and the search for scapegoats (Drydakis, 2022a; Anderson et al., 2020; Krosch et al., 2017; Johnston and Lordan, 2014; Redclift, 2014). During the Great Recession, patterns show that Black communities were frequently unfairly blamed for broader societal issues, including crime rates and the use of social

protection benefits, provoking racist and xenophobic discourses (Anderson et al., 2020; Krosch et al., 2017; Johnston and Lordan, 2014; Redclift, 2014). Moreover, economic pressures were found to be associated with the breakdown of relationships with neighbours, friends, and colleagues, particularly when non-nationals were unfairly blamed for the deterioration of the economy (Anderson et al., 2020; Krosch et al., 2017; Johnston and Lordan, 2014). At the same time, Black individuals were found to face more frequent threats and physical attacks as societal frustrations were misdirected towards them (Anderson et al., 2020).

Experiences from the Great Recession indicated that macroeconomic deteriorations were associated with declining fertility and self-rated health, as well as increasing morbidity, psychological distress, and suicides (Margerison-Zilko et al., 2016). Additionally, health impacts were stronger among racial and ethnic minorities (Margerison-Zilko et al., 2016). In the UK, research has indicated that the cost-of-living crisis can further worsen health outcomes for people with low incomes, including Black individuals (Meadows et al., 2024; Brown et al., 2023; Saleem and Zaidi, 2023). From an inability to afford heating to the risk of malnourishment, the cost-of-living crisis can have adverse health consequences for vulnerable population groups (Brown et al., 2023; Saleem and Zaidi, 2023). Additionally, there is a risk of adverse mental health outcomes as a result of stress related to economic struggles in the household (Saleem and Zaidi, 2023).

During the cost-of-living crisis, if exclusions due to increased instances of discrimination become more prevalent, this could be seen as an added layer of economic vulnerability, potentially linked to a more severe deterioration in both general and mental health. During periods of rising discrimination as a result of macroeconomic deteriorations (Drydakis, 2022a; Anderson et al., 2020; Krosch et al., 2017), Black individuals, who already face health inequalities (Meadows et al., 2024; Brown et al., 2023; Saleem and Zaidi, 2023), may find it even more challenging to secure an income, deal with their debt, and receive necessary medical attention, potentially experiencing a worsening of their overall health status (Brown et al., 2023; Saleem and Zaidi, 2023; Maletta et al., 2023; Hackett et al., 2020). Moreover, if the chronic stress associated with discrimination increases during periods of macroeconomic deterioration, due to increasing exclusions, biases, and harassment, this can further deteriorate both their general and mental health (Devonport et al., 2023; Hackett et al., 2020).

Hence, for Black individuals who already experience lower income and deteriorated health, the combination of increased financial strain and discrimination due to the country's macroeconomic deteriorations can exacerbate the already negative relationship between discrimination and general and mental health.

The study reflecting on these patterns suggests that:

Hypothesis 4a: An increase in the cost-of-living, characterised by rising inflation rates and Bank Rates, is linked to a higher level of discrimination against Black individuals.

Hypothesis 4b: An increase in the cost-of-living, characterised by rising inflation rates and Bank Rates, is linked to worsened general and mental health among Black individuals.

Hypothesis 4c: During the cost-of-living crisis period, discrimination is more adversely related to general and mental health deterioration among Black individuals compared to the period before the crisis.

3. Data gathering and variables

3.1 Data gathering

In the UK, every October, Black History Month is celebrated. Black History Month is an annual observance originating in the US. It began as a way of remembering important individuals and events in the history of the African diaspora. Nowadays, Black History Month celebrates the social, economic, cultural, and political achievements of Black individuals throughout history. During Black History Month, a variety of events are organised, such as lectures, film screenings, round-table talks, workshops, and artistic and cultural exhibitions. These events are attended by thousands of individuals. They provide a unique opportunity for researchers to engage in face-to-face collaborations with a large number of Black individuals, enabling them to recruit participants for surveys, conduct interviews, distribute questionnaires, and collect data.

In 2021, information about Black History Month social events was identified through internet searches. In October 2021, the research team participated in relevant events in the city of London for a period of 10 days and distributed participation forms during these events. The organisers of the events facilitated the process by allowing the distribution of the participation forms. At each event, the research team informed the public that a university research study was being conducted and provided brief insights into the project. It was mentioned that the aim of the study was to research health-related patterns among individuals belonging to Black communities aged 18 to 65. The research team invited Black individuals to consider participating in the survey.

The study followed the usual procedures for securing ethics approval and ensuring the anonymity of participants. In the participation forms, information about the research team's affiliation was provided. The scope of the project was explained, which was to collect longitudinal data on the lives of Black individuals. The participation forms kindly invited potential participants to provide an email address, so that an e-questionnaire could be forwarded to them for completing an e-survey. The participation forms

also mentioned that those who completed the e-survey would be re-approached in the future for follow-up e-surveys. The first data gathering took place between October and December 2021, when an e-questionnaire was sent to the provided email addresses. Follow-up data collection occurred in 2022 and 2023, again between October and December. Participants who had provided information in the first wave (October-December 2021) were re-approached.

3.2 Variables

In the questionnaires, information on basic demographic characteristics was included, such as age, gender, sexual orientation, ethnicity, education, and employment status. The study utilised the 13-item Intersectional Major Discrimination index developed by Scheim and Bauer (2019). According to the developers (Scheim and Bauer, 2019), the index is designed to capture discrimination based on minoritised characteristics. The index includes self-reflections related to refusal of healthcare provision, job dismissal, housing denial, discrimination in school settings, avoidance by others, and threats of physical attack. Each question in the index offers three response options: "never", "once" or "more than once". The index has a range of scores from 0 to 26, where higher values indicate a higher number of discriminatory incidents against minoritised individuals. The index has demonstrated strong construct validity and test-retest reliability (Scheim and Bauer, 2019).

To assess general health and mental health status, the study utilised the SF-36 General Health dimension and the SF-36 Mental Health dimension. The SF-36 General Health dimension measures perceived health status through five items, including whether individuals believe they are "in good health", "get sick a little easier than other individuals", and "expect their health to get worse" (Ware et al., 2004). Similarly, the SF-36 Mental Health dimension assesses perceived mental health status through five items, capturing whether individuals believe they "feel happy", "are calm" and "experience peace" (Ware, et al., 2004). Both the health and mental health instruments were standardised to a T-score using the SF-36 scoring algorithms described by the developers (Ware et al., 2004). The SF-36 General Health and the SF-36 Mental Health dimensions range from 0 to 100, with higher values indicating better-perceived general health and mental health status. Both instruments have been found to provide valid and reliable results in a plethora of international studies (Ware et al., 2004).

4. Descriptive statistics

Table 1 presents the descriptive statistics for the study. In 2021, the sample consisted of 264 observations. In 2022, there were 235 observations in the sample, and in 2023, there were 223 observations. In relation to the macroeconomic indicators, the inflation rate in 2021 was 2.49%, which increased to 7.9% in 2022 and then decreased to 6.83% in 2023. Additionally, the Bank of England's rate in 2021 was 0.11%, rising to 1.58% in 2022 and further increasing to 4.81% in 2023. Consequently,

between 2021 and 2023, there was a 174.3% increase in the inflation rate (z=2.3; p<0.05) and a 4272.7% increase in the Bank of England's rate (z=3.4; p<0.01).

Panel IV compiles the data, and it is observed that the mean age is 39.6 years, with 55.2% of the sample population being women, 8.4% identifying as non-heterosexual, and 32.8% as non-British. Furthermore, 30.0% have either a higher or vocational education. Within the sample, 75.2% are employed, 16.6% are unemployed, and the remainder are economically inactive. Comparisons between 2021 and 2023 indicate that the level of employment was lower in 2023 than in 2021 (66.8% vs 78.4%, z=2.8, p<0.01)². Conversely, the level of unemployment was higher in 2023 than in 2021 (26.9% vs 10.2%, z=4.7, p<0.01)³. Additionally, the level of economically inactive individuals was lower in 2023 compared to 2021 (6.2% vs 11.3%, z=1.9, p<0.10).

Additionally, in Panel IV, discrimination has a mean value of 8.2 (out of 26), general health has a mean value of 61.5 (out of 100), and mental health has a mean value of 65.9 (out of 100). Comparisons between 2021 and 2023 indicate that the level of discrimination was higher in 2023 than in 2021 (mean value 8.3 vs 8.0, t=7.0, p<0.01). Additionally, general health and mental health statuses were lower in 2023 compared to 2021 (mean value 60.1 vs 62.9, t=7.9, p<0.01), and mean value 63.8 vs 67.6, t=10.3, p<0.01).

[Table_1]

Table 2 presents information for each component of the discrimination index based on the pooled dataset. It provides both proportions and average measurements. It has been observed that the adverse experiences most frequently reported (i.e., more than once) by Black individuals include refusal of care provision (29.9%) and termination or being dismissed from a job, or being turned down for one (25.9%).

[Table_2]

Table 3 presents a tabulated analysis based on the pooled dataset. Panel I presents an age-based evaluation. It is evident that older individuals, in comparison to their younger counterparts, experience higher levels of discrimination (mean value 10.0 vs 6.0; t=10.4), as well as deteriorated general health (mean value 55.8 vs 67.7; t=13.3) and mental health (mean value 58.5 vs 75.0; t=15.6). Moreover, the findings indicate that women (Panel II), non-native individuals (Panel III), non-heterosexual individuals (Panel IV), individuals without higher or vocational education (Panel V), and unemployed or economically inactive individuals (Panel VI) experience higher levels of discrimination and show

 $^{^{2}}$ In 2022, representative data indicate that in the UK, Black people experience an employment rate of 69% (Race Disparity Unit, 2023).

³ In 2023, representative data indicate that in the UK, Black/African/Caribbean/Black British people experience an unemployment rate of 6.9%, with young people in these communities experiencing an unemployment rate of 27% (House of Commons Library, 2024).

deterioration in their general and mental health compared to the relevant reference groups. All the differences are statistically significant at the 1% level.

[Table_3]

5. Estimates

5.1 The determinants of discrimination

Table 4, Models I-III, presents the determinants of discrimination estimates. Pooled OLS, random effects, and fixed effects models assess whether the estimates hold in the event of the utilisation of alternative empirical specifications (Andreß et al., 2013).

Model I presents pooled OLS estimates. It is found that women (b=1.181, p<0.01, marginal effects m.e.=0.078), non-native individuals (b=2.874, p<0.01, m.e.=0.114), non-heterosexual individuals (b=5.387, p<0.01, m.e.=0.055), unemployed individuals (b=4.809, p<0.01, m.e.=0.096), economically inactive individuals (b=4.980, p<0.01, m.e.=0.049), and older individuals (b=2.675, p<0.01, m.e.=0.049) are experiencing higher levels of discrimination. On the other hand, those with higher or vocational education (b=-0.790, p<0.01, m.e.=-0.028) experience lower levels of discrimination. The estimated outcomes indicate that Hypothesis 1 is supported.

Model II presents the random effects estimates. The new estimates continue to indicate that women (b=1.710, p<0.01, m.e.=0.113), non-native individuals (b=4.881, p<0.01, m.e.=0.191), non-heterosexual individuals (b=7.571, p<0.01, m.e.=0.076), and older individuals (b=0.175, p<0.01 or m.e.=0.011) are experiencing higher levels of discrimination. Similarly, the estimated patterns suggest that Hypothesis 1 is supported.

Model III presents the fixed effects estimates, which cannot account for time-invariant variables. No estimate was found to be statistically significant. The Breusch and Pagan Lagrangian multiplier test indicates that the random effects model might better fit the data than the pooled OLS model (chi-bar-squared=452.84, p<0.01). In addition, the Hausman test finds that the fixed effects model better fits the data than the random effects model (chi-squared=20.92, p<0.01).

[Table_4]

5.2 The determinants of general health

In Table 4, Models IV to VI show the determinants of general health. Model IV presents pooled OLS estimates. It is found that women (b=-6.378, p<0.01, m.e.=-0.057), non-native individuals (b=-6.230, p<0.01, m.e.=-0.033), non-heterosexual individuals (b=-11.919, p<0.01, m.e.=-0.016), unemployed individuals (b=-9.539, p<0.01, m.e.=-0.025), economically inactive individuals (b=-11.373, p<0.01,

m.e.=-0.015), and older individuals (b=-9.647, p<0.01, m.e.=-0.086) experience lower levels of general health compared to the relevant reference categories. Furthermore, the analysis indicates that individuals with higher or vocational education (b=2.043, p<0.05, m.e.=0.009) experience higher levels of general health. Hence, Hypothesis 2 regarding general health is supported.

Moreover, Model V presents random effects estimates. Similar to Model IV, it is found that women (b=-7.290, p<0.01, m.e.=-0.065), non-native individuals (b=-9.323, p<0.01, m.e.=-0.049), non-heterosexual individuals (b=-15.453, p<0.01, m.e.=-0.021), unemployed individuals (b=-2.560, p<0.01, m.e.=-0.006), economically inactive individuals (b=-2.850, p<0.01, m.e.=-0.003), and older individuals (b=-4.988, p<0.01, m.e.=-0.045) experience lower levels of general health compared to the relevant reference categories. Moreover, it was found that individuals with higher or vocational education (b=1.956, p<0.10, m.e.=0.009) experience higher levels of general health.

Model VI presents fixed effects estimates. It is found that unemployed individuals (b=-1.469, p<0.05, m.e.=-0.003) experience lower levels of general health compared to younger individuals. The Breusch and Pagan Lagrangian multiplier test finds that the random effects model might better fit the data than the pooled OLS model (chi-bar-squared=378.0, p<0.01). The Hausman test indicates that the fixed effects model might better fit the data than the random effects model (chi-squared=77.66, p<0.01).

5.3 The determinants of mental health

In Table 4, Models VII to IX present the determinants of mental health. Model VII presents pooled OLS estimates. The estimates indicate that women (b=-6.789, p<0.01, m.e.=-0.056), non-native individuals (b=-7.518, p<0.01, m.e.=-0.037), non-heterosexual individuals (b=-12.334, p<0.01, m.e.=-0.015), unemployed individuals (b=-12.532, p<0.01, m.e.=-0.031), economically inactive individuals (b=-13.014, p<0.01, m.e.=-0.016), and older individuals (b=-12.361, p<0.01, m.e.=-0.016) experience lower levels of mental health compared to the relevant reference categories. Furthermore, the analysis indicates that individuals with higher or vocational education (b=2.966, p<0.01, m.e.=0.013) experience higher levels of mental health. Hypothesis 2 regarding mental health is supported.

In addition, Model VIII presents random effects estimates. It is found that women (b=-7.649, p<0.01, m.e.=-0.064), non-native individuals (b=-10.384, p<0.01, m.e.=-0.051), non-heterosexual individuals (b=-16.036, p<0.01, m.e.=-0.020), unemployed individuals (b=-4.545, p<0.01, m.e.=-0.011), economically inactive individuals (b=-5.013, p<0.01, m.e.=-0.006), and older individuals (b=-8.583, p<0.01, m.e.=-0.072) face lower levels of mental health compared to the relevant reference categories. On the other hand, it is found that individuals with higher or vocational education (b=2.993, p<0.01, m.e.=-0.013) face higher levels of mental health.

Model IX presents fixed effects estimates, confirming that unemployed individuals (b=-2.830, p<0.01, m.e.=-0.007), economically inactive individuals (b=-2.168, p<0.10, m.e.=-0.002), and older

individuals (b=-4.199, p<0.01, m.e.=-0.035) face lower levels of mental health. The Breusch and Pagan Lagrangian multiplier test shows that the random effects model might better fit the data than the pooled OLS model (chi-bar-squared=415.49, p<0.01). The Hausman test suggests that the fixed effects model might better fit the data than the random effects model (chi-squared=36.88, p<0.01).

5.4 The relationship between discrimination and general and mental health

In Table 5, Models I to III present estimates on the relationship between discrimination and general health. Table 5 incorporates the same control variables as Table 4.

Model I presents pooled OLS estimates. It is found that discrimination is negatively associated with general health (b=-1.970, p<0.01, m.e.=-0.264). Model II presents random effects estimates. It is found that discrimination is negatively associated with general health (b=-2.032, p<0.01, m.e.=-0.273). Model III presents fixed effects estimates. The outcomes suggest that discrimination is negatively associated with general health (b=-1.951, p<0.01, m.e.=-0.262). The Breusch and Pagan Lagrangian multiplier test indicates that the random effects model might better fit the data than the pooled OLS model (chi-squared=325.80, p<0.01). The Hausman test suggests that the fixed effects model might better fit the data than the random effects model (chi-squared=14.82, p<0.05).

To continue, Models IV to VI present estimates on the relationship between discrimination and mental health. Model IV presents pooled OLS estimates. It is found that discrimination is negatively associated with mental health (b=-2.162, p<0.01, m.e.=-0.271). Model V presents random effects estimates. The estimates indicate that discrimination is negatively associated with mental health (b=-2.179, p<0.01, m.e.=-0.273). Model VI presents fixed effects estimates. The outcomes suggest that discrimination is negatively associated with mental health (b=-2.011, p<0.01, m.e.=-0.252). The Breusch and Pagan Lagrangian multiplier test finds that the random effects model might better fit the data than the random effects model (chi-squared=218.59, p<0.01). The Hausman test indicates that the fixed effects model might better fit the data than the random effects model (chi-squared=12.14, p<0.05).

Upon observing the estimated outcomes across the empirical specifications, Hypothesis 3 can be confirmed.

[Table_5]

5.5 The relationship between macroeconomic conditions and discrimination

Table 6 examines whether macroeconomic conditions are associated with discrimination. It employs fixed effects models, as these were found to better fit the data. Additionally, Table 6 incorporates the same control variables as Table 4.

Model I shows that the year 2021 was negatively associated with discrimination (b=-0.228, p<0.01, m.e.=-0.010), indicating higher levels of discrimination in 2022 and 2023.

Model II demonstrates that the inflation rate is associated with higher levels of discrimination (b=0.043, p<0.01, m.e.=0.029). Similarly, Model III indicates that the Bank Rate is associated with higher levels of discrimination (b=0.048, p<0.01, m.e.=0.011).

Moreover, Model IV shows that when the inflation rate is at its highest, i.e., in 2022, discrimination increases compared to years with lower inflation rates (b=0.090, p<0.01, m.e.=0.003). Additionally, Model V indicates that when the Bank Rate is at its highest, i.e., in 2023, discrimination increases compared to years with lower Bank Rates (b=0.144, p<0.01, m.e.=0.005).

The outcomes presented in Models I-V indicate that Hypothesis 4.a can be confirmed⁴.

[Table_6]

5.6 The relationship between macroeconomic conditions and general and mental health

Table 7 presents estimates of general and mental health, incorporating information on macroeconomic conditions. In all models, fixed effects models provide a better fit for the data. Table 7 incorporates the same control variables as Table 4.

Models I and III indicate that both general and mental health were adversely associated with the inflation rate (b=-0.261, p<0.01, m.e.=-0.023, and b=-0.301, p<0.01, m.e.=-0.025). Models II and IV indicate that both general and mental health were adversely associated with the Bank Rate (b=-0.583, p<0.01, m.e.=-0.019, and b=-0.761, p<0.01, m.e.=-0.023, respectively). The estimated outcomes indicate that Hypothesis 4.b is supported⁵.

In Model V, it is observed that individuals had better general health in 2021 compared to the period 2022-2023 (b=4.302, p<0.01, m.e.=0.025). Additionally, an interaction effect between the year 2021 and discrimination indicates that the severity of the association between discrimination and general health is comparatively less severe in 2021 than in the period 2022-2023 (b=-0.318, p<0.01, m.e.=-0.015).

Similar patterns are found for mental health in Model VI. Specifically, individuals had better mental health in 2021 compared to the period 2022-2023 (b=4.613, p<0.01, m.e.=0.025), and the severity of the association between discrimination and mental health is also less in 2021 than in the subsequent period, i.e. 2022-2023 (b=-0.314, p<0.01, m.e.=-0.014). The estimated outcomes indicate that Hypothesis 4.c is supported⁶.

[Table _7]

6. Discussion

6.1 Outcomes evaluation

⁴ Both OLS and random effects models confirm Hypothesis 4.a.

⁵ Both OLS and random effects models confirm Hypothesis 4.b.

⁶ Both OLS and random effects models confirm Hypothesis 4.c.

This is the first study to specifically investigate how the cost-of-living crisis in the UK is associated with the level of discrimination experienced by Black people and its relationship with general and mental health outcomes. This study addresses a significant gap in the existing literature and provides a foundation for further research in this area, as it is presently unclear whether the increased inflation and Bank Rates could be linked to discrimination and adverse health outcomes. Moreover, the study provides critical insights into how discrimination is related to general and mental health outcomes across subgroups within the Black community during the cost-of-living crisis. Such evaluations can provide a basis for developing targeted interventions and policies.

In relation to the first hypothesis of the study, the findings confirmed that women, non-native individuals, non-heterosexual individuals, the unemployed, economically inactive individuals, those with lower educational attainment, and older individuals reported significantly higher levels of discrimination compared to their counterparts. One might argue that the hierarchical organisation of social structures reinforces social, economic, and political inequalities, perpetuating discrimination against certain subgroups within the Black community (Hall, 2006). This compounded discrimination manifests in various ways. In the workplace, Black women might face both racial and gender discrimination, limiting their career advancement and earning potential (Drydakis et al., 2023). In healthcare, non-heterosexual Black individuals may encounter both racial and sexual orientation discrimination, which affects the quality of care they receive and their health outcomes (Drydakis, 2022b). Each layer of discrimination reinforces the others, creating a web of disadvantage and resulting in multilevel adverse realities for Black individuals (Drydakis et al., 2023; Drydakis et al., 2018). The current research landscape often overlooks the nuanced differences within the Black communities, resulting in a one-size-fits-all approach that fails to capture the unique experiences of different subgroups. By disaggregating data within the Black community based on various demographic factors, the study provides a more accurate understanding of the realities faced by Black individuals (Drydakis, 2024a; Versey and Curtin, 2016). This nuanced approach ensures that the specific needs and experiences of various subgroups are recognised.

Moreover, the analyses showed that women, non-native individuals, non-heterosexual individuals, the unemployed, economically inactive individuals, those with lower educational attainment, and older individuals had worse general and mental health outcomes. These findings confirmed the study's second hypothesis, indicating that minoritised demographic factors within Black communities could contribute to health inequalities (Drydakis, 2024a). This can widen existing health inequalities in a community that has experienced severe economic deterioration during the Great Recession, the Covid-19 pandemic, and the cost-of-living crisis (Office for National Statistics, 2023; Raleigh, 2023; MacGuire, 2020; Hatch et al., 2016). For instance, in the UK, those with lower incomes within the Black community might have reduced access to resources that mitigate the adverse effects of racism, such as mental health services and

healthy coping strategies. Hence, recognising the role of social status groups in influencing health outcomes is crucial for developing effective strategies to combat health inequalities (Drydakis, 2024a).

The third hypothesis of the study was found to be supported confirming that discrimination shows significant negative associations with both general and mental health (Drydakis, 2022b). A combination of cultural and structural racism due to a Black ethnic background can reduce educational and employment opportunities, ultimately associating with reduced income and deteriorated general and mental health (Devonport et al., 2023; Hackett et al., 2020; Paradies et al., 2015; Hall, 2006). Moreover, the interplay of institutional, interpersonal, and internalised racism can manifest as victimisation, barriers to healthcare services, and the adoption of unhealthy lifestyles, all of which are associated with adverse general and mental health outcomes (Devonport et al., 2023; Hackett et al., 2020; Paradies et al., 2020; Paradies et al., 2015; Pascoe and Smart Richman, 2009). The research results revealed that Black individuals might encounter various forms of discrimination in their interactions with healthcare services, law enforcement, employment and housing markets, school settings, and everyday life, where they also face different types of harassment. Because these demonstrations are not experienced in isolation (Black British Voices Project, 2023), the present study highlights the need to recognise the interconnected nature of these issues and establish policies to reduce both incidents of discrimination and the subsequent adversaries to Black people's lives.

In addition, the final hypothesis of the study was affirmed, indicating that increased inflation and Bank Rates, reflective of the cost-of-living crisis in the UK, were associated with higher levels of discrimination against Black individuals. Moreover, these macroeconomic deteriorations were also linked to worsened general and mental health. Notably, the relationship between discrimination and adverse health outcomes was found to be more severe during the cost-of-living crisis period (2022-2023) compared to the pre-crisis period (2021). These findings indicate that, on the one hand, macroeconomic deteriorations can amplify existing discrimination against the Black community, and on the other hand, exacerbate the already deteriorated general and mental health of Black individuals (Anderson et al., 2020; Johnston and Lordan, 2014). In line with Group Conflict Theory (Sherif, 1967), the economic stress experienced during periods of macroeconomic deterioration may trigger exclusionary behaviours in individuals, thereby exacerbating social divides. Furthermore, the economic strain related to the cost-ofliving crisis can be associated with poorer living conditions, reduced access to quality healthcare, and financial stress, all of which could contribute to adverse health outcomes (Meadows et al., 2024; Saleem and Zaidi, 2023; Margerison-Zilko et al., 2016). A crucial aspect of the study's findings is the intensified relationship between discrimination and adverse health outcomes during the cost-of-living crisis period. This finding indicates that the health adversities related to discrimination can be magnified in times of macroeconomic deterioration. The compounding effect of economic hardship and increased discrimination can create multilevel and more pronounced vulnerabilities for the Black community.

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6.2 Policy implications

Group Conflict Theory provides a powerful framework for understanding the dynamics of racial and ethnic relations during periods of economic deterioration (Sherif, 1967). The study's outcomes underscore the need for targeted policies that address both racial and ethnic tensions, as well as the economic and health inequalities that the cost-of-living crisis brings to the surface. It is crucial for policymakers to address all forms of racism in efforts to reduce discrimination and enhance the general and mental health of Black communities, particularly during periods of macroeconomic decline (Black British Voices Project, 2023; Williams et al., 2019). To reduce racism and adverse stereotypes against Black individuals, policymakers should launch public awareness campaigns that emphasise the importance of recognising and addressing racism (Black British Voices Project, 2023; Williams et al., 2019). Representation and inclusion of Black communities in media, government, and corporate leadership are critical to reducing adverse stereotypes and boosting individuals' self-esteem (Paradies et al., 2015).

It is recommended that policymakers and stakeholders implement anti-racism training in educational institutions, workplaces, healthcare services, and law enforcement agencies. The nature of the training should focus on understanding and respecting diverse identities and experiences, and encourage organisations to develop diversity and inclusion policies (Drydakis, 2022a; b). For instance, sensitivity in healthcare should ensure that healthcare providers receive training on addressing the healthcare needs and experiences of Black individuals, considering the unique experiences of Black women, non-heterosexual individuals, and older individuals (Drydakis, 20224; 2022b; Williams et al., 2019).

Moreover, to reduce racism, there is a need to enforce existing anti-discrimination laws to explicitly address discrimination based on race, gender, sexual orientation, age, and other identities (Drydakis, 2022a; b; Paradies et al., 2015). Policymakers should provide resources and training to enforcement agencies to effectively address complaints and support victims. There is a need to expand affirmative and/or positive action programmes to ensure equitable access to education and employment opportunities for Black individuals, especially from disadvantaged backgrounds within Black communities (Williams et al., 2019). Resources are needed to invest in schools and educational programmes in underprivileged communities, ensuring that students receive high-quality education, especially during the present period where advanced technology can both boost human capital and its corresponding returns, as well as reduce technology-driven divides (Drydakis, 2024b). In addition, policymakers should develop policies that promote economic opportunities for Black individuals, such as job training, small business support, and inclusive hiring practices (Drydakis, 2022a). Additionally, there is a need to address police violence, over-policing, and the mass incarceration of Black individuals (Black British Voices Project, 2023).

Finally, to address the macroeconomic factors contributing to increased discrimination and deteriorating health outcomes, policymakers should focus on stabilising the economy. This can include measures such as implementing inflation control strategies to reduce financial strain on vulnerable populations and providing financial support and relief programmes, such as subsidies, tax reliefs, and direct financial assistance to low-income households (Bank of England, 2024).

6.3 Limitations and future research

The present study collected data during Black History Month in London, England. Future studies should broaden their data collection to include various regions. Additionally, the study gathered data during three specific periods. It is imperative to collect longitudinal data over a significant timeframe to observe how the intensity of identified patterns changes over time. Furthermore, future studies should aim to recruit a larger number of participants through random sampling to enhance the reliability of generalisations.

While the study distinguished between native and non-native Black individuals, it did not examine how discrimination varies across ethnic groups. Therefore, it would be interesting for new studies to provide further insights and examine the extent of discrimination across Asian, Caribbean, African, and mixed populations. The study collected longitudinal data in a process to offer better informed evaluations. However, new studies should collect data on certain long-term general and mental health conditions, as well as personality characteristics and long-term vulnerabilities to reduce unobserved heterogeneities.

Moreover, the study did not control for coping strategies. Further investigation is needed into how individuals cope with discrimination and its association with general and mental health outcomes. Finally, the study captured discrimination through individuals' self-reported reflections on adverse realities. New studies might be interested in gathering information on formal complaints related to racism stemming from a Black ethnic background and providing new evaluations.

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Table 1. Descriptive statistics. Means and standard deviations.									
	Panel I Year: 2021	Panel II Year: 2022	Panel III Year: 2023	Panel IV Total sample. Years: 2021-2023					
Age (c.)	38.85 (12.03)	39.62 (12.09)	40.77 (12.04)	39.69 (12.06)					
Women (%)	55.30 (0.49)	56.17 (0.49)	54.26 (0.49)	55.26 (0.49)					
Non-native individuals (%)	32.19 (0.46)	32.34 (0.46)	34.08 (0.47)	32.82 (0.46)					
Non-heterosexual individuals (%)	8.33 (0.27)	8.08 (0.27)	8.96 (0.28)	8.44 (0.27)					
Higher or vocational education (%)	29.16 (0.45)	30.21 (0.46)	30.94 (0.46)	30.05 (0.45)					
Employed individuals (%)	78.40 (0.41)	79.57 (0.40)	66.81 (0.47)	75.20 (0.43)					
Unemployed individuals (%)	10.22 (0.30)	14.04 (0.34)	26.90 (0.44)	16.62 (0.37)					
Economically inactive individuals (%)	11.36 (0.31)	6.38 (0.24)	6.27 (0.24)	8.17 (0.27)					
General health (c.)	62.98 (15.17)	61.80 (14.53)	60.17 (13.09)	61.58 (14.48)					
Mental health (c.)	67.67 (16.98)	66.34 (16.30)	63.85 (14.88)	65.90 (16.23)					
Discrimination (c.)	8.09 (5.51)	8.31 (5.44)	8.32 (5.50)	8.27 (5.51)					
Inflation rate (%)	2.49	7.90	6.83	5.74					
Bank Rate (%)	0.11	1.58	4.81	2.16					
Observations Notes: (c) Continuous variation	264	235	223	722					

Table 2. Descriptive statistics. Discrimination. Means, standard errors, and standard deviations								
'Because of who you are'	Never	Once	More	Continuous				
	(%)	(%)	than once	variable				
	22.55	48.80	<u>(%)</u>	(c.)				
Has a health care provider ever refused you care?	22.57	47.50	29.91	1.07				
	[0.01]	[0.01]	[0.01]	(0.72)				
Have you ever been fired or dismissed from a job, or been turned	21.60	52.49	25.90	1.04				
down for a job that you interviewed for?	[0.01]	[0.01]	[0.01]	(0.68)				
Have you ever been evicted or denied housing?	80.33	10.66	9.00	0.28				
· ·	[0.01]	[0.01]	[0.01]	(0.62)				
Have you ever been unreasonably stopped and questioned,	18.14	64.12	17.72	0.99				
searched, or arrested by police or security?	[0.01]	[0.01]	[0.01]	(0.59)				
Have you ever been unreasonably expelled or suspended from	83.93	8.72	7.34	0.23				
school?	[0.01]	[0.01]	[0.01]	(0.57)				
Have you ever been unable to open a bank account, cash a cheque,	83.10	9.83	7.06	0.23				
or get a loan?	[0.01]	[0.01]	[0.01]	(0.56)				
Have you ever had to move to another neighborhood, town, city,	80.60	12.18	7.20	0.26				
state, province or country?	[0.01]	[0.01]	[0.01]	(0.58)				
Have you ever lost a close relationship?	18.69	56.92	24.37	1.05				
	[0.01]	[0.01]	[0.01]	(0.65)				
Have you ever been repeatedly harassed at work or school, where	20.49	56.64	22.85	1.02				
you live, or when accessing services?	[0.01]	[0.01]	[0.01]	(0.65)				
Have you ever been threatened with a physical or sexual attack?	24.93	49.44	25.62	1.00				
	[0.01]	[0.01]	[0.01]	(0.71)				
Have you ever been physically attacked?	78.53	12.18	9.27	0.30				
	[0.01]	[0.01]	[0.01]	(0.63)				
Have you ever been made to engage in sexual activity, or been	73.54	14.81	11.63	0.38				
touched in a sexual way, that you did not want?	[0.01]	[0.01]	[0.01]	(0.68)				

Notes: The data set covers the periods 2021, 2022 and 2023 (n=722). Standard errors are given in square brackets. Standard deviations are given in parentheses.

73.82

[0.01]

16.34

[0.01]

9.83

[0.01]

0.36

(0.65)

Have you ever had someone take, damage, or vandalize your

property?

	Observations	Discrimination	General Health	Mental Health
Panel I: Age				
Individuals with an age lower than the average age in the sample (\bar{x} <39)	322	6.04 (6.40)	67.77 (15.38)	75.0 (16.54)
Individuals with an age higher than the average age in the sample $(\bar{x}>40)$	400	10.06 (3.85)	55.8 (10.64)	58.58 (11.63)
t-test		t=10.41***	t=13.35***	t=15.62***
Panel II: Gender				
Men	323	6.83 (4.85)	67.08 (13.52)	72.13 (14.51)
Women	399	9.43 (5.75)	57.13 (13.09)	60.86 (15.80)
t-test		t=6.47***	t=9.77***	t=9.87***
Panel III: Nationality				
Native individuals	485	6.12 (4.38)	66.92 (13.29)	72.33 (14.25)
Non-native individuals	237	12.66 (4.98)	50.65 (9.98)	52.74 (11.39)
t-test		t=17.97***	t=16.68***	t=18.47***
Panel IV: Sexual orientation				
Heterosexual individuals	661	7.46 (4.97)	63.32 (13.81)	67.87 (15.45)
Non-heterosexual individuals	61	17.06 (2.85)	42.70 (5.12)	44.59 (5.83)
t-test		t=14.84***	t=11.58***	t=11.68***
Panel V: Higher or vocational				
education				
Individuals with higher or vocational education	217	5.45 (3.05)	68.50 (10.72)	74.48 (11.88)
Individuals without higher or vocational education	505	9.48 (5.89)	58.61 (14.87)	62.21 (16.46)
t-test		t=9.53***	t=8.85***	t=9.92***
Panel VI: Employment status				
Employed individuals	543	6.30 (5.14)	66.01 (12.92)	71.26 (14.07)
Unemployed or economically inactive individuals	179	14.24 (4.02)	48.15 (10.01)	49.65 (10.55)
t-test		t=21.25***	t=16.89***	t=18.86***
Notes The data set severe the new	ria da 2021 2022 a		ation lle significant at	the 10/ level

Table 3. Descriptive statistics.	Tabulation analysis	. Discrimination,	General and Ment	al Health.	Means and
standard deviations					

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Notes: The data set covers the periods 2021, 2022 and 2023. (***) Statistically significant at the 1% level.

Table 4. Estimates. The determinants	of discrimination,	general health and	mental health	N.C. J. J. T.Y.		N/L . J . L X/T	M. J. J. X/II		Madality
	Model I. Doolod	Model II.	Model III. Fixed	Model IV. Reeled	Model V.	Niodel VI.	Model VII. Boolod	Model VIII. Dendom	NIOGELIA. Fived
	r ooleu OI S	Random offoats	offoots	r ooleu OI S	Random offoots	offoots	r ooleu OI S	offoots	offoots
	OLS. Discrimination	Disorimination	Discrimination	OLS. Ceneral	Conorol	Conorol	ULS. Montol	Montal	Montal
	Discrimination	Discrimination	Discimination	Health	Health	Health	Health	Health	Health
Age	2.675	0.175	0.039	-9.647	-4.988	-0.741	-12.361	-8.583	-4.199
C	(0.263)***	(0.103)***	(0.094)	(0.723)***	(0.820)***	(1.030)	(0.712)***	(0.834)***	(1.092)***
Women	1.181	1.710	× /	-6.378	-7.290	-	-6.789	-7.649	-
	(0.259)***	(0.447)***	-	(0.713)***	(1.183)***		(0.701)***	(1.131)***	
Non-native individuals	2.874	4.881	-	-6.230	-9.323	-	-7.518	-10.384	-
	(0.306)***	(0.492)***		(0.844)***	(1.341)***		(0.831)***	(1.287)***	
Non-heterosexual individuals	5.387	7.571	-	-11.919	-15.453	-	-12.334	-16.036	-
	(0.494)***	(0.804)***		(1.360)***	(2.160)***		(1.338)***	(2.070)***	
Higher or vocational education	-0.790	-0.324	0.001	2.043	1.956	-3.333	2.966	2.993	-5.333
6	(0.290)***	(0.222)	(0.220)	(0.798)**	(1.173)*	(2.409)	(0.785)***	(1.147)***	(2.552)**
Unemployed individuals (^)	4.809	0.089	0.040	-9.539	-2.560	-1.469	-12.532	-4.545	-2.830
	(0.370)***	(0.065)	(0.058)	(1.020)***	(0.647)***	(0.641)**	(1.004)***	(0.686)***	(0.679)***
Economically inactive individuals (^)	4.980	0.044	-0.040	-11.373	-2.850	-0.669	-13.014	-5.013	-2.168
5	(0.487)***	(0.114)	(0.101)	(1.340)***	(1.063)***	(1.115)	(1.320)***	(1.114)***	(1.181)*
F	180.19	-	0.30	154.47	-	2.06	230.94	-	10.48
Prob>F	0.000	-	0.880	0.000	-	0.084	0.000	-	0.000
R-squared	0.638	-	0.136	0.602	-	0.001	0.693	-	0.076
Wald x ²	-	310.13	-	-	341.87	-	-	592.09	-
$Prop > x^x$	-	0.000	-	-	0.000	-	-	0.000	-
R-squared	-	0.471	-	-	0.540	-	-	0.649	-
Breusch and Pagan Lagrangian multiplier test	452.84; p=0.000			378.00; p=0.0	000		415.49; p=0.00	00	
Hausman test	$20.92 \cdot n = 0.001$			$77.66 \cdot n = 0.00$	00		$36.88 \cdot n = 0.000$)	
Observations	722	722	722	722	722	722	722	, 722	722
Notes: The data set covers the newinds	2021 2022 and 202	$\frac{122}{(\wedge)}$ The reference	agtagam is amplou	, 22	The fixed effect	,22 smodels do no	122	, 22	ation Standard

errors are in parentheses. (***) Statistically significant at the 1%. (**) Statistically significant at the 5%. (*) Statistically significant at the 10%.

Table 5. Estimates. The relationship between discrimination and general health and mental health									
	Model I. Pooled	Model II. Random	Model III. Fixed	Model IV. Pooled	Model V. Random	Model VI. Fixed			
	OLS.	effects.	effects.	OLS.	effects.	effects.			
	General	General	General	Mental	Mental	Mental			
	Health	Health	Health	Health	Health	Health			
Discrimination	-1.970	-2.032	-1.951	-2.162	-2.179	-2.011			
	(0.071)***	(0.096)***	(0.505)***	(0.061)***	(0.078)***	(0.536)***			
F	370.44	-	4.68	713.81	-	11.44			
Prob>F	0.000	-	0.000	0.000	-	0.000			
R-squared	0.803	-	0.752	0.889	-	0.821			
Wald x ²	-	1283.38	-	-	2903.74	-			
$Prop > x^{x}$	-	0.000	-	-	0.000	-			
R-squared	-	0.803	-	-	0.888	-			
Breusch and Pagan	325.80; p=0.0	00		218.59; p=0.0	000				
Lagrangian multiplier test	-			-					
Hausman test	14.82; p=0.01	1		12.14; p=0.03	33				
Notas: The data set covers	Network The data set ensure the main is 2021 2022 and 2022 N=722 Meddel L H. W. and V. sectorel for individually and								

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Notes: The data set covers the periods 2021, 2022 and 2023. N=722. Models I, II, IV, and V control for individuals' age, gender, nationality, sexual orientation, higher or vocational education, and employment status. Models III and VI control for individuals' age, higher or vocational education, and employment status. Standard errors are in parentheses. (***) Statistically significant at the 1%.

Table 6. Fixed Effects Estimates. The determinants of discrimination								
Model I	Model II	Model III	Model IV	Model V				
Discrimination	Discrimination	Discrimination	Discrimination	Discrimination				
-0.228	-	-	-	-				
(0.023)***								
-	0.043	-	-	-				
	(0.004)***							
-	-	0.048	-	-				
		(0.006)***						
-	-	-	0.090	-				
			(0.025)***					
-	-	-	-	0.144				
				(0.026)***				
18.49	16.42	12.48	2.83	6.19				
0.000	0.000	0.000	0.015	0.000				
0.003	0.011	0.004	0.157	0.006				
451.67;	452.11;	451.93;	454.29;	64.33;				
p=0.000	p=0.000	p=0.000	p=0.000	p=0.000				
204.31;	99.02;	145.39;	22.28;	452.81;				
p=0.011	p=0.000	p=0.000	p=0.000	p=0.000				
	e determinants of d Model I Discrimination -0.228 (0.023)*** - - - - 18.49 0.000 0.003 451.67; p=0.000 204.31; p=0.011	e determinants of discrimination Model I Model II Discrimination Discrimination -0.228 - (0.023)*** - - 0.043 (0.004)*** - - 18.49	determinants of discrimination Model I Model II Model III Discrimination Discrimination Discrimination -0.228 - - $(0.023)^{***}$ - - - 0.043 - $(0.004)^{***}$ - 0.048 - 0.043 - - 0.043 - - - 0.048 $(0.006)^{***}$ - - - - - - - - - - - - - - - - - - - - - - - - - - - - 18.49 16.42 12.48 0.000 0.000 0.004 451.67; 452.11; 451.93; p=0.000 p=0.000 p=0.000 204.31;	determinants of discriminationModel IIModel IIIModel IVDiscriminationDiscriminationDiscriminationDiscrimination-0.228 $(0.023)^{***}$ (0.043) $(0.004)^{***}$ 0.043 $(0.004)^{***}$ 0.048 $(0.006)^{***}$ 0.048 $(0.025)^{***}$ 0.090 $(0.025)^{***}$ 18.4916.4212.482.83 0.000 0.0000.0000.0000.015 0.003 0.0110.0030.0110.0040.157 $451.67;$ 451.67;452.11;451.93;454.29; $p=0.000$ p=0.000p=0.000p=0.000204.31;99.02;145.39;22.28; $p=0.011$ p=0.000p=0.000p=0.000				

Notes: The data set covers the periods 2021, 2022 and 2023. N=722. (^) The reference category is the period covering the years 2022 and 2023. The models control for individuals' age, higher or vocational education, and employment status. Standard errors are in parentheses. (***) Statistically significant at the 1%.

Table 7. Fixed Effects Estimates. The determinants of general health and mental health								
	Model I.	Model II.	Model III.	Model IV.	Model V.	Model VI.		
	General	General	Mental	Mental	General	Mental		
	health	health	Health	Health	Health	Health		
Year 2021^	-	-	-	-	4.302	4.613		
					(0.473)***	(0.500)***		
Discrimination	-1.034	-0.523	-0.954	-0.148	-0.378	-0.192		
	(0.538)*	(0.502)	(0.568)*	(0.512)	(0.512)	(0.541)		
Year 2021 × Discrimination	-	-	-	-	-0.318	-0.314		
					$(0.046)^{***}$	(0.048)***		
Inflation rate	-0.261	-	-0.301	-	-	-		
	(0.059)***		(0.063)***					
Bank Rate	-	-0.583	-	-0.761	-	-		
		(0.070)***		$(0.072)^{***}$				
F	7.26	15.78	11.44	30.41	15.78	22.19		
Prob>F	0.000	0.000	0.000	0.000	0.000	0.000		
R-squared	0.728	0.679	0.821	0.401	0.658	0.637		
Breusch	331.19;	345.76;	226.96;	256.96;	352.84;	252.64;		
and Pagan Lagrangian	p=0.000	p=0.000	p=0.000	p=0.000	p=0.000	p=0.000		
multiplier test								
Hausman test	17.81;	30.37;	21.29;	36.30;	28.02;	23.98;		
	p=0.006	p=0.000	p=0.001	p=0.000	p=0.000	p=0.001		
Notes: The data set covers the periods 2021, 2022 and 2023. N=722. (^) The reference category is the period covering								

Notes: The data set covers the periods 2021, 2022 and 2023. N=722. (^) The reference category is the period covering the years 2022 and 2023. The models control for individuals' age, higher or vocational education, and employment status. Standard errors are in parentheses. (***) Statistically significant at the 1%. (*) Statistically significant at the 10%.