Life-course experiences shape the health and well-being of older adults. The foundational and continuing discrimination in the United States toward racial and ethnic groups of color perpetuate health profiles, particularly of older Black Americans, that are unequal and unjust. In all realms of life from education to neighborhoods to jobs and daily interchanges, older Black Americans have lived and aged through dissimilar circumstances than older White Americans. Our country needs a more refined understanding of exactly how discrimination affects health.

This special issue contains papers that seek to advance our understanding of the impact of discrimination on health among older Black Americans. Collectively these papers shed light on the complex relationships between interpersonal discrimination and its effect on health of older Black Americans. Interpersonal, or perceived discrimination is associated with inflammatory markers (1), cognitive decline (2), and premature mortality (3). In this issue, the articles extend this important body of work but with unintuitive findings. Sims et al. found a lack of association between hypertension and everyday discrimination (4). However, lifetime discrimination was associated with higher odds of hypertension among older men but not older women. Hallu et al. found no association overall between everyday discrimination and telomere length (a marker of accelerated aging) but did find that telomere length was shorter in those individuals with major experiences of discrimination who lived in neighborhoods with low social cohesion (5). The papers note that there may be recall bias for events that happened during the life course, survival bias of who lives long enough and is healthy enough to be in studies, or selection bias of those willing to enroll in studies. In addition to those critiques is the idea that measuring perception of or interpersonal discrimination merely captures a piece, important nonetheless, of the differently structured lives and stressors that Black Americans experience throughout life.

The structurally different experiences that Black Americans face in the major sectors of life may have more health impact than perceived discrimination. Structural discrimination (i) occurs across systems, rather than depending on one individual or institution, and (ii) is perpetuated by unintentionally or intentionally discriminatory policies and practices that compound inequities between groups in income and wealth, health, employment, neighborhood factors, environment, education, incarceration and criminal justice, media and marketing, and civic participation (6). As such, it is a “fundamental cause” or a cause of other causes (Figure 1) (7). One relevant aspect of a fundamental cause is that new health risks or new health innovations widen disparities; those with more privilege are able to access new treatments (eg, cancer disparities widen with new treatments (8)) and those with less privilege are less able to avoid the risk (eg, racial disparities in COVID-19 deaths). An important implication of structural discrimination as a fundamental cause is that chronic conditions cannot be addressed by focusing on intervening mechanisms, such as high blood pressure, alone. Rather approaches that target the underlying exposures are needed. A strong measure of structural racial discrimination would ideally be able to capture exposures over the life course and account for geographical differences in structural discrimination experiences.

Structural Resilience

Another aspect of structural racial discrimination is the resilience and reserve developed in communities and neighborhoods. The current science of reserve and resilience is predominantly focused on individuals or on individual brains. While individual resilience is important, it is supported by differentially distributed structural resilience. Parallel to the need to develop measures of structural discrimination is a need for measures of structural resilience that draw from the environments in which people live, work, eat, shop, play, and pray (7). As described in our Society-to-Cells Resilience Framework (9), resilience is not only an individual characteristic (i.e,
Measuring Structural Discrimination and Structural Resilience

Despite structural discrimination and structural resilience being drivers of health outcomes, there is currently no individualized way to measure them across the life course (14) and hence address them. A recent publication made a large leap on the multidimensional nature of structural discrimination but with a cross-sectional, rather than a life course, approach (15). Residential segregation is often used as a proxy for exposure to structural discrimination (14) but is only one component. Adequately measuring structural discrimination requires measuring both cumulative life-course exposure and measuring across contexts, such as education, employment, and the criminal justice system. The field needs more precise instruments that can assess exposure to structural discrimination across the life course and across contexts.

Similarly in the resilience realm, to our knowledge, there are currently no measures of community- or structural-level resilience outside of preparation for natural disasters (16). The tenets of our society-to-cells resilience theory can be a foundation for measurement of structural resilience. Two relevant tenets are: (i) that communities have periods in which they are particularly likely to be resilient; and (ii) interventions that occur on multiple levels (at built environment and policy level, for example) are more likely to have enduring impact.

A comprehensive measure of structural discrimination and resilience could evaluate the intersecting and compounding nature of structurally different access to the 9 domains identified in Figure 1 (14). Better understanding the relationship between structural factors and chronic disabling conditions such as Alzheimer’s disease could help inform the effectiveness of policies or interventions at mitigating the impact of structural discrimination on Alzheimer’s Disease and Related Dementias outcomes.

Plans to Improve Measurement of Structural Discrimination and Resilience

A significant side benefit of developing a reliable, valid measure of structural racial discrimination and resilience to test its role in some conditions such as dementia is that this work will enhance our understanding of other conditions as well, such as hypertension, stroke, heart disease, cancer, and conditions mediated by inflammation that are on the causal pathway to dementia. Understanding how to equalize Black and White chronic condition and functional limitation burden is an ethical imperative and will also reveal mechanisms that will optimize its prevention and care.

Overall, older people are able to contribute longer to society than in the past. This opportunity to affect in meaningful ways has been muted for African Americans. Individuals and families lose this time but so does society itself when 15% of its citizens have a twofold higher likelihood of early mortality and limiting chronic conditions such as Alzheimer’s disease. If all people had the same likelihood of major chronic conditions and disability, this would return time to older African Americans—to volunteer in schools, in churches, and to help advise small businesses. Refocusing our measurement to combat disparities is desperately needed. Identifying factors amenable to change is critical as we face our future.

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