Disadvantaged and Marginalized Individuals More Likely to Face Mental Health Issues

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The links between structural and social determinants and mental health are well documented. In a recent review, we examined the role of neurobiology in those links, seeking to identify ways in which the practice and application of neurobiological research can help to mitigate disparities and inequities in mental health across diverse marginalized and minoritized racial, ethnic, gender, sexual, and economic communities. Our review revealed the ways in which structural and social determinants influence neurobiological adaptation and maturation across the lifespan, with implications for mental health. We therefore recommend policymakers connect biological psychiatry with structural and social determinants of mental health by seeking to improve the circumstances of marginalized and minoritized communities.

Collectively, one’s life conditions are seen as the roots of one’s health, including neurobiological and mental health. These conditions vary across racial, ethnic, national, gender, sexual, economic, and other individual and community characteristics. Recognizing that variability exists in individuals’ life conditions necessitates also recognizing that lives begin on an uneven playing field for healthy development. Numerous researchers have documented the disparities and inequities in mental health across diverse marginalized and minoritized communities. The development and functioning of the brain plays a key role in the links between inequities and worse mental health across the lifespan. Yet, until recently, the roles that neurobiology plays in the developmental processes linking structural and social determinants with mental health have received relatively little attention.

Defining Structural and Social Determinants

Structural determinants include the political, economic, and social policies, practices, and values that function at national and local levels to affect the availability of resources, civil rights and protections, and overall cultural climate within which people live. Social determinants encompass people’s daily lived experiences resulting from these structural conditions. These may include personal material resources, education and employment, neighborhood resources, health care access, and inclusive versus discriminatory treatment by others. Structural and social determinants that are relatively severe, chronic, and stable—often, multigenerational—conditions may, throughout a person’s lifespan, influence developing neurobiological systems underlying mental health.

For example, being raised in poverty is associated with structural and functional changes in the brain. These include reduced hippocampal volume, altered prefrontal cortex (PFC) activity to emotional and cognitive tasks, and reduced connectivity between the PFC and the amygdala, which can potentially be attributed to experiencing more stressors at home.

The Long-Term Mental Health Consequences of Economic Hardship

Childhood poverty continues to leave a mark on the brain in adulthood, while increasing economic resources for impoverished children promotes healthier brain development. Economic hardship is linked with altered stress responses which can lead to various psychological issues, including anxiety, depression, and reduced quality of life.

physical and mental health problems. Hypercortisolism is more prevalent in infants and younger children living in poverty, whereas hypocortisolism emerges after more time spent in poverty, potentially reflecting the cumulative toll of poverty-related stress. Childhood poverty also predicts elevated tonic and reactive cardiovascular activity, especially blood pressure, in adolescence and adulthood.

Location matters, too. Disparities between neighborhoods prospectively predict the prevalence of psychiatric disorders, and neighborhood characteristics have been associated with the neurobiology underlying mental health. Independent of family economic resources, living in neighborhoods with greater poverty, deterioration, and crime during childhood or adolescence is associated with patterns of neural reactivity indicative of accelerated brain maturation.

It is also associated with either dampened or sensitized neural reactivity in multiple brain regions that control behavior and emotion.

Links between childhood adversities (e.g., family poverty) and later psychopathology are mediated through accelerated maturation of emotion-processing, and deficits in reward-processing. Socioeconomic status (SES) has consequences for family processes, and links between family SES and brain functioning and development are themselves mediated by effects of economic adversity on family functioning. The clinical implications of these effects on connectivity may present as emotion dysregulation, attention inflexibility, and inefficiencies and biases in processing information, among other symptoms.

**Address the Root Causes of Mental Health Disparities**

Standard interventions for mental health problems typically treat symptoms rather than root causes. To address those root causes and develop systems-level interventions to disrupt fundamental structural and social causes of disease at both individual and community levels, it is necessary to identify and understand neurobiological mechanisms by which adversity, classism, sexism, heterosexism, transphobia, and racism contribute to mental health disparities.

Bolstering antidiscrimination policies may help dismantle barriers to access to housing, employment, education, and fair treatment among economic, ethnic, racial, sexual, and gender minorities. More inclusive laws, policies, and practices support healthier brain development, which in turn promotes better mental and physical health.

Some such laws and policies exist, but often are not upheld. Governments need to be held accountable in exercising these protective measures. This extends to social safety-net programs as well as to violence prevention and gun-control legislation, natural-disaster emergency-response programs, and pollution-control efforts, all of which disproportionately adversely affect marginalized and minoritized communities. Meanwhile, in many jurisdictions, new legislation is imposing new structural inequities by, for example, denying gender-affirming health care to transgender minors or restricting school curricula from addressing the topic of structural and social determinants.

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