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Proximity to Fast Food Restaurants and Its Association with Obesity: A Public Health Concern

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Dear Editor

Obesity has emerged as one of the most pressing public health challenges of the 21st century. Its prevalence has escalated globally, affecting both high-income and low- to middle-income countries (Jiwani et al., 2019; Sanchez-Vaznaugh et al., 2019). The consequences of obesity extend beyond individual health, contributing to increased rates of cardiovascular disease, type 2 diabetes, respiratory complications, and certain cancers (Hamano et al., 2018). Moreover, the economic burden is staggering, with obesity-related healthcare costs accounting for a significant portion of national health expenditures estimated at 1.2% of GDP in the United States alone (Van Hulst et al., 2025).

While genetic and behavioral factors are often cited in discussions of obesity, growing evidence points to the critical role of environmental determinants (Hamano et al., 2018). Among these, the spatial distribution of fast food restaurants has garnered increasing attention (Jiwani et al., 2019). Studies have consistently shown that individuals residing in close proximity to fast food outlets are more likely to exhibit unhealthy dietary patterns, including higher consumption of energy-dense, nutrient-poor foods and lower intake of fruits and vegetables (Gallego & López-Gil, 2024; Hamano et al., 2018; Van Hulst et al., 2025). This trend is particularly alarming among children adolescents, whose exposure to fast food near schools and recreational areas correlates with increased intake of sugary beverages and processed snacks (Jia et al., 2021).

The proliferation of fast food establishments reflects broader socioeconomic and cultural dynamics (Jia et al., 2021). In many urban settings—particularly in countries such as the United States and the United Kingdom—fast food restaurants are disproportionately concentrated in low-income neighborhoods, where access to fresh produce and healthy food options is limited. For example, in the UK, 29% of people living in the most deprived areas reside in neighborhoods with the highest concentration of fast food outlets,

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(Sanchez-Vaznaugh et al., 2019). Similarly, a

multi-country study across 68 nations found that

food insecurity was significantly associated with

increased fast-food consumption, especially in

low- and middle-income countries (Smith et al.,

2022). This imbalance in the food environment

exacerbates health disparities and perpetuates

cycles of poor nutrition and obesity (Gallego &

López-Gil, 2024). Despite public health campaigns

which aims at promoting healthier eating habits,

the nutritional profile of fast food offerings has

remained largely unchanged, and aggressive

marketing strategies continue to target vulnerable

To address this multifaceted issue, The authors

recommend a comprehensive public health

approach that includes both regulatory and

educational interventions (Jiwani et al., 2019).

Zoning policies should be implemented to restrict

the establishment of fast food outlets near schools,

parks, and residential zones (Van Hulst et al.,

2025). Simultaneously, incentives should be

affordable, nutritious food options. Community-

based programs that promote food literacy and

empower individuals to make healthier choices are

Furthermore, longitudinal research is needed to

examine the causal relationship between food

environments and obesity outcomes. Such studies

should account for confounding variables such as

grocery

and

also essential (Jiwani et al., 2019).

efforts

encourage the development

stores

offering

provided to

supermarkets

coordinated

populations (Gallego & López-Gil, 2024).

socioeconomic status, physical activity levels, and cultural dietary preferences. By deepening the understanding of these dynamics, policymakers can design targeted interventions that are both effective and equitable.

In conclusion, the spatial accessibility of fast food is not merely a convenience; it is a determinant of public health. Tackling obesity requires a shift in how we conceptualize and regulate our food environments. Through

across

education, and health sectors, we can create

urban

planning,

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communities that support healthier lifestyles and reduce the burden of obesity.

Keywords

Obesity, Fast Foods, Public Health, Schools, Food Environment

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