

Short Communication





A holistic approach to combat obesity

Abstract

Obesity has imposed heavy clinical and economic burdens on the community. Overcoming obesity has become an arduous task and a comprehensive systematic process. Given the time constraints, limited resources, and intervention implementation difficulties, an effective and efficient strategy needs to be carefully designed to prioritize numerous interventions at different levels from multiple stakeholders. Health policies should focus on the main social determinants of health to combat obesity: environment, life style and behaviors, and medical care. In order to use resources efficiently, a holistic approach should be deployed by taking these social determinants of health into consideration at both an individual level and a community level. The top priority should be given to endeavors that promote healthy life styles and behaviors. These individual level endeavors usually require simple or moderate changes and can be implemented quickly and effectively in a short to moderate length of time. When possible, the second priority should be given to health policies to improve social and physical environments and to provide effective medical care to combat obesity. A policy recommendation is that a balance needs to be achieved between short term and long term effects of combating obesity.

Keywords: combat obesity, overweight

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Introduction

Obesity has imposed heavy clinical and economic burdens on the community. In 2014, over 2.1 billion people, nearly 30% of the global population, were overweight or obese and 5% of the deaths worldwide were attributable to obesity.1 Based on the current incidence rate, it is estimated that almost half of the world's adult population will be overweight or obese by 2030.1 Obesity also imposes a large economic burden on the individual, and on families and nations.^{2,3} In 2014 the global economic impact of obesity was estimated to be \$2.0 trillion USD or 2.8% of the global gross domestic product.¹ Furthermore, obesity imposes costs in the form of lost productivity and foregone economic growth as a result of lost work days, lower productivity at work, mortality and permanent disability. It has been described that there is a gradient between increasing BMI and costs attributable to obesity.4-7 This short paper is not meant to discuss any specific intervention to combat obesity; rather it focuses on the priority of intervention categories based on how easily they can be implemented. Overcoming obesity has become an arduous task and a comprehensive systematic process. Given the time constraints, limited resources, and intervention implementation difficulties, an effective and efficient strategy needs to be carefully designed to prioritize numerous interventions at different levels from multiple stakeholders and balance the short term and long term effects.

Methods

Based on the social determinants of health theory, the main reasons that account for obesity include physical and socioeconomic environment, life style and behaviors, medical care, and genetics. Given that the genetics factors are hard to change, health policies should focus on the other three social determinants of health: environment, life style and behaviors, and medical care. Some

examples of each determinant are illustrated below.

- Environment: Socioeconomic: prevalence of junk food such as fast food with high caloric content, financial resources, culture and norms.
- b. Physical: water, air, soil, geography, urban rural status.
- c. Life style and behavior: Exercise and sedentary life style, positive or negative mood, diet, smoking and alcohol use.
- Medical care provision: Preventive care, emergency department care, inpatient care.

Conclusion

In order to use resources efficiently to combat obesity, a holistic approach should be deployed by taking these social determinants of health into consideration at both an individual level and community level. Table 1 summarizes these levels and the degree of difficulty required to change for social determinants of obesity and health. The top priority should be given to endeavors to promote individuals' healthy life styles and behaviors, such as exercise, positive outlook, healthy diet, and eliminating unhealthy behaviors such as smoking and excess alcohol consumption. These individual level endeavors are easy or only moderately difficult to implement and usually take a short to moderate length of time to effectiveness. When possible, the second priority should be given to health policies to improve social and physical environments and to provide effective medical care to combat obesity. Ideally, all categories of interventions are needed to jointly combat obesity. However, priorities should be given to interventions based on the level and degree to which how hard these determinants can be changed. A policy recommendation is that a balance needs to be achieved between short term and long term effects of combating obesity.

Table I Intervention Priority for Social Determinants to Combat Obesity and Promote Health

	Difficulty of change	At what level	Intervention priority
Life style and behaviors	Moderate, usually takes moderate length of time	Individual level	First level





Table acontinued....

	Difficulty of change	At what level	Intervention priority
Socioeconomic and physical environment	Hard, usually takes long time	Community level	Second level
Medical care provision	Hard, usually takes long time	Community level and healthcare system level	Second level

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Conflict of interest

The author declares no conflict of interest.

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