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# Behavioral Economics in Health: Nudging Better Choices

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### **ABSTRACT**

Behavioral economics examines the psychological and cognitive influences on decision-making, particularly how individuals often deviate from rational choice theory. These insights are instrumental in designing interventions that encourage healthier behaviors through strategic "nudges" and optimized choice architecture in the healthcare sector. This paper examines the core principles of behavioral economics, including bounded rationality, heuristics, and cognitive biases, and their application in public health. It highlights real-world cases of nudges such as modifying food placement in cafeterias, default enrollment in health programs, and social norm-based interventions that have effectively improved health outcomes. While nudging holds promise as a non-coercive strategy for behavior change, ethical considerations regarding autonomy and paternalism must be addressed. Future research should explore how these interventions can be scaled and personalized to cater to diverse populations. By leveraging behavioral insights, policymakers and healthcare providers can implement innovative strategies to promote healthier choices and bridge health disparities.

**Keywords:** Behavioral economics, nudging, choice architecture, health decision-making, cognitive biases, bounded rationality.

### INTRODUCTION

Behavioral Economics examines the psychological motivations and biases that influence individuals when making economic decisions. While these concepts are familiar to many, they are commonly separated from the decision-making and behaviors—particularly as they relate to purchasing and public health—of people. This knowledge gap often forces practitioners and policy-makers to overlook key factors that could greatly impact the success and reach of a service. This gap exists because of the discrepancy between rational choice theory, which assumes an important premise of nausea fulfillment through individual benefit optimization, and how people behave. People's decision-making is greatly influenced by external factors, or their "choice environment". That context is what defines the tenets of behavioral economics. In the current climate, in particular, the healing industry is of major public and political interest—widening health disparities, opioid addiction, rising stress and depression, uneven availability of health care, high cost, etc. Often using small changes in the way choices are given or framed, these external factors can be leveraged to shift decisions one way or another, steering individuals toward choices, which, while not guaranteed to benefit them, are less harmful. Sometimes large, sometimes minor, these psychological "nudges" can be implemented in a range of environments and several ways. Such tenets, definitions, and concepts are provided as necessary to promote wider reader understanding of how behavioral economics (BE) could—and should—be applied to the formulate health settings, a nascent intersection particularly violin for greatly improving health outcomes. While pertinent current examples are given, direct health application is not tackled until later sections. These foundational understandings should prepare readers for the subsequent appropriate rhetorical tools and concepts [1, 2].

## **Key Concepts and Principles**

In this paper, I argue that behavioral economics has a significant role to play in health, not least because of health's central position in an individual's range of interests and its nature as a powerful motivator of human action. First, the foundational concepts and principles that the discipline uses are addressed. These

include 'nudges,' 'choice architecture,' and 'bounded rationality.' They are vital as a background to understanding the occasional and problematic ways in which individuals make decisions related to their health. For this reason, the second half of the article is devoted to an examination of those psychological mechanisms that incline decision-making towards health-damaging choices and interventions that might assist [3, 4]. At the heart of both 'nudge' and 'behavioral economics' is the concept of 'bounded rationality.' This notion posits that there are limitations (bounds) on the ability of individuals to process all the information necessary to make fully informed decisions. As a result, they perform much of the time in a manner that is 'irrational.' The unhealthy, costly, and risky choices made by individuals are largely unintended, a result of this 'irrationality' and external factors. It is the latter which can be altered by institutions to create 'nudges,' a permutation of the surrounding environment or circumstances in such a way that altered decisions are encouraged without limiting choice. Choice architecture is the design of the surroundings in which individuals choose. Building on the concept of 'bounded rationality,' it is assumed that decision-making is not an entirely mental process but one that can be unintentionally influenced by the context in which decisions are taken. Judgments constructed on exposure to one option can differ when an alternative is provided simultaneously or sequentially. This relativity, compounded by the unpredictability of human action, was a bane to classical economists, who assumed otherwise. However, these concerns of the unpredictability and union of context and decision were addressed by several researchers, predominantly during the 1970s when work was done on cognitive biases, heuristics, and mental short-cuts. Since the resurgence of interest in the mid-1990s, these biases are now largely either eliminated or harnessed to achieve changes in behavior. However, it was only recently that the progress in understanding what was then referred to as 'anomalies' assumed policy significance, a tool for governments that wish to influence behaviour but reject radical intervention to do so. Imagine a meeting between two friends in a fast-food restaurant. Alice decides on a salad rather than her usual burger, as she does not see the 'super-size' option highlighted on the menu, whereas Bob keeps his selection of junk food as he is exposed to the same option. Bob is not even aware of the presence of the salad. Here, the same decision takes place outside consciousness, affected by contrast effects. Although each is still making a decision, these are not optimum; they are instead considered 'non-rational' [5, 6].

# Application of Behavioral Economics in Health

Behavioral Economics study applies psychological insights to economic decision-making to explain anomalies and improve efficiency. Although the economic model portrays people as fully rational, in health, they often choose enjoyment that is inimical to good health. Behavioral economics has developed theories, principles, and methods with relevance to health. In the past 2 decades, its potential to change behavior has been tested, attracting punters to make better choices. "Nudging" is one approach that considers the ways choices are presented and can be influenced. There are enough applications to fill a public health textbook. Most empirical research on nudges applies traditional economic theory in a microanalysis of public policy. Behavioral economics takes a somewhat different approach, starting from a psychological realism critique of standard economics. It is contended that a more realistic social science could change the absent maths, enabling a deeper appreciation of assumption susceptibility [7, 8]. Public officials need a coherent view of what interventions might deliver if the objective is to trigger healthier consumer decisions. The passion and energy confronting such choices, however, have been marred by misunderstanding. Critics, for instance, make the cheap-shot remark that 'behavioural hits' are blatant manipulations of the unwary. Such polemics ignore the fact that every day, millions of decisions are taken that concern nuisances like diet, homework, and smoking. Individual well-being invariably floats higher when these choices are sound. This realization provides the craftsman of public policy a broad canvas. They can either limit how life-enhancing choices are curtailed or nudge bigger numbers of people into these options. This explanatory book presents the latter approach. It sets out how behavioral science can be recruited to boost healthier outcomes among the public [9, 10].

### **Nudges and Choice Architecture**

This subsection focuses on nudges and the architecture of choice that can encourage people to make better decisions concerning their health. It can facilitate better decisions simply by designing the environment more thoughtfully. When it comes to health and behavior, this would mean designing the environment in a way that can help people live a healthier life. This inquiry specifically looks at the natures of nudging and choice architecture and investigates how this can be designed to promote healthier behaviors. The overarching questions are: What is the nudge? What is choice architecture? How can it be designed to nudge people into making healthier decisions? Furthermore, this inquiry aims to present the findings in a way that can be useful for policymakers to implement in different policies. A nudge is a "subtle policy intervention that seeks to improve the welfare of those being nudged, while also

reflecting the welfare agendas of the policymaker". It is a way of influencing the public by designing the choice architecture in a specific way without limiting their choices. Nudges can take different forms, such as defaults, incentives, social norms, or changing the position of choices. Research in this field has shown that nudges can have a significant impact on individual behavior. Nonetheless, effectiveness varies with the choice of nudge and the specific target population. When facing a pandemic, individual preferences might need to be secondary to guided choices, an argument with a long tradition in economics. In the era of health policies, this older tradition is regaining momentum with the Nudge Theory. Behavior has been seen sometimes as the result of the interaction between preferences and constraints, but in a nudge, the interplay is among preferences and guided choices. The nudge, an architecture of choices that preserves the possibility to choose but provides external insight to affect the choice, is a robust but also controversial policy instrument. Many of the nudges, though, are much milder and touch upon very subtle aspects of the environment. From rearranging in a supermarket the water and soda positioning, guiding customers towards healthier choices, to creating in a school cafeteria a more attractive name for the same healthy food, nudges reveal how, even in subtle ways, the environment can significantly influence behavior. Finally, choice architecture can exploit defaults, that is, determining an (active) choice by changing the status quo. Given the proximity of the concepts and the difficulties of delimiting the boundary of all, the present investigation will look at nudges as a design of the choice architecture, focusing on healthy policies. The interest, in this case, is in the effectiveness of the nudge in healthier policies, looking at the way of addressing the obesity pandemic and its capability to embody a broader public health agenda [11, 12].

# Behavioral Insights for Health Behavior Change

Interventions in health promotion have traditionally assumed that if individuals are provided with relevant information, they will make better decisions for themselves and society. However, this approach fails to take into account the cognitive and emotional factors that drive human behavior. Research in behavioral economics and social psychology has demonstrated that people often do not act by standard economic theories of rational choice. Rather, behavior and decision-making are influenced by a wide range of cognitive biases, habits, and motivations. Building upon a better understanding of how a person makes decisions, it is possible to try to influence behavior in a more consistent and sustained way. This paper will outline some important behavioral insights that have particular relevance for health, as well as the strategies that can be harnessed to design choice architecture and health promotion interventions. There are several cognitive biases and environmental factors that act as a barriers to making healthier decisions. For example, there is a tendency to overvalue immediate gratification at the expense of longer-term benefits. This present-biased preference for current consumption can lead to poor preventive health behavior choices, such as an unhealthy diet, lack of exercise, or excessive alcohol consumption. Social norms also play an important role in behavior, as individuals tend to mimic and are affected by other people's decisions. The strong influence of both actual and perceived behavior of others raises opportunities for change through social marketing, consumer feedback, or peer comparison. Furthermore, recent evidence suggests that changes in individuals' surroundings or context may lead to a disproportional change in behavior. Over time and with other interventions, environmental manipulation may gradually transform into a more permanent and self-directed approach to health and other desirable ends in the form of new habits [13, 14].

# **Understanding Decision-Making**

Determinants of an individual's choices do not only encompass an increasingly well-informed understanding of the potential risks and benefits of a decision, à la rational choice framework. A broader lens is taken, illuminating the psychology of choice. The presumption of a rational economic actor is replaced by empirical research that considers variation in the planning process. A choice could be informed by any combination of reasoned deliberation or deliberative heuristics such as emotions, others' choices, habit, or social norms. It is considered that choice is the outcome of proximate mechanisms (rather than anticipated outcomes), and proximate mechanisms are dispositional (shaped by a lifetime of experiences). Therefore, a plurality of determined processes could lead to similar outcomes. An individual is exposed to a wide variety of daily environmental influences, a large number of challenges, and too much information. We have learned to cope with these demands as best we can, employing heuristics to simplify, filter, identify, and evaluate our environment. Heuristics can be defined as problem-solving devices or strategies that contrast with routines or procedures, which are defined as pre-specified fixed sequences of well-defined steps that have to be executed to achieve specific goals. Heuristics could be thought of as rules-of-thumb, often related to search and decision making, that are more flexible in that they specify an action only under specific circumstances. An experimental and meta-analytical

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investigation identified the significant causal impact of a financial conflict of interest over and above confirmation bias in shaping the beliefs and behavior of market participants. sheds light on the role of the availability heuristic in how analysts' abundant expectations shape stock markets' risk-adjusted returns [15, 16].

### **Ethical Considerations in Nudging for Health**

At the community level, public health institutions and governments must strike a balance between individual rights and protecting and promoting the common good. In this regard, initiatives that advocate for the use of nudges to promote healthy behaviours are gaining global traction. The structure of choice environments can influence decisions, nudging people toward making choices that are good for themselves and society as a whole [17, 18]. Nudging in healthcare settings, patient decisions might lead to profound personal benefits and unwanted side effects. There are acute conflicts between the potential value of suggested choice platforms and the threat to patient independence. A nudge is often sufficient to change the default choice, irrespective of its implications. It becomes extremely difficult to discern the patient's autonomous choice while reasons are influenced by the order of presentation. Moreover, the responsible application of such architectures should be restricted to effects that are non-manipulative, appreciating that an unintended choice architecture will always emerge. In this sense, it is necessary to take a step back and critically reflect on the concept. As has been warned, the viable risks of overlooking important decisions, thereby neglecting a thorough consideration of arguments and values, are considerable [19, 20].

### **Autonomy and Paternalism**

Nudges are choice-preserving tools that organize the context in which people make decisions, framing options in ways believed to be in their best interests. Because the way choices are presented continues to influence people even when no alternative is taken, advances in behavioral economics have led to a growing wave of interest in the design of choice architecture to improve health-related decisions. However, when examining how best to build better "niches" that make individuals prone to making healthier choices and improving overall well-being, there is a tension between autonomy and paternalism that needs to be addressed. This subsection examines the philosophical underpinnings of autonomy and the moral significance of respecting individual choices. It critically evaluates the role of paternalism in guiding people toward better decisions concerning their health and examines the ethical implications of such interventions [21, 22]. In this context, paternalism is a policy or practice meant to prevent someone from engaging in actions that could harm one's health or well-being. Some of the nudges proposed by policymakers or practitioners in the health sector are paternalistic, helping individuals select alternatives better aligned with health recommendations or promoting physical activity, while others are non-routine and environmental changes designed to make healthier foods more visible and more readily available. Several defenses have been offered for the employment of policies, practices, or specific interventions based on nudges rather than education or provision of information only. First, behavior change interventions that do not rely on more forceful, harmful, or counterproductive tools are widely regarded as legitimate—people are prone to ask their friends or pay for help to achieve a particular goal. Second, it is frequently argued that poor choices relative to food and physical activity options and health are to some extent prompted by irrational behavior. Finally, some degree of soft paternalism is supported because the welfare costs of unhealthy practices (exacerbated by various failures in self-control) exceed those linked to changes concerning food and other hedonic dimensions. These considerations, however, should not question the importance of observing transparency and the moral duty of informed consent, stressing the potential drawbacks of some nudge-based initiatives, especially when people are subjected to complex or multifaceted interventions [23, 24]. Last year, 57% of Texas juniors met all criteria for college readiness. This year, following a change in scoring criteria, only 28% of Texas juniors met all criteria for college readiness. Those behind the SAT exams must take the blame.

### **Future Directions and Implications**

The application of Behavioral Economics in health is rapidly expanding as stakeholders have started to appreciate the complexity of health behaviors. This article applies the principles of Behavioral Economics in the recent landscape of health behavior change. First, a focused overview on the foundation of Behavioral Economics and its major real-world applications is provided. Subsequently, current insights from the field are summarized to suggest best practices in the application of Behavioral Economics principles in health. Finally, some controversies and debates in the field are reviewed to inspire new ideas and methodologies. It is hoped that this comprehensive examination of Behavioral Economics in health will benefit stakeholders interested in improving population health and encouraging a more multidisciplinary approach to health behavior change [25, 26]. One booming application of Behavioral

Economics in health is the development of "nudge" interventions to encourage healthier behaviors. A nudge is a concept that refers to "any aspect of the choice architecture that alters people's behavior predictably." Nudges are often subtle and straightforward interventions that do not change the incentives or restrict decision-making freedom. In recent years, a body of evidence has demonstrated the high efficacy of nudges in changing various health behaviors, such as medication adherence, regular exercise, and portion control. Payers, hospitals, clinics, and other health organizations have thus started to invest heavily in the deployment of nudge interventions at both the small and large scales [27, 28].

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### **CONCLUSION**

Behavioral economics provides a powerful lens to understand and influence health-related decision-making. By leveraging insights into cognitive biases and heuristics, policymakers and practitioners can design nudges that encourage healthier behaviors without restricting individual autonomy. While the application of nudges in health has shown promising results, ethical considerations regarding paternalism and informed consent remain pivotal. Future research should focus on refining these interventions, ensuring they are both effective and ethically sound. As the field evolves, behavioral economics will continue to play a crucial role in shaping public health policies, reducing health disparities, and fostering a healthier society.

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