

Review

Vigilance Decrement and Enhancement Techniques: A Review

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Abstract: This paper presents the first comprehensive review on vigilance enhancement using both conventional and unconventional means, and further discusses the resulting contradictory findings. It highlights the key differences observed between the research findings and argues that variations of the experimental protocol could be a significant contributing factor towards such contradictory results. Furthermore, the paper reveals the effectiveness of unconventional means of enhancement in significant reduction of vigilance decrement compared to conventional means. Meanwhile, a discussion on the challenges of enhancement techniques is presented, with several suggested recommendations and alternative strategies to maintain an adequate level of vigilance for the task at hand. Additionally, this review provides evidence in support of the use of unconventional means of enhancement on vigilance studies, regardless of their practical challenges.

Keywords: Vigilance; Vigilance Decrement; Vigilance Enhancement; Conventional Means of Enhancement; and Unconventional Means of Enhancement

1. Introduction

Vigilance can be defined as the ability to sustain attention and remain alert to a particular stimulus over a prolonged period of time. A multitude of industrial, military, medical, and educational tasks require continuous vigilance with varying levels of cognitive workload. Applications that need sustained attention include security personnel [1], employees tasked with monitoring surveillance cameras or baggage screening experts [2], driving vehicles [3], diagnostic medical screening [4], real classroom settings [5], and industrial and air traffic control [6,7]. Such tasks necessitate a specific bandwidth of arousal for maintaining an acceptable level of cognitive efficiency. An increased rate of target stimuli in stressful multitasking operations can lead to excessive cognitive workload and reduced cognitive ability. Similarly, monotonous stimuli can also lead to vigilance decrement and drop in cognitive efficiency. Past researchers have specifically reported that maintaining one's vigilance in a stressful climate requires hard mental work [8]. A study has shown that target detection performance decreases by 15% in 30 minutes during a monotonous task [9]. This reduction in cognitive efficiency results in increased reaction time, error rate, and may even have fatal consequences. For instance, security personnel monitoring cameras may miss incidents suspicious activity, and drivers may cause traffic accidents.

Vigilance decrement has been studied using overload and underload theories [10]. The overload theory has claimed that vigilance decrement results from the depletion of cognitive resources. According to the mindlessness theory [11], increased time on task causes people to gradually lose

Techniques Of Vigilance

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Clinical Applications of Cognitive Therapy was published in 1990 it provided a valuable resource for practitioners researchers and advanced students of Cognitive Therapy At that time a large body of research supported the cognitive view of psychopathology and showed that Cognitive Therapy was an effective treatment approach However as practitioners went forth to apply Cognitive Therapy in real life clinical practice they faced significant challenges In controlled outcome studies standardized treatment protocols for treating one specific problem had been applied with carefully selected research subjects In clinical practice individuals seeking treatment typically had more than one problem at a time had a variety of factors which complicated treatment or had problems for which no standardized treatment protocol had yet been developed Clinical Applications of Cognitive Therapy was a volume written by practitioners for practitioners which provided an integrated step wise approach to understanding the principles and practice of Cognitive Therapy Its clear practical approach was rich in clinical vignettes that demonstrated how the principles and strategies of Cognitive Therapy are applied In addition to discussing the treatment of depression suicidality and anxiety disorders it discussed the complications that arise when applying Cognitive Therapy's apparently straightforward approach in the consulting room In particular it included an extensive discussion of the inter personal complexities encountered when applying Cognitive Therapy with clients who have personality disorders

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