

Exploring the Effects of Sleep on Adolescent Cognitive Development

Casey Turner
PhD
University of Helsinki
Yliopistonkatu 4, 00100 Helsinki, Finland

Rowan Hall
PhD
Bogazici University
Bebek, 34342 Beşiktaş/Istanbul, Turkey

Cameron Hernandez
PhD
University of Malaya
50603 Kuala Lumpur, Federal Territory of Kuala Lumpur, Malaysia

Abstract. This study examines the impact of sleep patterns on the cognitive development of adolescents. By analyzing sleep duration and quality, we assess their effects on memory, attention, and overall cognitive functioning. The research indicates that sufficient, high-quality sleep is crucial for optimal cognitive development in adolescents, suggesting the need for public health initiatives to promote healthy sleep habits among youth.

Keywords: Sleep, Cognitive development, Adolescents, Memory, Public health

Introduction

Sleep is a fundamental component of health and well-being, playing a critical role in the cognitive and emotional development of adolescents. Adequate sleep supports various cognitive functions, including memory consolidation, attention regulation, and problem-solving abilities. This study explores the effects of sleep patterns on adolescent cognitive development by examining the relationship between sleep duration, quality, and cognitive performance. Through comprehensive analysis, we aim to identify the impact of sleep on key cognitive processes and provide insights into the importance of promoting healthy sleep habits. Our findings underscore the need for public health initiatives that address sleep issues to support adolescents' cognitive growth and development.

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