

Article

The Impact of Anxiety and Depression on Academic Performance in High School Students: A Cognitive Perspectives

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Abstract:

Mental health issues, particularly anxiety and depression, significantly affect students' academic performance. This study examines the cognitive models of David M. Clark and Aaron Beck to understand how maladaptive thought patterns contribute to anxiety and depression in high school students. The COVID-19 pandemic exacerbated these mental health concerns, leading to increased academic struggles. Using a theoretical and empirical approach, this study highlights key symptoms, cognitive distortions, and intervention strategies, including Cognitive Behavioral Therapy (CBT). Findings emphasise the need for mental health support in educational settings to improve student outcomes.

Keywords: Anxiety, Depression, Academic Performance, Cognitive Model, High School Students, Cognitive Behavioral Therapy (CBT)

1. INTRODUCTION

The World Health Organisation (WHO) defines health as "a state of complete physical, mental, and social wellbeing and not merely the absence of disease or infirmity". Despite increasing awareness, mental health remains a stigmatised issue, leaving millions suffering in silence without adequate support.

High school is a crucial phase in students' lives, where academic pressures become more intense, increasing their vulnerability to stress, anxiety, and depression (Zou et al., 2024). The COVID-19 pandemic, which emerged in December 2019, has exacerbated mental health challenges globally. The psychological impact of quarantine, illness, and uncertainty, coupled with the loss of loved ones, has led

to a rise in anxiety and depressive disorders among students (Peifer & Taasobshirazi, 2022). Studies indicate that the pandemic-induced stress has significantly influenced students' mental well-being, with increased anxiety and reduced cognitive empathy (Peifer & Taasobshirazi, 2022).

2. OBJECTIVES

1. To analyze the cognitive mechanisms underlying anxiety and depression in high school students.
2. To evaluate the impact of anxiety and depression on students' academic performance.
3. To explore intervention strategies based on Clark's and Beck's cognitive models.

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3. METHODOLOGY

This study utilizes a mixed-methods approach, incorporating:

1. **Literature Review:** Analysis of previous studies on student mental health, cognitive distortions, and academic performance.
2. **Empirical Data:** Secondary data from existing research on anxiety, depression, and academic outcomes.
3. **Theoretical Framework:** Application of Clark's and Beck's cognitive models to interpret students' experiences.

4. THEORETICAL FRAMEWORK: DAVID M. CLARK'S COGNITIVE THEORY OF ANXIETY AND DEPRESSION

David M. Clark's cognitive model provides a framework for understanding anxiety and depression in students. This theory suggests that these disorders are sustained by maladaptive cognitive processes, including negative automatic thoughts, dysfunctional beliefs, and attentional biases (Zou et al., 2024).

Clark's model aligns with cognitive-behavioural therapy (CBT), which has been found effective in mitigating anxiety and depression among students (Zamiri-Miandoab & Hassanzade, 2022). Research supports the notion that students experiencing cognitive distortions are more likely to develop persistent mental health issues, further exacerbated by academic stress and external pressures (Zou et al., 2024). Moreover, studies reveal that students with higher cognitive distortions exhibit a cyclical relationship between anxiety and depression, where one disorder amplifies the other (Zou et al., 2024).

The COVID-19 pandemic further heightened these cognitive distortions, as students faced uncertainties about their education, health, and social lives. Research by Kibbey et al. (2021) found that students living in pandemic "hotspots" exhibited significantly higher levels of anxiety and health-related fears. This aligns with Clark's model, which posits that individuals who focus excessively on perceived threats are at a greater risk of developing long-term mental health disorders (Zou et al., 2024).

4.1. Anxiety in High School Students (Clark & Wells, 1995)

Clark and Adrian Wells developed a cognitive model of social anxiety disorder, particularly relevant to teenagers struggling with peer relationships and self-image. The key components of this model include:

1. **Negative Self-Perception:** High school students may develop an overly critical self-view, fearing negative judgement from others.
2. **Self-Focused Attention:** Excessive self-monitoring in social situations can heighten self-consciousness, reinforcing anxiety.
3. **Safety Behaviors:** Avoidance strategies such as

avoiding eye contact or rehearsing conversations internally maintain anxiety in the long run.

4. **Post-Event Rumination:** After social interactions, students may excessively analyse perceived mistakes, reinforcing anxious thought patterns (Clark & Wells, 1995).

This model explains the onset of social anxiety disorder (SAD) in students, especially those facing bullying, peer pressure, or academic stress.

4.2. Depression in High School Students (Clark & Beck, 1999)

Clark and Aaron Beck expanded the cognitive model to depression, which is particularly applicable to adolescents. The core elements include:

1. **Negative Cognitive Triad:** Depressed students tend to hold negative beliefs about themselves ("I'm worthless"), the world ("Nobody cares about me"), and the future ("Things will never get better").
2. **Cognitive Distortions:** Adolescents often engage in maladaptive thought patterns such as catastrophising, black-and-white thinking, and overgeneralisation.
3. **Learned Helplessness:** Repeated failures (academic or social) can lead students to believe they have no control over their lives.
4. **Rumination:** Adolescents with depression frequently dwell on negative experiences rather than seeking solutions, maintaining their depressive state (Clark & Beck, 1999).

4.3. Intervention Strategies Based on Clark's Theory

Given Clark's emphasis on maladaptive thought patterns, Cognitive Behavioral Therapy (CBT) is a widely recommended intervention. Key techniques include:

1. **Cognitive Restructuring:** Identifying and challenging negative thoughts.
2. **Exposure Therapy:** Gradual exposure to feared situations to reduce avoidance behaviours.
3. **Behavioral Activation:** Encouraging students to engage in activities that improve mood and break avoidance cycles.
4. **Mindfulness and Relaxation Techniques:** Teaching students to manage distress without resorting to rumination or avoidance (Clark, 2013).

4.4. Beck's Theory in the Context of Student Mental Health

Aaron Beck's cognitive model also contributes to understanding student mental health by identifying:

1. **Cognitive Triad:** Students experiencing academic pressure may develop negative self-perceptions, leading to anxiety and depression.
2. **Cognitive Distortions:** Common maladaptive thinking patterns include catastrophising ("If I fail this

test, my future is ruined”) and personalisation (“The teacher seemed annoyed today; I must have done something wrong”).

3. **Automatic Negative Thoughts (ANTs):** Persistent negative self-talk exacerbates anxiety and depression.
4. **Cognitive Behavioural Therapy (CBT) for Students:**
 - Identifying and challenging irrational thoughts.
 - Encouraging behavioural activation to improve mood.
 - Teaching problem-solving skills to cope with academic and social challenges (Beck & Haigh, 2014).

4.5. Application to Student Well-Being

Negative cognitive patterns can significantly impact students in the following ways:

1. **Academic Performance:** Maladaptive thoughts can decrease motivation, leading to procrastination and avoidance.
2. **Social Anxiety:** Fear of judgement can prevent students from participating in class and social activities.
3. **Test Anxiety:** Distorted thinking about failure can cause excessive pre-exam stress.
4. **Resilience and Coping:** CBT-based interventions help students develop resilience against academic and personal challenges (Clark & Steer, 1996).

4.6. Signs and Diagnosis of Anxiety and Depression in Students

While symptoms may vary, common signs include:

1. **Mood:** Sadness, irritability, hopelessness, or worthlessness.
2. **Energy:** Fatigue and loss of motivation.
3. **Sleep:** Insomnia, excessive sleep, or sleep disturbances.
4. **Appetite:** Loss of appetite or overeating.
5. **Concentration:** Difficulty focusing and making decisions.
6. **Withdrawal:** Avoidance of friends, activities, or excessive isolation.
7. **Academic Performance:** Poor grades, frequent absences, or tardiness.
8. **Physical Symptoms:** Headaches, muscle aches, or stomach issues.
9. **Suicidal Thoughts:** Expressions of self-harm or suicidal ideation.
10. **Substance Use:** Increased reliance on alcohol or drugs as a coping mechanism (Clark, 2001).

4.7. The COVID-19 Pandemic and Its Impact on Anxiety, Depression, and Academic Performance

The COVID-19 pandemic has significantly impacted global mental health, with a marked increase in anxiety and depression. According to the World Health Organisation

(WHO), the prevalence of these disorders increased by approximately 25% in the first year of the pandemic. This surge in mental health challenges has had profound consequences on various populations, particularly students, who faced disruptions in their education and social lives.

4.8. Impact on Mental Health

Students worldwide experienced an increase in anxiety and depression due to pandemic-related disruptions, including lockdowns, social isolation, and the shift to online learning (Barbosa-Camacho & Romero-Limón, 2022). The closure of schools, reduced extracurricular activities, and altered sleeping and eating habits led to heightened stress levels among students. Studies indicate that students experienced increased fear of contamination, a rise in obsessive-compulsive disorder (OCD) symptoms, and a decline in personal interactions (Giusti et al., 2021).

Additionally, financial hardships exacerbated mental health challenges for many students. Those from low-income backgrounds faced greater difficulties in affording essential resources such as food, housing, and technology for effective online learning, leading to higher anxiety and stress levels (Tus, 2021). Unemployment due to pandemic-related job losses further compounded financial stress, particularly for working students (Jiang et al., 2022).

4.9. Effects on Academic Performance

Anxiety and depression have been shown to negatively impact academic performance by impairing concentration, motivation, and cognitive function (Zeng et al., 2021). Key ways these mental health conditions affect studying include:

1. **Concentration Difficulties:** Anxiety and depression contribute to significant trouble focusing, making it difficult to absorb information during lectures or while studying (Alhamed, 2023).
2. **Negative Thought Patterns:** Students experiencing depression may struggle with feelings of hopelessness and worthlessness, while those with anxiety may excessively worry about academic performance, leading to self-doubt (Tang & He, 2023).
3. **Motivation Decline:** Mental health struggles significantly decrease students' motivation, making it harder to complete academic tasks (Freyhofer, Ziegler, & de Jong, 2021).
4. **Sleep Disturbance:** Anxiety and depression often disrupt sleep patterns, leading to fatigue that further impairs concentration and cognitive abilities (Mihăilescu, Diaconescu, & Ciobanu, 2016).
5. **Physical Symptoms:** Symptoms such as headaches, stomachaches, and muscle tension associated with anxiety further distract students from their studies (Atlam et al., 2022).
6. **Social Withdrawal:** Students experiencing depression may withdraw from social interactions, including study groups, hindering academic collaboration and support (Tang & He, 2023).
7. **Procrastination:** Anxiety and depression often lead to

procrastination, where students delay studying due to overwhelming feelings or fear of failure (Jiang et al., 2022).

8. **Increased Stress Levels:** Academic pressure combined with mental health struggles creates a vicious cycle, exacerbating symptoms of anxiety and depression (Zeng et al., 2021).

4.10. Supporting Students with Anxiety and Depression

Educators play a crucial role in supporting students with mental health challenges. Strategies to foster a supportive learning environment include:

1. **Building Positive Relationships:** Teachers should show genuine care for students' well-being, regularly check in on them, and provide positive reinforcement (Giusti et al., 2021).
2. **Creating a Supportive Classroom Environment:** Establishing clear expectations and routines can help reduce uncertainty and anxiety. Encouraging peer support and minimising stress triggers within the classroom environment are also beneficial (Freyhofer, Ziegler, & de Jong, 2021).
3. **Providing Academic Accommodations:** Offering extended deadlines, allowing breaks during class, breaking down large assignments, and providing alternative assessments can alleviate academic pressure

(Mihăilescu, Diaconescu, & Ciobanu, 2016).

4. **Integrating Stress Management Techniques:** Mindfulness exercises, deep breathing techniques, and short physical activity breaks can help students manage stress (Zeng et al., 2021).
5. **Encouraging Open Communication:** Teachers should create a safe space where students feel comfortable discussing their concerns and collaborate with parents and school counsellors for additional support (Alhamed, 2023).
6. **Identifying Early Warning Signs:** Educators should be aware of behavioural and academic changes, withdrawal, and increased anxiety and reach out to the necessary support systems when needed (Jiang et al., 2022).

5. CONCLUSION

Anxiety and depression profoundly influence students' academic performance by impairing concentration, motivation, and cognitive functioning. The cognitive models of Clark and Beck provide a framework for understanding these challenges and highlight the effectiveness of Cognitive Behavioral Therapy (CBT) as an intervention. Educators and policymakers must integrate mental health support within schools to foster resilience and improve learning outcomes. Addressing these issues at an institutional level can create a healthier academic environment for students.

DECLARATIONS

Author(s) Contribution

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Availability of Data and Materials

All data used in this study are drawn from publicly

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Competing Interests

The authors declare no conflicts of interest related to this research.

Clinical Trial Registration (if applicable)

Not Applicable

Human Ethics and Consent to Participate

The study did not involve any clinical interventions or experiments requiring formal ethical approval.

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