THE ROLE OF COGNITIVE BEHAVIORAL THERAPY IN ENHANCING ACADEMIC RESILIENCE: A SYSTEMATIC LITERATURE REVIEW

Sesilianus Fau*, M. Ramli, Nur Hidayah, Tutut Chusniyah
*Corresponding Author

Sesilianus Fau
Universitas Negeri Malang
Jl. Semarang 5 Malang, Jawa Timur
Indonesia
Email: zerafau@gmail.com

M. Ramli
Universitas Negeri Malang
Jl. Semarang 5 Malang, Jawa Timur
Indonesia
Email: m.ramli.fip@um.ac.id

Nur Hidayah
Universitas Negeri Malang
Jl. Semarang 5 Malang, Jawa Timur
Indonesia
Email: nur.hidayah.fip@um.ac.id

Tutut Chusniyah
Universitas Negeri Malang
Jl. Semarang 5 Malang, Jawa Timur
Indonesia
Email: tutut.chusniyah.fppsi@um.ac.id

ABSTRACT

Academic resilience, the ability of students to achieve success despite facing various challenges, is becoming an increasingly critical aspect of education. Factors such as socio-economic disparities, mental health issues, and academic obstacles can complicate the learning process. Therefore, students' ability to cope with pressure, meet academic demands, overcome difficulties, and adapt to challenges is essential for supporting optimal academic achievement. This systematic review investigates the role of Cognitive Behavioral Therapy (CBT) in enhancing academic resilience by strengthening self-efficacy, addressing socio-economic stressors, and mitigating mental health challenges. Following PRISMA guidelines, the review analyzes 20 peer-reviewed articles published between 2022 and 2024. Data were sourced from PubMed, Scopus, and Web of Science using relevant search terms such as "Cognitive Behavioral Therapy," "academic resilience," and "mental health." CBT has been proven effective in enhancing academic resilience by strengthening coping strategies, improving self-efficacy, and addressing socio-economic and mental health challenges. Its adaptability across diverse cultural contexts and high-pressure fields further reinforces its relevance. By equipping students with psychological skills to manage stress and recover from setbacks, CBT contributes to long-term academic success. Future study should focus on developing culturally responsive CBT programs and conducting longitudinal studies to assess its long-term impact on student success. In the context of guidance and counseling, school counselors can integrate CBT techniques into their services to help students overcome feelings of inadequacy, develop a growth mindset, and manage negative emotions that may affect their academic performance.

Keywords: cognitive behavioral therapy, academic resilience, a systematic literature review

INTRODUCTION

Academic resilience, referring to students' capacity to persist and achieve success despite various challenges, has become an increasingly prominent focus in educational study. In modern educational contexts, students encounter a range of challenges, pressures, demands, and academic difficulties, including socio-economic disparities, mental health issues, and other academic disruptions. These challenges underscore the need for effective interventions to strengthen academic resilience and support optimal academic achievement. Among the various strategies explored, Cognitive Behavioral Therapy (CBT) has emerged as a particularly promising approach (Hidayah et al., 2017; Kazantzis et al., 2018; Rohmah et al., 2023; Thase et al., 2014; Toosang et al., 2021). CBT focuses on altering negative thought patterns and behaviors, providing students with tools to manage stress, enhance self-efficacy, and develop coping mechanisms that support academic resilience (Castelnuovo et al., 2017; Hayes et al., 2011; Vujanovic et al., 2017). The application of CBT in educational settings not only promotes academic success but also addresses students' well-being by equipping them with psychological tools to overcome personal and academic challenges.

CBT's effectiveness in enhancing mental health is well documented and closely linked to academic resilience (Akeman et al., 2020; Anjomshoaa et al., 2020; Dray et al., 2017; Stallard et al., 2005). Mental health issues such as anxiety and depression significantly impact a student's ability to cope with academic stress and perform well. According to the World Health Organization, the prevalence of mental health problems among students has risen substantially, particularly during the pandemic, negatively affecting both their well-being and academic performance (Latifian et al., 2024). CBT interventions have been shown to significantly reduce anxiety and depressive symptoms, providing students with a healthier psychological foundation to face academic setbacks (Howell et al., 2019; Melnyk et al., 2022; Shen et al., 2024).

Students who receive CBT are better equipped to manage academic workloads, approach challenges with optimism, and recover more quickly from failure. By addressing underlying cognitive distortions such as catastrophic thinking or fear of failure, CBT fosters the development of a growth mindset, a key component of academic resilience.

Socio-economic disparities further complicate the development of academic resilience, especially for students from disadvantaged backgrounds. These students often face additional barriers, such as limited access to resources, financial instability, and a lack of support systems, which can undermine their academic success. Research indicates that CBT can be particularly effective for students dealing with the psychological effects of socio-economic stressors (Frisby et al., 2024; Hamdan-Mansour et al., 2009; Kavanagh et al., 2009). CBT helps students build resilience by fostering self-efficacy—the belief in one's ability to succeed despite challenges. Through targeted interventions, students learn to reframe negative thoughts related to their socio-economic situation, adopt positive coping strategies, and cultivate behaviors that enhance their academic perseverance. Self-efficacy is a crucial predictor of academic resilience, enabling students to persist through challenges despite external disadvantages (Ayala & Manzano, 2018; Kang et al., 2024; Shen et al., 2024).

Furthermore, CBT's adaptability across different cultural contexts enhances its success as a resilience-building intervention. Students from various cultural backgrounds may experience academic stress differently, and resilience can manifest in diverse ways depending on cultural norms and values. Study by Mahama et al. (2024), shows that CBT can be tailored to respect cultural differences while still delivering effective resilience-building outcomes. In collectivist cultures, where academic success is often tied to family and community expectations, CBT can help students navigate the pressures of these external expectations while

maintaining a sense of personal agency (Joyce-Beaulieu & Sulkowski, 2019; Leahy, 2006). By integrating culturally relevant examples and modifying interventions to align with cultural values, CBT supports academic resilience across diverse student populations, ensuring that interventions resonate with students' specific challenges and expectations.

The long-term benefits of CBT in fostering academic resilience should not be overlooked. While short-term interventions can improve coping mechanisms and reduce immediate stress, the lasting impact of CBT is seen in students' sustained ability to face academic challenges over time (Bellini, 2017). Studies have shown that students who receive CBT continue to improve their ability to manage stress, approach academic tasks with confidence, and maintain high levels of academic performance even in the face of adversity (He & Antshel, 2017; Idowu et al., 2017; Steel et al., 2024). This long-term resilience is crucial for student success, particularly in higher education, where academic demands and stress levels are significantly higher. By equipping students with lifelong skills to manage thoughts, behaviors, and emotions, CBT ensures that students not only survive academic challenges but thrive.

In conclusion, Cognitive Behavioral Therapy (CBT) has been proven to be an effective intervention for enhancing academic resilience by strengthening coping strategies, improving self-efficacy, and addressing socio-economic and mental health challenges. Its flexibility and adaptability across diverse cultural contexts and high-pressure environments further reinforce its relevance as an approach that helps students navigate academic difficulties. By equipping students with psychological skills to manage stress and recover from setbacks, CBT contributes to long-term academic success. The integration of CBT into school guidance and counseling services enables counselors to assist students in overcoming feelings of inadequacy, developing a growth mindset, and managing negative emotions that may hinder their academic performance. Given its broad benefits, future study should focus on developing culturally responsive CBT programs and conducting longitudinal studies to assess its long-term impact on academic resilience and student success across various educational settings.

METHODOLOGY

This systematic review was conducted in accordance with PRISMA guidelines to ensure methodological rigor, transparency, and comprehensiveness. A systematic search was performed across major academic databases, including PubMed, Scopus, and Web of Science, to identify peer-reviewed articles published between 2022 and 2024. The search strategy utilized a combination of key terms, including "Cognitive Behavioral Therapy," "academic resilience," "self-efficacy," "mental health," and "student performance."

The inclusion criteria were limited to empirical studies that specifically evaluated the effectiveness of CBT interventions in fostering academic resilience. Studies that focused on other psychological interventions without incorporating CBT were excluded. Following an initial screening process, 20 articles met the eligibility criteria and were selected for full review. Each study was systematically analyzed based on its research design, population characteristics, and measured outcomes to assess the role of CBT in enhancing academic resilience.

To ensure the inclusion of high-quality research, a quality assessment was conducted using the Critical Appraisal Skills Programme (CASP), which evaluates the methodological robustness and validity of studies. Only studies meeting the predetermined quality standards were considered for this review.

The article selection process is depicted in the PRISMA diagram, illustrating each phase of identification, screening, eligibility assessment, and final inclusion, thereby ensuring a transparent and replicable methodology.
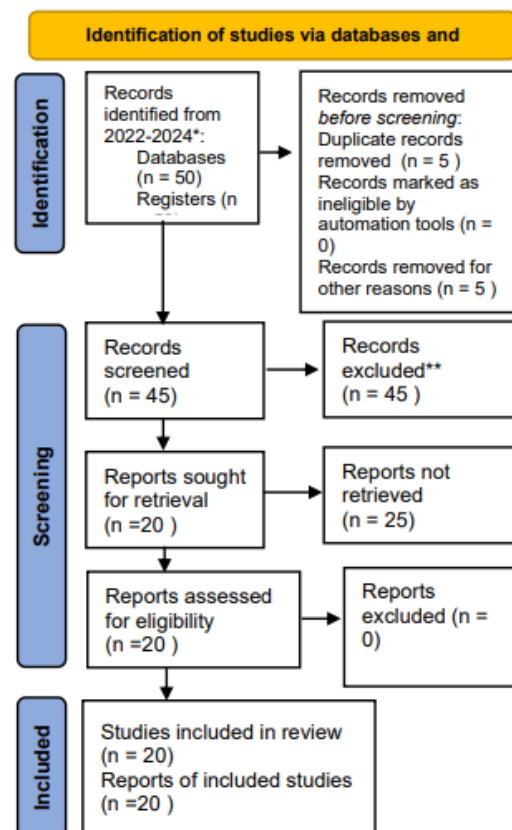
Figure 1.
Articles Study

To ensure a rigorous and comprehensive synthesis of findings, this study employed multiple data analysis techniques, including thematic analysis, meta-analysis, quality assessment, and narrative synthesis. Thematic analysis, following Braun & Clarke (2006), framework, was utilized to identify recurring patterns in qualitative studies, categorizing findings into key themes such as self-efficacy, mental health, socio-economic factors, and cultural adaptation. For quantitative studies, a meta-analysis was conducted to determine the overall effect size of CBT on academic resilience using standardized measures such as Cohen's d and Hedges' g, with a forest plot generated to illustrate effect size distributions. The methodological quality of each study was evaluated using the Critical Appraisal Skills Programme (CASP) checklist, where studies scoring above 75% were classified as high quality and given greater analytical weight. Furthermore, narrative synthesis was employed for mixed-methods and non-meta-

analyzable data, facilitating a holistic interpretation of how CBT interventions contribute to academic resilience across diverse educational and cultural contexts.

RESULT AND DISCUSSION
Summary of Research Findings

The data analyzed in this study were obtained from 20 selected articles, as summarized in Table 1. A concise overview of the research findings is provided in the following section.

Table 1.
Articles Study

Author(s)	Findings
Shen, Y., Feng, H., Li, X	Nursing students' academic resilience includes attributes such as self-efficacy, self-regulation, and recovery. These lead to adaptability, career maturity, and reduced psychological distress.
Ye, W., Teig, N., Blömeke, S.	School-level and individual characteristics are the most commonly studied protective factors for academic resilience in children and adolescents.
Shengyao, Y., Salarzadeh, Jenatabadi,	Parenting style impacts academic resilience by enhancing self-efficacy and academic motivation in adolescents.
Chen, D.L., Ertac, S., Evgeniou, T., Nadaf, A., Yilmaz, E	Grit, especially measured through behavior on digital platforms, predicts lower academic decline during COVID-19.
Steel, A., Karunaratne, N., Exintaris, B., Dai, D.W., Lim, A	Mature learners demonstrate more effective resilience strategies compared to undergraduates, which correlates with better academic performance
Frisby, B.N., Sidelinger, R.J., Lawrence, A., Ribott, M.,	Peer network quality, especially strong peer connections, significantly improves academic resilience, while loneliness reduces it.
Choi, Y., Sung, J	Meta-cognition, joy of reading, and self- concept of reading predict academic resilience in students from Korea and the US, showing cultural variation."
Ross, P.M., Scanes, E., Locke, W.,	Academic resilience among educators is crucial for adapting to stress and maintaining educational quality, especially during crises like the COVID-19 pandemic.

Author(s)	Findings
Siebecke, D.E.	Teacher support boosts academic resilience in disadvantaged students, while exposure to bullying undermines their academic success.
Erdemir, N., Karanfil, F., Şengül, R.	Mindfulness-based interventions improve vocational students' resilience, but external disruptions in classrooms hinder mindfulness effectiveness.
Elnaem, M.H., Wan Salam, W.N.A.A., Thabit, A.K., Okuyan, B., Elcioglu, H.K.,	Exercise routines and participation in extracurricular activities correlate with higher academic resilience in pharmacy students across 12 countries.
Tan, W.-Y., Chen, J.-N., Lu, S.-H., Miao, C.-Y., Smith, G.D.,	Nursing students can be categorized into low, moderate, and high academic resilience groups, with GPA and self-efficacy being key factors.
Zheng, J.-Q., Cheung, K.- C., Sit, P.-S	Protective factors for academic resilience in East Asian contexts include individual traits and school environment, as highlighted in large-scale assessments.
Mahama, I., Amoako, I., Nandzo, A., Eshun, P	Mindfulness, self-regulated learning, and school engagement are strong predictors of academic resilience in high school students from Ghana.
Cheung, K.- C., Sit, P.-S., Zheng, J.-Q., Mak, S.-K., Ieong, M.-K	Resilient students during COVID-19 tend to exhibit emotional stability, high self-efficacy, and positive future aspirations, identified using machine learning.
Freiberg-Hoffmann, A., Romero-Medina, A., Vigh, C., Sánchez-Rosas, J., FernÁndez-Liporace, M	A short version of the Academic Resilience Scale (ARS) effectively measures academic resilience in undergraduates with high reliability.
Toosang, M.A., Pasha, R., Safarzadeh, S	CBT training significantly boosts student resilience and psychological hardiness, particularly under the challenges of the COVID-19 pandemic.
Kahveci, G., Serin, N.B.	Cognitive-behavior therapy and schema- based instruction in collaboration with parents help increasestudents' mathematical resilience.

Author(s)	Findings
Nugraha, M.F., Loscalzo, Y	Studyholism negatively impacts academic resilience, whereas study engagement enhances resilience in Indonesian college students.

This systematic literature review highlights the effectiveness of Cognitive Behavioral Therapy (CBT) in fostering academic resilience across different educational contexts. Based on the analysis of 20 peer-reviewed articles from 2022 to 2024, several key findings have emerged.

First, CBT and Self-Efficacy: CBT interventions have shown a significant positive impact on improving self-efficacy, which is a core element of academic resilience. Students who received CBT reported higher confidence in their ability to handle academic challenges and demonstrated improved performance (Shen et al., 2024). Yarosh, confirmed that CBT plays a critical role in shifting students' mental frameworks from self-doubt to a growth mindset, allowing them to view academic challenges as opportunities for growth rather than threats (Yarosh, 2024).

Second, Socio-Economic and Environmental Influences on Resilience: CBT has been particularly effective in mitigating the socio-economic challenges that often impede academic success. Students from low socio-economic backgrounds, who typically face external stressors like financial instability, benefited from CBT interventions aimed at enhancing emotional regulation and coping strategies. CBT helped these students reframe negative thoughts and focus on improved academic perseverance (Choi & Sung, 2024; Ojo et al., 2023).

Third, Mental Health and Internet Addiction: The link between mental health and academic resilience is well established in the studies reviewed. CBT's efficacy in reducing anxiety, depression, and internet addiction has proven beneficial for students struggling with these mental health issues. LaBelle (2019), Latifian et al. (2024), and Melnyk et al. (2022), demonstrated that CBT not only helps students manage their mental health but also

enhances their academic resilience by promoting healthier habits and thought patterns.

Fourth Cultural Context and CBT Adaptability: One of the most significant findings of the review is CBT's adaptability across cultural contexts. Studies like Mahama et al. (2024), show that CBT can be tailored to meet the cultural needs of students in both collectivist and individualist societies. In collectivist societies, the focus of CBT on social relationships and family dynamics was found to be particularly effective, while in individualist cultures, the emphasis on personal agency and self-regulation proved beneficial.

Fifth, CBT in Healthcare Education: Healthcare students, who often face high levels of stress due to academic and clinical demands, showed substantial benefits from CBT interventions. Studies by Madigan et al. (2024), Steel et al. (2024), Tan et al. (2024), and Ulaş & Seçer (2022), indicated that CBT helped reduce burnout, enhance emotional resilience, and improve overall academic performance. By providing healthcare students with practical tools for stress management, CBT improved their ability to balance academic and clinical responsibilities effectively.

The findings from this systematic literature review underscore the pivotal role that Cognitive Behavioral Therapy (CBT) plays in enhancing academic resilience. The consistent improvements in self-efficacy, mental health, and coping strategies across various studies confirm the effectiveness of CBT as a psychological intervention in educational settings (Elemo & Türküm, 2019; Sahranavard et al., 2019; Zeidi et al., 2020). One of the key aspects of CBT's impact is its ability to foster self-efficacy, which is crucial for long-term resilience. CBT not only helps students manage immediate academic challenges but also cultivates a growth mindset, where they view obstacles as opportunities for development rather than threats. This is in line with Burnette et al. (2020) and Shen et al. (2024), who highlighted the role of CBT in promoting a growth mindset, enabling students to adopt a proactive

approach to academic adversity and improve their performance over time.

Moreover, this review emphasizes the socio-economic barriers that students from disadvantaged backgrounds often face and the potential of CBT to mitigate these challenges. Socio-economic disparities, such as financial instability or lack of resources, often lead to stress that hinders academic performance. However, CBT has proven effective in equipping these students with emotional regulation techniques and adaptive coping strategies. By reframing negative thought patterns and focusing on areas within their control, students from low socio-economic backgrounds can build perseverance and resilience (Frisby et al., 2024). This is particularly significant in addressing educational inequalities, as CBT helps level the playing field by empowering disadvantaged students to navigate external stressors more effectively.

The intersection of mental health and academic resilience is another critical area highlighted in this review. The rising prevalence of anxiety, depression, and internet addiction among students presents a significant challenge to academic success. CBT's efficacy in addressing these mental health issues is well-established, and its role in enhancing academic resilience is equally important. Latifian et al. (2024), demonstrated that CBT interventions aimed at reducing anxiety and depression also foster resilience by promoting healthier emotional responses and more adaptive thought patterns. By improving emotional stability, CBT enables students to maintain focus on their academic goals and recover from setbacks more effectively (Padesky & Mooney, 2012).

CBT's adaptability across different cultural contexts further strengthens its value as an intervention for academic resilience. Different cultures have distinct approaches to coping with stress, and CBT's flexibility allows it to be tailored to meet these cultural needs. For example, in collectivist cultures where academic success is closely tied to family honor and societal expectations, CBT interventions that emphasize relational aspects and social support networks have

proven to be more effective. Conversely, in individualist cultures, CBT's focus on personal agency and self-regulation has been beneficial. Mahama et al. (2024), stress the importance of culturally sensitive interventions, showing that adapting CBT to align with cultural norms and values enhances its relevance and efficacy.

In the realm of healthcare education, where students face exceptionally high levels of academic and clinical stress, CBT has demonstrated significant benefits. Healthcare students, particularly those in nursing, medicine, and pharmacy, often encounter emotionally taxing clinical experiences alongside demanding coursework. Studies by Steel et al. (2024) and Tan et al. (2024), revealed that CBT interventions help reduce burnout and improve emotional resilience, which are critical for maintaining academic performance and professional competence in the long run. By equipping healthcare students with practical stress management tools, CBT enhances their ability to balance academic responsibilities with clinical demands, thereby supporting both their immediate academic success and long-term well-being.

In conclusion, the reviewed studies demonstrate that Cognitive Behavioral Therapy (CBT) has a significant impact on academic resilience. CBT plays a role in enhancing self-efficacy, addressing socio-economic challenges, improving mental health, and adapting to cultural factors, thereby equipping students with essential psychological skills to overcome academic difficulties.

High self-efficacy enables students to persist in facing academic challenges, enhances their confidence in completing tasks, and fosters a growth mindset that supports academic resilience (Liu et al., 2024; Shengyao et al., 2024; Tan et al., 2024). Furthermore, socio-economic factors influence academic resilience; however, strategies such as strengthening emotional regulation and implementing CBT interventions can assist students from disadvantaged backgrounds in achieving academic success (Choi & Sung, 2024; Martin et al., 2022). Moreover, good mental health contributes to higher academic resilience. CBT interventions can help students reduce academic anxiety, develop a positive mindset, and enhance their ability to withstand academic challenges (Latifian et al., 2024). Cultural factors also play a crucial role in academic resilience, where social support is more dominant in collectivist cultures, while self-regulation and autonomy are more emphasized in individualist cultures (Choi & Sung, 2024). Therefore, culturally adapted CBT interventions can enhance their effectiveness in fostering academic resilience among students in various educational settings.

As educational institutions increasingly recognize the importance of academic resilience for student success, integrating CBT into educational systems presents a promising solution. Future study should explore the long-term effects of CBT and focus on refining interventions to meet the diverse needs of students across various educational contexts. Additionally, further longitudinal studies are needed to assess how adapting CBT to different cultural environments can enhance its effectiveness in strengthening academic resilience and promoting students' mental well-being.

CONCLUSION

This study highlights the effectiveness of Cognitive Behavioral Therapy (CBT) in fostering academic resilience by enhancing self-efficacy, mitigating socio-economic challenges, supporting mental health, and adapting to cultural contexts. The findings indicate that CBT equips students with essential psychological tools to manage stress, develop coping strategies, and sustain long-term resilience, thereby contributing to academic success. However, several limitations should be acknowledged, including the heterogeneity of the reviewed studies, variations in CBT implementation, and the lack of standardized intervention protocols. Additionally, the predominance of short-term evaluations limits the ability to assess the

long-term impact of CBT on academic resilience, while cultural variations in CBT adaptation require further exploration. Furthermore, potential publication bias may affect the findings, as studies reporting positive outcomes are more likely to be published than those with neutral or negative results.

To overcome these limitations, future study should prioritize longitudinal studies to evaluate the sustained effects of CBT interventions over extended periods. Cross-cultural comparative studies are necessary to investigate how cultural values influence the effectiveness of CBT, particularly in collectivist and individualist societies. Standardizing CBT intervention protocols will enhance consistency in implementation and facilitate reliable comparisons across studies. Furthermore, integrating CBT-based resilience programs into formal educational settings can improve accessibility, particularly for students from disadvantaged socio-economic backgrounds who may benefit most from structured psychological support. Addressing these research gaps will contribute to a more comprehensive understanding of CBT as a resilience-building intervention, ultimately promoting student well-being and academic achievement across diverse educational contexts.

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