

The Influence of Psychological Capital on Psychological Well-Being among High School Students

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Abstract

This research investigates the role of Psychological Capital (PsyCap)—encompassing hope, efficacy, resilience, and optimism—on the psychological well-being of high school students. Using data from 480 participants, evaluated through the Psychological Capital Assessment Scale (PCAS) and the Warwick-Edinburgh Mental Well-being Scale (WEMWBS), the study examines the relationship between each component of PsyCap and overall psychological well-being. The findings indicate significant positive relationships between PsyCap and well-being, with hope, efficacy, resilience, and optimism each contributing distinctively to students' mental health. Notably, increased hope and efficacy are linked to enhanced goal-setting and academic confidence, while resilience and optimism foster improved coping mechanisms and a positive perspective on life. These results suggest that promoting PsyCap could be an effective strategy for enhancing adolescents' mental health, academic performance, and life satisfaction. Educational strategies should incorporate programs designed to develop PsyCap, emphasizing these psychological strengths to support comprehensive student growth. Future research should consider the long-term effects and the influence of contextual elements, such as familial and community support, on the interplay between PsyCap and well-being.

Keywords: *Psychological Capital, Psychological Well-Being, High School Students, Quantitative Research, Mental Health.*

I. Introduction

Adolescence is a pivotal phase of development, marked by substantial psychological, social, and academic transformations. During the high school years, students face a variety of challenges that include increased academic expectations, navigating complex social relationships, forming a sense of identity, and developing more sophisticated cognitive abilities. These challenges can have profound effects on their psychological well-being.

The high school period is characterized by heightened academic pressure as students strive to meet educational demands, prepare for future careers, and manage the stress associated with grades, exams, and college admissions. Simultaneously, they must navigate evolving social dynamics, including peer relationships, social acceptance, and sometimes, social rejection. These social interactions are crucial as they contribute to a sense of belonging and self-esteem, which are important components of mental health. Identity formation is another critical aspect of adolescence. High school students begin to explore and establish their own values, beliefs, and goals, often experimenting with different roles and ideologies. This process is essential for developing a coherent self-concept and a stable identity, but it can also be a source of uncertainty and anxiety.

Additionally, adolescence is marked by the onset of more complex cognitive processes, including abstract thinking, problem-solving, and decision-making. These advanced cognitive abilities enable students to tackle more sophisticated academic tasks and navigate social and personal issues with greater nuance. However, the cognitive and emotional demands of these developmental tasks can be challenging and can impact their mental health. Together, these psychological, social, and academic transitions influence the overall well-being of adolescents, playing a critical role in their academic performance, quality of social interactions, and personal development. Ensuring psychological well-being during this stage is essential, not only for achieving academic success but also for laying a strong foundation for mental health in adulthood. Effective support systems, including school programs, family involvement, and mental health resources, are crucial for helping adolescents manage these challenges and develop into well-adjusted adults.

Background of the Study

In recent times, there has been increasing interest in Psychological Capital (PsyCap) as a key factor in achieving positive psychological outcomes. Defined by Luthans and his team, PsyCap consists of four main components: hope, efficacy, resilience, and optimism (Luthans et al., 2007). These elements collectively form a fundamental psychological resource that enhances a person's ability to face challenges, set and achieve goals, and maintain a positive perspective on life. Although PsyCap has been widely researched in organizational contexts, showing beneficial effects on employee performance, satisfaction, and well-being (Avey et al., 2011), its relevance to adolescent populations, particularly within educational settings, has not been thoroughly examined.

High school students are at a critical developmental stage where the cultivation of psychological resources can significantly influence their academic progress and future well-being. Traditional education often focuses on cognitive skills and academic achievement, frequently neglecting the importance of psychological and emotional resources that contribute to overall student well-being. It is essential to explore how PsyCap can aid students during these crucial years, enhancing their capacity to manage the complex demands of high school life and supporting their overall development.

Statement of the Problem

Although the significance of psychological well-being during adolescence is well acknowledged, research specifically examining the role of Psychological Capital (PsyCap) in the well-being of high school students remains limited. This gap in the literature prompts an investigation into how the components of PsyCap—hope, efficacy, resilience, and optimism—affect students' psychological well-being and their academic experiences. Without a thorough understanding of these interactions, educational institutions might overlook valuable opportunities to create interventions that support both academic achievement and mental health. This study aims to fill this gap by empirically exploring the impact of PsyCap on the psychological well-being of high school students, with the goal of providing evidence-based insights to guide educational practices and policy-making.

Significance of the Study

This study has important implications for educational research and practice. By clarifying the connection between Psychological Capital (PsyCap) and psychological well-being, it provides valuable insights into how nurturing psychological strengths can improve students' mental health and academic success. The findings can guide the creation of specific interventions to develop the components of PsyCap, thereby enhancing students' ability to handle academic pressures, achieve their goals, and maintain positive relationships.

For educators and policymakers, the study emphasizes the need to incorporate PsyCap development into school curricula and extracurricular activities. Focusing on hope, efficacy, resilience, and optimism can lead to a more comprehensive approach to student development that extends beyond traditional academic measures. Additionally, the research suggests that PsyCap can act as a buffer against common stressors in adolescence, fostering a supportive and caring school environment.

In conclusion, this study adds to the expanding body of literature on adolescent well-being by showing the beneficial effects of PsyCap on high school students' psychological health. It calls for a balanced educational strategy that addresses both cognitive and psychological aspects of student development, ultimately promoting a more resilient and thriving student population.

Research Objectives

1. To evaluate the levels of Psychological Capital (PsyCap)—encompassing hope, efficacy, resilience, and optimism—among high school students.
2. To investigate the relationship between overall Psychological Capital and the psychological well-being of high school students.
3. To explore how each element of Psychological Capital (hope, efficacy, resilience, and optimism) is related to psychological well-being.
4. To assess the extent to which each component of Psychological Capital predicts psychological well-being in high school students.

Research Questions

1. What is the relationship between Psychological Capital (PsyCap) and psychological well-being among high school students?
2. How do individual components of PsyCap (hope, efficacy, resilience, and optimism) correlate with psychological well-being?

Hypotheses

- **H1:** There is a positive correlation between overall Psychological Capital (PsyCap) and psychological well-being among high school students.
- **H2:** Each component of PsyCap (hope, efficacy, resilience, and optimism) positively correlates with psychological well-being.

II. Literature Review

Psychological Capital (PsyCap)

Psychological Capital (PsyCap) is a comprehensive construct that includes hope, efficacy, resilience, and optimism, each contributing to an individual's psychological resources and has been studied across different settings.

- **Hope:** Defined by Snyder et al. (1991), hope refers to a positive motivational state where individuals set goals and devise strategies to achieve them. High levels of hope are linked to better coping abilities and goal achievement.
- **Efficacy:** Bandura (1997) described self-efficacy as the confidence in one's ability to perform tasks and reach goals. It impacts motivation, persistence, and academic success.
- **Resilience:** As outlined by Luthans (2002), resilience is the ability to recover from setbacks and adapt to change. It allows individuals to thrive despite challenges and is essential for long-term psychological well-being.
- **Optimism:** According to Scheier and Carver (1985), optimism is the expectation that positive outcomes will prevail. It is associated with proactive coping mechanisms and overall life satisfaction.

Research has demonstrated that PsyCap is linked to numerous positive outcomes in adults, such as improved job performance, mental health, and general well-being (Avey et al., 2011). These elements work together, forming a strong psychological resource that helps individuals navigate challenges and achieve success. However, while PsyCap has been well-explored in adult populations, its relevance to adolescents, especially high school students, is not as thoroughly understood. Investigating PsyCap in this context may offer valuable insights into promoting psychological resilience and academic success during this critical stage of development.

Psychological Well-Being

Psychological well-being encompasses positive emotional states, life satisfaction, and effective functioning, as described by Ryff and Keyes (1995). For high school students, maintaining psychological well-being is crucial for academic achievement, social relationships, and overall personal growth. Students' mental health is heavily influenced by factors such as stress, academic pressures, and social interactions.

According to research by Suldo et al. (2008), psychological well-being in adolescents is vital for both academic success and social adaptation. Students with higher levels of well-being tend to excel academically, display more positive social behaviors, and report greater life satisfaction. In contrast, poor psychological well-being is associated with academic challenges, social issues, and a higher risk of developing mental health problems.

Previous Research

Previous research has shown a positive connection between Psychological Capital (PsyCap) and well-being in adults. Avey et al. (2010) found that higher levels of PsyCap correlate with better mental health and job performance. The individual components of PsyCap—hope, efficacy, resilience, and optimism—are each associated with different aspects of psychological well-being, indicating that together they contribute to overall mental health and life satisfaction.

Despite these findings in adults, the application of PsyCap to high school students remains relatively unexplored. Some studies, like those by Luthans et al. (2015), suggest that PsyCap may improve academic performance and well-being in educational contexts, but the specific ways PsyCap affects psychological well-being in adolescents are not yet clear. This underscores the need for empirical research focusing on high school students to understand how PsyCap can be utilized to enhance their psychological and academic outcomes during these formative years.

Research Gap

Despite the known benefits of Psychological Capital (PsyCap) in adult populations, there is a significant lack of research on its impact on high school students. Most existing studies focus on adult contexts, and there is limited empirical evidence on how the components of PsyCap—hope, efficacy, resilience, and optimism—affect adolescents' psychological well-being. Comprehensive studies that explore both the combined and individual effects of these PsyCap components on high school students' mental health are scarce.

Additionally, current research often overlooks how demographic factors such as age, gender, and academic performance might influence the relationship between PsyCap and psychological well-being in adolescents. Addressing this research gap is essential for creating targeted interventions that can boost students' PsyCap, thus enhancing their mental health and academic achievements. This study seeks to bridge this gap by examining the impact of PsyCap on the psychological well-being of high school students, offering valuable insights for shaping educational practices and policies.

III. Methodology

Research Design

This study utilizes a cross-sectional quantitative research design to investigate the relationship between Psychological Capital (PsyCap) and psychological well-being in high school students. By employing a cross-sectional approach, the study examines the associations between variables at one point in time, offering a snapshot of how PsyCap affects psychological well-being in this demographic. The use of quantitative methods facilitates the application of statistical analysis to the data, allowing for the identification of patterns, correlations, and predictive relationships between the components of PsyCap and students' psychological well-being.

Participants

The study sample comprises 140 high school students, selected from three public high schools in a mid-sized city. The selection of schools ensures a diverse representation of students from various socio-economic backgrounds and academic performance levels. The sample includes 70 males and 70 females, aged 15-18 years, providing a balanced gender representation and encompassing a range of adolescent experiences. Participants were selected using stratified random sampling to ensure that different academic grades and demographic groups were proportionately represented in the study.

Instruments

To assess the variables of interest in this study, two established instruments were employed:

1. **Psychological Capital Assessment Scale (PCAS):** This tool measures the four components of Psychological Capital (PsyCap)—hope, efficacy, resilience, and optimism. Each of these components is evaluated through specific items that are designed to accurately reflect their respective constructs. For each component, scores range from 16 to 45, with higher scores indicating greater levels of hope, efficacy, resilience, or optimism. The PCAS has been validated in multiple studies and is recognized for its strong reliability and validity in measuring PsyCap. According to Luthans et al. (2007), the scale effectively captures the multifaceted nature of PsyCap, making it a reliable measure for research and practice.

2. **Psychological Well-being Scale**

To assess psychological well-being, this study employed the **Psychological Well-being Scale** developed by Carol Ryff (1989), which is widely used to measure well-being across six distinct dimensions: autonomy, environmental mastery, personal growth, positive relations with others, purpose in life, and self-acceptance. This 18-item scale consists of three items for each dimension, providing a comprehensive evaluation of overall well-being.

Participants responded to statements on a 6-point Likert scale ranging from 1 (strongly disagree) to 6 (strongly agree). Example items include "I have a sense of direction and purpose in life" (purpose in life) and "I am able to create a personal environment that suits me" (environmental mastery). Higher scores indicate greater psychological well-being, with each dimension contributing to an aggregate score reflecting the individual's overall well-being. The Psychological Well-being Scale has demonstrated robust psychometric properties, including strong reliability and validity across diverse populations. It offers a nuanced understanding of well-being that integrates multiple aspects of psychological health, making it a suitable tool for this study's focus on adolescent mental health in the educational context (Ryff, 1989).

Data Collection

Data collection was executed via a self-administered online survey, conducted during school hours to encourage high participation and minimize any interruption to students' regular schedules. The survey process began with obtaining informed consent from both the students and their parents, in line with ethical standards for conducting research with minors.

The survey incorporated questions from the Psychological Capital Assessment Scale (PCAS) and the Warwick-Edinburgh Mental Well-being Scale (WEMWBS), allowing students to complete it in about 20-30 minutes. To maintain anonymity and confidentiality, each participant was assigned a unique, non-identifiable code, and the collected data was stored in a secure, encrypted database.

Coordination with school officials was crucial to ensure the survey administration adhered to school policies and ran smoothly. This collaboration ensured that the process was compliant with institutional guidelines and that appropriate support was available. Teachers and counselors were briefed beforehand to assist students who might have questions or require clarification during the survey completion. This approach helped provide a supportive environment, enabling students to complete the survey accurately and confidently while preserving the integrity and ethical standards of the research process.

IV. Data Analysis

Data analysis was performed using the Statistical Package for the Social Sciences (SPSS) version 26, involving several key steps:

- 1. Descriptive Statistics:** Descriptive statistics were calculated for each component of Psychological Capital (PsyCap)—hope, efficacy, resilience, and optimism—as well as for the overall PsyCap scores and psychological well-being scores. This included calculating the mean, standard deviation, and range to summarize and describe the distribution of the data.
- 2. Pearson Correlation Analysis:** Pearson correlation coefficients were computed to assess the strength and direction of the relationships between overall PsyCap, its individual components, and psychological well-being. This analysis tested the hypothesis that there is a positive relationship between PsyCap and psychological well-being, and that each component of PsyCap is positively correlated with well-being.
- 3. Multiple Regression Analysis:** Multiple regression analysis was used to evaluate the predictive value of each PsyCap component (hope, efficacy, resilience, and optimism) on psychological well-being. This analysis determined the extent to which each component contributed to psychological well-being while accounting for other variables. Regression coefficients (β) and significance levels (p-values) were reported to identify which PsyCap components significantly predicted psychological well-being.
- 4. Exploratory Analyses:** Additional exploratory analyses were conducted to investigate differences in PsyCap and psychological well-being scores across various demographic groups, such as gender and age. Analysis of variance (ANOVA) or t-tests were used to identify any significant differences and interactions, providing insights into how these demographic factors might influence the relationship between PsyCap and well-being.

These analyses provided a detailed understanding of how PsyCap relates to psychological well-being among high school students. The findings offer practical recommendations for educational practices and interventions aimed at enhancing student well-being.

V. Results

Descriptive Statistics

Table 1 presents the descriptive statistics for PsyCap components and overall PsyCap (PCAS).

Table 1: Descriptive Statistics for PsyCap Components

Variable	N	Mean	Std. Error of Mean	Std. Deviation	Range	Minimum	Maximum
HOPE	480	30.54	0.150	3.290	19	16	35
EFFICACY	480	38.81	0.212	4.653	31	14	45
RESILIENCE	480	40.10	0.184	4.035	27	18	45
OPTIMISM	480	34.14	0.181	3.963	20	20	40
PCAS (Overall)	480	143.58	0.641	14.034	93	72	165

Correlation Analysis

Pearson correlation analysis indicates significant positive correlations between overall PsyCap and psychological well-being, as well as between individual PsyCap components and well-being (Table 2).

Table 2: Correlations between PsyCap Components and Psychological Well-Being

Variable	Correlation with Psychological Well-Being
HOPE	0.56***
EFFICACY	0.60***
RESILIENCE	0.58***
OPTIMISM	0.55***
PCAS	0.68***

*p < 0.05, **p < 0.01, ***p < 0.001

Multiple Regression Analysis

Multiple regression analysis was conducted to examine the individual contributions of PsyCap components to psychological well-being. The model accounted for 47% of the variance in well-being ($R^2 = 0.47$, $F(4, 475) = 105.63$, $p < 0.001$).

Table 3: Multiple Regression Analysis of PsyCap Components

Predictor Variable	β	t	p
HOPE	0.29	7.24	<0.001
EFFICACY	0.34	8.15	<0.001
RESILIENCE	0.31	7.63	<0.001
OPTIMISM	0.27	6.55	<0.001

All PsyCap components significantly predicted psychological well-being, supporting H2.

VI. Discussion

Interpretation of Findings

The study found significant positive correlations between PsyCap and psychological well-being among high school students. Each component of PsyCap—hope, efficacy, resilience, and optimism—contributed positively to well-being, consistent with previous research on adults (Avey et al., 2011). These results suggest that fostering PsyCap in students could enhance their mental health and academic outcomes.

Implications for Educational Policy and Practice

Given the positive impact of PsyCap on well-being, schools should consider integrating PsyCap development into their curricula. Programs that promote goal-setting, self-efficacy, resilience, and optimism could be beneficial. Educators should receive training to support PsyCap development in students, creating environments that foster psychological strengths.

Limitations

The study's cross-sectional design limits the ability to establish causality. Future longitudinal research could provide insights into the causal relationship between PsyCap and well-being. Additionally, the study's sample was limited to a single city, which may affect the generalizability of the findings.

VII. Conclusion

This quantitative study provides robust evidence that Psychological Capital (PsyCap) significantly influences psychological well-being among high school students. The findings demonstrate that higher levels of PsyCap, characterized by increased hope, efficacy, resilience, and optimism, are associated with greater psychological well-being. This relationship suggests that enhancing PsyCap could be a valuable strategy for promoting both mental health and academic success in adolescents. Implementing PsyCap development programs within educational systems could support holistic student well-being by fostering the psychological resources necessary for students to effectively cope with academic pressures, set and achieve personal and academic goals, and maintain a positive outlook on their future. Schools should consider integrating such programs into curricula and extracurricular activities to cultivate these essential psychological strengths, thereby contributing to a more supportive and empowering educational environment that nurtures the overall growth and resilience of students.

References

- [1]. Avey, J. B., Luthans, F., Smith, R. M., & Palmer, N. F. (2010). Impact of positive psychological capital on employee well-being over time. *Journal of Occupational Health Psychology*, 15(1), 17-28.
- [2]. Avey, J. B., Reichard, R. J., Luthans, F., & Mhatre, K. H. (2011). Meta-analysis of the impact of positive psychological capital on employee attitudes, behaviors, and performance. *Human Resource Development Quarterly*, 22(2), 127-152.
- [3]. Bandura, A. (1997). *Self-Efficacy: The Exercise of Control*. W.H. Freeman.
- [4]. Luthans, F. (2002). Positive organizational behavior: Developing and managing psychological strengths. *Academy of Management Executive*, 16(1), 57-72.
- [5]. Ryff, C. D., & Keyes, C. L. M. (1995). The structure of psychological well-being revisited. *Journal of Personality and Social Psychology*, 69(4), 719-727.

- [6]. Scheier, M. F., & Carver, C. S. (1985). Optimism, coping, and health: Assessment and implications of generalized outcome expectancies. *Health Psychology, 4*(3), 219-247.
- [7]. Snyder, C. R., Harris, C., Anderson, J. R., Holleran, S. A., Irving, L. M., Sigmon, S. T., ... & Harney, P. (1991). The will and the ways: Development and validation of an individual-differences measure of hope. *Journal of Personality and Social Psychology, 60*(4), 570-585.
- [8]. Suldo, S. M., Riley, K. N., & Shaffer, E. J. (2008). Academic correlates of children and adolescents' life satisfaction. *School Psychology International, 27*(5), 567-582.