

The Self-Confidence of UKM Perisai Diri Pencak Silat Athletes at UPI in Facing Competitions as Seen From Their Level Of Anxiety

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Abstract

Background: Pencak silat is a competitive martial art originating from Indonesia that relies not only on physical strength and technique but also requires intense focus and concentration. Athletes often face immense pressure, and an inability to control their emotions can lead to a decrease in their performance. **Objectives:** This study aims to empirically analyze the relationship between cognitive anxiety and somatic anxiety and self-confidence among athletes in the UKM Perisai Diri UPI, particularly those facing the "double burden" of academic and athletic demands. **Method:** This study employed a quantitative a descriptive-correlational design; data were collected using the CSAI-2R questionnaire. Given that the data distribution was not normal ($P < 0.05$), Spearman's rank correlation (r_s) was used as the primary analysis. **Result:** The results showed a very strong and significant negative correlation, including cognitive anxiety and athlete self-confidence ($r_s = -0.938$; $P < 0.01$), somatic anxiety and self-confidence ($r_s = -0.882$; $P < 0.01$). In addition, as many as 63.4% of athletes had high self-confidence, 53.3% managed to control mental anxiety. However, simultaneously, the remaining 26.7% experienced high levels of somatic anxiety (average score 26.17). **Conclusion:** The strong and significant correlation between the level of anxiety and self-confidence among UPI Perisai Diri UKM athletes indicates that the mental condition of the athletes is very sensitive to competitive stress, even though they have a high level of self-confidence.

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INTRODUCTION

Pencak silat is a competitive martial art originating in Indonesia that relies not only on physical strength and technique but also on intense focus and concentration (Widiawati et al., 2025). As a high-performance sport that serves as Indonesia's flagship on the international stage, pencak silat demands that athletes make tactical decisions within seconds during competition amid intense on-court pressure (Burhanuddin et al., 2023). Pencak silat matches have unique characteristics because they involve direct physical contact (Bella & Hikmawati, 2022). Athletes often feel anxious about failure before the match or during preparation. In these conditions, mental readiness often becomes the key differentiator between victory and defeat, where the ability to manage emotions is a determining factor for optimal performance (Domínguez-González et al., 2024).

One of the psychological variables considered a key pillar of performance is self-confidence. Self-confidence is an athlete's subjective belief in their ability to complete specific tasks during a competition (Aliberti et al., 2024). Athletes with strong self-confidence are more likely to demonstrate stable concentration and focus, high persistence, and greater efficiency in the execution of technical movements (Trpkovici et al., 2023). Conversely, low self-confidence leads to self-doubt, hindering offensive initiative and causing athletes to perform below their true potential (Hamblin & Crisp, 2022).

However, the dynamics of self-confidence are strongly influenced by the level of anxiety during a match. (Peng et al., 2025). According to the Multidimensional Anxiety Theory, competitive anxiety has two main dimensions: cognitive anxiety, which is linked to negative thought patterns, and somatic anxiety, which involves physical or physiological symptoms (Chang et al., 2025). The relationship between anxiety and self-confidence is complex and constantly changing (Huang et al., 2025). This theory suggests that uncontrolled cognitive anxiety can directly undermine an athlete's self-confidence. In contrast, excessive somatic anxiety can disrupt an athlete's motor coordination during martial arts techniques, leading to a drastic decline in performance, including stiff movements and an inability to make decisions (Kamal Ariffin et al., 2025).

This can be seen in the athletes of UKM Perisai Diri at Universitas Pendidikan Indonesia (UPI). As an organization known for being one of the most successful units, the athletes face two serious challenges: maintaining their tradition of winning while also fulfilling their obligations as students (Ridho Setiawan et al., 2022). The majority of athletes face challenges during competitions, such as negative perceptions of opponents' abilities, fear of failure, and even physical symptoms of anxiety, such as increased heart rate, muscle tension, cold sweats, and sweaty palms. These conditions result in significant difficulties in maintaining their self-confidence during competition (Barata Yuda, 2024).

Although there has been extensive research on the relationship between anxiety and self-confidence, a research gap remains. Most studies focus on professional athletes up to the national level, while research on college athletes who must balance athletic performance with academic demands remains limited. Furthermore, studies focusing on self-confidence related to cognitive and somatic aspects in contact sports, such as pencak silat, remain scarce. (Rohmah et al., 2025).

The novelty of this study lies in its in-depth analysis of the complex relationship between anxiety and self-confidence levels among college athletes practicing the martial art of pencak silat. This differs from previous studies, which generally focused on national-level athletes, professional athletes, or athletes in team sports (such as soccer and basketball). This study explores the psychological dynamics of physical contact sports (direct combat), characterized by a higher risk of injury and greater sensory pressure. Furthermore, the inclusion of the dual-load variable—balancing athletic performance and academic responsibilities in college—offers a new perspective on understanding the consistency of athletes' self-confidence amidst the demands of real-world competition.

Given the importance of this issue, this study aims to empirically examine the relationship between anxiety levels and self-confidence among all athletes in the Perisai Diri UPI student club. This study builds on the “Multidimensional Anxiety Theory” in the context of the Indonesian martial art pencak silat. The results of this research are expected to provide an evidence-based foundation for coaches in designing psychological intervention protocols for athletes, including cognitive coping strategies and somatic regulation, to mitigate the destructive effects of anxiety and maximize athletic performance during competition.

METHOD

This study employed a quantitative research method with a descriptive-correlational design to analyze the level of self-confidence among athletes from the Perisai Diri Student Club at the Indonesia University of Education (UPI), as viewed through their anxiety levels. The research subjects consisted of 30 active athletes, including 21 males and 9 females; the sample was selected from athletes preparing for the Satria Airlangga Cup championship. The technique used was total sampling to ensure that the data obtained were representative and objective, given the limited sample size ($N = 30$) (Bella & Hikmawati, 2022). The inclusion criteria for participants were as follows: (1) at least 18 years of age, (2) active athletes in the UPI Perisai Diri student club, (3) currently in the competition preparation phase, and (4) willing to participate as respondents.

The data collection instrument used the CSAI-2R (Competitive State Inventory-2 Revised) questionnaire, consisting of 17 items, each of which uses a 4-point Likert scale: (1) strongly disagree, (2) disagree, (3) agree, (4) strongly agree. This questionnaire was selected because it underwent a more rigorous confirmatory factor analysis and is more reliable than the previous questionnaire, which contained 27 items; thus, the CSAI-2R instrument demonstrates stronger psychometric characteristics. However, reliability testing must be conducted on the instrument to ensure its consistency (Putra & Guntoro, 2022).

Given differences in the number of items in the somatic dimension of the instrument, level categorization will be based on a standardized score ranging from 10 to 40. The categorization of anxiety and self-confidence levels is determined based on the score ranges presented in Table 1.

Table 1. Anxiety and Self-Confidence Levels Scores

Score Range	Category
10-17	Very Low
18-25	Low
26-33	High
34-40	Very High

Table 1 shows the categorization levels of the variables, divided into four levels, ranging from "very low" (score range 10-17) to "very high" (score range 34-40). The determination of the score ranges uses consistent intervals at each level. This standardization allows researchers to accurately map the frequency distribution of each sub-variable on the CSAI-2R instrument in accordance with internationally validated standards (Cox et al., 2003).

For the next stage, the collected data will be systematically analyzed using SPSS (Statistical Package for the Social Sciences) software, beginning with a Cronbach's Alpha reliability test to ensure the consistency of the measurement instrument ($\alpha \geq 0.70$) (Trpkovici et al., 2023). Furthermore, the data undergo a descriptive analysis stage to examine their characteristics using the mean, standard deviation, and frequency distribution. Before conducting hypothesis testing, a normality test using the Shapiro-Wilk test is performed to determine which statistical method to apply. If the test results indicate a normal distribution, ($P > 0.05$), a parametric test in the form of Pearson's Product-Moment correlation will be used; conversely, if the data show a non-normal distribution ($P < 0.05$), the non-parametric Spearman's Rank correlation test will be used.

RESULT AND DISCUSSION

Result

Before conducting the descriptive analysis, the reliability of the CSAI-2R questionnaire was first assessed. The instrument's reliability was evaluated using Cronbach's Alpha to ensure internal consistency across each dimension. A value of $\alpha \geq 0.70$ was set as the threshold for good reliability (Trpkovici et al., 2023). The results of the instrument validation are presented in Table 2.

Table 2. Cronbach's Alpha Reliability Test

Variable	number of items	Cronbach's Alpha	Description
Cognitive Anxiety	5	0.957	Very Reliable
Somatic Anxiety	7	0.931	Very Reliable
Self-Confidence	5	0.967	Very Reliable
Total Instrument	17	0.952	Very Reliable

A reliability test was conducted on the CSAI-2R instrument to assess the extent to which its items exhibit stable internal consistency. Based on statistical criteria, an instrument is considered reliable if it has a Cronbach's Alpha value of ≥ 0.70 , and is categorized as highly reliable if that value exceeds 0.90. The test results indicate that all three dimensions of the instrument exhibit very high coefficient values. The Cognitive Anxiety dimension achieved an α value of 0.957, Somatic Anxiety at $\alpha = 0.931$, and α Self-Confidence at 0.967. Cumulatively, the entire instrument, consisting of 17 items, has an average alpha coefficient of 0.952. These results confirm that the CSAI-2R instrument demonstrates excellent reliability, as demonstrated by the testing conducted by Cox et al. (2003). It is highly suitable for collecting research data from pencak silat athletes of the Perisai Diri UPI student club as they prepare for competitions.

Descriptive Analysis

Data analysis was conducted on 30 athletes from the UPI Perisai Diri student club (21 male and 9 female) who were in the preparation phase for the 2026 Satria Airlangga Cup. Data were collected using the CSAI-2R, which had been standardized (10–40). The table below presents an overview of the athletes' anxiety levels (cognitive and somatic) and self-confidence:

Table 3. Mean, Standard Deviation, Min, Max

Variable	Mean	SD	Min	Max	Category
CA	24.13	11.362	10	40	Low
SA	26.17	7.442	14	37	High

SC	27.60	11.391	10	40	High
Average Cumulative	25.97	-	-	-	moderate

CA: Cognitive Anxiety, SA: Somatic Anxiety, SC: Self-confidence

Based on the data analysis results presented in Table 3, a multidimensional picture of the mental state of the athletes from the UKM Perisai Diri before the competition was revealed. In general, the athletes' self-confidence levels fell into the high category, with an average score of 27.60. This indicates that the study participants have strong confidence in their technical abilities and physical preparation for the upcoming competition.

The analysis of anxiety dimensions revealed contrasting findings between psychological and physical aspects. The level of cognitive anxiety experienced by the athletes fell into the low category, as evidenced by a mean score of 24.13, suggesting that they were able to manage negative thinking and fear of failure. In contrast, the athletes' somatic anxiety levels fell into the high category, with an average of 26.17. This indicates that although all athletes were mentally prepared, their bodies exhibited strong physiological responses to stress, including increased heart rate, muscle tension, sweaty palms, and other physical symptoms.

Nevertheless, it is important to note that while high self-confidence scores, coupled with high levels of somatic anxiety, are common in contact martial arts—which trigger an increase in adrenaline—this is balanced by self-confidence to prevent it from interfering with performance. Based on the athletes' cumulative psychological conditions, the average score was 25.97. This figure indicates that the athletes' conditions fall between the “Low” and “High” categories; thus, it can be concluded that the athletes' mental readiness is at a medium level.

The high standard deviation in the Cognitive Anxiety (11.362) and Self-Confidence (11.391) variables compared to Somatic Anxiety (7.442) indicates that athletes' mental perceptions of the competition are far more varied (heterogeneous) compared to their physical responses, which tend to be more uniform (homogeneous) when facing competitive stress.

Frequency Distribution of Anxiety Levels and Self-Confidence

To provide a more in-depth understanding of athletes' psychological states, scores in the UKM UPI Perisai Diri were categorized according to the CSAI-2R (Cox et al., 2003) criteria. The frequency distributions and percentages for the variables of cognitive anxiety, somatic anxiety, and self-confidence are presented in the following figure:

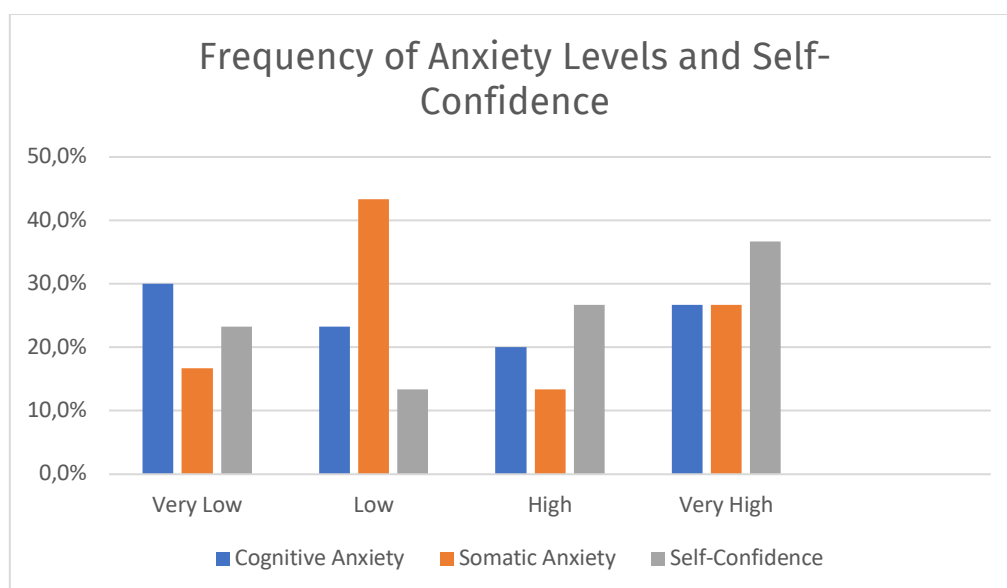


Figure 1. Frequency Distribution Graph of Anxiety Levels and Self-Confidence

Based on the results shown in the bar chart in Figure 1, it can be concluded that cognitive anxiety had the highest percentage in the “very low” category at 30.0% and the second-highest in the “low” category at 23.3%. Cumulatively, more than half of the athletes (53.3%) had manageable levels of mental anxiety. This indicates that psychologically, the majority of athletes are not dominated by negative thoughts or fear of failure ahead of the Satria Airlangga Cup 2026. However, 26.7% of athletes fall into the very high category, requiring special attention due to the potential for impaired concentration during competition.

Second, regarding the dimension of somatic anxiety levels, the cumulative average of athletes' somatic anxiety variables was in the high category (26.17) and the frequency distribution showed a heterogeneous profile so that as many as 43.3% of athletes were able to control and neutralize the physiological symptoms caused by their somatic anxiety. However, there was also a significant group that experienced very high physiological symptoms of anxiety, with a percentage of 26.7% of athletes. This high average score was driven by the group of athletes with extreme scores, indicating that some athletes still react to the stress of competition with a much more intense physical response than their peers.

Third, the self-confidence variable showed a positive profile, with data concentrated in the “very high.” (36.7%) and “high” (26.7%) categories. Cumulatively, 63.4% of the athletes demonstrated strong self-confidence. High self-confidence is a crucial asset for athletes in the UPI Perisai Diri student club, as it can function as a protective factor (buffer) that mitigates the negative impact of both cognitive and somatic anxiety on competition performance.

Normality Test

Table 4. Normality Test

Variable	Shapiro-Wilk	Sig. (p-value)	Description
Cognitive Anxiety	0.877	0.02	Non Normal
Somatic Anxiety	0.852	0.01	Non Normal
Self-confidence	0.859	0.01	Non Normal

Before conducting the hypothesis test, the analysis assumptions were tested to ensure the data were suitable for parametric statistical analysis, specifically a Shapiro-Wilk normality test on the 30 study subjects. Table 4 shows the results of the Shapiro-Wilk normality test, indicating that all three variables have p -values < 0.0001 . Therefore, the data are deemed not to be normally distributed (non-normal). Consequently, the hypothesis testing originally planned to use Pearson's product-moment correlation was switched to Spearman's rank correlation, a nonparametric statistic. The use of Spearman remains relevant for measuring the strength and direction of the relationship between variables without requiring normality.

Spearman's Rank correlation test

Table 5. Spearman Rank Correlation Test ($N = 30$)

	Correlation Coefficient	Sig. (2- tailed)	Description
CA $\rightarrow$ SC	-0.938 **	0.000	Significant (very strong)
SA $\rightarrow$ SC	-0.882 **	0.000	Significant (very strong)

CA: Cognitive Anxiety, SA: Somatic Anxiety, SC: Self-confidence

Since the assumption of normality was not met, hypothesis testing was performed using nonparametric statistics, specifically the Spearman rank correlation test (r_s). The results of the correlation analysis between cognitive anxiety, somatic anxiety, and athletes' self-confidence ($N = 30$) are shown in Table 5. The results indicate a very strong negative correlation between cognitive anxiety and self-confidence in athletes. $r_s = -0.938$; $P < 0.01$. This very high correlation coefficient indicates that cognitive anxiety or mental worry has a very drastic impact; the higher the psychological pressure and negative thoughts experienced by athletes, the more significantly their self-confidence will decrease. A similar phenomenon was observed in the relationship between somatic anxiety and self-confidence, yielding a correlation coefficient of ($r_s = -0.882$) with a significance level of 0.000 ($P < 0.01$)... These findings confirm the existence of a very strong negative relationship, wherein the physical manifestations of anxiety—such as muscle tension and physical restlessness—are inversely related to athletes' self-confidence. Overall, these results demonstrate that both the cognitive and somatic dimensions of anxiety are critical determinants that can significantly reduce athletes' self-confidence stability before a competition.

Discussion

The purpose of this study is to analyze the dynamics of athletes' psychological states in the Perisai Diri UPI student club as they prepare for a competition. The results of the descriptive analysis indicate that the athletes possess a unique mental state characterized by high self-confidence, evidenced by an average score of 27.60; however, concurrently, their levels of somatic anxiety are also high, with an average score of 26.17. This indicates that, although the athletes have strong self-confidence in their technical mastery and adequate physical readiness, their bodies still exhibit physiological symptoms such as increased heart rate, muscle tension, and sweaty hands. These symptoms are common because they are physiological responses caused by high anxiety levels, and this phenomenon is common in sports that rely on physical contact, one of which is the martial art pencak silat. This causes athletes to instinctively enter a "fight or flight" state, triggering

the release of the stress hormone epinephrine (or adrenaline) and putting them on high alert to face threats. This also causes athletes to experience pressure regardless of their level of preparedness when facing competition. (Makarowski, 2022).

The findings from the Spearman's rank correlation analysis further support the argument that anxiety levels affect athletes' mental stability; the results show a negative correlation between cognitive anxiety and athletes' self-confidence of -0.938, as well as between somatic anxiety and self-confidence of -0.882. The values of these two variables approach -1, indicating that even minor fluctuations in negative thoughts or feelings of discomfort experienced by athletes can lead to a drastic decline in their self-confidence. This aligns with the "Multidimensional Anxiety Theory" proposed by Martens et al. (1990) in their paper titled "Competitive Anxiety in Sports," which explains that the cognitive and somatic dimensions are the primary barriers to self-efficacy (Tossici et al., 2024).

Comparing with previous studies conducted by Aliberti et al. (2024) and Peng et al. (2025), it is confirmed that anxiety is a universal challenge in competitive sports. However, the significance of this study lies in the "double burden" profile experienced by athletes. As student-athletes, athletes also face the challenge of balancing their athletic performance with their academic responsibilities (Falah Tri Nur Afifah et al., 2025). Although the instrument used in this study only measured competitive anxiety levels and not academic stress, the impact of this double burden is clearly visible in the cognitive dimension of anxiety. The accumulated mental fatigue from academic obligations as a student creates a psychological "spillover effect," where emotional phenomena, attitudes, or behaviors from one domain (sports) influence or spill over into another domain (academics) or vice versa, resulting in reduced cognitive capacity and emotional resilience in athletes (Postema et al., 2025). As a result, when entering the competitive phase, this mental fatigue underlies athletes' fear of failure and negative mindsets, leading to a drastic decline in self-confidence and suboptimal performance during competitions. (Schorb et al., 2023).

The results of this study indicate that many athletes fail to perform at their best during competitions. Although athletes demonstrate high self-confidence during training, a lack of emotional regulation during the pre-competition period can lead to somatic and cognitive symptoms that may override it, resulting in a drastic decline in self-confidence. The results of the correlation test indicate that athletes from the UKM Perisai Diri UPI exhibit relatively high mental vulnerability. Self-confidence alone is insufficient as a safeguard against the psychological impacts caused by anxiety levels; therefore, specialized psychological interventions such as mindfulness, biofeedback, stress and burnout management, mental imagery, Progressive Muscle Relaxation (PMR), and others are necessary. This is to reduce athletes' stress levels before competitions so that they can perform at their best. (di Fronso & Budnik-Przybylska, 2023).

CONCLUSION

The significant and strong negative correlation between anxiety levels (cognitive and somatic) and self-confidence among athletes at the Perisai Diri Student Club at the Indonesia

University of Education indicates that athletes' anxiety levels—manifested as negative thoughts and physiological reactions—remain relatively high, leading to a decline in their self-confidence. The athletes' psychological profiles suggest they are highly self-confident; however, this strong correlation indicates that their mental state remains highly sensitive to changes in competitive stress. Thus, the higher the athletes' anxiety levels, the more their self-confidence diminishes.

REFERENCES

- Aliberti, S., Raiola, G., D'Elia, F., & Cherubini, D. (2024). The Influence of Pre-Competitive Anxiety and Self-Confidence on Dancesport Performance. *Sports*, 12(11), 1–13. <https://doi.org/10.3390/sports12110308>
- Barata Yuda. (2024). Profil Kepercayaan Diri Atlet Pada Pekan Olahraga Mahasiswa Nasional. *Indonesian Journal for Physical Education and Sport*, 5(1), 18–32. <https://journal.unnes.ac.id/journals/inapes>
- Bella, M. K., & Hikmawati, I. (2022). Guided Imagery Relaxation: Therapy to Reduce Anxiety Level Before Competing Pencak Silat Athletes. *Proceedings Series on Health & Medical Sciences*. <https://doi.org/10.30595/pshms.v3i.623>
- Burhanuddin, S., Setiawan, E., Isnaini, L. M. Y., Jumareng, H., & Patah, I. A. (2023). Changing the level of mental health and fundamental movement skills on pencak silat athletes through game-based circuit training. *Health, Sport, Rehabilitation*. <https://doi.org/10.58962/HSR.2023.9.3.50-60>
- Chang, M. O., Jiménez, E. S., Celia, A., & Torres, M. (2025). Competitive Anxiety: Multidimensional and Multifactorial Analysis. *Journal of Medicine Care and Health Review*, 02(04), 2–6. <https://doi.org/10.61615/JMCHR/2025/DEC027141210>
- Cox, R. H., Martens, M. P., & Russell, W. D. (2003). *Measuring Anxiety in Athletics: The Revised Competitive State Anxiety Inventory* – 2. 519–533. <https://doi.org/10.1123/jsep.25.4.519>
- di Fronso, S., & Budnik-Przybylska, D. (2023). Special Issue: Sport Psychology Interventions for Athletes' Performance and Well-Being. *International Journal of Environmental Research and Public Health*, 20(4). <https://doi.org/10.3390/ijerph20043712>
- Domínguez-González, J. A., Reigal, R. E., Morales-Sánchez, V., & Hernández-Mendo, A. (2024). Analysis of the Sports Psychological Profile, Competitive Anxiety, Self-Confidence and Flow State in Young Football Players. *Sports*. <https://doi.org/10.3390/sports12010020>
- Falah Tri Nur Afifah, Komarudin, Mochamad Yamin Saputra, & Gerald Novian. (2025). Psychological Distress and Anxiety: A Case Study on Student-Athletes at University. *Journal of Physical Education Health and Sport*, 12(1), 55–62. <https://doi.org/10.15294/jpehs.v12i1.28277>
- Hamblin, M., & Crisp, P. (2022). Negative Focus, Self-Doubt, and Issues of “Tool Proficiency”: Beginner-Coaches' Reflections on Reflective Practice. *Physical Culture and Sport, Studies and Research*, 95(1), 1–13. <https://doi.org/10.2478/pcssr-2022-0007>
- Huang, D., Wang, H., Tang, Y., Lei, H., & Koh, D. (2025). Enhancing athlete performance under pressure: the role of attribution training in mitigating choking. *Frontiers in Psychology*, 16(February). <https://doi.org/10.3389/fpsyg.2025.1435374>
- Kamal Ariffin, N. A., Anuar, N., & Azhar, N. A. (2025). Comparative Analysis of Athlete Anxiety and Performance Between Individual and Team Sports in Malaysia. *International Journal of Academic Research in Business and Social Sciences*, 15(2), 759–766. <https://doi.org/10.6007/IJARBS/v15-i2/23505>
- Makarowski, R. (2022). *Journal of Sport and Kinetic Movement No . 39 , Vol . I / 2022 STRESS QUESTIONNAIRE MEASURING EMOTIONAL TENSION , EXTERNAL STRESS , INTRAPSYCHIC STRESS , FIGHT-OR-FLIGHT , AND Journal of Sport and Kinetic Movement No . 39 , Vol . I / 2022*. I(39), 4–10.
- Martens, R., Vealey, R. S., & Burton, D. (1990). Competitive anxiety in sport.
- Peng, J., Jing, L., Wang, P., & Wang, H. (2025). Mindfulness and self-rated performance among novice athletes in China: a sequential mediating role of flow and cognitive anxiety. *Frontiers in Psychology*, 16(July), 1–9. <https://doi.org/10.3389/fpsyg.2025.1436321>
- Postema, A., van Mierlo, H., Bakker, A. B., & Barendse, M. T. (2025). Study-to-sports spillover among competitive athletes: a field study. *International Journal of Sport and Exercise Psychology*, 23(3), Lxviii–Xci. <https://doi.org/10.1080/1612197X.2022.2058054>
- Putra, M. F. P., & Guntoro, T. S. (2022). Competitive State Anxiety Inventory–2R (CSAI–2R): Adapting and Validating Its Indonesian Version. *International Journal of Human Movement and Sports Sciences*. <https://doi.org/10.13189/saj.2022.100305>
- Ridho Setiawan, M., Zulfikar Najat, F., Veryza Farhan, R., Suhendan, A., Jejak, R., Kunci, K., Fisik, K., & Silat, P. (2022). ANALISIS FAKTOR KONDISI FISIK ATLET PENCAK SILAT Keterangan. In *Jurnal Olahraga dan Kesehatan Indonesia (JOKI)* (Vol. 3, Issue 1). <https://jurnal.stokbinaguna.ac.id/index.php/jok>
- Rohmah, A. C., Isnaini, N. P., & Susanti, R. N. (2025). Keyakinan dan Kenyataan: SMART Goal Setting Membangun Self-Efficacy pada Atlet Futsal. *Prosiding Seminar Psikologi (PROSEPSI)*, 2(2), 16–27. <https://prosiding.umk.ac.id/index.php/prosepsi/article/view/992>

- Schorb, A., Aichhorn, J., Schiepek, G., & Aichhorn, W. (2023). Burnout in adolescent elite athletes A pilot study on an Austrian student sample. *Sports Psychiatry*, 2(2), 51–56. <https://doi.org/10.1024/2674-0052/a000046>
- Tossici, G., Zurloni, V., & Nitri, A. (2024). Stress and sport performance: a PNEI multidisciplinary approach. *Frontiers in Psychology*, 15. <https://doi.org/10.3389/fpsyg.2024.1358771>
- Trpkovici, M., Pálvölgyi, Á., Makai, A., Prémusz, V., & Ács, P. (2023). Athlete anxiety questionnaire: the development and validation of a new questionnaire for assessing the anxiety, concentration and self-confidence of athletes. *Frontiers in Psychology*. <https://doi.org/10.3389/fpsyg.2023.1306188>
- Widiawati, P., Hanief, Y. N., Erdilanita, U., & Aprilyanto, A. B. (2025). Upaya melestarikan budaya Indonesia melalui seni pencak silat. *Jurnal Inovasi Hasil Pengabdian Masyarakat (JIPEMAS)*, 8(1), 215–228. <https://doi.org/10.33474/jipemas.v8i1.22684>