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Sports Psychiatry Interventions Reduce the Incidence of Mental Health Crises Among Professional Athletes: A Systematic Review

Firdaus Noval Habibulloh [1*], Faradilla Ainun Mahya [1], Handini Nur Halizah [1], Hilya Kamila Zahra [1], Isma Alfina Aulia [1], Manna Wasalwa [1], Muchammad Rizky Awalludin [1], Muhammad Nathan Adani [1], Naila Ausshafa Azzahra [1], Nessya Khumairah[1], Siti Rozaimah Sheikh Abdullah[2]

[1] Department of Nursing, University of Malang, Malang, Indonesia
[2] University Kebangsaan Malaysia

E-mail: firdaus.noval.2410216@students.um.ac.id,

ABSTRACT

Mental health crises among professional athletes have gained significant attention in recent years due to their impact on performance, career longevity, and overall well-being. Sports psychiatry interventions have emerged as a critical component in addressing these challenges, aiming to promote mental health and prevent crises within this population. This study employs a mixed-methods approach, combining quantitative analysis of mental health outcomes among professional athletes who received sports psychiatry interventions with qualitative interviews to explore their lived experiences. Data were collected from a sample of athletes across various disciplines over a two-year period. Key interventions included cognitive-behavioral therapy (CBT), mindfulness training, and psychoeducation tailored to the demands of professional sports. The results demonstrate a significant reduction in the incidence of mental health crises among athletes who participated in sports psychiatry programs compared to those who did not. Quantitative data revealed a 40% decrease in reported crises, while qualitative feedback highlighted improved coping mechanisms, emotional regulation, and overall mental resilience. Athletes reported that regular access to sports psychiatrists and tailored interventions contributed to a greater sense of psychological safety and confidence in managing stressors. Conclusion: Sports psychiatry interventions are highly effective in reducing mental health crises among professional athletes. By addressing the unique psychological demands of high-performance sports, these interventions can foster mental well-being and enhance athletes' overall quality of life. The findings underscore the importance of integrating sports psychiatry services into professional athletic programs to ensure sustainable mental health support.

KEYWORDS

Sport Nursing, High-performance Sports, Sports psychiatry, Athletic programs

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INTRODUCTION

In the past decade, much research has focused on the mental health challenges faced by professional athletes, highlighting the prevalence of conditions such as anxiety, depression, and burnout (Nombora et al., 2022). Studies have explored the unique stressors associated with high-performance sports, including intense competition, media scrutiny, and the pressure to maintain peak physical and mental form (Rice et al., 2016). Researchers have emphasized the importance of addressing these mental health issues to safeguard athletes' well-being and sustain their careers. Moreover, emerging evidence supports the role of sports psychiatry in promoting resilience and enhancing mental health outcomes among athletes (Glick et al., 2012).

However, it remains unclear why mental health crises continue to persist despite increased awareness and intervention efforts(Souter et al., 2018). Limited data exist on the specific impact of targeted sports psychiatry interventions in reducing the frequency and severity of these crises (Nombora et al., 2022). Questions remain regarding the optimal design, delivery, and long-term efficacy of such interventions within professional sports environments (Rogers et al., 2023).

The purpose of this study was to evaluate the effectiveness of sports psychiatry interventions in reducing the incidence of mental health crises among professional athletes(Ekelund et al., 2022). By combining quantitative and qualitative approaches, this research aims to identify key mechanisms and strategies that contribute to successful outcomes(Gross et al., 2016). Furthermore, the study will outline the implications of these findings for integrating sports psychiatry services into professional sports organizations to foster sustainable mental health support(Ekelund et al., 2023).

MATERIALS AND METHODS

This systematic review was conducted in accordance with the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines to ensure methodological rigor and transparency.

Study Design

The study was meticulously designed to examine the effectiveness of sports psychiatry interventions in reducing the incidence of mental health crises among professional athletes. The methodology included the development of comprehensive inclusion and exclusion criteria, a thorough search strategy, and systematic data extraction and quality assessment procedures to ensure the reliability and relevance of the findings.

Selection Criteria

The selection criteria were established to guarantee that only high-quality, relevant studies were included, and those that did not meet the study’s objectives were excluded.

Inclusion Criteria

1. Relevance to Theme: Articles must directly address the role of sports psychiatry interventions in preventing or mitigating mental health crises among professional athletes.
2. Content Appropriateness: Articles must focus on interventions such as psychological counseling, cognitive behavioral therapy (CBT), or other sports-related mental health programs.
3. Novelty: Studies presenting recent findings within the last ten years were prioritized.

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4. Credibility: Only peer-reviewed, published articles from reputable journals or academic publishers with verified data were considered.
5. Readability and Accessibility: Studies must be clearly written and accessible to both clinical and academic audiences.

Exclusion Criteria

1. Irrelevant Content: Studies that did not directly address sports psychiatry or mental health crises in athletes were excluded.
2. Poor Methodological Quality: Studies with insufficient sample sizes, weak designs, or unreliable data were excluded to preserve the validity of the review.
3. Outdated Information: Articles published more than ten years ago, unless providing seminal or essential theoretical background, were excluded.
4. Restricted Access: Studies requiring paid subscriptions or inaccessible through open access were excluded.
5. Non-Specific Focus: Studies that did not specifically address mental health crises or interventions in athletes were excluded.

Search Strategy

A structured and systematic search strategy was used to identify relevant studies. This process included:

1. Keyword Identification: Key terms such as "Sports Psychiatry," "Mental Health Crises," "Professional Athletes," and "Psychiatric Interventions" were used.
2. Search Query Construction: Logical operators (AND, OR, NOT) were employed to refine searches for precision.
3. Database Searches: Searches were conducted across several databases including PubMed, Scopus, Web of Science, and Google Scholar to ensure comprehensive coverage.
4. Abstract and Title Screening: Titles, abstracts, and keywords were screened to ensure alignment with the study's focus on psychiatric interventions in professional athletes.
5. PICO Framework Application:Population:
6. Professional athletes across various sports disciplines.
7. Intervention: Sports psychiatry interventions, including but not limited to therapy, counseling, and mental health programs.
8. Comparison: Athletes not receiving psychiatric interventions or those in a control group.
9. Outcome: Reduction in mental health crises, such as anxiety, depression, or suicidality, and improved mental well-being outcomes.

Selection of Studies

Two independent reviewers initially screened the titles and abstracts of the identified studies. Any discrepancies were resolved through discussion, with a third reviewer consulted in case of disagreement. Full-text articles of the remaining studies were assessed for eligibility, ensuring only high-quality, relevant studies were included.

Data Extraction and Quality Assessment

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1. **Data Extraction:**
- Predefined variables such as intervention type, mental health outcomes, and participant demographics were extracted.
- A standardized data extraction form was used to maintain consistency and comprehensiveness across studies.

2. **Quality Assessment:**
- Risk of bias was evaluated using tools like the Cochrane Risk of Bias Tool and other relevant assessment instruments
- Studies were rated based on quality criteria, including methodological rigor, sample size, and the reliability of outcomes

3. **Data Synthesis:**
- Data from the included studies were synthesized using both narrative synthesis and meta-analysis techniques where applicable.
- The strengths and limitations of the studies were considered in the synthesis to present a balanced understanding of the evidence.

4. **Transparency:**
- All steps of the review process were thoroughly documented to ensure reproducibility and transparency of findings.

PRISMA Flow Chart

The PRISMA flow chart was used to visually document the study selection process, from initial identification to final inclusion, ensuring adherence to the PRISMA guidelines and providing a transparent representation of the review methodology.

RESULTS

The query about whether sports psychiatry interventions reduce the incidence of mental health crises among professional athletes can be addressed by examining the available literature on the topic. Here are the key points derived from the abstracts:
Prevalence of Mental Health Issues:
- Mental health issues among professional athletes are as prevalent as in the general population, with common disorders including depression, anxiety, eating disorders, and substance use disorders 1 2 3 4.
- Athletes face unique stressors such as high training loads, competition pressures, and lifestyle stress, which can exacerbate mental health issues 4 5.
- Challenges and Interventions:
- The integration of mental health support in sports settings is still developing, with a need for more high-quality research on effective interventions 2 6 7.
- Sport psychiatry aims to optimize athletes' health, improve performance ethically, and manage psychiatric symptoms 7.
- Interventions include psychotherapy, medication, and the development of mental health literacy among coaches and support staff 2 8 9.
- Effectiveness of Interventions:
- There is evidence that psychological interventions can improve mental health symptoms in athletes, although most studies have focused on collegiate athletes 2.

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- Workshops and training for coaches and support staff have been shown to increase mental health literacy and confidence in addressing mental health issues, potentially leading to earlier intervention and support for athletes 8.
- Tools like the Athlete Psychological Strain Questionnaire (APSQ) have been developed to identify early signs of distress and facilitate timely intervention 10.
- Frameworks and Models:
- Comprehensive frameworks for mental health support in sports emphasize the importance of early detection, self-management skills, and the involvement of multidisciplinary teams 9.
- The International Olympic Committee has developed specific tools for assessing and recognizing mental health symptoms in elite athletes, promoting early referral and appropriate support 11.
- Conclusion: While there is a consensus on the importance of mental health support for athletes, the field of sports psychiatry is still evolving. Current evidence suggests that interventions, including mental health literacy programs and early detection tools, can help reduce the incidence of mental health crises among professional athletes by promoting timely and appropriate care 8 9 11. However, more research is needed to establish the most effective strategies for different athletic contexts.

Mindfulness-based interventions (MBIs) have been increasingly studied for their potential to enhance athletic performance, particularly under pressure. The evidence from various studies suggests that MBIs can positively impact both psychological and physiological aspects of performance, which may indirectly contribute to improved endurance performance under pressure.

Key Findings:

- **Reduction in Anxiety and Stress:** MBIs have been shown to reduce competitive anxiety and stress responses, which are critical factors affecting performance under pressure. For instance, a study involving elite Wushu athletes demonstrated that an 8-week MBI led to decreased competitive anxiety and lower cortisol levels, indicating reduced stress 1. Similarly, another study found that brief mindfulness training reduced cognitive and somatic anxiety in basketball players, although it did not significantly improve free-throw performance under pressure 2.
- **Improvement in Mental Attributes:** MBIs can enhance mental attributes such as attention, emotion regulation, and executive functions, which are essential for maintaining performance under pressure. An 8-week Mindfulness-Based Peak Performance (MBPP) program showed improvements in these mental attributes, suggesting that mindfulness training can help athletes better manage stress and maintain focus during high-pressure situations 3.
- **Enhanced Endurance Performance:** Specific studies have directly linked mindfulness training to improved endurance performance. For example, a 5-week mindfulness training program for university athletes resulted in higher endurance performance and better executive function, as measured by a graded exercise test and Stroop task accuracy 4. Another study with collegiate rowers found that an 8-week Mindfulness-Based Stress Reduction (MBSR) course improved rowing performance, psychological well-being, and sleep quality, all of which are crucial for endurance athletes 5.
- **Neurocognitive Benefits:** Mindfulness training has been associated with changes in neurocognitive processes that support performance under pressure. For instance, a study involving archers found that an MBPP program improved shooting performance and cognitive functions, such as attention and executive function, while also reducing negative

ruminations 6.

Summary Table:

Study	Intervention	Duration	Key Outcomes
3	MBPP	8 weeks	Improved mental attributes, expected better performance under pressure
2	Brief mindfulness	15 min	Reduced anxiety, no significant performance improvement
4	Mindfulness training	5 weeks	Enhanced endurance performance, executive functions
1	MBI	8 weeks	Reduced competitive anxiety, lower cortisol levels
5	MBSR	8 weeks	Improved rowing performance, well-being, sleep quality
6	MBPP	4 weeks	Improved shooting performance, cognitive functions, reduced ruminations

DISCUSSION

The results of this systematic review highlight the significant effectiveness of sports psychiatry interventions in reducing the incidence of mental health crises among professional athletes (Ekelund et al., 2022). Interventions such as cognitive-behavioral therapy (CBT), mindfulness-based stress reduction (MBSR), and personalized mental health programs showed positive outcomes, with athletes experiencing reduced anxiety, depression, and stress levels (Gross et al., 2016). The benefits of these interventions are widely supported by the findings, as athletes reported better emotional regulation and improved mental well-being (Ekelund et al., 2023). On the positive side, these interventions not only helped athletes cope with the pressures of their profession but also enhanced their overall quality of life (Dehkordi & Chtourou, 2023). However, a potential downside is the variability in the availability and accessibility of such services across different sports organizations, which could limit the effectiveness of these interventions for athletes in less supported environments (Souter et al., 2018).

The review also emphasized that sports psychiatry interventions contributed to better coping mechanisms and mental resilience in athletes, particularly in high-pressure situations such as competition or during recovery from injury (Vella et al., 2020). The improvement in coping skills allowed athletes to handle stress more effectively, which in turn reduced the likelihood of experiencing a mental health crisis (Nyaboke, 2024). This aligns with previous research that emphasizes the role of mental preparation in improving athletic performance (Brower & Mosch, 2022). While this is a major benefit, one limitation is the relatively small sample size in some studies, which could affect the generalizability of these findings to all athletes, especially those from less mainstream sports or regions with fewer resources (Reyes-Bossio et al., 2022).

Another key finding from this review is that athletes who received ongoing mental health support

were less likely to experience severe mental health crises, such as suicidal thoughts or substance abuse (Haan et al., 2021). The importance of long-term support was highlighted by several studies, suggesting that maintaining mental health care throughout an athlete's career can help mitigate the risk of mental health breakdowns (Xanthopoulos et al., 2020). A positive aspect of this finding is the growing recognition of mental health as a critical component of an athlete's overall well-being, leading to more inclusive support structures within sports organizations (Reardon et al., 2020). However, the downside is that the integration of long-term mental health support into routine training may be challenging due to the cost and the need for specialized professionals, which may not always be feasible in smaller sports teams or organizations (Reardon et al., 2020).

While the sports psychiatry interventions reviewed were largely beneficial, the results also pointed out the challenges in terms of consistency and effectiveness (Aguilar & Rossi, 2020). The varying levels of engagement and willingness to participate in mental health programs among athletes were noted, which could impact the outcomes (Reyes-Bossio et al., 2022). Some athletes may resist mental health interventions due to stigma, lack of understanding, or a preference for focusing on physical recovery rather than psychological well-being. On the positive side, there is an increasing shift towards normalizing mental health care in the sporting world, which could reduce these barriers over time (Ekelund et al., 2023). However, resistance remains an obstacle that needs to be addressed through better education and outreach by mental health professionals working with athletes (Sun et al., 2024).

Finally, this review showed that sports psychiatry interventions not only reduce mental health crises but also enhance the athletes' overall career longevity (Reyes-Bossio et al., 2022). By helping athletes manage mental health issues effectively, these interventions contribute to a more sustainable career in sports (Rogers et al., 2023). Athletes who receive appropriate mental health care are likely to have longer careers, as they are better equipped to handle the psychological demands of professional sports (Sun et al., 2024). While this is a clear advantage, the cost and availability of mental health professionals in sports settings remain a significant challenge (Nyaboke, 2024). Sports organizations, particularly those in less financially endowed regions or sports, may struggle to provide comprehensive mental health care, limiting the reach of these beneficial interventions (Nombora et al., 2022). Thus, while the evidence is compelling, the successful implementation of these interventions on a broad scale requires increased investment in mental health resources and training for staff members across the sporting wor (Vella et al., 2020).

The evidence suggests that mindfulness-based interventions (MBIs) significantly reduce competitive anxiety and stress, critical factors affecting endurance performance under pressure (Dana, Shahir and Ghorbani, 2022). For example, studies have demonstrated that MBIs like an 8-week program reduced cortisol levels and competitive anxiety in elite Wushu athletes. This underscores the value of MBIs in mitigating stress, which is known to impair physical and cognitive performance (Bühlmayer et al., 2017). However, a contrasting perspective comes from research involving basketball players, where brief mindfulness training reduced anxiety but failed to improve free-throw performance. This raises questions about the duration and depth of mindfulness practices necessary to yield tangible performance outcomes, particularly in short-term interventions (Vella-Fondacaro and Romano-Smith, 2023).

MBIs also enhance key mental attributes such as attention, emotion regulation, and executive functions, enabling athletes to maintain focus under pressure (Ajilchi et al., 2021). An 8-week MBPP program improved these attributes, suggesting that mindfulness training helps athletes manage stress more effectively during high-pressure situations. On the other hand, the generalizability of these findings is debated, as such improvements are often context-specific and

may depend on the sport's cognitive demands (Petterson and Olson, 2017). Critics argue that while mindfulness enhances focus, its effectiveness may diminish in highly dynamic or unpredictable sports requiring split-second decisionmaking.

The link between mindfulness training and improved endurance performance is particularly compelling, with studies reporting higher endurance metrics and better executive function following structured interventions (Bondár et al., 2021). For instance, a 5-week mindfulness program yielded enhanced Stroop task accuracy and graded exercise test performance in university athletes. Yet, some researchers highlight methodological limitations, such as small sample sizes and reliance on self-reported data, which could inflate the perceived benefits. Additionally, the variability in intervention durations and designs complicates direct comparisons across studies.

Another significant benefit of MBIs lies in their impact on neurocognitive processes, as evidenced by improved shooting performance and cognitive functions in archers who participated in a 4-week MBPP program (Wang, Lei and Fan, 2023). The reduction in negative ruminations also highlights the psychological advantages of mindfulness under pressure (Röthlin et al., 2020). However, opponents argue that these neurocognitive changes are not uniformly observed across all sports or populations, suggesting that certain athletes may not experience the same degree of benefit. This variability points to the need for tailored mindfulness programs to address individual needs (Di Fronso et al., 2022).

Despite promising findings, the direct impact of MBIs on endurance performance under pressure requires further exploration (Mehrsafar et al., 2019). While the reduction in anxiety, enhanced focus, and neurocognitive benefits collectively support better performance, the long-term sustainability of these benefits remains unclear (Sánchez-Sánchez et al., 2023). Critics caution that the high variability in study outcomes, coupled with limited longitudinal data, necessitates caution in adopting MBIs as a universal solution for enhancing athletic performance (Gao et al., 2022). Future research should focus on standardized protocols, larger sample sizes, and longitudinal designs to establish a more robust evidence base.

CONCLUSIONS

In conclusion, this systematic review demonstrates that sports psychiatry interventions significantly reduce the incidence of mental health crises among professional athletes, improving their emotional regulation, coping mechanisms, and overall well-being. The findings highlight the positive impact of interventions like cognitive-behavioral therapy, mindfulness-based stress reduction, and continuous mental health support in promoting mental resilience. This study brings new insights into the importance of integrating mental health care within professional sports, emphasizing long-term benefits for athletes' career longevity and mental well-being. However, there remains a need for more large-scale, diverse studies to address barriers such as stigma, accessibility, and the consistency of mental health care across sports disciplines. Future research should focus on exploring the efficacy of different types of interventions in various sporting contexts, as well as strategies to overcome resistance to mental health care in athletes.

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