# Global trends in sports programs to improve family health and resilience: a systematic review as an effort to achieve well-being

Tendencias globales en programas deportivos para mejorar la salud y la resiliencia familiar: una revisión sistemática como esfuerzo para lograr el bienestar

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**Abstract.** Lack of physical activity in daily life can lead to serious health problems, such as obesity, heart disease, and mental health disorders that negatively impact family resilience. Therefore, exercise is important to improve the health of family members, reduce the risk of disease, and strengthen social relationships, all of which contribute to better family resilience and well-being. Given the importance of exercise for health, this study focuses on How exercise programs can holistically improve family health and well-being. This study explored the relationship between exercise programs and their impact on family health, resilience, and well-being. The method used is a systematic literature review (SLR), which includes the selection of literature from various academic databases, Scopus, PubMed, Semantic Scholar, and Google Scholar, by setting clear inclusion and exclusion criteria to ensure the relevance and quality of the research and obtaining data that is worthy of being analysed as many as 23 scientific articles. Data analysis using the help of biblioshiny and NVivo. The results of this review indicate that participation in exercise programs improves individuals' physical and mental health and strengthens emotional and social relationships within the family, resulting in stronger bonds between family members. These findings highlight the importance of policies supporting family participation in physical activity and developing inclusive and flexible sports programs to address the challenges families face. Recommendations for future research include exploring the accessibility of sports programs for all population segments and paying attention to the potential negative impacts of involvement in organized sports. This study provides valuable insights into the vital role of sport in creating healthy and resilient families in a changing era.

Keywords: global trends, sports programs, family health, family resilience, well-being

Resumen. La falta de actividad física en la vida diaria puede conducir a graves problemas de salud, como obesidad, enfermedades cardíacas y trastornos de salud mental que afectan negativamente la resiliencia familiar. Por lo tanto, el ejercicio es importante para mejorar la salud de los miembros de la familia, reducir el riesgo de enfermedades y fortalecer las relaciones sociales, todo lo cual contribuye a una mejor resiliencia y bienestar familiar. Dada la importancia del ejercicio para la salud, este estudio se centra en cómo los programas de ejercicio pueden mejorar de manera integral la salud y el bienestar familiar. Este estudio exploró la relación entre los programas de ejercicio y su impacto en la salud, la resiliencia y el bienestar familiar. El método utilizado es una revisión sistemática de la literatura (SLR), que incluye la selección de literatura de varias bases de datos académicas, Scopus, PubMed, Semantic Scholar y Google Scholar, estableciendo criterios claros de inclusión y exclusión para asegurar la relevancia y calidad de la investigación y la obtención de datos que sean dignos de ser analizados hasta 23 artículos científicos. Análisis de datos utilizando la ayuda de biblioshiny y NVivo. Los resultados de esta revisión indican que la participación en programas de ejercicio mejora la salud física y mental de las personas y fortalece las relaciones emocionales y sociales dentro de la familia, lo que da como resultado vínculos más fuertes entre los miembros de la familia. Estos hallazgos resaltan la importancia de las políticas que apoyan la participación familiar en la actividad física y el desarrollo de programas deportivos inclusivos y flexibles para abordar los desafíos que enfrentan las familias. Las recomendaciones para futuras investigaciones incluyen explorar la accesibilidad de los programas deportivos para todos los segmentos de la población y prestar atención a los posibles impactos negativos de la participación en deportes organizados. Este estudio proporciona información valiosa sobre el papel vital del deporte en la creación de familias saludables y resilientes en una era cambiante.

Palabras clave: tendencias globales, programas deportivos, salud familiar, resiliencia familiar, bienestar

Fecha recepción: 11-10-24. Fecha de aceptación: 22-10-24

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# Introduction

Family health is a priority in global public health policies because the family is the basic unit of society that significantly impacts the well-being of individuals and communities (Hanson et al., 2019). Healthy families contribute to overall public health, as family members' health conditions influence each other (Booysen et al., 2021). In addition, families also play an important role in the care and education of children, which impacts future generations (Daines et al., 2021). In a global context, challenges such as increasing rates of chronic diseases, mental health problems, and the nutritional crisis make attention to family health increasingly urgent (Mao & Agyapong, 2021). Family-focused health policies can create

an environment that supports access to health services, nutrition education, and the promotion of healthy lifestyles (Bethell et al., 2023). Improving family health is hoped to reduce disease burden, increase productivity, and create more resilient and prosperous communities (Morley et al., 2017). Therefore, prioritising family health in public health policy is a strategic step to achieve broader global health goals.

Family resilience is crucial in maintaining social and economic stability, especially in times of crisis or stress (Derscariu, 2023). Resilient families can better manage challenges, including natural disasters, economic crises, or health problems (Pusparini et al., 2023). This resilience creates a solid support system where family members help each other to overcome difficulties (Greeff & Holtzkamp,

2007). For example, in job or income loss situations, families with strong relationships and good communication can share resources, plan budgets wisely, and collectively reduce stress's impact. In addition, family resilience is also related to their ability to adapt and find creative solutions in difficult times (Herlusia et al., 2021). Families with emotional and social resilience can provide important mental support for family members who may experience anxiety or depression due to external stress (Nistor, 2023). Thus, improving family health and resilience is important for individual well-being and creating broader social and economic stability (Pierce & Stevermer, 2023). Public health policies emphasising family health and resilience can strengthen social structures that withstand various crises.

Family-based exercise programs can significantly improve families' physical and mental health through several mechanisms (Milkie et al., 2019). First, physical activity promotes healthier lifestyles among family members (Breslau et al., 2018). Together, exercise can improve physical fitness, reduce the risk of chronic diseases, and help control weight (Skovgaard et al., 2022). In addition, social interactions during exercise activities can strengthen emotional bonds between family members, create a sense of mutual support and improve communication (Tadros et al., 2022). There is a lot of empirical evidence that exercise positively impacts family well-being. Research shows that physically active families experience lower stress levels and improved mood, contributing to better mental health (Holmes et al., 2022). For example, a study conducted by Tadros et al., 2023 found that family-based exercise programs can increase children's self-esteem and happiness and reduce symptoms of depression and anxiety. In addition, these programs often encourage better nutrition education so that family members exercise and adopt healthy eating habits. Thus, family-based exercise programs improve physical health and contribute to mental well-being, creating a healthier and happier family environment (F. K. W. Ho et al., 2017).

Exercise is crucial in promoting a healthy lifestyle that can reduce the risk of physical and mental illness in families (Griffiths et al., 2024). Families can build sustainable healthy habits by integrating physical activity into daily routines (Erginer & Günüşen, 2018). Physical activity, such as walking, running, or playing sports, improves physical fitness and heart health and helps maintain a healthy weight, a preventive measure against chronic diseases such as diabetes and hypertension (Tuda et al., 2022). In addition, exercise is effective in improving mental health by stimulating the production of endorphins that can reduce symptoms of anxiety and depression (Romain et al., 2020). When families exercise together, they also build strong social bonds and increase emotional support for each other, which is important in dealing with life's stresses and challenges (Bochicchio et al., 2019). Therefore, by promoting an active and healthy lifestyle, sports can be an effective tool in creating physically and mentally healthier families and improving overall quality of life (Pape et al.,

2022). The phenomenon found in developing countries such as Indonesia shows that global trends in sports programmes are still uneven and tend to adjust to geographical location. Sports trends in rural areas tend to utilise simple equipment. Unlike in urban areas, trends in sports programmes in developed urban areas tend to be varied and utilise modern equipment and technology. In some other developing countries, sports programmes in their respective countries are more focused on the local wisdom that prevails in the community. Family sports programmes are growing rapidly in many countries, triggered by several key factors that encourage people to participate in physical activity together (Поліщук, 2023). One of the main drivers is the growing awareness of the importance of health and active lifestyles among families, especially in the context of increasing rates of obesity and chronic diseases associated with sedentary lifestyles (Evseev et al., 2020). In addition, public health campaigns launched by governments and international health organisations have also contributed to promoting physical activity as part of everyday life.

However, there are significant differences in the approach to exercise programmes in developed and developing countries. In developed countries, family sports programmes are often more structured and supported by adequate facilities and better access to training and resources (Tewari et al., 2023). For example, many developed countries have community centres that offer a range of sports programs for families, from fitness classes to sports tournaments (Tian, 2014). Meanwhile, in developing countries, family exercise programmes may focus more on informal participation and community engagement, often influenced by limited resources and infrastructure (Dallas et al., 2020). Here, such programmes may be locally organised activities, such as inter-family sports leagues or community events encouraging physical participation. While the approaches differ, they aim to improve family health and well-being through shared physical activity (Rubaie & Mohamed, 2022).

Sport is closely related to family resilience and well-being (Menge & Kayonga, 2022), effectively improving families' quality of life in the face of social and economic challenges (Akyürek & Soyer, 2024). By participating in physical activities together, families can develop important emotional and social resilience, which helps them cope with stresses and changes in life (Cover et al., 2012). For example, through sports, family members can learn to collaborate, communicate, and support each other, creating a positive and supportive environment. This positive and supportive environment is particularly important in difficult situations, such as job loss or health problems, where emotional support from family can strengthen their resilience. (Vaux-Bjerke et al., 2023).

Exercise programmes enhance family resilience and contribute to holistic well-being (Acharya & Rajendran, 2023; Gaeta, 2020). Through physical activity, families can improve physical health, directly related to a reduced risk

of chronic diseases (Kohli et al., 2021). Furthermore, exercise also contributes to mental health, helping to reduce symptoms of stress, anxiety and depression (Ariyanti et al., 2024). By building stronger social relationships among family members, exercise creates a sense of community and happiness, which are important aspects of psychological well-being (H. C. Y. Ho et al., 2020). Therefore, sport serves as a means to maintain physical health and as a foundation for creating greater resilience and well-being within the family (Oehme & Stern, 2014).

Conducting a systematic review of global trends in family-focused exercise programmes is essential to gain an in-depth and comprehensive understanding of the impact of such programmes on family health and well-being. Systematic reviews allow researchers to objectively collect, evaluate and analyse evidence from multiple sources, providing a clearer picture of the effectiveness of different approaches in family exercise programmes. Comprehensive data allows us to identify patterns, successes, and challenges in programme implementation, which is critical to inform evidence-based decisions.

The review provides valuable insights for future sport programme policy and practice development. By understanding the factors that influence programme success, policymakers can design initiatives that are more effective and responsive to community needs. For example, the review can reveal the specific needs of families across different social and cultural contexts so that policies can be tailored to increase participation and the positive impact of sports programmes. In addition, by highlighting best practices from successful programmes in different countries, the review can guide the development and implementation of more innovative and inclusive programmes worldwide. As such, this systematic review not only provides an understanding of existing trends but also provides a basis for formulating strategic measures that will support the health and well-being of families in the future.

This systematic review explores global trends in family-focused sports programmes and assesses their impact on family health, resilience and well-being. Key questions to be addressed include how exercise programmes can improve the health and well-being of family members and the factors that influence their success across different contexts. The results of this review are expected to provide valuable recommendations for developing more effective family-based sports programmes by highlighting strategies

and best practices from different countries. As such, this research aims to assist policymakers and programme providers in designing interventions that are responsive to the needs of families and provide practical guidance to improve health and well-being across the globe.

#### Methods

# Type of research

Systematic literature review (SLR) is a research method that aims to identify, assess and interpret all studies relevant to a particular research question (Illera-Delgado et al., 2022; Nuñez et al., 2023). This process is conducted systematically to avoid bias and ensure reliable results (Simbolon, 2024). SLR is commonly used in scientific and academic research to summarise the results of previous studies and find patterns, gaps or new directions in a field (Ramos-Álvarez et al., 2024). This study used a systematic literature review approach to search and select relevant literature in several steps. First, we formulated clear research questions about the global trend of exercise programmes for families and their impact on health, resilience and well-being, guiding the literature search. Next, we established inclusion and exclusion criteria to ensure that the selected literature was relevant and of high quality by including studies that addressed exercise programmes, family health and well-being. After collecting the literature, the titles and abstracts were screened to identify studies that met the inclusion criteria, and eligible studies were then fully evaluated to ensure their relevance and methodological quality. The data obtained were organised and synthesised to formulate comprehensive conclusions. The results of this systematic review were reported transparently, following the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines, including flowcharts illustrating the literature selection process and thematic summaries of the findings. With this systematic approach, the study is hoped to provide a comprehensive and in-depth picture of global trends in exercise programmes for families and their impact on health and well-being.

#### Research inclusion and exclusion criteria

In the inclusion and exclusion stage, the researcher made criteria for selecting articles in this study. Table 1 below is the inclusion and exclusion criteria used in this systematic literature review research in the last ten years:

Table 1.
Inclusion and exclusion criteria

| Criterion          | Inclusion  | Exclusion  |  |  |
|--------------------|--|--|--|--|
| Publication Date   | Studies published between 2014 and 2024  | Publications before 2014   |  |  |
| Focus              | Research that explicitly addresses sports programs   | Studies that do not focus on sports programs   |  |  |
| Result             | Studies that assess the impact of family sports programs on physical health, mental health, or family well-being | Studies that do not address Health and well-being outcomes                           |  |  |
| Geographical Scope | Research conducted in various countries to provide a global view   | Studies that focus only on one country or region without a global context            |  |  |
| Published Source   | Only journal articles have gone through a peer-review process  | Studies from non-academic sources, including blogs, opinions, or unpublished reports |  |  |

Using these inclusion and exclusion criteria, it was hoped to curate a pool of relevant and quality literature to provide valuable insights into the impact of family-based exercise programmes on health and well-being in current global trends.

# Screening and eligibility assessment of articles

The literature search for this systematic review was conducted in several leading academic databases, such as PubMed, Scopus, Semantic Scholar and Google Scholar. The search keywords were sports, health, family, AND well-being. The selection included a temporal restriction that only included publications between 2019 and 2024 to ensure the data and findings analysed reflected the latest trends related to the research conducted. In addition, a geographical restriction was applied to include studies from different countries worldwide, allowing for a comprehensive picture of family exercise programme practices and approaches in a global context. With this approach, it was hoped to gather relevant and quality literature to support the analysis of the impact of family-based exercise programmes on health and well-being.

Table 2.
Flowchart of the article search and selection process

| Component      | ent Information Information           |   |  |  |  |
|----------------|---------------------------------------|---|--|--|--|
| Identification |                                       | Data collection from the Scopus database with the keywords sports AND health AND family AND         |  |  |  |
|                |                                       | well-being (N=233)  |  |  |  |
| Screening      | Selected article N=233                | Excluded records  |  |  |  |
| screening      |                                       | (n = 13) type of publication (conference book and book chapter)                                     |  |  |  |
|                | Articles retrieved (n = 216)          | Articles not taken (n = 20) Articles are excluded from the language used other than English         |  |  |  |
|                | Retrieved articles N=189              | Articles excluded years not in the range 2014-2024 ( $n = 34$ )                                     |  |  |  |
|                |                                       | Excluded records  |  |  |  |
|                | Articles rated for analysis N=155     | (n=132) Articles are excluded because they do not meet the criteria of title, abstract and research |  |  |  |
|                | •                                     | keywords  |  |  |  |
| include        | Studies included in the review (n=23) |   |  |  |  |

# Data Analysis

Data from the selected studies were analysed and synthesised using two main software tools, R Studio with the Biblioshiny package and NVivo. The analysis process began with importing the data from the relevant literature into R Studio, where we conducted bibliometric analysis to identify trends, patterns and relationships in the data related to family-based exercise programmes, including the number of publications, leading authors and geographical distribution of studies. After gaining initial insights, we used NVivo for qualitative analysis by coding and categorising information from selected studies based on key themes. The synthesis process was conducted by combining the findings from both analysis methods, where the bibliometric analysis provided quantitative context regarding publication trends. In contrast, the qualitative analysis in NVivo provided indepth insights into the relationship between exercise programmes, family resilience and well-being. This combined approach is expected to answer the research questions comprehensively and thoroughly.

#### Results

# Overview of research results

The results of this study show an increasing trend in research productivity over the period 2014-2024, with an average annual growth of 7.18%. There were 92 authors contributing to 23 research documents, with an average of 4 authors collaborating on each document. Although the number of single authors was only two people, the level of international collaboration was quite high at 13.04%. The study used an average of 111 author keywords (DE) and had an average document age of 3.52 years. Each document was cited an average of 8,696 times, demonstrating the significant impact of this research.



Figure 1. Research data

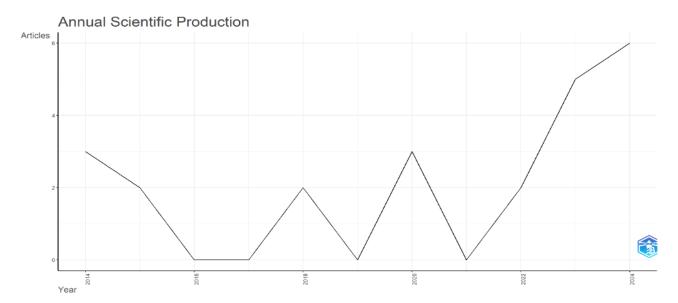


Figure 2. Annual scientific production graph

Based on the Annual Scientific Production graph that displays annual scientific production from 2014 to 2024, there are significant fluctuations in the number of articles produced each year. In 2014, two articles were published, but this number decreased in 2015, with only one article. In the period from 2016 to 2017, no articles were produced at all. 2018 showed a slight increase with two articles

published, but this number dropped back to zero in 2019. 2020 recorded a significant spike with three articles, but this trend did not continue in 2021 when it again showed zero publications. Starting in 2022, the trend of scientific production experienced a steady increase, with one article published that year, followed by four articles in 2023. The peak occurred in 2024, with six articles produced.

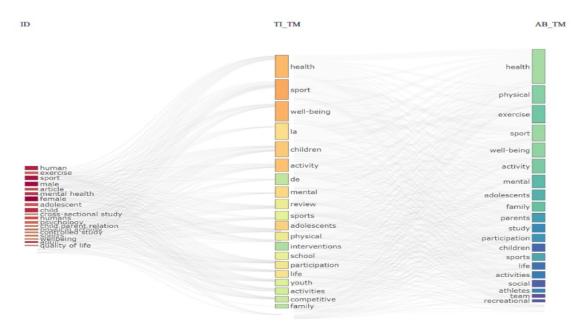


Figure 3. Linkage of research terms

This study identifies the interrelationships between various terms that appear in scientific articles' subjects, titles, and abstracts. Terms such as 'human,' 'exercise,' 'sport,' 'adolescent,' and 'mental health' in the ID column indicate the main topic of the study that is often related to keywords such as 'health,' 'sport,' 'well-being,' 'children,' and 'mental' in the TI\_TM column, as well as words such as 'physical,' 'exercise,' 'sport,' and 'well-being' in the AB\_TM column. The connecting lines show the consistent use of

these terms across different parts of the article; for example, the terms' sport' and 'exercise' repeatedly appear across all three categories. This connection suggests a research focus on health, sport, fitness, and well-being, particularly concerning people, children, and young people. This diagram helps to understand the structure of topics frequently covered in scientific research, emphasising the mental and physical aspects of sporting activity and its impact on well-being.

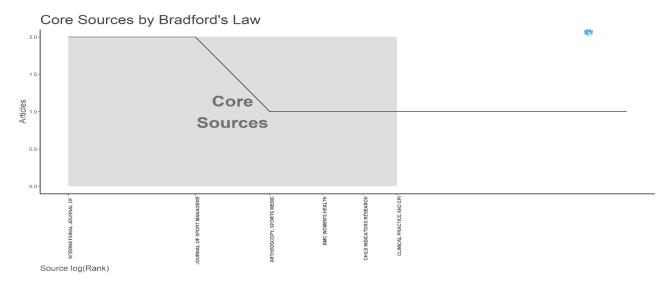


Figure 4. Core sources by Bradford's law

Figure 4 depicts a graph visualising core sources based on Bradford's Law, which shows the distribution of scholarly articles from different sources. The vertical axis shows the number of articles, while the horizontal axis displays the logarithmic rank of the sources. The shaded section with the text 'Core Sources' depicts core sources, meaning they are the most frequently referenced sources in the research. In this graph, core sources include journals such as the International Journal of Environmental Research and Public Health, Journal of Sport Management,

Arthroscopy, Sports Medicine and Rehabilitation, BMC Women's Health, Child Indicators Research, and Clinical Practice and Epidemiology in Mental Health. These journals dominated the number of articles used or cited in the research. This concept is based on Bradford's Law, which states that a small proportion of sources will generate a large proportion of the total references in a given scientific study. This concept suggests that these journals acted as

core sources in this study due to their significant document contributions

Figure 5 shows a graph of resource production or data from 2014-2024, with annual occurrence as the Y-axis and years as the X-axis. Two sources (blue and pink) show a cyclic production pattern, appearing every three years and disappearing in the years in between. The first source (blue) appears in 2015, 2018, 2021, and 2023, while the second (pink) appears in 2014, 2017, 2020, and 2023. The third source (purple), which started appearing in 2022, appears as a new source that does not follow a cyclic pattern. This recurring production pattern may indicate periodic data sources characteristics, such as regularly published publications or research results, while new sources may reflect recent trends or innovations. These patterns can be utilised to predict future trends or explore the causes behind regular cycles.

# Trend differences in terms of authors, countries and affiliations

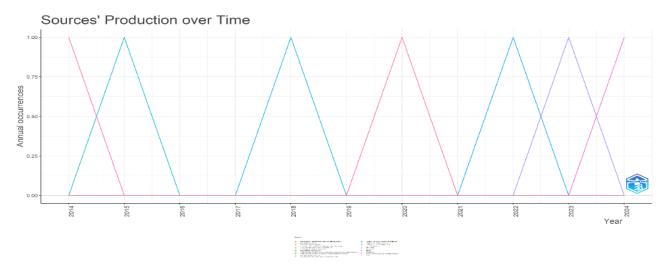


Figure 5. Production over time

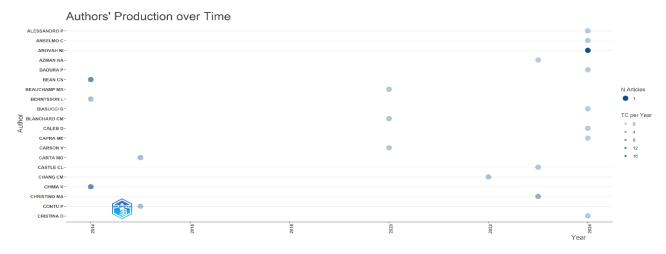


Figure 6. Author production over time

Figure 6 displays a graph of author production over time, with author names on the Y-axis and years on the X-axis. Each dot on the graph represents an article published by a particular author in a particular year, where the size of the dot represents the number of citations per year (TC per Year), and the dot's colour represents the number of articles (N Articles). Some authors, such as Beauchamp MR and Azman NA, showed consistent publication activity, especially in 2023 and 2024, while others, such as Chang CM, only appeared in certain years with limited production. Larger dot sizes for some authors, such as

Beauchamp MR in 2024, indicate their articles received more citations, signalling greater impact. Conversely, smaller dots indicate publications with fewer citations. A trend of increasing publications is seen for most authors in 2023 and 2024, with some darker dots signalling an increase in the number of articles. Overall, this graph shows that some active authors contribute consistently. In contrast, others show more sporadic contributions, giving an idea of their work's impact based on the number of citations received.

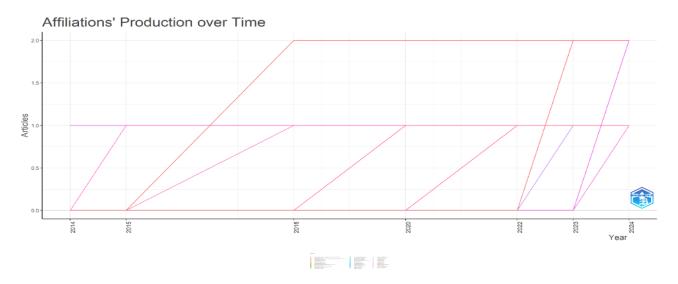


Figure 7. Affiliate production by year

Figure 7, titled 'Affiliate Production Over Time', illustrates the trend of article production by various affiliates from 2014 to 2024. The vertical axis shows the number of articles produced, while the horizontal axis shows the period. From 2014 to 2015, there was an increase in production, as indicated by the pink-coloured line reaching 1 article. However, from 2015 to 2018, this production did not increase. In 2018, the red line started to show an increase to reach two articles, and this figure

remained stable until 2022. The other affiliates marked with purple lines only started producing articles in 2022 but quickly increased sharply until 2023. From 2022, there is more intensive activity across affiliates, with the pink and red lines showing an increase in production to reach two articles in 2024. This trend shows a significant increase in research output in recent years, with more contributions from different affiliates, especially between 2022 and 2024.

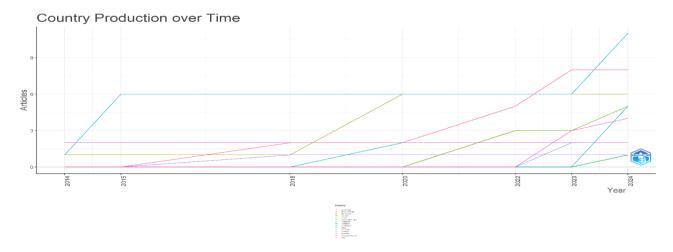


Figure 8. Country Production Over Time

Figure 8, titled 'Country Production Over Time', shows the trend of article production from countries from 2014 to 2024. The vertical axis shows the number of articles produced, while the horizontal axis shows the period from year to year. At the beginning of the period, some countries started article production, with the light blue line reaching three articles in 2015 and remaining stable until around 2021. Other lines, such as pink, yellow and green, show gradually increasing activity after 2020, particularly from 2022 to 2024. These countries show significant production

increases, with some reaching more than four articles by 2024, as seen from the pink and light blue lines. This trend shows that in the earlier timeframe (2014-2021), article production tended to stabilise or stagnate for some countries, but from 2022, there was a rapid increase in research output across countries. This increase reflects countries' more active engagement in academic publishing in recent years, with the highest concentration of article production from 2022 to 2024.

# Global Trends in Sports Programmes

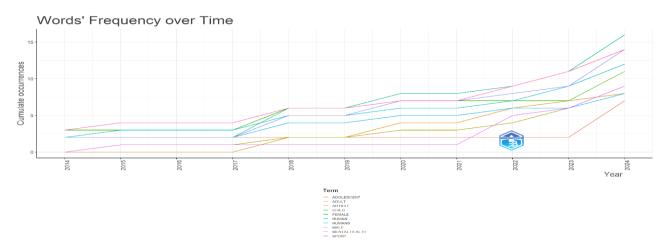


Figure 9. Cumulative frequency of words

Figure 9 shows the cumulative frequency of certain words from 2014 to 2024. The vertical axis (y-axis) depicts the cumulative number of occurrences of those words in the scientific literature. In contrast, the horizontal axis (x-axis) shows the progression from year to year. Each line represents a different term, and the rise of the line indicates an increase in the occurrence of that term over time. Some terms, such as 'adolescent,' 'article,' and 'mental health,' show a sharply increasing trend after 2020, signalling that attention to issues related to mental health and adolescents

has been increasing in recent years. The terms' female,' 'male,' and 'sport' also showed a steady increase, with a slight acceleration after 2020, which may be related to the focus on research related to gender, sports, and physical activity. Meanwhile, other terms such as 'child' and 'adult' saw a more moderate but consistent increase. Overall, this graph emphasises an increasing trend in research related to demographics, mental health and physical activity over the past decade, with an acceleration in the frequency of certain terms, particularly after 2020.

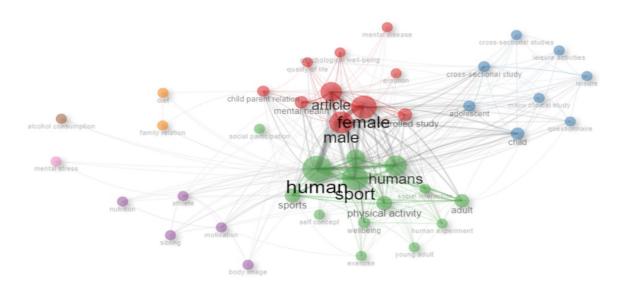
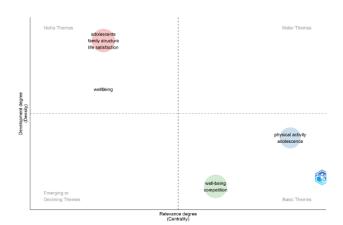


Figure 10. Connections between research topics

Figure 10 depicts a network visualisation showing the connections between topics frequently appearing in the literature related to mental health, physical activity and other variables. Several clusters of topics are shown in different colours. Green clusters highlight terms such as 'human,' 'sport,' 'physical activity,' and 'well-being,' showing the close relationship between physical activity and human well-being. The red cluster includes the terms' female, ''male, ''mental health, 'and 'article, 'which seem to refer to research related to gender and mental health. On the other hand, blue clusters connect topics such as 'crosssectional study,' 'child,' and 'leisure activities,' which illustrate the focus of research on leisure activities and child populations. The connections between these nodes show that many articles focus on the relationship between mental health, physical activity, and demographic factors, such as gender and age, using diverse research methodologies (such as cross-sectional studies). This network structure shows how various psychosocial, physical activity demographic factors are interlinked in the reviewed scientific literature.

Figure 11. a theme diagram classifies various themes based on the degree of development (Density) on the Y-axis and the degree of relevance (Centrality) on the X-axis. This graph is divided into four quadrants: the themes "adolescents," "family structure," and "life satisfaction" are in the Niche Themes quadrant, indicating that these themes are highly developed but have low relevance in the general context. There are no themes in the Motor Themes

quadrant, meaning there are no themes that are highly developed and relevant simultaneously. The theme "wellbeing" is in the Emerging or Declining Themes quadrant, indicating that this theme may be declining in relevance or has not yet fully developed. Meanwhile, the themes "physical activity," "adolescence," and "well-being competition" are in the Basic Themes quadrant, indicating high relevance but still low development. This figure shows that some themes are developing in a particular context, while more relevant themes require further development in research.



 $Figure\ 11.\ Research\ Theme\ Development$ 

# Article analysis

Table 3. Article analysis

| Authors                 | Year | Type of Research  | Subject   | Places and locations | result   | Implication  | Recommendations  |
|-------------------------|------|-------------------|---|----------------------|--|--|--|
| (Capra et al.,<br>2024) | 2024 | Narrative review. | Kids and teenagers<br>who do physical<br>activity, sports | Non-specific         | This study addresses<br>the nutritional needs<br>of active children and<br>adolescents and the | Paediatricians must<br>provide appropriate<br>nutritional counselling to<br>support children and | Counselling should<br>include sports<br>performance, well-<br>being, growth, and |

Table 3. Article analysis

| Article analysis                     |      |  |  |  |  |  |   |
|--------------------------------------|------|--|--|--|--|--|---|
| Authors                              | Year | Type of Research   | Subject  | Places and locations   | result<br>risks of excessive   | Implication adolescents' well-being,   | Recommendations neurocognitive  |
|                                      |      |  |  |  | supplementation and eating disorders.  | growth, and neurodevelopment.  | development of children<br>and adolescents.   |
| (Evseev et al., 2020)                | 2022 | Instrumental case studies.                                     | Identified fans of<br>the women's<br>professional<br>basketball team.    | No specifics   | Studies show<br>participants' meaning<br>in life comes from<br>family relationships,<br>women's sports<br>support, and mental<br>health from team<br>support.            | The study shows that close relationships with family and friends have more effect on social justice and the mental well-being of female sports fans. | It is important to<br>explore the role of social<br>relationships and mental<br>health in sports fandom<br>to enhance the meaning<br>of adult fans' lives.      |
| (Wan Abdul<br>Rahim et al.,<br>2023) | 2023 | Cross-sectional study.   | 137 elderly living<br>in Kedah, Malaysia                                 | Kedah, Malaysia.   | Most of the elderly in<br>Kedah remain active<br>post-pandemic,<br>especially in reading<br>and watching TV,<br>supported by their<br>families.                          | The importance of promoting diverse recreational activities to improve the quality of life of the elderly  | Professionals and caregivers must develop strategies to include recreational activities to support healthy ageing.  |
| (D'anna et al.,<br>2015)             | 2015 | Quantitative research<br>with comparative<br>design.           | Athlete at the<br>Faculty of<br>Education,<br>University of<br>Alicante. | Faculty of Education,<br>University of<br>Alicante.                        | Involvement in<br>competitive sports can<br>improve an<br>individual's self-<br>esteem and<br>performance.   | Competitive sports improve individual self-esteem and performance.   | Encourage competitive sports participation for the development of positive self-esteem in adolescents.  |
| (Suryadi et al., 2024)               | 2024 | Systematic review.   | Physical activity<br>and health of the<br>elderly.                       | The article is taken<br>from ScienceDirect<br>and PubMed<br>databases.     | Twelve weeks of<br>moderate-high<br>exercise improves the<br>physical and cognitive<br>health of the elderly<br>and prevents a decline<br>in physical function.          | The importance of health<br>exercises to improve the<br>quality of life and health<br>of the elderly, as well as<br>reduce social isolation          | Develop strategies with<br>families and health<br>professionals to support<br>older adults' physical<br>activity.   |
| (Grant et al., 2020)                 | 2020 | A randomised<br>controlled trial with a<br>three-group design. | Inactive parents<br>with children<br>under 13.                           | Greater Victoria<br>Province, British<br>Columbia, Canada.                 | Evaluate the impact of<br>sports participation,<br>individuals and teams,<br>on quality of life and<br>relationship<br>satisfaction.                                     | This research can increase<br>exercise participation in<br>adults and support public<br>health initiatives for<br>parents and families.              | programs to encourage   |
| (Chart et al., 2015)                 | 2015 | Systematic review.   | School<br>interventions for<br>youth mental<br>health.                   | Some European<br>countries (based on<br>epidemiological<br>studies).       | Identify evidence of<br>school interventions<br>for mental health,<br>including health<br>programs, mental<br>disorder management,<br>and bullying.                      | The results of this review provide insights for research and interventions in support of mental health policies in European schools.                 | Develop better European policies to support students' mental health and well-being in schools.  |
| (Fang et al., 2024)                  | 2024 | Quantitative research  | impact on well-  | Data was taken from<br>China Family Panel<br>Studies from 2018 to<br>2020. | subjective well-being<br>in the middle class,<br>moderate in the lower   | These findings emphasise<br>the need to consider<br>social stratification in<br>promoting subjective<br>well-being through sport.                    | Develop more effective<br>strategies to improve<br>subjective well-being<br>across different social<br>strata through increased<br>physical participation.      |
| (Misener, 2020)                      | 2020 | Autoethnography.   | Parents' experience supporting children in sports.                       | Community sports environment.  | Parents can improve<br>well-being by<br>participating in<br>physical activity and<br>supporting children.  | These findings emphasise<br>that parental well-being is<br>important in developing<br>children's sports.   |   |
| (Bean et al., 2014)                  | 2014 | Review of studies.   | Negative effects of<br>organised sports<br>on families.                  | Non-specific   | This review identified<br>the negative effects of<br>organised sport on<br>young athletes and<br>their families and<br>proposed a model of<br>participation<br>outcomes. | Exercise has positive<br>benefits, but significant<br>negative impacts must be<br>considered, especially in<br>the family context.                   | Optimise the youth<br>sports experience and<br>family health by<br>developing strategies to<br>minimise the negative<br>impacts of organised<br>sports.         |
| (Berntsson &<br>Ringsberg, 2014)     | 2014 | Correlational studies.   | Activities of<br>parents with their<br>children and<br>children's health | Sweden, using data<br>from the 2011<br>NordChild study.                    | Positive activities for<br>children 2-17 years<br>old: playing,<br>watching, exercising;<br>Negatives: internet<br>and PR.   | Family and home are<br>important environments<br>for children's healthy<br>development.  | There needs to be an increased focus on parental activities that support the child's health and attention to the time pressures that affect their interactions. |
| (Mazzuco &<br>Meggiolaro,<br>2014)   | 2014 | Correlational studies.   | Family structure's influence on adolescent health                        | Italy  | Family structure<br>affects adolescent<br>health through   | A deeper understanding<br>of the interaction of<br>family structure and  | Research is needed to<br>explore the relationship<br>between family structure   |

Table 3. Article analysis

| Article analysis                 | 37   | T (D 1   | 0.1.   | pl 11   | 1.   | Y 15   | D 1.:  |
|----------------------------------|------|--|--|---|--|--|--|
| Authors                          | Year | Type of Research   | Subject<br>in Italy.   | Places and locations  | result<br>parental behaviour and   | Implication factors influencing  | Recommendations and health behaviour.  |
|                                  |      |  | in italy.  |   | the economy.   | adolescent health<br>behaviour is needed.  | and nearth behaviour.  |
| (Pi et al., 2022)                | 2022 | Scale development and validity analysis.                           | 20 Taiwanese<br>adults in<br>recreational<br>sports.                                       | Taiwan.   | Four factors were<br>found on the scale: life<br>satisfaction, physical<br>and mental health,<br>family development,<br>and positive feelings. | The Recreational Sports<br>Well-being Scale can be<br>used to measure the well-<br>being of future<br>participants.  | The use of scale in<br>further research to<br>explore the relationship<br>between recreational<br>sports participation and<br>subjective well-being.                       |
| (Gurko, 2023)                    | 2023 | Longitudinal research  | Teenagers aged<br>14–16 in Moscow.   | Moscow  | life has improved since<br>the 2000s, with more  | Research emphasises the importance of parental communication skills in educating adolescents for psychological well-being.   | More focus should be on<br>family factors,<br>particularly positive<br>communication and<br>emotional support, to<br>enhance adolescents'<br>psychological well-<br>being. |
| (Mann et al.,<br>2018)           | 2018 | Quantitative research  | 13,166 third<br>graders from the<br>1998-1999 Early<br>Childhood<br>Longitudinal<br>Study. | Multiple US locations with demographic and environmental variations.                    | internalising and externalising  | This study highlights the importance of physical activity programs like team sports to improve children's health and wellbeing.                                    | To support their mental<br>and behavioural health,<br>further efforts are<br>needed to create and<br>maintain physical activity<br>programs among school-<br>age children. |
| (Herbert et al., 2020)           | 2020 | Literature review  | The pandemic increased inactivity and mental health issues.                                | German and English.   | Physical activity and<br>regular exercise can<br>protect mental and<br>physical health.  | Support to maintain physical activity during lockdown is important to prevent long-term mental and physical health risks.  | This study recommends<br>exercise interventions<br>focusing on low- to<br>moderate-intensity<br>aerobic exercise for all<br>age groups.                                    |
| (Roessler &<br>Muller, 2018)     | 2018 | Qualitative research   | Female athletes:<br>competitive and<br>recreational<br>groups.                             | Local training centre<br>and Danish Athletics<br>Association.                           |  | Biography and<br>environment influence an<br>athlete's experience,<br>while sports culture is<br>important for physical<br>activity and competition.               | Further research is<br>needed to uncover<br>conflicts and<br>relationships in sports<br>culture to improve<br>female athletes' physical<br>well-being.                     |
| (Lodovica et al., 2024)          | 2024 | Quantitative with survey design.                                   | Two thousand<br>eight hundred<br>nineteen high<br>school students in<br>Italy (951 males). | Schools in Italy.   | Physical activity<br>generally improves<br>Health-Related<br>Quality of Life<br>(HRQoL).   |  | It is important to<br>implement strategies<br>that promote sports<br>practice to improve<br>adolescents' physical and<br>mental health and quality<br>of life.             |
| (Mhaka-Mutepfa<br>et al., 2024a) | 2024 | Quantitative with cross-<br>sectional design.                      | 422 people from<br>Botswana.   | Botswana, with data collected online.   | Significant differences<br>in well-being, QOR,<br>and loneliness existed<br>between before and<br>during COVID-19.                             | The results show the importance of considering the variables predictors of well-being and loneliness to reduce the impact of the pandemic.                         | •  |
| (Sutcliffe et al., 2023)         | 2023 | Automatic, descriptive thematic analysis.                          | Eighteen parents<br>(12 mothers, six<br>fathers) in<br>Australia.                          | Australia, through semi-structured interviews.  | Five themes of<br>parental mental health<br>in adolescent sports:<br>unity, conflict,<br>balance, emotion, and<br>improvement.                 | Positive and negative experiences related to the mental health of parents.   | Design a youth sports<br>program that involves all<br>stakeholders, including<br>parents.  |
| (Castle et al., 2023)            | 2023 | Descriptive survey.  |  | Preparatory camp in<br>the UK, ahead of the<br>2022 Warrior<br>Games.                   | Family is the main support, while motivation comes   | Providing insight into the participants' health and well-being and the event's important role in achieving collective goals amid Ukraine's unique situation.       | Focus on emotional support and program development that considers veterans' needs.   |
| (van Niekerk et al., 2023)       | 2023 | Expert opinion.  | Female athletes  | Not specific.   | Female athletes face<br>unique stresses that<br>impact mental health<br>and injury recovery.   | Orthopaedic surgeons<br>need to understand the<br>psychological aspects that<br>affect female athletes in<br>order to provide better<br>support in their recovery. | Integrate questions<br>about the psychological<br>well-being of female<br>athletes in routine<br>practice and work<br>closely with<br>multidisciplinary teams.             |
| (Badura et al.,<br>2024)         | 2024 | Quantitative research<br>with multivariate<br>regression analysis. | Teenagers aged<br>11-15 years.   | Czech data from the<br>2021/2022 Health<br>Behaviour in School-<br>aged Children study. | . ` '  | The pleasure of<br>participating in OLTAs is<br>essential for adolescent<br>mental health, while   | Encourage adolescents  |

Table 3. Article analysis

| The create distally bits |      |                  |         |                      |             |                            |                 |
|--------------------------|------|------------------|---------|----------------------|-------------|----------------------------|-----------------|
| Authors                  | Year | Type of Research | Subject | Places and locations | result      | Implication                | Recommendations |
|                          |      |                  |         |                      | well-being. | obligations have a smaller | well-being.     |
|                          |      |                  |         |                      |             | impact.                    |                 |

The above studies provide valuable insights into the influence of physical activity and social relationships on individuals' physical, mental and well-being across age groups and conditions. For example, a study Capra et al., 2024 highlighted the importance of proper nutrition for physically active children and adolescents to support their development. Meanwhile, Delia et al., 2022 showed that being a sports fan, especially a female sports team, can provide meaning in life through social relationships and family support, which are important for fans' mental wellbeing. Wan Abdul Rahim et al., 2023 Also found that participating in recreational activities such as reading or watching TV, supported by family, helped maintain the quality of life of older adults in Kedah, Malaysia, post-pandemic.

The implications of these studies suggest that physical activity and social support are important for physical health and play a role in mental and social well-being. Comprehensive nutritional counselling is crucial for children and adolescents to support growth and sports performance. In contrast, for sports fans, social relationships with family and friends have a significant impact on their mental health. In older adults, the promotion of diverse recreational activities is needed to ensure optimal physical and mental well-being, especially after periods of social isolation during the pandemic. Recommendations from these studies include developing better intervention programs to support mental, physical, and social health across groups. For children and adolescents who participate in sports, a holistic approach that includes nutritional counselling and attention to the risk of eating disorders is needed. In older adults, healthcare providers and caregivers are advised to encourage participation in physical activity that is appropriate for their condition to support healthy ageing. In addition, it is important to explore the role of social connections in sports fandom and its impact on mental well-being.

#### Discussion

Exercise, health, and family well-being are closely related to shaping a better quality of life for each family member (Castle et al., 2023). Physical activity not only serves to improve physical health but also provides significant mental and emotional benefits (Wang et al., 2022). Families who exercise together tend to have stronger social bonds, which can improve communication, trust, and support among family members. In addition, exercise acts as a medium to reduce stress and improve mood, thereby creating a positive environment at home. Given the importance of exercise in the context of family health and well-being, efforts to promote physical activity as part of daily routines become increasingly crucial, not

only for individual well-being but also for strengthening the resilience and happiness of the family as a whole (Mhaka-Mutepfa et al., 2024b).

The literature analysis shows a significant relationship between exercise, health, and family well-being. Exercise, especially in a family context, is beneficial for the physical and mental health of individuals and plays an important role in strengthening the emotional and social resilience of families. A study by (Delia et al., 2022) shows how being a sports fan can improve mental health through the formation of meaning in life and social relationships, including in the family environment. This study shows that sports serve as a medium that not only improves individual well-being but also strengthens social bonds within the family.

In the context of family resilience, sports serve as a means to strengthen emotional bonds between family members. Physical activity carried out together between parents and children plays a role in improving the emotional well-being of the family as a whole. Research Berntsson & Ringsberg, 2014 emphasises that physical activity with parents and children is important for developing children's health and contributes to the family's emotional stability. Result Misener, 2020 it also shows how parental involvement in their children's sports activities improves family well-being and stability. This research strengthens the argument that sports provide physical and psychological benefits in the form of joint family participation. However, integrating sports programs into family routines faces several challenges. One of the main challenges is the lack of time due to competing priorities between work, household responsibilities, and limited access to family-friendly sports facilities. Result Grant et al., 2020 highlight the difficulties experienced by parents with young children in finding time to participate in sports activities, emphasising that sports programs need to be more flexible and accessible to overcome this obstacle. The development of inclusive and affordable sports facilities and programs can be a solution to increase family involvement in physical activity.

Globally, the trend of sport and well-being has gained greater attention, especially after the COVID-19 pandemic, which highlighted the importance of physical activity in maintaining physical and mental health. A study by Fang et al., 2024 showed the positive impact of sport on subjective well-being, especially in the middle social class. The global implication of this trend is the need to develop more inclusive and diverse interventions to ensure sport participation across all levels of society. This implication highlights the importance of equal access to sports programs for families from different economic and social backgrounds.

The implications of the discussion on the relationship between sport, health and family well-being include several important aspects that need to be considered by

policymakers and the public. First, a more holistic family health policy is needed that encourages family participation in physical activity, considering that the benefits of sports are not only limited to physical health but also strengthen social and emotional bonds between family members. Therefore, family sports programs must be designed to be affordable, flexible and easily accessible to all levels of society. In addition, inclusive and flexible sports programs must consider time constraints and family responsibilities, especially for those with busy jobs. For example, providing open sports facilities after work hours and physical activities involving all family members would be very beneficial. Raising awareness of the social and emotional benefits of sports also needs to be increased so that the public understands that sport is not only for physical health but also for strengthening family relationships and improving mental and emotional well-being.

Furthermore, policies that support work-life balance, including incentives from the workplace for participation in physical activity, are needed. Facilities such as childcare at sports centres will also help parents who want to exercise without being burdened by caregiving responsibilities. More inclusive sports interventions are also important, particularly to reach families from low socio-economic backgrounds by providing easier and more affordable access to sports. It is also important to balance the benefits of sport with the potential negative impacts on mental health, particularly in organised sports, so that sport does not become a source of stress for families. Further research is also needed to better understand the impact of sport on family well-being across different social, cultural and economic contexts. Technology can also play an important role in facilitating family participation in sports, for example, through apps or online programs that make sports activities more flexible and accessible.

Overall, sport has a significant role in improving families' physical, mental and social well-being. However, this requires support from inclusive policies, flexible approaches and interventions that consider the needs and challenges faced by families society. Recommendations for future research include exploring more deeply how sports programs can be made accessible to families across society. In addition, there is a need to pay more attention to the potential negative impacts of organised sports involvement on family mental health and well-being, as noted by (Bean et al., 2014; Latif et al., 2024; Wicker et al., 2020). Research should also focus on developing public health policies that holistically support family physical participation, taking into account family members' psychological and physical well-being.

# Conclusions

The conclusions of this study confirm that sport plays a central role in improving family health and well-being. Through physical activity together, families can strengthen emotional bonds, improve communication, and create a positive environment. Research shows that parental involvement in their children's sports contributes to children's emotional stability and health, improving overall family well-being. However, challenges in integrating sport into family routines, such as time constraints and access to family-friendly facilities, must be addressed through more inclusive policies and accessible programs. Globally, there is increasing attention to sports and family well-being, especially following the COVID-19 pandemic, highlighting the importance of physical activity for mental and physical health. There is an urgent need to develop more inclusive and diverse interventions to enable all segments of society to participate in sports. Policies that support work-life balance, as well as facilities that are accessible to all family members, are essential to encourage participation in physical activity. Further research is needed to better understand the impact of sport on family well-being and address the potential negative impacts of organised sport. With the right approach, sports can be an effective tool in building family health and resilience.

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