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## Analisis Bibliometrik: Mengeksplorasi Potensi Pengembangan Keterampilan Sosial Siswa Melalui Hoki

Muh. Aswar<sup>1\*</sup>, Syaipul Hari Baharuddin<sup>2</sup>, Herdiansyah<sup>3</sup>, Daniel Assetiawan Iriana<sup>4</sup>

<sup>1234</sup>Department of Sports Education, Postgraduate Program, Universitas Pendidikan Indonesia, Indonesia

Email: [aswar6442@upi.edu](mailto:aswar6442@upi.edu)

### Abstrak

Mengembangkan keterampilan sosial pada siswa merupakan aspek penting dari pendidikan holistik. Penelitian ini bertujuan untuk menggali potensi hoki dalam mengembangkan keterampilan sosial siswa melalui analisis bibliometrik. Oleh karena itu, penelitian ini menggunakan metode analisis bibliometrik untuk mengeksplorasi tren publikasi terkait potensi pengembangan keterampilan sosial siswa melalui hoki dari tahun 2014 hingga 2024. Analisis ini menggunakan perangkat lunak VOSviewer dan aplikasi analisis bibliometrik biblioshiny untuk menganalisis data bibliografi. Sebanyak 67 dokumen diperoleh dari database Scopus 68 artikel dan dianalisis setelah proses penyaringan. Hasil analisis menunjukkan peningkatan minat penelitian dalam mengeksplorasi hubungan antara hoki dan pengembangan keterampilan sosial, seperti kerja tim, komunikasi, kepemimpinan, dan manajemen konflik. Temuan ini mengungkapkan bahwa olahraga hoki memiliki potensi yang signifikan untuk memfasilitasi pengembangan keterampilan sosial siswa melalui dinamika permainan yang melibatkan interaksi tim, strategi, dan resolusi konflik. Penelitian ini berkontribusi pada pemahaman yang lebih dalam tentang manfaat hoki dalam konteks pendidikan dan menyoroti potensinya sebagai alat pendukung dalam mengembangkan keterampilan sosial siswa secara holistik.

**Kata Kunci:** Analisis bibliometrik, Keterampilan sosial, Hoki, Olahraga

### *Bibliometric Analysis: Exploring The Potential Of Student Social Skills Development Through Hockey*

#### Abstract

*Developing social skills in students is an important aspect of holistic education. This study aims to explore the potential of hockey in developing students' social skills through bibliometric analysis. Therefore, this study uses bibliometric analysis methods to explore publication trends related to the potential development of students' social skills through hockey from 2014 to 2024. Analisis ini menggunakan perangkat lunak VOSviewer dan aplikasi analisis bibliometrik biblioshiny untuk menganalisis data bibliografi. Sebanyak 67 dokumen diperoleh dari database Scopus 68 artikel dan dianalisis setelah proses penyaringan. The analysis results showed increased research interest in exploring the relationship between hockey and the development of social skills, such as teamwork, communication, leadership, and conflict management. These findings reveal that the sport of hockey has significant potential to facilitate the development of students' social skills through game dynamics involving team interaction, strategy, and conflict resolution. This research contributes to a deeper understanding of the benefits of hockey in educational contexts and menyoroti potensinya sebagai alat pendukung dalam mengembangkan keterampilan sosial siswa secara holistik.*

*Keywords: Bibliometric analysis, Social skills, Hockey, Sports*

## PENDAHULUAN

Dalam beberapa tahun terakhir, minat untuk menelusuri manfaat olahraga, khususnya hoki, dalam pembentukan keterampilan sosial siswa semakin meningkat. Sejalan dengan tuntutan pendidikan holistik, sekolah mulai memberi perhatian pada kegiatan ekstrakurikuler yang dapat mendukung pembentukan karakter dan interaksi sosial peserta didik. Namun, meskipun sejumlah penelitian telah membahas hubungan antara olahraga dan pengembangan keterampilan sosial, pemetaan menyeluruh mengenai perkembangan riset terkait hoki masih terbatas. Oleh karena itu, analisis bibliometrik diperlukan untuk mengidentifikasi kecenderungan publikasi, topik dominan, serta celah penelitian yang belum banyak dieksplorasi.

In recent years, there has been an increase in interest in understanding the potential benefits of hockey in developing important social skills in students (mardianto et al., 2024). As academic institutions increasingly emphasize holistic education, the role of extracurricular activities in developing well-rounded individuals has received significant attention. Bibliometric analysis, a powerful tool for the quantitative assessment of scientific literature, offers a systematic approach to exploring the existing body of knowledge on this topic. Fokus studi ini adalah pada potensi pengembangan keterampilan sosial siswa secara **holistik** pada berbagai jenjang pendidikan melalui partisipasi dalam olahraga hoki, sebagaimana terefleksi dalam literatur ilmiah yang ada.

This study aims to conduct a comprehensive bibliometric analysis of research articles that focus on the relationship between hockey participation and social skills development in students. By examining publication trends, influential authors, citation patterns, and thematic groups, this analysis seeks to uncover valuable insights and highlight potential research gaps. The findings of this study can inform educational policies, curricular decisions, and extracurricular program design, which ultimately contribute to the holistic development of students through the integration of sports and the development of social skills. To achieve this overarching goal, we have formulated a series of research questions that will guide our investigation:

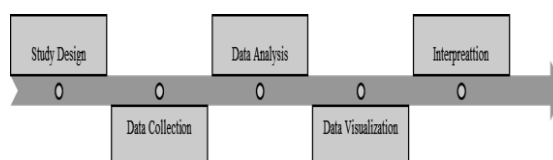
1. How have scientific publications related to the development of students' social skills through hockey in recent years?
2. Who are the authors, institutions, and countries that have contributed the most to the study of developing students' social skills through hockey?
3. What are the keywords or topics that most often appear in publications related to the development of students' social skills through the sport of hockey?
4. What are the potentials and challenges faced in developing students' social skills through hockey based on findings from bibliometric analysis?

## METODE

### 1. Data Source

A structured literature review is an important instrument for identifying gaps in knowledge as well as research needs (García-Peñalvo, 2022). When conducting a bibliometric review, it is important to accurately outline the scope of the research and describe the methods used to monitor related sources. The current investigation extracts bibliometric information from the Scopus database, which is known for its wide range of scientific journal articles, including abstracts and citations (Kussainova et al., 2024). Traditionally, Scopus and Web of Science are the two most commonly used databases for bibliometric analysis (Singh et al., 2021). Bibliometric analysis techniques were used to compact bibliographic datasets. This approach reveals structural, social, and author

networks, along with the analytical focus that prevails within a specific research domain. (Alsolbi et al., 2022; Donthu et al., 2021; Öztürk et al., 2024). Through the examination of citation patterns, publication trends, and co-authoring networks, bibliometric analysis offers valuable insights into the landscape of research and knowledge dissemination (José de Oliveira et al., 2019). It helps in finding lead authors, important papers, and new research directions, as well as areas of literature that require further study (Alsolbi et al., 2022). In addition, bibliometric analysis can evaluate the influence and prominence of research by analyzing the number of citations and publication metrics. It helps in assessing authors, institutions, and funding bodies (Alsolbi et al., 2022). Figure 1 illustrates the implementation of these five steps, emphasizing the bibliometric method.



**Figure 1.** *Bibliometric methodology*

## 2. Study Design

The study begins by formulating a research question and selecting relevant keywords and databases. The study focuses on six key aspects: annual publication trends, source of origin of documents, subject areas, and contributions by country; affiliation of the institution where the authors reside; authors who are prominent in this field; contributions from researchers affiliated with institutions in Indonesia; the most referenced and cited articles; as well as potential future research directions that can be identified based on the findings of the study.

## 3. Data Analysis

The data analysis process begins by importing CSV and RIS data files obtained from the Scopus database into the VOSviewer software. This stage is crucial to facilitate further data manipulation and processing. This analysis aims to uncover trends and patterns, such as publication characteristics, document origin, country affiliation, institutional distribution, subject category details, as well as prominent authors and citations. The data was carefully examined and thoroughly examined to gain a deeper understanding of the relevant research landscape, with a particular focus on the period from 2014 to 2024.

## 4. Data Visualization

After data processing and analysis, the next stage involves data visualization. Visualization is done by utilizing VOSviewer and Microsoft Excel. With VOSviewer, the processed RIS metadata is converted into visualizations of networks, overlays, and densities. Meanwhile, Microsoft Excel is used to present data in tables and diagrams, which aims to provide an easier and more understandable overview of the identified research patterns.

## 5. Interpretation

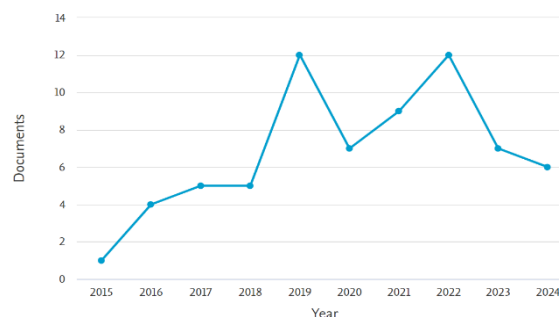
In the end, the data visualized through VOSviewer undergoes additional analysis and interpretation. This process entails examining the number of clusters formed, mapping past and recent studies, and examining densities to uncover insights into saturation levels and potential future research paths. Diligent interpretation of these visualization results is essential for extracting deep insights into research patterns and trajectories in the field.

# RESULT AND DISCUSSION

## RESULTS

The pattern of publication output over 10 years (2015-2024), as shown by the Scopus database, reveals significant fluctuations. In particular, analytical trends regarding

the Potential for Student Social Skills Development Through Hockey across different disciplines show variation over this time frame. This is evidenced by an increase in the number of publications in 2016, 2017, 2018, and 2019, with 4, 5, 5, and 12 publications, respectively. In 2021 and 2022 with 8 and 12 publications, respectively, followed by a decrease in 2020, 2023, and 2024 with 7, 7, and 6 publications. Figure 2 illustrates the annual publication trend.



*Figure 2. Dokument by Year*

### 1. Main Source Document

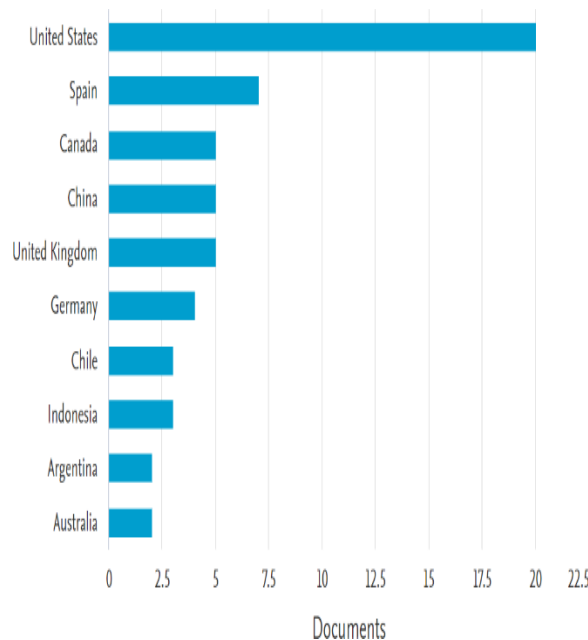
The articles are sourced from academic journals, focusing on examining the Potential of Student Social Skills Development Through Hockey in various disciplines such as environmental science, engineering, energy, and social sciences. Table 1 shows the ten most productive journals publishing articles on the Potential Development of Students' Social Skills Through Hockey. Table 1. Distribution of documents by relevant sources from 2015-2024.

*Table 1. Main Source Dokument*

Sources	Arti Cles	SJR INDEX (SCIMAGOJ R 2022)
FRONTIERS IN PSYCHOLOGY	5	0.8 (Q2)
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	3	0.81 (Q2)
PLoS ONE	3	0.84 (Q1)
HELIYON	2	0.62 (Q1)
INTERNATIONAL JOURNAL OF SOCIAL ROBOTICS	2	1.16 (Q1)
INTERNATIONAL JOURNAL OF SPORT AND EXERCISE PSYCHOLOGY	2	0.94 (Q2)
PHYSICAL EDUCATION THEORY AND METHODOLOGY	2	0.28 (Q3)
SPORT MANAGEMENT REVIEW	2	1.43 (Q1)
SPORT, EDUCATION AND SOCIETY	2	1.06 (Q1)
AMERICAN JOURNAL OF LIFESTYLE MEDICINE	1	0.56 (Q2)

### 2. Top Publications by Country

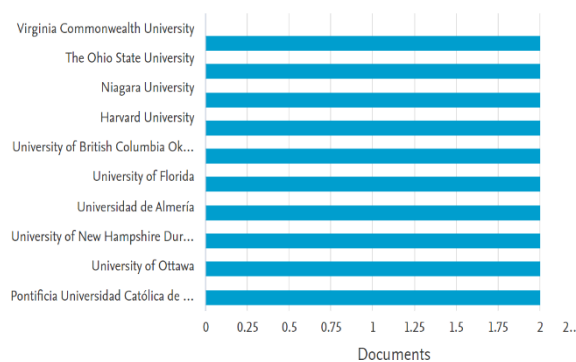
According to the country categorization, 68 documents were distributed among different countries, with the majority coming from the United States, Spain, Canada, China, and Germany, with 20, 6, 5, 5, and 3 documents respectively. Followed by Chile, and Indonesia with >2.5 documents each, Argentina and Australia with >1 document each. Figure 3 provides a visual representation of the top 10 countries that contributed to the publication on the Potential of Developing Students' Social Skills Through Hockey.



**Figure 3. Document By Year**

### 3. University Affiliation

Figure 4 depicts the distribution of the top 10 university affiliates, highlighting their analytical focus on the Potential of Developing Students' Social Skills Through Hockey. The distribution of publications comes from various university affiliations, namely:

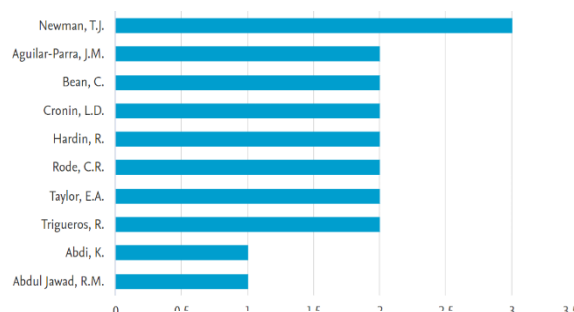


**Figure 4. Most relevant Affiliation**

Virginia Commonwealth University, The Ohio State University, Niagara University, Harvard University, University of British Columbia Okanagan, University of Florida, Universidad de Almería, University of New Hampshire Durham, University of Ottawa, Pontificia Universidad Católica de Chile, with each contributing as many as 2 documents.

#### 4. Top 10 Authors

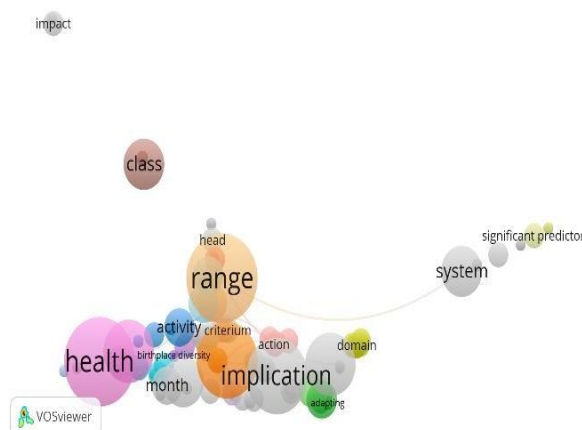
Among the most significant authors in this field, NEWMAN TJ, is in first place by contributing as many as 3 documents. Then followed by AGUILAR-PARRA JM, BEAN C, CRONIN LD, HARDIN R, RODE CR, TAYLOR EA, TRIGUEROS R, ABDI K, and ABDULJAWAD RM with 2 documents each.



**Figure 5.** Top 10 Authors

#### 5. Mapping of the Potential of Developing Students' Social Skills Through Hockey

The classification of research subjects related to the Potential Development of Students' Social Skills Through Hockey deserves attention, with a minimum of 603 keywords identified. In this context, the red, green, blue, and yellow clusters prioritize social skills and Hockey. Based on these results, larger circles indicate a higher frequency of keywords in the document. Figure 5 shows a network visualization using VOSviewer, highlighting the most frequently popped up keywords and networks.



**Figure 6.** Mapping of the Potential of Developing Students' Social Skills Through Hockey

#### 6. Document Citation

According to data taken from Scopus, the top 8 most frequently cited documents per year are as follows: NEWMAN TJ leads the list with a total number of citations (TCs) of 32, 20, and 6, followed by TRIGUEROS R and AGUILAR-PARRA JM with TC 17 each. BEAN C research ranks third with TC 11 and 8.

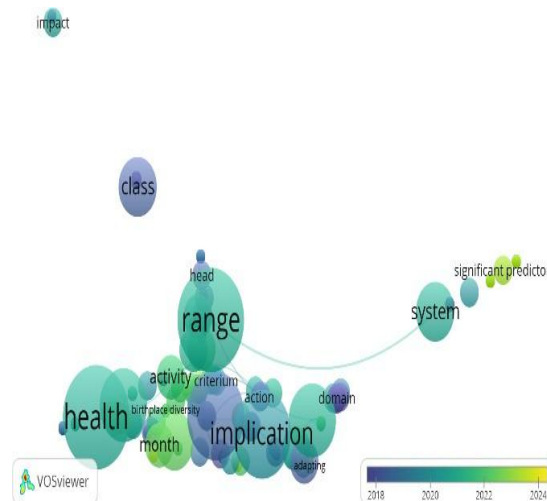
Table 2. Top 8 Document Citation

Author/ Year	Title	DOI	Total Citation	TC/Year
(Newman et al., 2021)	Advancing Positive Youth Development- Focused Coach Education: Contextual Factors Of Youth Sport And Youth Sport Leader Perceptions	<a href="https://doi.org/10.1080/08023750472.2020.1766760">https://doi.org/10.1080/08023750472.2020.1766760</a>	20	5.000
(Newman, 2020)	Life Skill Development And Transfer: “They’re Not Just Meant For Playing Sports	<a href="https://doi.org/10.1177/1049731520903427">https://doi.org/10.1177/1049731520903427</a>	32	6.400
(Newman et al., 2019)	Developing Sport Team Captains As Formal Leaders	<a href="https://doi.org/10.1080/08021520704.2019.1604590">https://doi.org/10.1080/08021520704.2019.1604590</a>	6	1000
(Zheng et al., 2023)	Perceptions Of The Motivational Climate, Basic Psychological Needs, And Life Skills Development In Chinese Physical Education Students	<a href="https://doi.org/10.3389/fpsyg.2023.1232849">https://doi.org/10.3389/fpsyg.2023.1232849</a>	1	0.500
(Bean et al., 2021)	Understanding The Relationships Between Programme Quality, Psychological Needs Satisfaction, And Mental Well-Being In Competitive Youth Sport	<a href="https://doi.org/10.1080/0801612197X.2019.1655774">https://doi.org/10.1080/0801612197X.2019.1655774</a>	11	2.750
(Trigueros et al., 2020)	The Influence Of The Trainer’s Social Behaviors On The Resilience, Anxiety, Stress, Depression And Eating Habits Of Athletes	<a href="https://doi.org/10.3390/nu12082405">https://doi.org/10.3390/nu12082405</a>	16	3.200
(Kramers et al., 2020)	Examining Program Quality In A National Junior Golf Development Program	<a href="https://doi.org/10.1123/iscj.2019-0025">https://doi.org/10.1123/iscj.2019-0025</a>	8	1.600
(Navarro et al., 2020)	Adaptation And Validation Of The Prosocial And Antisocial Behavior Scale In Sports For The Spanish Context	<a href="https://doi.org/10.3390/su12072859">https://doi.org/10.3390/su12072859</a>	1	0.200

## 7. Overlay Visualization

The overlay visualization is represented by colors that signal the annual trend in the experiment, where yellow, green, and purple highlight the latest investigation and analysis of the potential for developing students' social skills through hockey. This latest trend centers around terms such as retrospective studies, athletic injuries, cross-sectional studies, incidents, sports injuries, left ventricular ejection of the heart, headaches,

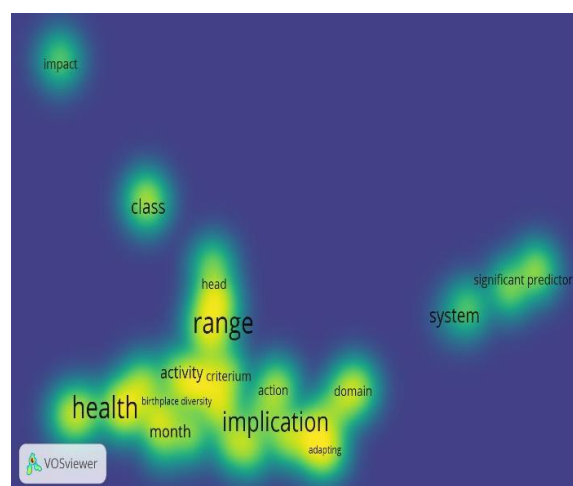
transthoracic echocardiography, and outcome assessment. The visualization of the co-occurrence overlay is shown in Figure 7.



**Figure 7.** *Overlay Visualization*

#### 8. Density Visualization

Density visualization plays a crucial role in assessing the concentration of a topic, where red, blue, yellow, and green colors each indicate unexplored, rarely studied, and highly researched areas. Brighter colors in the images signify the use of the analyzed terms more often in the relevant study. In addition, the distribution of keyword density describes the frequency of the research topic (Hoang et al., 2020). For example, social and human skills are often examined analytically, while terms related to athletic performance are less commonly studied. Figure 8 illustrates the visualization of decision-making density and problem-solving skills based on the keyword index.



**Figure 8.** *Density Visualization*

## DISCUSSION

The utilization of VOSviewer for bibliometric analysis has proven to be an invaluable tool for exploring research trends and contributions in the field of Potential Development of Students' Social Skills Through Hockey. This approach allows us to delve deeper into understanding the evolution of publication productivity over the last decade,

from 2015 to 2024. Through this analysis, important fluctuations in the number of publications from year to year become apparent. Certain years show an increase in publication productivity, especially observed during the periods 2016, 2017, 2018, and 2019. This increase may signal an increased interest and emphasis of research on the Potential Development of Students' Social Skills Through Hockey during the interval. Factors such as the development of new technologies or emerging environmental issues can contribute to increased research activity in these domains. However, there was also a decrease in the number of publications recorded in 2020, 2023, 2024. While this decline may seem unexpected, it's important to note that this dataset only covers the early months of 2024. Therefore, this decline may reflect the trend at the beginning of the year and may not accurately represent the overall publication trajectory for the year. It is crucial to research these trends more comprehensively and gather additional data to ascertain whether this decline is long-lasting or temporary.

In addition, bibliometric analysis allows us to explore the contributions of different countries and institutions in this area of research. By identifying leading countries and academic institutions, we gain insight into the dynamics of international collaboration and knowledge dissemination among the research community. In essence, bibliometric analysis using VOSviewer offers a comprehensive overview of research trends and contributions in analyzing the Potential of Developing Students' Social Skills Through Hockey. It aids in understanding the evolution of research in this field over time and provides valuable guidance for future research planning and identifying areas that require further investigation. Notably, the main sources of documents are mostly from scientific journals, indicating a strong scientific basis for research in this domain. These journals cover fields such as environmental science, engineering, and energy. Table 2, which outlines the top ten sources, offers a clear representation of the contribution of these journals to advancing knowledge in analyzing the Potential of Developing Students' Social Skills Through Hockey.

In addition, an examination by field of study reveals that this research is widespread across various disciplines, covering fields such as social sciences. This shows that the Potential for Developing Students' Social Skills Through Hockey is a prominent area of interest in various fields. Visualizing the distribution of documents by field of study offers a nuanced perspective of the dissemination of research across various disciplines. In particular, when researching the contributions by specific countries, it becomes clear that countries in America and Spain have made a major contribution to the study. This underscores the importance of the potential for the development of students' social skills through hockey in the region.

In terms of university affiliation, we observed significant participation of institutions in different countries in this study. Many leading universities from these countries are actively contributing to publications regarding the Potential of Developing Students' Social Skills Through Hockey. A table detailing the affiliations of leading universities offers a more comprehensive understanding of the involvement of these institutions in this study. It is clear that collaborative efforts that include countries and institutions greatly encourage the advancement of knowledge in this area. In addition, important contributions are also observed from top authors in the field. Authors from different countries such as the United States, Spain, and Canada are actively involved in research related to the Potential Development of Students' Social Skills Through Hockey. The visual representation provided by the graph underscores the substantial contribution of these authors to the advancement of knowledge in this domain. The analysis also underscores the importance of the most frequently cited publications, demonstrating the

broad influence of specific research in this area. Several researchers and authors played an important role in shaping the trajectory and progress of this research.

VOSviewer network visualization is a very useful tool in understanding the structure and relationships between the keywords that appear most frequently in research. Using cluster analysis techniques, VOSviewer helps us identify groups of keywords that often appear together in literature. It provides valuable insights into the key focuses and research trends in the field of Potential Student Social Skills Development Through Hockey. Overlay and density visualizations also provide additional information about experimental trends and ongoing research focuses. By using different colors to highlight annual trends and density levels, we can see how research interests are evolving over time and where research centers are located. For example, an increase in yellow color may indicate an increase in interest in a particular topic in recent research.

Meanwhile, the blue color may indicate that the topic is poorly studied. This information is crucial for planning future research. By understanding existing research trends and focuses, researchers can identify areas and areas studied extensively that require further attention. For example, if we see that there is a group of keywords that are underexplored, this can provide an opportunity for researchers to further explore these topics and make meaningful contributions to the scientific literature. Thus, the visualization of networks, overlays, and densities provides a holistic view of research trends and directions in the field of Potential Development of Students' Social Skills Through Hockey.

## CONCLUSIONS AND SUGGESTIONS

The utilization of VOSviewer for bibliometric analysis has emerged as a very useful tool to explore research trends and contributions in the impact domain of the Potential Development of Students' Social Skills Through Hockey. This analysis facilitates a deeper understanding of how publication productivity has evolved over the past decade, from 2015 to 2024, revealing noticeable fluctuations in the number of publications from year to year. While certain years showed an increase in publication productivity, mainly observed during the 2016, 2017, 2018, and 2019 periods, a decline was observed in 2019 and 2020, 2023, 2024. However, it is important to note that this data set only covers the early months of 2024, suggesting that this decline may reflect trends at the beginning of the year and may not accurately represent the overall publication trajectory for the year.

In addition, bibliometric analysis allows for the examination of contributions from different countries and institutions in this study, underscoring the important role of cross-country and cross-agency collaboration in advancing knowledge in this domain. Additionally, this analysis identifies contributions from top authors and the most frequently cited publications, offering insight into the structure and relationships between the most frequently occurring keywords in the literature. Such insights help in planning future research efforts by understanding existing trends and focal points. Thus, the bibliometric analysis utilizing VOSviewer offers a comprehensive overview of research trends and contributions in the field of analysis Potential for Student Social Skills Development Through Hockey, providing valuable insights for future research planning and pinpointing areas that require further attention.

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