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AN OVERVIEW OF PHYSICAL ACTIVITY IN ELEMENTARY SCHOOL A BIBLIOMETRIC ANALYSIS

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Abstract. Background: The study purpose was Our reviews make some unique contributions. First, we identify authors whose publications can serve as benchmarks for the future of researchers, geographic coverage of "physical activity" issues AND "element school", and the most relevant journals cited papers. Materials and methods Research using bibliometric analysis methods on physical activities in elementary schools has never been conducted, especially in Accredited International journals. This study evaluated the pattern and development of physical activity in elementary schools in 2013-2021. Materials and methods. This study used bibliometric analysis and similarity visualization using the VOS- Viewer application for graphical conception of bibliographic very such as keywords and co-authoring. In addition, this study will also evaluate, author country organizations, developments in various countries, the most prolific authors, the most cited citations, and the level of author collaboration. Results. The results showed "physical activity" AND "element school" has grown significantly demonstrated a considerable increase in publications on "physical activity" AND "elementary school" over the previous nine years. Many publications in the globe with primary authors and research institutes participating are from the United States, which is the world leader in the study of physical activity in elementary schools. Conclusions: The Journal of School Health is a prestigious journal. According to a keyword analysis, studies on "physical activity" AND "element school" have concentrated on topics linked to physical exercise, kids, and elementary school over the past 20 years. Conclusions. The bibliometric analysis presented provides relevant information about the main themes studied about "physical activity" AND "elemental school". and technological advances in development.

Keywords: Bibliometric Analysis, Physical Activity, Public Health, Active People

I. INTRODUCTION

Bibliometrics is the study of the measurement and analysis of information contained in scientific publications, but not specifically related to physical activity (Apriady et al., 2024). Bibliometric studies are used in physical activity research to analyze trends in research topics, number of

publications, citations, and research design trends related to physical activity (Abdullah, 2023; Jangid et al., 2023). Likewise, bibliometric research is also used to analyze the use of learning media in subjects related to physical activity, as well as to evaluate useful information regarding complementary therapies for physical activity in certain medical conditions such as hypertension. Thus, bibliometric

studies provide useful insights in understanding the development of research and utilization of information related to physical activity. Physical activity in elementary school is body movement that increases energy expenditure and energy burning (Hambali et al., 2024; R. R. Illahi et al., 2023; Khani et al., 2024). Appropriate physical activity is activity that is carried out in stages, starting with warming up, core movements, and cooling down (Al Zaki et al., 2023; Andica et al., 2024; Safitri et al., 2024). The activities carried out must be measurable in time and intensity (Insani et al., 2024; Nusri et al., 2024; Ockta & Hardiansyah, 2023; Safitri et al., 2023). Physical activity in elementary school can be divided into three types, namely daily physical activity, physical activity with exercise, and sports (Amin, Wahyuri, Irawan, Welis, Gusni, et al., 2023a; Ferdian et al., 2023; Ismail et al., 2024). However, no information was found regarding bibliometric physical activity in elementary schools (Amin, Wahyuri, Irawan, Welis, Gusni, et al., 2023b; Hadinata et al., 2024; Purwanto & Ockta, 2024; Sasmita et al., 2023).

Physical activity in its case is very popular throughout the world so in its case that the activity used in its regard is very important (Arfi et al., 2024; Chinta et al., 2024). Which is a way used by the community in carrying out activities in terms of winning their long lives by activity to become fit and stay healthy (Likardo et al., 2023; Sepriani et al., 2024; Yuliana et al., 2023). So, from that there are a lot of research about physical activity and some of these studies physical activities starting from elementary school are usually used in things that are done in something that can be used later (Adrizal et al., 2024; Pitnawati et al., 2023; Triani et al., 2023). Seen in recent years, there has been a significant increase in physical activity among schools (PAES) In 2021, 3 million (PAES) were sold, which aims to boost this market significantly providing a list of influential scholars in Islamic finance, and we use their writings to further concentrate on these 914 papers. We answered three main research questions: (1) Who are the most influential authors in physical activity in elementary schools? (2) What issues are most explored in physical activity in elementary schools? (3) Who are the top ten best writers out of these few?.

Our reviews make some unique contributions. First, we identify authors whose publications can serve as benchmarks for the future of researchers, geographic coverage of "physical activity" issues AND "element school", and the most relevant journals. Second, we serve both researchers and makers by identifying four research streams, condensing the findings of the most cited papers. Finally, we determined gap research that provides direction for future research on physical activity in elementary schools.

A search was done in the Scopus publisher Elsevier database to learn more about the state-of-the-art physical activity AND elementary school and to provide guidance on emerging trends in studies related to (PAES). The results are presented in this work. The objective is to evaluate the sources of books, articles, journals, writers, nations and institutions, research fields, and most frequently referenced

topics regarding (PAES). Important details on new developments in the field of PAES research are presented in this study. Additionally, it pinpoints regions that could be useful for future research. The systematics of this paper to retrieve documents from the Scopus database and create a bibliometric network, we provide the methods used in Part 2 of this paper's systematics. The results are presented in Part 3 along with a discussion of the Scopus data. Additionally, Part 4 examines key perspectives for research involving (PAES) based on keyword analysis as well as the literature on the present state of the art.

For the first time, Pritchard developed the definition of bibliometrics which he later defined "statistical bibliography". Bibliometrics is often used in teaching and learning. In addition, it is a science capability that provides analysis of academic literature in relevant fields. Additionally, it is used to analyze large amounts of data, including productivity features of articles, research books, and literature. Physical activity is an important keyword. Based on the collected data, this study seeks to provide a methodical analysis of research on (PAES). Through the analysis conducted, this search intends to give systematic and accurate data about countries, organizations, journals, authors, and keywords, among other things, for new research.

II. MATERIAL & METHODS

Bibliometric analysis in the world of research, more and more are using bibliometric analysis in conjunction with content analysis. In the process of bibliometric review, one way to classify previous research is as descriptive, integrative, systematic, and meta-analytical review. We follow the flow of research. The structure of our methodology is outlined in Fig. 1. Three stages make our design.

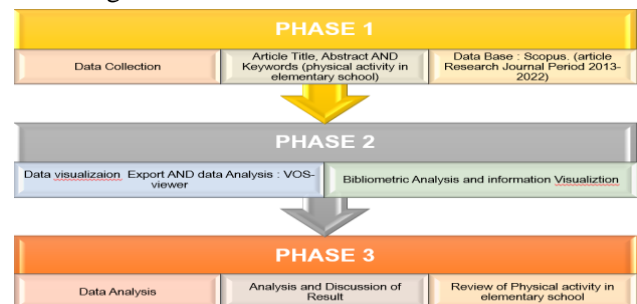


Figure 1. The methodological phase and its main steps and analytical criteria applied to this work.

Analytical technique called bibliometrics used to identify scientific trends and systematize research, ensuring the quality of information and organize research to ensure the accuracy of the data and the accuracy of the conclusions. The documents in the study were collected from the Scopus data platform, which is considered an ideal database for bibliometric analysis that includes information published in sports indexed journals. This database has been widely used in bibliometric analysis The search was conducted on August 15, 2022, with the

keyword input "physical activity" AND "Elementary school". The search period was determined between 2013 and 2021, for extensive analysis of publications. We limit the literature to document types of articles, research, and journals. The number of publications citing the words "physical activity" AND "element of school" is 1,694. All collected data is exported as a "tab delimited" file, which contains "Complete records and cited references". Co-authorship and co-occurrence analysis use this data. As a result, a network map of authors, nations, and keywords can be produced. Additionally, network maps of scientific publications are produced from the examination of citations.

III. RESULT & DISCUSSION

Publication and citation structure Figure 2 provides an overview of the data. The 918 article documents from journals from the period 2013-2022, showing an increase with the keyword "physical activity" AND "Elementary School" Interprets Figure 2 "physical activity in "Elementary school."

918 document results

TITLE-ABS-KEY("physical activity" AND "elementary school") AND (LIMIT TO (PUBSTAGE, "final")) AND (LIMIT TO (PUBYEAR, 2021) OR LIMIT TO (PUBYEAR, 2020) OR LIMIT TO (PUBYEAR, 2019) OR LIMIT TO (PUBYEAR, 2018) OR LIMIT TO (PUBYEAR, 2017) OR LIMIT TO (PUBYEAR, 2016) OR LIMIT TO (PUBYEAR, 2015) OR LIMIT TO (PUBYEAR, 2014) OR LIMIT TO (PUBYEAR, 2013)) AND (LIMIT TO (DOCTYPE, "a")) AND (LIMIT TO (LANGUAGE, "English")) AND (LIMIT TO (SRCTYPE, "j"))

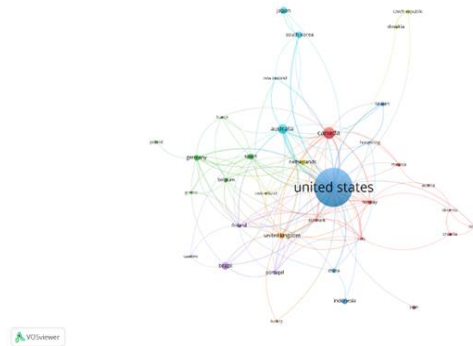
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Figure 2. PAES Period 2013-2021

For the period 2013 to 2021, according to the search results in the Scopus database, 918 publications were found that used the term "physical activity in Elementary school". Over the period under consideration, both the cumulative index and the number of journal articles showed an increasing trend (Figure 3). The results of data analysis revealed that between 2013 and 2016 the growth of publications related to "physical activity in Elementary school" was slow and stable. In the range of 2016 to 2020 began to increase with an average growth of 100% per year. The number of scientific articles related to "physical activity in Elementary schools" jumped quite sharply between 2020 and 2021 this is due to the increasing enthusiasm of each country to build physical activity is very important for elemental try schools after COVID-19, as a global consequence of the movement of physical activity in the world and the reduction of obesity. With the growing development of research from "physical activity in Elementary school". The analysis does not involve the achievement of publication of journal articles in 2022 because the data is still in the process of being updated. In the period 2019 to 2021, there were 362 published journal articles, meaning that publication productivity over the last 3 years contributed 67% of the total for 9 years of research development "physical activity in Elementary school". This

shows that the "physical activity in elemental school" sector is growing rapidly, and research on physical activity movement for elementary school children has gained momentum in recent years for the achievement of journal article publication in 2022 because the data is still in the process of being updated.

Figure 3. Network visualization With Country documents



between countries related to physical activity AND Elementary school.

Map of countries with the number of documents related to physical activity to Elementary school (Figure 4), which highlights countries that research with documents in the field of physical activity to Elementary school with the 10 most countries with the number of documents, namely: United States, Canada, Brazil, Australia, Mexico, Korea, Indonesia, United Kingdom, China, Norway, obtained 918 documents with the number of countries 35 countries that have documents related to physical activity to Elementary school.



Figure 4. Visualization of the number of countries about physical activity AND elementary school based on documents.

Map of Countries with the number of documents related to physical activity to Elementary school (Figure 5), which highlights countries that research with documents in the field of physical activity to Elementary school with the 10 most countries with the number of documents, namely: United States (468), Canada (73), Brazil (40), Aus9tralia (57) Mexico (40) Korea (28) Indonesia (27) United Kingdom (23) China (18) Norway (16) obtained 918 documents with the number of countries 35 countries that have documents related to physical activity to Elementary school

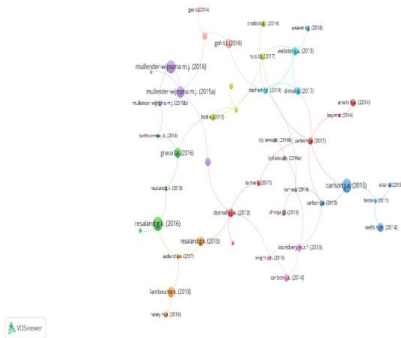


Figure 5. Visualization of Citation number of documents about physical activity in elementary school based on documents.

Citation with the number of citation documents physical activity to Elementary school top 10 (Figure 6) using the Scopus data base, which highlights the research with documents in the field of physical activity to Elementary school with the most 10, namely (1. Carson J. A, 2015) number of documents 106 (2.re-Saland G.K, 2016) number of documents 102 (3. Mullender-wjinsma m.j, 2016) document number 94 (4. Mullender-wjinsma m.j, 2015) with a total of 81 documents. (5. Lambourne K, 2013) Document Number 66 (6.) Grieco L.A (2016) 60 (7. Goth t.I 2016) Number of documents 57 (8. re-saland g. k, 2015) Number of documents 57 (9. Wells. N.M, 2014) Number of documents 54 (10 Donnelly J.E, 2013 Number of documents 50.

TOP Journal	F
journal of school health	44
journal of physical activity and health	39
bmc public health	39
journal of physical education and sport	20
preventive medicine	18
international journal of behavioral nutrition and physical activity	17
journal of teaching in physical education	15
health education journal	15
plos one	13
american journal of health promotion	13

Figure 6. Visualization of Citation sources about physical activity in elementary school based on documents.

Described Top 10 Number of documents Number of documents related to physical activity to Elementary school (Figure 7), which highlights countries that research with documents in the field of physical activity to Elementary school with the 10 most countries with the number of documents, namely: TOP Journal (1. journal of school health with 44 documents) (2. journal of physical activity and health 39 documents) (3. Bmc public health 39 documents) (4. Journal of physical education and sport with 20 documents) (5. Preventive medicine 18 documents) (6. International journal of behavioral nutrition and physical activity 17 documents) (7. Journal of teaching in physical education 15 documents) (8. Health education journal 15

documents) (9. Plos one 13 documents) (10 American journal of health promotion 13 documents).

Authors and co-author relationships

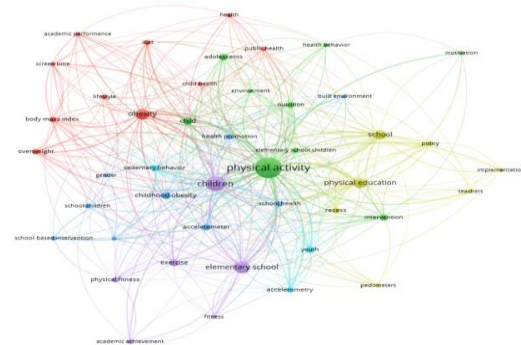


Figure 7. Visualization of Author Keywords about physical activity AND elementary school based on documents.

The acquired keywords are classified from 6 clusters. As expected, the most highlighted terms, not only in cluster 1 but also across the network, were "physical activity" AND "elementary school". The top 10 keywords with co-occurrence tend to focus on Physical activity, Children, elemental school, Obesity, physical education, school child, children obesity, excercise and youth.

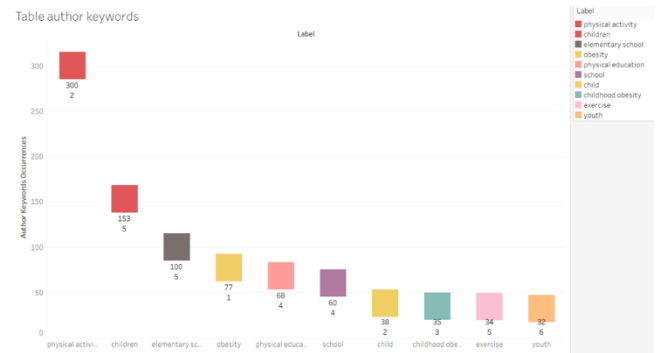


Figure 8. Diagram of Top 10 Author Keywords about physical activity AND elementary school based on the document.

The acquired keywords are classified from 6 clusters. As expected, the most highlighted terms, not only in cluster 1 but also across networks, are "physical activity" AND "elementary school". The top 10 keywords with co-occurrence tend to focus on (Physical activity with 300 citations), (Children with 153 citations), (Elementary school with 100 citations), (Obesity with 77 citations), (physical education with 68 citations), (school with 60 citations), (child with 38 citations), (children obesity with 35 citations), (exercise with 34 citations) and youth with 32 citations). Numerous obstacles prevent schools from making a positive contribution to sustainable development. There is a need to investigate nation-specific obstacles to the sustainability of physical activity in elementary schools, even though a variety of remedies are available. Further research is needed

to address the operational and regulatory concerns outlined. In-depth research has found that physical activity and primary schooling also influence and impact the availability, use, and impact of childhood obesity. Except for a few children who do physical activity in elementary school (Budiman & Ockta, 2024; R. F. Illahi et al., 2024; Umar et al., 2023). It is necessary to assess the level of physical activity in elementary schools using the principles of physical activity in schools that have an impact on the needs of the era in bibliometric analysis as well as the compliance of the era of physical education with activities and school components.

Encourage researchers to compare physical activity and elementary schools in each area or nation Previous research put up a few theoretic hypotheses that would physical activity in Elementary School to contribute to child age and obesity (Amin, Wahyuri, Irawan, Welis, & Ockta, 2023; Ockta et al., 2024; Oktadinata et al., 2024; Rambe et al., 2024). We expect future research to test the practical application of the Physical Activity and Element School model This is to enable physical activity in Elementary School Play an important role in ensuring access to physical activity in elementary school (Iqbal et al., 2024). Highlights various indicators of measuring physical activity in Elementary School to explore alternative aspects of alleviating physical activity in Elementary School through children. Additional research can examine the significance of physical education in elementary schools. We also anticipate that Islamic microfinance would implement environmental protection measures through research and advertising. In several studies, bibliometric analysis is used to evaluate research results, map scientific fields, and determine research collaboration patterns. The results of this analysis can provide useful information for evaluating the level of productivity, quality and contribution of research in the field of science. This research was carried out to analyze bibliometrics in the field of physical fitness studies. This analysis was carried out to evaluate research results and map the field of science. The research results show that there are variations in the number of article publications each year, as well as countries with the highest number of publications and the highest number of citations.

IV. CONCLUSIONS

Physical activity in elemental try school is no longer just a theoretical idea that academics debate. The bibliometric analysis presented provides relevant information about the main themes studied about "physical activity" AND "elemental school". and technological advances in development.

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