PROCEEDINGS

2ND YOGYAKARTA INTERNATIONAL SEMINAR ON HEALTH, PHYSICAL EDUCATION, AND SPORT SCIENCE (2ND YISHPESS)

"Community Building and Development through Physical Education and Sports"

In conjunction with

1ST CONFERENCE ON INTERDISCIPLINARY APPROACH IN SPORTS (1ST COIS)

"Integrating sports science intervention to optimize human performance"

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(YISHPESS 2018)

1st Conference on Interdisciplinary Approach in Sports
(CoIS 2018)

October 26-27, 2018,
Yogyakarta, Indonesia

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ATLANTIS PRESS
ATLANTIS PRESS
AMSTERDAM – PARIS – BEIJING
This book is part of the series Advances in Social Science, Education and Humanities Research (Volume 278) (ISSN 2352-5398) published by Atlantis Press.

http://www.atlantis-press.com/publications/proceedings/aest/

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www.atlantis-press.com
ISBN: 978-94-6252-634-1


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1\textsuperscript{st} Conference on Interdisciplinary Approach in Sports (CoIS 2018)

October 26-27, 2018, Yogyakarta, Indonesia

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Preface

First of all, please allow us to extend our warmest greetings and welcome to you all to the 2nd Yogyakarta International Seminar on Health, Physical Education, and Sports Science (YISHPESS 2018). The conference is held in conjunction with The 1st Conference on Interdisciplinary Approach in Sports (CoIS) by the Faculty of Sport Sciences Universitas Negeri Yogyakarta in Yogyakarta, Indonesia on October 26-27, 2018.

The community building and development require integrated aspects in physical education and sports. These issues should be solved by researchers, lecturers, students and even practitioners to share and present their current research. The purposes of the conference are to share and present the reflection and research results related to Physical Education, Health, and Sports Science. In another issue, interdisciplinary approach has been defined as cross disciplines with an in-depth knowledge in one aspect working together to solve problems. Interdisciplinary approach in sports is very important to gain optional result of performance. In line with the first goal of this conference, it seeks better understanding both in theoretical and practical situation in every expert’s aspects.

With the YISHPESS’s conference theme: “Community Building and Development through Physical Education and Sports” and CoIS’s theme: “Integrating Sports Science Intervention to Optimize Human Performance”, approximately 236 papers have been submitted at this conference but only 169 of these have been accepted for the presentation after a blind peer review process. We do hope that this conferences proceeding can enrich our understanding of the role of physical education, sports, and health in maintaining community building and development as well as become a meeting point for academics, sport practitioners and sports professional to share ideas and knowledge for improving performance in sports.

We would like to thank to all parties who helped running this program. Hopefully, all the time and efforts we have spent for these two conferences may be beneficial and impactful for the future.

Yogyakarta, October 20, 2018
Organizing Committee
Committee Report

Dear Excellences, Rector of Universitas Negeri Yogyakarta, invited speakers, distinguished guests, and ladies and gentlemen.

It is our pleasure to welcome you to the 2nd Yogyakarta International Seminar on Health, Physical Education, and Sports Science (YISHPESS 2018) and the 1st Conference on Interdisciplinary Approach in Sports (CoIS) held by Faculty of Sport Sciences, Universitas Negeri Yogyakarta. We would like to welcome all invited speakers from overseas who come from different countries to share their knowledge and ideas at this international conference.

We organize two conferences with the theme: “Community Building and Development through Physical Education and Sports” and “Integrating Sports Science Intervention to Optimize Human Performance”. These events reflect the role of sport science and physical education for developing human performance at this century.

Active participation from 11 invited speakers and 158 presenters reflect the important role of lecturers, students, researchers, and related background in sport and physical education. They will be organized into several panel and parallel sessions to facilitate main presentations and discussions. Moreover, all selected papers will be published in the international indexed proceeding.

We wish you enjoy these conferences and have a memorable time at Universitas Negeri Yogyakarta. Have a great day in Yogyakarta!

Organizing Committee
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Instructional Model of Self-defense Lesson in Physical Education: A systematic Review

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Abstract—martial art (self-defense learning) is a unique discipline in physical education which requires a separate approach and instructional model in order to be beneficial to the student and serve the purpose of physical education. Hence, this study aims to analyze various research results related to the use of approaches and instructional models of self-defense lessons in the physical education program. About 80 articles published online from 40 local and 40 international journals were analyzed. In this study, the Interactive model (data collection, display, and conclusion/verification) from Miles and Huberman (1984) was used to analyze data. The study found many approaches and instructional models of martial arts related to education/pedagogy in physical education in Indonesia and many other countries. Internationally, there are three types of self-defense instructional models in physical education. They include the instructional models that emphasize culture, sports, and students’ self-development aspects. Nationally, self-defense learning in physical education uses Mosston’s teaching style, general and special instructional models which lay a strong emphasis on character building. The instructional model of self-defense is expected to meet the competencies from aspects of knowledge, attitudes, and skills.

Keywords—martial arts, instructional, physical education

I. INTRODUCTION

Over the years, Physical education learning has undergone rapid development. Investigations and numerous studies were conducted to develop a more creative and attractive physical education learning which still serves the original purpose of physical education [1]. A paradigm shift in the education purpose was followed by the change in the purpose of physical education. This shifting phenomenon has apparently affected the development of the learning approach to physical education. Hence, the purpose and learning of physical education should be harmonious. Historically and philosophically, physical education has transformed in Indonesia and all over the world. Even up till this day, people still argue over the science of physical education itself. In some countries, physical education has become an excellent national program which is very beneficial to people. In Indonesian school curriculum, Physical education has formally been a part of it. However, people’s mixed up understanding of physical education, sports, recreation, physical activities, and health makes physical education bias in the eyes of our communities.

Learning in physical education was developed from Sweden and Germany gymnastics systems. Both systems were extensively incorporated in many physical education programs across the world. However, since the systems were more teacher-centered, students were mainly followers of their teachers with a goal to master all materials and techniques. This existed primarily due to the fact that past physical education focused on gymnastics learning materials. As teaching materials transformed from gymnastics to sport-based, new teaching methods began to emerge in the early 1960s [2-3]. Since then, various new methods for teaching physical education arose and are currently known as teaching strategies. Some of them include task/station teaching, reflective teaching, partner teaching, team teaching, and inquiry-based teaching [4].

Martial arts or self-defense learning is a major material in physical and sport education. Martial arts can be found across several Asian countries. Of all types of martial arts, pencak silat, originating from Indonesia, is one of the most popular types of sports in Southeast Asia. The Indonesian pencak silat has become a worldwide Google trending search in 18 countries. Additionally, the martial arts topic happens to be quite a fascinating topic across the world. In survey, the Indonesian martial art is the 25th most searched topic across 56 countries. Furthermore, the Pencak silat martial art has developed through many ways including schools. In schools, pencak silat is taught as recommended by the 2013 Indonesian national curriculum (K-13). In the curriculum, the methods of martial arts vary in learning. The 2013 Physical Education, Sport, and Health (PJK) Curriculum has recommended the adoption of various methods, strategies, and models in the process learning pencak silat martial art. Hence, there is a vital need to investigate models
adopted in teaching martial arts as part of physical and sport education all across the world.

Findings of studies in Southeast Asia reports that the origin of martial arts is characteristically different and that three learning approaches exists namely; traditional, efficiency, and sports [5]. In addition, the data also indicates the practice of martial arts as part of physical education in schools across several European countries [5]. Hence, this study aims to investigate and analyze the adoption of martial art learning models in physical education which is studied in numerous scientific articles published in either national or international journals.

II. METHOD

A. Research Design

This study was performed applying a Meta-Analysis which simply means an analysis over analyses. As an effective research method, the meta-analysis assesses the results of previous research studies in a similar topic. The meta-analysis was first adopted in the research on health/medication. With time, the meta-analysis was adopted to study various problems/topics. Meta-analysis is a synthesis of topics from multiple research results. Synthesis is the basis for drawing conclusion on the topic being studied. A meta-analysis consists of several stages including; determining the problem or topic of the study, defining the research period, gathering research reports on the topic/problem being studied, reading research titles and abstracts, focusing on problems, methods, data analyses, and results, categorizing research results, comparing all results based on their categories, studying research methods and data analyses, and drawing conclusions [6].

B. Unit Analysis

The Analysis unit in this study consists of 80 articles published in national or international journals which presented ideas and results of the research on martial art learning models. The samples were selected using a purposive sampling technique where the topic or theme of the articles are related to learning martial arts in physical and sport education. Under such requirement, 41 articles comprising of 21 international articles and 20 national articles were considered eligible for the study.

C. Data Collection

The researchers themselves through a self-evaluation process validate the human instrument as to what extent the researchers understand the qualitative method, theories, and insights into the field of study, as well as readiness and provision for the field study [7]. After setting the study focus, simple research instruments were developed in order to complete and compare data previously gathered. The Data was collected using the guided documentation technique and according to data source. Primary data is data collected firsthand from the original source. The Primary data in this study include opinions, ideas, and research results from journal articles about martial art learning models in physical and sport education. Data is valid if there is no difference between the report and the current study. To test the validity of data, this study conducted a credibility test (internal validity), transferability test (external validity), dependability test (reliability), and confirmability test (objectivity) [7].

D. Data Analysis

A qualitative data analysis technique using interactive model proposed by Miles and Huberman [8] was applied in this study. Additionally, Miles and Huberman recommended several activities for data analysis which includes; data collection, data display, and data conclusion drawing/verification. In research, data reduction is a process involves selecting, focusing, conceptualizing and converting raw data in the field notes. In qualitative research, data is displayed in form of brief description, charts, relationship between categories, flowcharts, and many more [7]. Meanwhile, the conclusion proposed in a qualitative research is considered temporary and changes when stronger supporting evidences are absent from the subsequent stages.

III. RESULTS

A. Study of Martial Art Learning Model across the World

This research studied 21 journals written by martial arts researchers across the world. The Journal documents in study originated from several international journals from 1990 to 2017. The United States of America began conducting numerous researches on martial art learning and was followed by many other countries including Belgium, China, Spain, Singapore, Mexico, England, Iran, Poland, Canada, and Latvia. Most researchers studied the practice of all types of martial arts, specifically Judo, Taekwondo, Wushu, Karate, and pencak silat. Some researchers also studied Mixed Martial Arts.

The Martial art learning and training in this study is related to various aspects of the participants such as the physical, psychological, and sociological aspects. Some variables were also related to the mastery of the techniques. In addition, some researchers also studied violence and risk factors for injury in martial arts. In the context of martial art learning practice, most researchers studied physical education in primary and secondary schools.

Findings from the articles published in several international journals suggest three types of model/approach to martial art learning. The first model laid emphasis on cultural aspects such as traditional, sociological, social-economic, anthropological, humanist, cultural, multicultural, authoethnographical, and academic approaches. The second model emphasizes sport aspects such as competitive, Leadership Education through Athletic Development (LEAD), N/M/M (Nomometric/ Monitoring/ Multidimensional) approach, and belt color system. Meanwhile, the third model emphasizes on the student development aspects such as comfort, control, price, self-actualization, and problem-based approaches.

B. Study of Martial Art Learning Model in Indonesia

From the 20 national journals being studied more updated findings were found from researches in the 2013-2018 period. Furthermore, because pencak silat obviously listed in the curriculum, researchers in the context of physical and sport education often study one type of martial arts. Although being
part of physical education, sport, and a health subject in Indonesia, martial arts is taught one or two times in a semester. This phenomenon attracts researchers to implement various models/approaches to martial art learning on different educational levels. According to the journal articles, researchers found the adoption of Mosston’s teaching style, general learning models, and special learning model that emphasize the character building in martial art learning as part of physical and sport education. The adopted Mosston’s styles include the Guided Discovery, exercises, inclusion, and reciprocal styles. The general learning models that are often studied include cooperative, direct instruction, individual, group, and couple of models. Meanwhile, the special models/methods/approaches include playing, multimedia-based method, pencak silat gymnastics, and character building in pencak silat.

IV. DISCUSSION

The learning of martial art emphasizing on cultural aspects views martial arts as an art of defending oneself from threats and dangers. This artwork has been developed into a function to improve one’s physical condition, social connection, trading, partnership, and cultural acculturation. In today’s education, martial arts emerged to balance the dominance of dualism mind/body [9]. Martial art was originally a type of ancient fighting which was later modified into sports [10].

From some of the articles, it was found that martial art learning focused on its sport-related aspect. For example, martial arts have been transformed into sports in form of competitions. Martial arts show unique body movements which work harmoniously with the development of mental and spiritual aspects such as characters, feelings, medication, and many more. As the characteristics of competitive martial arts demonstrate demands of sport, they require the development of specific training program [11]. For example, karate is considered as one of sports that promotes health, education, and rehabilitation management [12] as well as optimizes the quality of basic and specific motor skill performances needed by young athletes to participate in the competition [13]. In general, the findings suggest that martial art competitions are characterized by high aerobic and anaerobic responses [14].

Martial art learning is directed toward the development of various aspects of the lives of students. It involves not only physical but also psychological, social, and spiritual aspects. The possible effect of martial arts on psychological and social aspects is still an interesting research topic [15]. As a form of education, martial art has fulfilled both the psychological and physical needs and has used the body as a tool for enlightenment and wisdom in the spiritual aspects [16]. Martial art training also shows interaction and implication in the development of students’ self-management [17]. Besides its health benefit, another benefit of martial arts includes its psychological balance and wellness that helps to reduce aggressiveness [10].

The development of martial art learning should better be pointed towards constructivist-based learning models. The Constructivist perspective is a learning theory lays emphasis on students’ experiences, not merely on their cognitive knowledge [18]. For example, pencak silat martial art learning requires a learning model that is able to improve students’ motoric skill and therefore, the game approach can increase the academic results of students [19]. Furthermore, a character-based learning model applied in pencak silat can be used as an approach to physical education in primary schools. The adoption of such model prevents physical education from being conventional and orientated toward martial arts and sport aspects only [20].

V. CONCLUSION

The international journal findings suggest three types of model or approach to self-defense learning used in physical and sport education, which include (1) culture-centered self-defense learning model/approach, (2) sport-centered self-defense learning model/approach, and (3) student-centered self-defense learning model/approach. In the meantime, the national journal findings demonstrate the adoption of Mosston teaching style, general learning models, and special learning model focusing on character building in self-defense learning as part of physical and sport education. Self-defense learning tries to help students to learn martial arts and to reach competences that cover knowledge, skill, and aspects of attitude. These aspects make this topic fascinating for study. The various aspects to study affect not only the method but also the material delivery model, which influences the object and variation type.

ACKNOWLEDGMENT

This work supported by Research Group Grant 2018 from Faculty of Sport Sciences, Universitas Negeri Yogyakarta.

REFERENCES


