Teaching Children *Sepaktakraw* through the Cart *Sepaktakraw* Game

Abdian Asgi Sukmana¹, Toho Cholik Mutohir², and M. Muhyi Farough³

¹Penjaskesrek, Universitas Nusantara PGRI Kediri, Jalan KHA Dahlan 76 Kediri, Jawa Timur Indonesia
²Ilmu Keolahragaan, Universitas Negeri Surabaya, Jalan Ketintang 3 Surabaya, Jawa Timur, Indonesia
³Ilmu Keolahragaan, Universitas PGRI Adi Buana Surabaya, Jalan Dukuh Menanggal 12, Jawa Timur, Indonesia

Abstract: The learning process of the child is not the same as the adult, so the child in learning a skill requires modification of the tools and regulations. Basketed *sepaktakraw* (krawnjang) is a form of child *sepaktakraw* game that combines *sepaktakraw* game techniques and basketball. The purpose of this research is to develop the form of game with prototype of tool model and rule of the game, which has been learning basic skills conventionally. This research is a research development (Research and Development). The subjects of this research are elementary school students class IV, V and VI, amounting to 120 children who are joining the *sepaktakraw* sport. The results of this research is a prototype of the tool and the basic rules of the basketed *sepaktakraw* game. Equipments are basket-like baskets as high as 130 cm, with two baskets 35-40 cm, balls of rattan coated with soft sponge with size 14 cm, diameter 150 cm game field. The game is played by 4 to 6 children, with the basic rule of putting as many balls as possible into the basket within 8 minutes for 2 innings.

Keywords: Children *Sepaktakraw*, basketed *sepaktakraw*, modification.

1 INTRODUCTION

Sports become a phenomenon that can not be separated from the life of people in this world because it is something interesting and has become a major requirement. To grow, the fulfillment of the necessities of life, people will always move. Motion has a meaning, in which, to change the position from a stationary position to a different position or move. Likewise sport is moving the body both the position of the legs, arms, shoulders and parts of the human body from static to dynamic. Mutohir, (2007: 26) an activity to actualize human rights as an opportunity to develop and maintain physical, mental and moral abilities. Therefore everyone should have access to physical education and sport. Sport is divided into three domains namely sports education activities, sports achievements and recreational sports.

*Sepaktakraw* movement is a collection of badminton courts, volleyball rules and tactics, football technique and Chinese shuttlecock kicking skills, is a kind of modern social fashion sports (Kongmeechon, 2017). *Sekak Takraw* is a popular sport among the Southeast Asian countries and various brands of takraw balls are available in the local market to suit the needs of players (Adam, N.M., 2014). *Sepak takraw* is a highly complex net-barrier kicking sport that involves dazzling displays of quick reflexes, acrobatic twists, turns and swerves of the agile human body (Maseleno, A. and Hasan, M.M., 2011). The takraw ball is a very unique interwoven ball used in the action game of *sepak takraw*. The traditional takraw ball is manufactured by conventionally weaving split rattan strips into a spherical basket (Ahmad, N., Taha, Z., Ya, T.M.Y.S.T. and Hasanuddin, I., 2012). *Sepaktakraw* which originally a culture of society, now a sport of achievement recognized by the international community, is a form of cultural transformation of society that existed in the past until now. Rezai (2013: 936) said that, *sepaktakraw* has been included in the Asian Games since 1990 in Beijing. *Sepaktakraw* is basically a modified game of the traditional sport in the concept of a sport of recreational games being a contested sport, as we know that this game has been played and popular throughout Indonesia, partly in the Malacca Peninsula from Burma to Singapore border.

Passing the ball is an extremely important basic skills in *Sepak takraw*. From defense into attack, passing the ball was mainly rely on in *sepak takraw* game (ZHANG, Y.B. and ZHANG, S.Z., 2009).

*Sepaktakraw* learning system that is known conventionally still be the basic practice principle to date, namely learning by individual way, pasing autonomous, pasing in pairs, pasing with the media of wall and rope. Therefore it is necessary to develop a
new concept of learning the basic techniques of sepak takraw conducted outside the conventional concept.

Modifications, forms of sports development that are tailored to the needs and abilities of a particular group of people. A busy activity with busy work, encouraging people to adjust it, for example with the sport of the night (futsal, badminton) in due to work activities until the evening, so it is possible to do it at night. Nurhasan (2007) defines modification is an attempt to make changes with the adjustments both in terms of physical materials ie facilities and equipment and goals and ways (methods, styles, approaches, rules and judgments). The essence of a modification step is to analyze and develop the learning materials by way of guiding in the form of potential learning activities so that it can easily in the process.

Wijono (2011: 26) in the Australian Sports Commission recommends children to take part in sports modifications, in order to adapt their skills by using equipment appropriate to the child's abilities.

Yusup (2004: 48) said that, modification is manifested in some ways, without objective standards, because the priority is the process and the pedagogic impact rather than on the outcome. Such modifications are (a) changes in the size, shape, and material of the tool such as bulbs made larger and lighter, the beaters are shorter, the ball catcher is made of fabric, (b) the field size change, the net height or the ring height, such as narrowed fields, (c) simplified game rules, shortened time.

The development model of the researcher is the game of basketed sepaktakraw game which is the development of sepak takraw and basketball game, which is done in groups and put the ball into the basket. Basketed sepak takraw game is a form of learned concepts sepak takraw for children elementary school age that are fun, easy, and can be played by several children at a time in a circle with equipment that can be modified with simple materials.

2 METHODS

2.1 Research Design

This research is a research development (research and development) which means research oriented to a product. In this case the development is a game of basketed sepak takraw which is used as a new model of basic lesson sepaktakraw for children.

According to Borg and Gall (2003: 571) the steps of implementing research and development strategies to produce a particular product and to test the effectiveness of the product in question are problem formulation, prototype creation, expert and material validation, small group trial, revision and validation, moderate, expert validation, large group trials, and results reports.

2.2 Research Subject

The subjects of this basketed sepaktakraw game model are students who are active in elementary school grade IV, V and VI in Kota Kediri, East Java Indonesia which consists of 120 children.

2.3 Research Instruments

Instruments in this research development is used to reveal the form of product development of learning tools of basketed sepaktakraw at Primary School in Kediri by using small-scale test sheets, large-scale test sheets. The grid is arranged based on need is as follows:

Table 1: Research Instrument Grid.

<table>
<thead>
<tr>
<th>Variables</th>
<th>Indicator</th>
<th>Assessment Indicator Item</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development of Sepaktakraw Kids Through Playing Basketed Sepaktakraw</td>
<td>Small Scale and Large Scale Trial (students)</td>
<td>a) Secure 1-3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) Easy and festive 4-5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>c) Interesting 6-7</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>d) In accordance with the purpose 8-10</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>e) Durable and easy to repair 11-13</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>f) In accordance with the environment 14-15</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>g) There are elements of motor motion 16-18</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Amount 18</td>
<td></td>
</tr>
</tbody>
</table>

(Sumber: Riyanto, 2013)

2.4 Product Specifications

The product specification developed is a development research in the form of a game of sepak takraw games for children in the form of tools and means of
modification in the form of combining sports sepaktakraw and basketball or sepaktakraw motion with the final result is to insert the ball into the basket.

The shape of the product in the form of means game that focuses on the stimulation of basic skills, namely football sila sepak takraw, soccer turtle, comprehend and heading the ball into the appliance or pole baskets made in such a way. The krawnjang game model (takraw and basket) consists of cast pole posts, supporting poles, iron plates, two baskets and a modified ball of spun-coated rattan.

The principle of this game is a separate team or team of 4 children to enter the ball with sepaktakraw skills as much as possible with a predetermined time target that is 8 minutes times 2 innings. So this game basically uses sepaktakraw skills, but the gain of the numbers with the execution of the ball into the basket and determined by the time the game where the most inserted is the winner.

3 RESULTS AND DISCUSSION

3.1 Research of Data Analysis

Analysis of this data is used to answer the formulation of the problem arisen in front of how is the development of basket facilities as learning skills sepaktakraw for elementary school children in Kediri? The data analysis is described as follows:

3.1.1 Initial Product Process

The initial process of making the basket, including several stages, as follows:

a. basket bending process
   This is done by arranging woven bamboo and rattan basket with attention to the needs of the desired researchers.

b. Making iron plate, used as bamboo basket brace.

c. Basket knitting (jaring ring), as well as on a basketball game, with a 4mm diameter plastic strap string.

d. Results of the product, which is the result of modification basket in the form of bamboo woven basket and rattan knitted rope.

3.1.2 Modified Ball Making Process

1) Preparation of rattan for further in the woven in such a way, with a size larger 1- 2 centimeters than the standard ball circumference size.

2) Once the ball is wound the ball is coated with soft colored sponge.

3.1.3 Initial Product Revision

Once the game media in the form of a prototype model is created, there are several revisions related to the product made by the researcher, which are:

<table>
<thead>
<tr>
<th>No</th>
<th>Indicator</th>
<th>Information</th>
<th>Initial Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Game Model Form</td>
<td>Cheal, lively, fun, easy to do and safe</td>
<td>Orientation to the needs of children's movement, especially the basic motion sepaktakraw</td>
</tr>
<tr>
<td>2</td>
<td>Equipment</td>
<td>Portable or easily disassembled and moved.</td>
<td>Portable or easily disassembled and moved.</td>
</tr>
</tbody>
</table>

3.1.4 Expert Infrastructure Validation

The researcher performs expert validation of the infrastructure facilities of Sepaktakraw Coach, Koke Wiluyo and the modification expert Dr. Ria Lumintuarso, M.Si as lecturer of Yogyakarta State University and inventor of Kids Atheltic which was conducted through 3 stages of meeting. Briefly the results of expert validation of infrastructure facilities or expert input are as follows:

a. First meeting: woven baskets are made loose (see-through), woven rattan more tightened, appearance is still less tidy;

b. The second meeting: should be given a knit like a basketball, and the knit should be colorful. Expected in the rules of the game also incorporated elements of the formation of a positive character of children;

c. Third meeting: suggestion no validation of expert facilities of infrastructure. Tools can be used as small-scale trials.

3.1.5 Expert Materials Validation

Validation of expert learning materials with prof. Dr Achmad Sofyan Hanif, State University of Jakarta as a sepaktakraw expert. The validation of the instructional expert is done as a whole in two stages of the meeting. Brief description of input from the material expert is as follows:
a. First meeting stage: Knitting color is less attractive. Conclusion: a small-scale trial with improvement can be used.
b. Second meeting stage: no suggestion from expert validation. Conclusion: can be used in small-scale trials without repair

3.1.6 Small Scale Trial

Small-scale trials were conducted at SDN Baluwerti 3 Kediri club involving 15 children after validation of expert facilities and materials. In the small-scale test period found several revisions of the materials are:

Table 3: Small Scale Trial.

<table>
<thead>
<tr>
<th>No</th>
<th>Indicator</th>
<th>Information</th>
<th>Small Scale Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pole Material</td>
<td>Material is made of iron</td>
<td>Materials should be cheap and affordable, as well as lightweight</td>
</tr>
<tr>
<td>2</td>
<td>Circle of basket</td>
<td>Material is made of iron ring</td>
<td>Material is too expensive</td>
</tr>
<tr>
<td>3</td>
<td>Elevation of the pole</td>
<td>Height of 2.40 cm</td>
<td>The child’s ability level should be determined (height of reflection)</td>
</tr>
</tbody>
</table>

3.1.7 Large Scale Trial

Large group trials, researchers involved subjects as many as 30 children of class V-VII coming from SDN in three sub-districts in Kediri City. The results of the revision of expert validation on large-scale trials are:

Table 4: Large Scale Trial.

<table>
<thead>
<tr>
<th>No</th>
<th>Indicator</th>
<th>Information</th>
<th>Large-scale revisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Material pole</td>
<td>Made of wood lined with paralon pipes</td>
<td>Poles in paint and given quasi / pavers</td>
</tr>
<tr>
<td>2</td>
<td>Circle of basket</td>
<td>Made of rattan and bamboo, with a diameter of 35 cm</td>
<td>Larger circumference 38-40 cm (element of ease of inserting)</td>
</tr>
<tr>
<td>3</td>
<td>Elevation of the pole</td>
<td>High 2.10 cm for male, and 1.70 cm for females</td>
<td>The size of the pole can be adjusted to the needs of females may be 1.50 cm</td>
</tr>
</tbody>
</table>

3.1.8 Product Implementation

After passing some validation and trial processes then the resulting product is the game manual of Krawnjang along with the equipment and video of the game instruction to train or learn basic technique sepaktakraw through group basket game.

4 CONCLUSIONS

Development of learning tools for basket sepak takraw for elementary school children can improve the activity of students in learning sepaktakraw game. This can be concluded through the results of large-scale trials that, from some of the above conclusions caused by several factors, among others:

a. Students judge that the game by putting the ball into the basket through the game sepaktakraw easy and interesting to be done.
b. Students judge that the basketed sepaktakraw model is interesting (spiky knitted and sponge ball, made of wicker, bamboo and sponge) and different from the original game that is sepakakraw with net.
c. Students assess that basketed sepaktakraw is easy to be moved and does not have to open field, under any tree or in door space can be done.
d. Students assess that basketed sepaktakraw game is interesting to be done in groups, so it is useful for team collaboration.

REFERENCES


