

THE DEVELOPMENT OF INDICATORS FOR TALENTED YOUTH MALE  
THAI BOXERS OF SPORTS SCHOOL STUDENT UNDER INSTITUTE OF  
PHYSICAL EDUCATION, MINISTRY OF TOURISM AND SPORTS.

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Abstract

The purposes of this study were (1) to develop the indicators of Youth male Thai boxers' Talent of Sport School is under The IPE, Ministry of Tourism and Sport. (2) to examine the efficiency of the test; and (3) to construct the norm of U-17 Thailand national youth male Thai boxers and the U-17 general youth male Thai boxers by using test of indicators of talented Thai boxers' characteristics. The research procedure comprised 4 stages, as follow: (1) to study the document for evaluate the indicator and the characteristics of talented Thai boxers; (2) to construct the research instrument; (3) to study the quality of research instrument and (4) to construct the norms of the test.

The research Found that the characteristic indicators of talented youth male thai boxers were composed of 3 components as follow: (1) 11 indicators on physiological characteristics indication, (2) 3 indicators on physiological characteristics and (3) 4 indicators on Thai boxing skills characteristics. The research tool on this study was the test consisting of 18 items for Thai boxer's testing with the content validity at 0.76 (IOC) for Thai boxers' testing and the construct validity statistically at 0.5 in all items. There were 2 norms of references for the U-17 Thailand national male youth Thai boxers and the U-17 general youth male Thai boxers that the researcher constructed by making the level of performance Including the mork From the 3 Indicators by criteria in 5 levels: very highest, high, medium, low, and lowest.

The research concluded that the test in the field experiment which was used for evaluating the characteristics of talented youth male Thai boxers in 3 components (the physiological characteristics, the psychological characteristics and Thai boxing skills characteristics for thai boxer) was a high quality instrument on content validity, construct validity and reliability. Norms as well as the level of performance criteria were constructed. The test manual with details was also constructed to test and to select the talented youth male thai boxers.

**KEYWORD : A DEVELOPMENT OF INDICATORS, TALENTED, THAI  
BOXERS .**

## **Introduction**

There are 3 types of Thai boxing styles: punch, foot movement, and body movement. These three factors must be related to each other. Must use a punch to hit the target which start from the shoulder to get points that related with speed. The most important thing while punching the weight must be included in the punch by leaned forward punching out each time, including feet movement. And body movements must have a relationship of boxer with the style and the correct punching method can be able to knock the opponent (Chettha). The person who is a Thai boxer must learn to punch and be able to use both left and right. right side Must have the goal of punching and punching to be precise (Thanom:2007)

"Creating a new wave of athletes to replace old wave athletes" which "how to create new wave athletes to replace old wave athletes" can be done by using "Talent identification (Talent ID) process for finding athletes who are highly capable at the youth level or may be called a talented person in Thai boxing to participate in the training program of the Thai boxing Association of Thailand. In participating in various international programs which the process of identifying talented people Muay Thai sport will help the Thai boxing association of thailand get athletes who are capable and quality in every aspect both in physiology in physical fitness, psychology, social skills, etc.

Development and promotion of talented people in the field of Muay Thai sports will be an important part for drive Thailand to have more competitive potential because it will result in more efficiency and effectiveness. Therefore, the researcher who is in the profession related to education and sports desire to push for the selection of children with special abilities in Muay Thai sports Before creating a tool for selecting children with special talents in Muay Thai is the next step. Moreover, the researcher is interested in studying the development of the characteristics of children with special abilities in Thai boxing and be a guideline for development from the youth level to the national level in order to search for youth with prominence have a special ability than normal young people. The opportunity to be screened for consideration due to the single sport, the predictor of the performance will be explain in science process more easily than team sports. Therefore, it is interesting to study this research the research results obtained will be an important foundation for further education in other types of sports.

Research objectives

1. To develop the special ability indicator of male Thai boxing youth athletes model not over 17 years olds which used in the selection of male Muay Thai athletes.
2. To evaluate the quality of the youth Thai male boxers' special ability indicator.
3. To establish the normal criteria of the athlete's special ability indicator Muay Thai, youth level Model under the age of 17 years.

## **Literature review**

In the study of "The development of the special ability of Muay Thai athletes at the male youth level" was follow the details as:

1. Theories about people with special abilities

2. Theories about history and the process of identifying sports talent
3. Advantages and limitations of "The process of identifying people with special talents in sports"
4. Principles of search and selection of athletes
5. The composition of the process indicates the person with special talents in sports
6. The process of identifying sports talent in various sports
7. Related Muay Thai research

## **Method**

### **population**

Population used in this research Is a Muay Thai male youth athlete Model not over 17 years old, divided into 3 parts:

Part 1. Thai Muay Thai athletes at the national level Model not over 17 years old

Section 2. Male Muay Thai athletes at the youth level Model not over 17 years old from various sports schools across the country

Part 3. Thai Muay Thai Athletes Model not over 17 years old from municipalities sports schools, throughout the country

### **Sample**

The sample group used in this research was the Thai youth boxing fighter. Model not over 17 year olds 200 people, which the researcher uses the purposive selection method with the following details:

1. The researcher used the purposive random sampling method in athletes, part 1, which is a Thai youth boxing team. Model, age not over 17 years, total 20 people.

2. The researcher used multistage sampling method in the second part of the athlete, which is a young Thai boxing athlete. Model not over 17 years old from various sports schools across the country, total 120 people.

3. The researcher used multistage sampling method in the second part of the athlete, which is a young Thai boxing athlete. Model not over 17 years old from municipalities sports schools, throughout the country, total 60 people.

### **Research process**

**Step 1:** Study documents to determine indications and the special abilities of Thai youth boxing athletes as follows:

1. Study, analyze and synthesize theoretical concepts from textbooks, journals, documents and then brought to the first group of 9 experts to consider the importance of using the special ability indicators of each side to create research tools.

1.1. Check the suitability of the tool body, the special ability indicator of Muay Thai male youth athletes. The researcher determined the list of qualified persons. The researcher used physiological indicators 11 indicators, including body proportions, the strength and endurance of the abdominal muscles, power of the muscles, arms and legs, speed, weakness, agility, strength and endurance of the arm and leg muscles, the maximum amount of anaerobic energy, measuring the reaction between the eyes and hands, and measuring the reaction between the eyes and feet.

1.2. Psychological was 3 indicators, including situation anxiety, Achievement motivation, and concentration

1.3. Identification of Muay Thai skills 6 indicators including punchskills, Straight punch skills, Hook Punchskills, Uppercut punch skill, Set punch skills, and Real phenomenal skills

### **Step 2** Creating research tools

The researcher selected the field fitness test for Muay Thai athletes for testing. Psychological indicators The researcher adopted the CSAI-2R test, which is a standardized test, to be used to test the technical indicators of concern.

### **Step 3** Study of the quality of research tools

1. Content validity by experts To find the index Index of Congruence: IOC
2. Construct validity using the test Known group method

### **Step 4** Creating normal criteria

The researcher created the criteria based on the criteria of the test of the special ability of Thai boxing male athletes at youth That has been analyzed as a quality tool by testing with 200 samples as mentioned above.

1. Establishing the normal criteria of the test of the athlete's special ability indicator

Muay Thai, youth level By using the data to analyze the standard score (T-score) by item

2. Creation of scoring criteria of the special ability indicator test

Muay Thai male youth athletes on each domain and create of the ability criteria for the level of talent of Thai boxing athletes at the youth level.

3. Finding the correlation coefficient between the test items of the test

Indicates the special ability of the Thai youth Muay Thai athletes and the overall score of the indicator By using the Pearson's coefficient of correlation test to study the relationship between each test result and the overall score in various indications.

### **Data analysis**

The researcher used the data to analyze using the SPSS computer program as follows:

1. Analysis of the consistency of experts opinions.
2. Analysis for finding the theoretical structure of the indicator test

Special abilities of Thai youth boxing athletes By using the arithmetic mean obtained from the tests with both groups of samples to compare by using t-test statistics for independent t-test and using Mann-Whitney test by setting the level of significance at the level of 0.05

3. Analysis for finding the precision of the tool with the repeated test method, using the results from the first test and the second Which conducted a test for 1 week apart to analyze the relationship by using Pearson's coefficient of correlation.

4. Establishing normal criteria and the scoring criteria of the indicator test the special ability of young Thai boxing athletes by using arithmetic mean And standard deviation obtained from the test, then use the raw score to convert to the standard score (T-score), separated by test items.

5. Establishing the skill level of Thai boxing athletes with special abilities.

The researcher used the total score of the indicators derived from the scoring criteria of the test of the special ability of the Thai boxing male athletes at each level. As mentioned above to create a criteria for the level of special ability of Thai boxing male youth athletes by dividing the skill level into 5 levels: very good, good, medium, low and very low.

6. Finding the correlation coefficient between the test items of the indicator test

the special ability of the youth Muay Thai athletes and the overall score of the indicator.

## **Discussion**

Based on the results of the research, it was found that the test of the special ability of Thai boxing male athletes at the youth level which identifies the special ability of the Thai male boxing athlete. Which is a tool used in research as mentioned above can be considered as a quality tool because this research has steps to create the right creating tools. According to academic principles It is also consistent with Boom Gartner and Jackson (Baumgartner and Jackson, 1999) with details of test results and observations from each test as follows:

### **Physiological indicators**

(1) Height measurement most of the sample groups have a good level of height, with a total of 65 persons with a height of 168 to 173 centimeters. The sample group that is a Thai national youth boxing team, aged under 17 years, the high average was 169.45 cm

(2) Measuring the length of the arm Most of the samples have a good level of arms. There are a total of 68 people with arms length between 12.56 to 13.97 cm by the sample group that is a young Thai boxing player aged not over 17 years of UbonRatchathani Sports School. Is the group that has the highest average length of arms is 12.79 cm.

(3) Measuring the force of the hand grip most of the samples have a level of ability to measure hand grip force. At a moderate level there are a total of 56 people with a hand grip force measurement between 40 and 53 kilograms. The sample group that is a Thai national youth boxing team, aged under 17 years, is a group with an average of high hand grip force measurement. The highest score was 66.65 kilograms

(4) 1 minute pish-up, with the majority of samples having 1 minute of pish-up there are a total of 89 people with 1 minute pish-up between 5.09 and 6.34 times. The sample group is a Thai youth boxing player aged under 17 years of UbonRatchathani Sports School. Is the group with the average pressure of 1 minute, the highest is 5.36 times

(5) Flexibility, with the majority of the samples having a moderate level of flexible ability. There are a total of 90 people with a distance of 9 to 15 centimeters. The sample group that is a Thai national youth boxing team, aged under 17 years, is a group with an average of flexible. The highest is 19.85 cm

(6) 1 minute sitting-up by most samples have a level of ability to sit - up for 1 minute at a moderate level. There are a total of 77 people with the number of times that can be between 42 and 51 times. The sample group that is a Thai national youth boxing team, aged under 17 years, is a group that has an average of sitting-up ability. 1 minute maximum is 63.05 times.

(7) Standing high jump Most of the samples had a high level of standing ability at a moderate level. There are a total of 59 people with a jump height between 36 and 46 centimeters. The sample group, which is a Thai national youth boxing team, aged under 17 years, maximum is 59.70 cm

(8) Long distance running for 12 minutes. Most of the samples have 12 minutes of long distance running ability at a moderate level. There are a total of 71 people with a distance of 12 minutes to run the distance between 4.98 to 5.95 Km/minute. The sample group that is a Thai national youth boxing team, aged under 17 years, is a group with an average distance of 12 minutes. The longest distance is 6.56 Km / min.

(9) Running a collection of 10 meters, with the majority of samples having a collection of 10 meters at a moderate level. There are a total of 74 people finish between 388.80 to 576.97 seconds. The sample group that is a Thai national youth boxing team, aged under 17 years, is the group with the highest running average of 10 meters, 674.40. second

(10) Measurement of reaction between eyes and hands most of the samples had a level of response between eyes and hands. At a moderate level there are a total of 81 people with an average power of 289.61 to 479.26 seconds. The sample group, which is a Thai national youth boxing team, aged under 17 years, is a group that has an average measure of reaction between eyes and hands. The most is 543.70 seconds

(11) Measurement of reaction between eyes and feet most of the samples had a level of response between eyes and feet. At a moderate level there are a total of 78 people who have measured the reaction between the eyes and feet. The maximum is between 43.24 to 49.43 seconds. The sample of the youth Muay Thai athletes of Ubonratchathani Sports School is the average group that measures the reaction between eyes and feet. The highest is 50.05 seconds.

### **Psychological indicators**

(1) Anxiety test according to the situation Most of the samples were The level of anxiety according to the situation is moderate. There are a total of 71 people with anxiety according to the situation between 13 and 16 points. The sample group that is Thai national youth boxing team, age not over 17 years, is a group with an average of anxiety scores according to situation. The least is 12.20 points

(2) Achievement motivation test most of the sample groups had a good level of motivation, with a total of 80 persons with achievement motivation ranging from 67 to 78 points. The sample group of Thai national youth boxing players, aged not over 17 years, was The group with the highest mean score of achievement motivation scores was 69.75 points.

(3) concentration test most of the samples had moderate levels of concentration. There are a total of 77 people with a concentration between 6 to 9 points. The sample group that is a Thai boxing team, Thai national youth team, aged under 17 years, is the group with the highest average concentration test score is 19.00 points.

### **Muay Thai sports skill indicator**

(1) Punch test most of the samples have the ability to test the punch. At a moderate level There are a total of 62 people who are capable of between 50 and 75 times. The sample group that is Thai national youth boxing team, aged under 17 years, is the group with the highest average for the punch test. Is 111.89 times

(2) Testing of straight punches most of the samples have the ability level. In a straight punch test At the low level, there were 64 people with the ability between 1 and 5 times. The sample group that is a Thai national youth boxing team, aged under 17 years, is the average group in the punch test. The highest straight punch is 17.78 times.

(3) The punch test for the hook, with the majority of the samples having a moderate level of punch test ability There are a total of 85 people who are capable of being between 10.61 to 12.63 seconds. The sample group that is a Thai national youth boxing team, aged under 17 years, is a group that has a high average in the test of the punch. The most is 8.98 seconds

(4) Uppercut punch punching tests, with the majority of the samples having a moderate level of ability to test the upper cut punch There are a total of 64 people who are capable of between 56 and 68 points. The sample group that is a Thai national youth boxing team, aged under 17 years, is a group that has the average test for punching the upper cut. The highest is 90.81 points

(5) Punch set test, with the majority of the samples having the ability to test the punch set at a moderate level There are a total of 64 people who are capable of between 57 and 69 points. The sample group that is the Thai national youth boxing team, aged under 17 years, is the group with the highest average in the punch set test. Is 90.80 points

(6) Test of the ability in real situations by the majority of sample groups. In the punch test, the set is moderate. There are a total of 64 people who are capable of between 58 and 70 points. The sample group that is a Thai national youth boxing team, aged under 17 years, is the group with the highest average in the ability in real situations is 90.83 points

According to, Tannen Baum (Tannenbaum, 1993) that said that athletes with special abilities will not be more than 1 - 2 percent in each development stage. Therefore, showing that the tools created by the researcher have good qualities for identifying athletes with a high ability compare athletes with normal abilities. And it is still interesting to study for follow-up and testing the effectiveness of long-term research tools that are used more than boxing athletes.

From all of the above, it can be seen that the test of the special ability of Thai boxing male athletes at the youth level developed by the researcher is a high quality be convenient and easy to use. However, the researcher has suggestions for trainers, teachers, and interested people to test the special ability indicator of Muay Thai male youth athletes. In order to obtain accurate and effective test results

### **Conclusion and Suggestion**

1 . There should be a test of the special ability indicator of Thai boxing male athletes that the researcher developed to be used to test or select Thai athletes with special abilities

2 . The program should be planned as the system does not overlap and should be improved not much. Making it reach the highest potential point before reaching the right time. It may cause injury until unable to develop further In order to help Thai boxing athletes with exceptional ability to develop their potential in the future.

3 . The normal criteria should be improved at the score of the test of the special ability of Thai boxing athletes at the youth levels every 5 years to ensure that the normal criteria are suitable for the most current.

4 . Sports should be developed for excellence. There should be a department that is responsible for direct identification of Talent identification (Talent ID).

### **Suggestions for further research**

1. Special sociological abilities should be applied in consideration as well.
2. There should be a study on identifying athletes with special abilities in other sports.
3. There should be a study to follow up the long-term results. (Longitudinal study)
4. Quality improvement and follow-up of the indicator test  
The special ability of the Muay Thai male youth athletes in the future

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