#### REVIEW ARTIKEL THE EFFECT OF DRILL AND ELEMENTARY TRAINING TO FOREHAND ABILITY OF TENNIS ATHLETES

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# The Effect of Drill and Elementary Training to Forehand Ability of Tennis Athletes

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Article Info	Abstract
Article History :	Tennis athletes really need to master the forehand stroke well. A quality forehand technique will give athletes high confidence to be
Received : Revised : Accepted : Available online :	able to play tennis wellThis study aims to determine the effect of drill and elementary exercises in improving the forehand hitting ability of JPOK tennis athletes. The research method used is experimental. The study was conducted as many as 16 times the exercise. The subjects in this study were JPOK student tennis
Keywords:	athletes, totaling 16 people. The sampling technique used is total sampling. The research instrument used was the Hewitt tennis achievement test to determine the forehand ability. Analysis of
Tennis, Forehand, Trainning	research data using t-score analysis to test the difference in the pre- test and post-test scores. The level of validation value is 0.63 and the level of reliability value is 0.75. The results of this study that both drill and elementary training methods can improve the forehand hitting ability of JPOK tennis athletes. The results of data analysis, drill exercises obtained t-count is greater than t-table
	17.60 > 2.365. Forehand only effect, t-count is greater than t-table $8.05 > 2.365$ . Drill and elementary training methods can be used as exercises to improve tennis athletes' forehand skills. Drill training is known to have more effect on tennis forehand ability.
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#### **INTRODUCTION**

Tennis is an individual sport. This game requires good basic technical skills as an indicator of mastery of the game. The basic techniques in tennis include: Forehand groundstroke, backhand groundstroke, Forehand volley, backhand volley and service (Brown, 2016). Basically, to become an athlete who is proficient in playing tennis, athletes are required to master all the basic techniques. However, in tennis, the forehand technique is the first technique that must be mastered before developing other techniques.

Forehand is one of the basic techniques in the game of tennis

(Sianipar, 2019), (Ngatman & Sulistyatna, 2017), (Maulidin et al., 2020), (Fauzan & Sarmidi, 2020). The forehand can be the main stroke in the game. Forehand is a stroke that is often used by tennis athletes as the main stroke to defend and attack. This is because the results of the forehand stroke make the ball have a harder spin than the backhand shot (Evita, Yuniar; Subagio, 2016), (Alexandru et al., 2014). Many athletes use forehand strokes in the game. It can be observed that in tennis, forehand strokes are very common in tennis (Dewi Angraini, 2020) and half of all strokes in court tennis are forehand (Brown, 2016). The forehand is also the most effective shot to attack in tennis. A player uses forehand strokes to attack on the forehand and backhand sides. We can observe that there are players who always use forehand strokes even though the position of the ball that comes is on the backhand side.

In modern tennis, the forehand technique is the initial foundation that must be mastered players by (Sinulingga, Andrew Rinaldi & Nova, 2020), because if this punch is developed it will produce the most powerful blow. The power used to make a forehand shot and generated from this stroke is usually more maximal than a backhand shot. The result of the forehand hit makes the ball spin topspin aggressively, so this hit is very important because, namely: this punch is needed to attack with the forehand and backhand sides, this hit can be the main hit to make an attack, and is the most frequently used hit to do a smash. The key to success or sequence in order to be able to perform the forehand drive technique can be divided into three stages, namely: the preparation stage, the implementation stage (back swing and forward swing), and last stage (Mahendra, 2012).

Technical training in sports, it requires approaches and methods that are more effective and efficient. Technical training is a special exercise intended to form and develop motor habits or develop neuromuscular from each sport. Perfection in mastering the basic techniques of each movement is very important because it will determine the overall movement. Method of technical training according to Rothig & Grossing in (Syafruddin, 2012) can be distinguished based on two points of view, namely: (a) the view from the point of view of the person who trains or the athlete and (b) from the point of view of the coach or the person who coaches. If viewed from the point of view of people who practice or athletes, then the method of technical training can be divided into active training, observation training, and mental training.

One of the methods of active training is drill and elementary exercises. Drill drill is an exercise that is done repeatedly in earnest with the aim of strengthening an association or perfecting a skill so that it becomes permanent (Dwijaya et al., 2020). The advantage of the drill method exercise is that the athlete will have more time before hitting because the ball fed by the coach bounces more slowly (Gunarto &

2020). Having time Adnyana, to anticipate the arrival of the ball makes it easier for athletes to adjust their position before making a forehand shot. With drill exercises, athletes are given the opportunity to be able to make more strokes so that athletes have the opportunity to master the forehand strokes well. Elementary training is technical training in sports that is carried out part by part or the exercises carried out are separated into each part in technical training. Each movementelement must be mastered before the next movement proceeding to (Palmizal. A, 2020). Elementary practice results in mastery of good movement coordination (Ilham & Marheni, 2018). Coordination is the ability to combine several movements without tension, in the correct order, and to perform complex movements smoothly without excessive energy expenditure. Good coordination of movements can combine complex biomotor abilities. verv Athletes can also integrate different types of movement into one or more specific movement patterns. The forehand has a systematic movement pattern. The movement pattern must be carried out in accordance with the sequence of movements. Athletes must be able to master the pattern of forehand movements from start to finish. If the movement phase pattern is missed, then the forehand stroke results are less than Therefore, the trainer is optimal. expected to be able to provide exercises for mastering each phase pattern of the forehand movement.

Based on the results of field observations, it was found that the ability of student athletes in performing the forehand technique was still unsatisfactory. This can be observed from the results of forehand strokes in returning the ball that sometimes fail. In addition, the results of forehand strikes are often weak and fall in areas that are easily reached by the opponent. When observed the from process of implementing the forehand stroke, there are student athletes who perform a series or movement phase that is still less than perfect. The less perfect movement phase occurs when you don't exactly do footwork when you're about to hit. This affects the anticipation of the direction of the ball coming. In addition to these problems, the quality of the racket swing (from backswing to follow strough), there are mistakes that are often made. Improper swing of the racket causes the quality of the forehand stroke to be weak. Athletes who have these deficiencies make the results of their strokes less hard and tend to play safe by returning the ball that came in. To produce a quality shot, the athlete must get the right filling and timing when making a shot (King et al., 2012). This problem is a concern for the coach and must be anticipated immediately, because, if left alone, the quality of the JPOK student athlete's game will not be good. Athletes who can play tennis well can master the performance of cognitive and motor skills and can be an indicator of skill level (Amico & Schaefer, 2022).

To do movement exercises and get good motor skills requires good effort (Schaefer, Sabine & Scornaienchi, 2020), (Schaefel, Sabine; Jagenow, 2015). Efforts made by the author to improve the forehand tennis skills of JPOK student athletes are by providing drill and elementary exercises. The exercise is based on the author's assumption that it is very suitable to be applied. Athletes who are given drill training have the opportunity to be able to make more strokes. This opportunity can be used by athletes to be able to create movement habits and get motion automation. Good exercise can form cognitive abilities in learning motion so that athletes can get motion automation (Furley, P., & Wood, 2016).

Elementary exercises are very suitable to be applied. Athletes who are given elementary training are given the opportunity to be able to carry out the movement part by part or the exercises carried out are separated into each part of the technical training. This exercise provides an opportunity for students to be able to improve every phase of movement in tennis forehand strokes. By being given the opportunity to do exercises in each phase, it makes athletes to be able to carry out each phase of the movement well and is expected to produce better quality forehand strokes. Based on the background above, the hypothesis is taken in this study, namely 1) drill exercises have a significant effect on the forehand ability of JPOK student athletes, 2) Elementary training has a significant effect on the forehand ability of JPOK student athletes.

## **METHODS**

The research method used in this study is a quantitative research method with a descriptive approach, namely the data generated in the form of words or narratives. This research uses research. experimental Experimental research is research to determine the effect of the independent variables on dependent variable (Sugiyono, the 2016). Variables are the subject matter that is appointed as the title of a study (Fathoni Hidayat, 2019). There are 2 variables in this study, namely the independent variable and the dependent variable. The independent variables in this study are drill exercises and elementary exercises. The dependent variable is forehand ability. The research method used is an experiment with a one-group pre test-post test design. Determination of the design refers to the opinion (Sudjana, 2014) the experimental units grouped in a group in such a way that the experimental units in the group are relatively homogeneous and the number of experimental units in the group is the same as the number of treatments being studied. The treatment in the study was carried out with the first meeting carrying out the initial test, the treatment at the 2nd meeting until the 15th meeting by passing the treatment, and at the 16th meeting the final test was carried out. By using this research method, it aims to determine the effect of exercise on a variable on the experimental group by basing on the results of the pre test and post test. The pre-test and post-test data were collected using the Hewitt Tennis Achievement Test test instrument which was modified according to the needs of forehand stroke data collection. The test instrument was written by James S. Bosco and William F. Gustafson (in (Mulya & Agustryani, 2020). The test to measure the forehand has a validity level of 0.63 and a reliability level of 0.75.

## Participants

Population is a generalization area consisting of objects/subjects that have certain quantities and characteristics determined by the author to be studied and then conclusions are (Sugiyono, 2016). obtained The population of this study was the JPOK Club tennis players, totaling 16 people. After determining the research population, the next step is to determine the research sample. Sample based on opinion (Susanti, 2019) a part that is selected in a certain way to represent the entire population group. The similarity of the characteristics of the sample with the parent population causes the sample to be a representative of the population. The sample in this study was the JPOK Club tennis players, totaling 16 people. The characteristics of this research sample consisted of several levels of force and their status was still an active JPOK student who was still actively practicing tennis at the JPOK Club.

#### Sampling Procedures

Sampling using total sampling technique. Total sampling is a sampling technique where the number of samples is the same as the population (Sugiyono, 2016). The reason for taking the total sampling was because the total population was less than 100. The number of samples in this study were 16 athletes. The location used in this study is in the field of the JPOK FKIP ULM Banjarbaru campus, which is located at Jalan Taruna Praja Rava. North Loktabat, Banjarbaru City, South Kalimantan. The field where this research is located has good conditions so that it can be used for athlete training.

## **Materials and Apparatus**

This research requires equipment used for testing and for giving treatment. This equipment is a tool in collecting research data so that it can determine the quality of the data collected (Hamni Fadlilah Nasution, 2016). The equipment needed is a) Tennis court for single game, b) Racket, c) Tennis ball, d) Rope, e) Meter, f) Score list, g) Duct tape, h) Camera, i) Documentation book.

#### Procedures

This research is an experimental research. This research pattern uses the M-S pattern or Match Subject Design. This means that matching is done by subject and subject. Grouping the group by making two groups, namely the experimental group and the control group. The pairing used is ordinal pairing. To balance the two groups, this is done by means of subject matching ordinal pairing, namely subjects whose results are the same or almost the same in the initial test, ranking is carried out and then paired with the AB-BA formula. Thismethod, two groups are formed that have a balanced level of ability. This aims to provide equal opportunities for both groups to be the experimental group and the control group, so that the subjectivity of the researcher is not included in it. The experimental group did drill exercises and the control group did elementary exercises.

The steps taken in group formation are:

- 1) Carry out a pre test to determine the ability of forehand strokes. The results of this initial test serve as the basis for group division. The test model used is: Hewitt Tennis Achievement Test. This initial test was carried out with a sample procedure of 10 forehand strokes, previously given the opportunity to each perform 3 forehand strokes as an experiment. Samples are called one by one according to the list of numbers that have been compiled. After the score taker and target supervisor were ready, the sample tested forehand strokes 10 times. The ball from the forehand must enter above the net and under the rope stretched over the net at a height of 2.13 m from the floor. The result recorded is the number of balls that enter the score. If the ball passes over the rope, then the score is divided by 2.
- 2) Divide the group into two, namely the experimental group and the control group. The treatment in this study was the experimental group doing drill exercises and the control group doing elementary exercises. Exercise is done 4 times a week and lasts for 4 weeks. The frequency of this exercise in accordance with is the considerations T.L.E.L., (Fox. Bowers, R.W., dan Foss, 2013), (Kizilay et al., 2016).
- 3) After the experiment was completed, post-test data was collected using the same test instrument as the pre-test. The post test is carried out with the aim of knowing the results of the exercise achieved by the testee from each group after carrying out the training program (Wanli, 2011).

#### **Design or Data Analysis**

Experiments and tests have been completed, the next step is to tabulate calculate data to descriptive the statistics. Hypothesis testing is done by testing the requirements of the data normality test and homogeneity test using Kolmogorov Smirnov and chisquare. The next step is to perform a paired t-test. The analysis of the experimental results is based on subject matching (M-S) using a t-test on a related sample (Sutrisno Hadi, 2015) (Sutrisno Hadi, 2015). Testing the research hypothesis is carried out with the provisions of the pre-test if the tcount value is equal to or greater than the t-table then this hypothesis is rejected. If the t-count value is smaller than the t-table value, the null hypothesis is accepted. If the results of the pre-test at the time of the post-test, the t-count value is greater than the t-table, then the null hypothesis is accepted. If the value of t-count is smaller than t-table, then the null hypothesis is rejected. This data processing uses a computerized system with Statistical Product and Service Solutions (SPSS).

#### RESULT

Data analysis was carried out to obtain an answer to the formulated problem and the research hypothesis. Data processing is carried out using statistical formulas so that it can be seen which form of forehand exercise affects the athlete's tennis stroke.

Based on the statistical data processing procedure, after ranking the sample scores from the highest score to the lowest score. The next step is to group it with the AB-BA procedure. After grouping, group A and group B were obtained. Group A or the experimental group did drill exercises and group B or control group did elementary exercises. The next step is to find the average score and standard deviation. These values are used to test for normality, homogeneity, improvement, and hypothesis testing. The average value and standard deviation of the initial test, post-test and improvement of the two groups can be seen in Table 1.

**Table 1.** The results of theaverage value, standard deviation, pre

Group	Tes	X	Sd
Group A	Pre test	15,88	7,18
(drill	Post test	19,50	7,36
excercise)	Enhancement	3,62	
Group B	Pre test	15,69	6,34
(elementer	Post test	17,38	6,35
excercise)	Enhancement	1,69	

# test and post test and the improvement of the forehand test

Based on the table above, it can be seen that the results of group A in the pre-test were 15.88. Post-test was 19.50, an increase of 3.62, the results of group B. in the pre-test was 15.69. Post-test was 17.38, an increase of 1,69.

#### Normality Test Results of Pre-Test and Post-Test Data

The next step of data analysis is to test the normality of the data using the Lilliefors statistical test. The results of testing the normality of the initial and final test data for both groups can be seen in Table 2.

Table 2. Normality Test Resultsof Initial Test and Final Test of Forehand

Δ hility

Ability							
Group	Test	Lcount	Ltable	Interpretation			
Group A	Pre	0,112	0,285	Normal			
(drill	test						
excercise)	Post	0,107	0,285	Normal			
	test						
Group B	Pre	0,135	0,285	Normal			
(elementer	test						
excercise)	Post	0,127	0,285	Normal			
	test						

Based on Table 2 above, it is known that the calculated L value (L0) for the initial test and post-test for both groups is smaller than the L table at a significance level of 0.01 with a number of samples (N) 8. This means that the data is normally distributed. This refers to the Lilliefors normality test criteria that if L count (L0) < L table, then the data is normally distributed. Meanwhile, if L count (L0) > L table, then the data is not normally distributed.

## **Results of Homogeneity Test of Pre-Test and Post-Test Data**

The next step of data analysis is to test the homogeneity of the initial test data and test the homogeneity of the final test data for each group. The results of the data homogeneity test from each test can be seen in Table 3.

Table 3. Results of Homogeneity Testing of Pre-Test and Post-Forehand

Test Data						
Test	F count	F table	Interpretation			
Periode						
Group A (drill	1,01	4,99	Homogeneous			
excercise)						
Group B (elementer excercise)	1,34	4,99	Homogeneous			

Test Data

The criteria for testing the homogeneity of the hypothesis Ho can be accepted if F (1- $\alpha$ ) (n-1) < F  $\frac{1}{2} \alpha$  (n1 - 1, n2 - 1), and reject Ho if F (1- $\alpha$ ) (n-1) > F  $\frac{1}{2} \alpha$  (n1 - 1, n2 - 1). On the basis of testing the two variance similarities in Table 3 above, the F count for the initial test group A of 1,01 smaller than F tabel (0,025,7/7) is 4,99. The interpretation of the test results is homogeneous. While the results of the final test of group B are 1,34 smaller than F tabel (0,025,7/7) is 4,99. The interpretation of the test results is homogeneous.

#### Hypothesis testing

The hypotheses in this research are (1) Drill exercise has a significant

effect on the forehand skills of JPOK tennis athletes. (2) Lamenter training has a significant effect on the forehand skills of JPOK tennis athletes. Hypothesis testing on the results of group A and group B is presented in Table 5.

Table 4. Hypothesis Testing of Exercise Results Groups A and B

				-	
Group	X	Sd	t	t	Interpretation
			count	table	
Α	19,50	7,36	17,60	2,36	Not
В	17,38	6,35	8,04	2,36	Significant

Based on the results of the t-test calculation, it shows that there is no difference in the two test groups, at a significance level of 0.01. This shows that drill and elementary exercises have the same effect on forehand ability. Thus the null hypothesis is accepted, and the alternative hypothesis is rejected.

#### DISCUSSION

Based on the results of data analysis, it was found that drill exercise had an effect on the forehand ability of JPOK tennis athletes, the t-count was greater than t-table 17.60 > 2.36. Elementary exercise has an effect on the forehand ability of JPOK tennis athletes, obtained t-count is greater than t-table 8.04 > 2.36. Drill and elementary drills are tennis forehand skills that can contribute to improving the achievement of training goals. This is in accordance with the results of research conducted by (Yusuf et al., 2019) that drill training has effect on increasing tennis an groundstroke ability. Drill exercise is a form of exercise that is carried out by providing a planned and systematically

arranged program that is carried out repeatedly or continuously. Drill training is a trainer-oriented training method and is very suitable if the learning goal is for athletes to master certain movement skills (Wahyu Cirana et al., 2021). Drill excercise have an element of repetition training. Drill exercises are exercises that focus on one material and focus on repetition (Akwila Febri Pradana, 2016). Repeated exercises that are carried out continuously can form motion memory in athletes so that athletes can get movement automation. If the automation of motion has been obtained, the athlete can easily master every movement that has been trained. The increasing results of forehand strokes from pre test and post test through drill exercises can be concluded that athletes can do good exercises with repetition exercises that are carried out to obtain quality automation of forehand movement strokes.

exercises Elementary are exercises that are carried out step by step, or provide training material based on the phases of the movement (Palmizal. A, 2020), (Muji Rahayu, 2020). From this exercise the athlete is able to analyze each phase of the movement in doing the forehand stroke. An indicator of the success of tennis athletes in hitting forehands well is by performing each phase of the movement perfectly. So in every exercise the athlete must really master every phase of the movement. If in the forehand movement phase there is a wrong movement phase then the forehand stroke will not be perfect. Phases of movement that must be mastered by athletes in doing forehand according to (Brown, 2016) are the stages of preparation, implementation, and further movement. preparation stage for The the implementation sequence is (1) grip, (2)swing the racket back first, (3) turn sideways to the net and step towards the target. The implementation stage, the order of implementation is (1) move the body weight forward, (2) swing the racket parallel to the field, (3) wrist lock, (4) focus on the ball, hit the ball on the racket's sweat spot and hit it as soon as possible. . The advanced movement stage in the sequence of execution is, (1) continue swinging after hitting, (2) swing the racket across and up, and direct the racket towards the target. To get a good quality forehand, the athlete must master every phase of the forehand movement. The exercise process that is carried out carefully and repeatedly will biomotor abilities (Evita, improve Yuniar; Subagio, 2016). This can cause athletes to be more skilled, strong and efficient in carrying out movements and result in increased forehand skills.

# CONCLUSION

Based on the results of data analysis in this study, it can be concluded that 1) There is an effect of drill and elementary exercises on the forehand abilities of the JPOK Club tennis athletes, 2) The drill training method has a better effect than elementary training on the forehand abilities of the JPOK Club tennis athletes. The coach can apply drill and elementary exercises to improve the athlete's forehand hitting ability.

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