Effect of Football Training Program on Technical Performance of Short Pass and Receiving the Ball of Maharashtriya Mandals Pune Vyayamshala Players

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Abstract: The purpose of the study was to develop skill short pass and receiving to beginners football players under 12 year. The researcher was conducted. "Effect of Football Training Program on Technical Performance of Short Pass and Receiving the Ball of Maharashtriya Mandals Pune Vyayamshala Players." Population of the study were from 9 to 12 football players of M.M.P.V. Beginner Football Coaching Primary School purposive sampling technique was used to select the subjects. 20 subjects the age from of 9 to 12 were selected from M.M.P.V. Football Coaching Beginner Pune. McDonald soccer skill test was used to find the push pass of ability of the players. Experimental design was used for this research to find out the difference. The research was conducted in three phases the 1st phase the pre-test, the 2nd phase the training program, and the 3rd phase the post-test. Descriptive statistics was used to find out the mean, median, standard deviation, minimum and maximum scores. Then paired sample t-test was used to find the comparison of pre and post test. The mean score of the pre-test was 5.35 & 3.75 and post-test showing a significant increase to 8.6 & 6.5. Hence there was a significant difference of the training program on the passing and receiving of the 9 to 12 football players.

Keywords: Football, technical performance, maharashtra mandal, vyayamshala players

1. Introduction

1.1 Introduction

Soccer has a long history. In the sport's early days, players worked as individuals, running with the ball as far as they could, hoping that a teammate would take up the running after they lost control of the ball. In those days players rarely headed the ball, and goalkeepers were too unprotected to risk catching the ball too often. Then came the passing game. Let the ball do the work, someone said. Heading, tackling, intercepting and goalkeeping all became specialized skills. In the 1900s a Scottish international goalkeeper discovered scientific techniques of narrowing the angle of a player's shot, while two English defenders developed the offside tactic, whereby opponents were put offside on purpose. After this time, team tactics became important and the sport increased in its scope. The European Championship and the World Cup gave soccer more importance. And the spread of soccer in the United States has given the sport a world stage. Not is played worldwide, but it is a sport that can appeal to all individuals, we have to take the same journey as the sport itself getting to know the rules, practicing basic skills and then learning team tactics and organization. Take it one stage at a time. You cannot shoot before you can pass, just as you cannot run with the ball before you can bring it under control. You cannot score the winning goal in a World Cup Final until you know about soccer.

When kicking or passing the ball, different parts of the foot used for different purposes the instep for are power, the inside of the foot for accuracy, the outside of the foot for swerve or disguise. Kicking the ball is something can practice, either on their own or with others. Start with the ball stationary, but quickly to kicking a moving ball go on because that is what you will have to do in a game.

Instep Pass: The instep is the most powerful of all the pass passes because it uses the movement that produces the most powerful kick in the soccer the instep drive. The instep pass comes off the instep, or laces, portion of the foot. Receiving: Involves not only gaining control of a moving ball but also being prepared to use the ball in performing a subsequent skill or tactic quickly and effectively. The true skill of receiving involves anticipating what's about to transpire on the field so that the players first touch of the ball, which is so critical, prepares him or her optimally. Balls played on the ground can be received with any of the three main surfaces of the foot: inside, outside, or instep. Which part of the foot is used depends on the angle of the incoming ball and the action the player wants to take immediately after receiving it. A defender pressuring you as you receive the ball with your back to the goal might necessitate receiving the ball with the outside of the foot to keep your body between the defender and the ball. The inside of the foot is very effective in receiving a ball when you are facing your attacking direction; you open your hips, receive the ball across your body, and have the greatest vision of the options for passing or dribbling.

Different methods of control:

Inside and Outside of the foot
This technique is used to control the ball cleanly and quickly on the ground.
1.2 Objectives of study

1.5.1 To prepare football training program for short pass and receiving.
1.5.2 To know the weak and strong points for the football players.
1.5.3 To analyze the technical performance of short pass and receiving football.

1.3 Assumptions

Specific skills of adolescent soccer players. The participants and number 20 players aged 9 - 12 years from M.M.P.V. Height and body mass. Six football skill tests were administered: ball control with the body, ball control with the head, dribbling with a pass, dribbling speed, shooting accuracy and passing accuracy.

1.6.1 It is assumed that all the players for this study will follow the instructions and provide true information.
1.6.2 The know the basic rules and regulations of the game.
1.6.3 It is assumed that the players have undergone different training programs.
1.6.4 It is assumed that the players know e- techniques of passing and receiving the ball.

1.4 Delimitations

1.7.1 The study is delimited to the male player of MaharashtriyaMandals Pune Vyayamshala team between age (9 to 12) years.
1.7.2 The study is delimited to 9 to 12 years old boys from Pune Vyayamshala.
1.7.3 The study is delimited only to short pass and receiving football.

1.5 Limitations

1.8.1 Researcher will not have any control on the diet of subjects.
1.8.2 It is not possible to control mental status of athletes.
1.8.3 Researcher will collect data with the help of teacher made rating scale as there is no standardized tool available.
1.8.4 Researcher will not be able to control any change in timing of session by Pune Vyayamshala.

1.6 Operational definitions

Training program :- program made by researcher for the study which will be implemented on the players of maharashtriynamandal.

2. Implementation Details

2.1 Introduction

This chapter covers the method of the study which includes design of the study, sampling, variables, procedure of the test, and the details of the training program. It describes in detail what will be done, how it will be done, what data will be needed and what data gathering devices will be used.
2.2 Method of study
As the researcher wanted to see the effect of the strength training program to improve short pass and receiving from 9-12 football players. The study was conducted by experimental method.

<table>
<thead>
<tr>
<th>Single group pre-test post-test Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>O 1</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>O 2</td>
</tr>
<tr>
<td>Pre-Test</td>
</tr>
</tbody>
</table>

For this research researcher has selected the one group pre-test and post-test Design.

2.3 Variables of the study
Strength training exercises were selected to see the effect on short pass and receiving of 9–12 football players. It was based on the study of the literature and discussion with the experts, the following variables were selected.

2.3.1 Independent variable
Selected exercises were used as independent variables in the present study. After discussion with the experts and reviewing the available literature in this field, the following exercises listed below were selected as independent variable and they are listed below.

2.3.2 Dependent variable
Strength training exercise was used to see the effect on the short pass and receiving the ball, the dependent variable used is the short pass and receiving.

- Push pass on the standing.
- Give and Move Back.
- Pass With Move –Place changing.
- Receive With Move-Split the Triangle.
- Pass With Moving and Running-Push Passing on the Move-Pass, Turn, Pass.
- Wall Passing.
- Controlling and Passing on the Move.

2.3.3 Confounding variables
- Intervening - interest, fatigue, different training methods, physical fitness.
- Extraneous – diet, psychology of subject, status, fitness...

2.4 Sampling technique
The Population of the study is the students of M.M.P.V. The purposive sampling technique in the beginning was designed to select sample from M.M.P.V 20 students were selected as sample

2.4.1 Population
All the football players below the age of 12 from M.M.P.V. Football coaching program is the population of the study (N 20).

2.5 Tester Competency
The researcher selected only standardized test as constructed by McDonald’s. A special clinic was held before the test, for the benefit of the test administrators who assisted in conducting the test so as to acquaint them with various technicalities, such as the mode of short pass and receiving and the test items so that they were competent enough to administer the test effectively.

2.6 Reliability of the Data
In order to ensure the reliability of the data collected, the researcher took precautionary measures to administer the test in a smooth and systematic manner. The researcher selected appropriate tools, required for conducting the test and these were used during the pre-test and post-test.

Score Sheets
Appropriate score sheets were duly prepared for recording the scores of each test item separately.

Equipments
The researcher selected the following equipment after thoroughly checking there working conditions and accuracy.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A stopwatch, Whistles</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>A soccer kickboard,</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Three soccer balls,</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Soccer field,</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Marking powder,</td>
<td>2 kg</td>
</tr>
</tbody>
</table>

Ground Marking
The researcher made it a point to report at the testing place in time, prior to the scheduled time of the test, to ensure that the requisite facilities for administering the test were as per the specific technical requirement in such cases the researcher personally re-checked the measurement of the field to ascertain accuracy in measurement of performance of the subjects.

3. Selection of the Test
3.1. Administration of the Test
All the 20 subjects were tested on pre and post training, which comprised of McDonald’s skill test of football. Necessary instructions were given to the subjects. The test was administered in the following manner.

McDonald’s Skill Test
McDonald an expert studied the basic skills of football and how they could be measured so as to increase the standard progress and interest in player. He conducted several tests out of which the kicking test with a restraining line distance of 9 feet, 15 feet, 21 feet and 30 feet from the kickboard.
3.2. Description of the Test

Test Passing and receiving for accuracy.

- **Purpose**: To measure the passing accuracy of u-12 football players.
- **Equipments**: Soccer balls, field markings score sheet, stopwatch, whistles.
- **Procedure**: Player works to pass the ball must remain fixed in its field the ball right to get to Colleague.
- **Instructions**: Take a running start and pass the ball with instep or inside foot using the right or left foot as far as possible from the marked line targeting the goal area.
- **Scoring**: The subject is given four 30 second attempts and the final test score is provided by the sum of kicks of the three best trials.

**Reliability:**

In 1951, during his postgraduate A study McDonald constructed the soccer skill test for measuring accurate kicking, ball control and judgment of a moving ball in soccer. The test was constructed on college men and the validity coefficient of the test ranged from (0.63 to 0.94).

3.3. Procedure for gathering data

For the present study 20 students of M.M.P.V Pune were chosen. The subjects were in single group for the dependent variable. Whole experiment was conducted in 3 phases.

4. Data Analysis and Interpretation

4.1 Introduction

This chapter provides a quantitative analysis of the data utilizing statistical procedure. It helps for an easy understanding of the data processing, which is in simple to complex manner so that overall results can be viewed distinctly. To see the effect of eight weeks strength training program on the passing and receiving of 9 to 12 football players of Maharashtriya Mandal's Pune Vyayamshala Beginner's Football players.

The effects of independent variables on selected passing and receiving were determined through the collected data by using appropriate statistical techniques and the results are presented below. The analysis of dependent 't' test on the data obtained for passing and receiving of the pre-test and post-test means of football skill training and control groups have been analysed.

The data collected before and after training was computed and the final results are presented in this chapter in the form of different tables with their interpretation. In this chapter the stated problem is solved and the formulated hypothesis is tested in the investigation.

Descriptive and paired sample 't' test statistical procedures were designed and used for their analysis of data. The results were thoroughly interpreted and also graphically presented.

This table shows the strength training scores of pre-test mean (average) score, standard deviation and standard error.
of the mean of McDonald soccer test of short pass and receiving.

4.2 Analysis

<table>
<thead>
<tr>
<th>Table 4.1</th>
<th>Description Statistics Pre and Post-Test of Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pre-Test</strong></td>
<td><strong>Post-Test</strong></td>
</tr>
<tr>
<td>Mean</td>
<td>5.35</td>
</tr>
<tr>
<td>Median</td>
<td>5</td>
</tr>
<tr>
<td>Std. Deviation</td>
<td>1.49</td>
</tr>
<tr>
<td>Std. Error Mean</td>
<td>0.33</td>
</tr>
<tr>
<td>Minimum</td>
<td>3</td>
</tr>
<tr>
<td>Maximum</td>
<td>9</td>
</tr>
</tbody>
</table>

The above table 4.1 represents a descriptive statistics of McDonald test for passing in soccer. There were total 20 subjects from Maharashtriya Mandal's Pune Vyayamshala Beginner's Football players. There mean for pre-test the passing was 5.35 with standard deviation 1.49. There mean for post-test the passing was 8.6 with standard deviation 2.21It means these players performed average 9 passes in 30 Sec. and 7times successfully received the ball.

The above table 4.1 gives a clear description of the results of the strength training program in Pre and Post-Test of the McDonald soccer for passing showing the scores of the mean, medium, standard deviation, standard Error Mean, minimum and maximum scores.

<table>
<thead>
<tr>
<th>Table 4.2</th>
<th>Description Statistics Pre and Post-Test of Passing (Paired Samples)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable</td>
<td>Paired Differences</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------------</td>
</tr>
<tr>
<td>Pre-Test Passing</td>
<td>5.35</td>
</tr>
<tr>
<td>Post-Test Passing</td>
<td>8.6</td>
</tr>
</tbody>
</table>

Above table 4.2 shows that the mean difference between pre and post passing test is 3.25 the ‘t’ value for this test is found 11.24with degree of freedom 19. which is significant at 0.01 level therefore it can be interpreted that there is significant difference in the pre and post test performance.

Comparison of Pre and Post Test for Passing

From figure 4.1 gives a clear description showing an increase in the post-test of McDonald soccer test of passing of 9 -12 football players after the training program. There is an increase in the mean from 5.35 to 8.6 .It is seen that the mean of post-test is greater than that of pre-test passing ball.

Descriptive statistic: this statistical tool provides a comparison of the pre and post test of the strength training program on the short pass of 9-12 football players showing the mean.

The above figure gives a clear comparison of the strength training program and its effect on the short pass of 9-12 football players between the pre and post test scores. The graph shows an increase in the mean scores there was a difference in the mean in the pre-test and the post-test with the blue bar showing the results for passing of 9 to 12 football players. Paired sample t-test: This statistical tool helps us to understand the mean, SD, T value, degree of freedom of pre and post test.

<table>
<thead>
<tr>
<th>Table 4.3: Paired Correlation of Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>Pre-passing</td>
</tr>
</tbody>
</table>

From the table 4.3 the correlation between pre-test and post-test of Passing is .82 which is statistically significant at 0.001 level. Hence, this indicates that there was an improvement due to prescribed training program.

<table>
<thead>
<tr>
<th>Table 4.4: Description Statistics Pre and Post-Test of Receiving</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pre-Test</strong></td>
</tr>
<tr>
<td>Mean</td>
</tr>
<tr>
<td>Median</td>
</tr>
<tr>
<td>Std. Deviation</td>
</tr>
<tr>
<td>Std. Error Mean</td>
</tr>
<tr>
<td>Minimum</td>
</tr>
<tr>
<td>Maximum</td>
</tr>
</tbody>
</table>

The above table 4.4 represents a descriptive statistics of McDonald test for receiving in soccer. There were total 20 subjects from Maharashtriya Mandal's Pune Vyayamshala Beginner's Football players. The mean for pre-test the receiving was 3.75 with standard deviation 1.20. The mean for post-test the receiving was 6.5 with standard deviation 2.03. It means these players performed average 5 passes in 30 Sec. and 4 times successfully received the ball.

The above figure gives a clear description of the results of the strength training program in pre and post test of the McDonald soccer test for receiving showing the scores of the mean, medium, standard deviation, Std. Error Mean, minimum and maximum scores.
The above table 4.5 shows that the mean difference between pre and post receiving test is 2.75 the 't' value for this test is found 9.22 with degree of freedom 19, which is significant at 0.01 level therefore it can be interpreted that there is significant difference in the pre and post test performance.

![Receiving Test](image)

Figure 4.2

Comparison of Pre and Post Test for Receiving

From figure 4.2 gives a clear description showing an increase in the post-test of McDonald soccer test of receiving of 9-12 football players after the training program. There is an increase in the mean from 3.75 to 6.5. It is seen that the mean of post-test is greater than that of pre-test receiving ball.

Descriptive statistic: this statistical tool provides a comparison of the pre and post test of the strength training program on the receiving of 9-12 football players showing the mean.

The above figure gives a clear comparison of the strength training program and its effect on the receiving of 9-12 football players between the pre and post test scores. The graph shows an increase in the mean scores there was a difference in the mean in the pre-test and the post-test with the blue bar showing the results for receiving of 9 to 12 football players. Paired sample t-test: This statistical tool helps us to understand the mean, SD, T value, degree of freedom of pre and post test.

### Table 4.6: Paired Correlation of Receiving

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Correlation</th>
<th>Sig</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Receiving</td>
<td>20</td>
<td>.78</td>
<td>.00</td>
</tr>
<tr>
<td>Post-Receiving</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

From the table 4.6 the correlation between pre-test and post-test of Receiving is .78 which is statistically significant at 0.001 level. Hence, this indicates that there was an improvement due to prescribed training program.

### 4.3 Testing hypothesis

In order to study the effect of strength training on the passing and receiving of 9-12 football players the objective of the study was to plan and implement a strength training program.

To test the efficacy of the training program the researcher has stated a research hypothesis.

H1: There will be a significant effect of the training program on the short pass and receiving of 9-12 football players but for the statistical purposes it is necessary to state null hypothesis.

H0: Hence as there was a significant difference on the short pass and receiving after the training program the null hypothesis is rejected. And research hypothesis was accepted.

### 4.4 Discussion

From the statistical procedure it is interpreted that there is a significance difference found between the pre and post test on the experimental group. Descriptive statistics and paired sample t test proves that the difference found was significant in improving performance of the experimental group. Hence it may be inferred that the 8 weeks strength training program has a significant effect on the short pass and receiving of football players.

### 5. Summary, Conclusion and Recommendation

#### 5.1 Introduction

This chapter provides a summary of results of research which the researcher has discussed and interpreted the findings. In conclusion, in order to go further researches and investigations, some aroused suggestions from research and some recommendations for other researcher will be rendered. Therefore, with attention to this point that the discussion and comment on the strengths and weaknesses of research findings require the comparison of these findings with similar findings, so it is essential to compare this research with the previous studies.

#### 5.2 Summary

The research was conducted to study the effect of strength training on the short pass and receiving of 9-12 football players. 20 subjects below the age of 9-12 were selected from Maharashtra Mandal PuneVyamshala Beginner's Football Players. The subjective of the study was to test the passing and receiving of 9-12 football players, to design and implement a training program, to test the efficacy of the training program. The study was delimit to the football players M.M.P.V Beginners football players, only boys below the age of 12, and only concerned with the passing and receiving skill in soccer. There were different limitations of the study such as the day to day lifestyle, the genetic differences, dietary habits and socio economic status of the players.
5.3 Conclusions

The researcher has done his experiment on the sample of small students in the primary school named Maharashtra Mandal Pune Vyamshala Thus, by the attending of the lesson of the physical education in the above school, the sample was chosen which includes 30 students. After testing those 30 students, 10 of them were neglected because Four of them are disabled, Three of them don’t have the design and Two of them are poor, and the last one is not healthy. More 20 students were also selected

1. The researcher puts his training program which is suitable for both the age and the technique of the players.
2. The training program includes exercises focuses on the strength, speed and agility to improve the skills of the physical fitness of the players.
3. The researcher met the players and listened to their problems and difficulties, which may badly affect the training program and tried to solve these problems to help the researcher gets positive results during the training period.
4. The training program consists of 8 weeks which concludes their training program units. This also concludes break for one hour. The training units also consists of three main parts (warm up - main exercises - cooling down). The program started on Monday third of November 2014 at 6:00 in the evening.

5.4 Recommendations

1. Research was conducted only on boys but it can also be conducted on girls.
2. The student were of 9-12 year's age but the students of other age can also taken.
3. Only students of M.M.P.V beginner's football players were taken but the other school students could have been considered.
4. Only strength training including own body weight, there a band exercises, light weight exercises were used. Other means and methods of strength training can be used.
5. The strength training program can also be used for improvement in other skills in football.
6. The strength training can also be used for skill improvements in other sports.

References