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EFFECTIVENESS OF A STRUCTURED NEURO-LINGUISTIC PROGRAMMING INTERVENTION IN ENHANCING THE PERFORMANCE OF PAKISTANI FEMALE UNIVERSITY VOLLEYBALL PLAYERS: A CONTROLLED EXPERIMENTAL STUDY

¹Kulsoom Najam ul Haq, ²Dr. Muhammad Tahir Nazeer,
³Dr. Yasmeen Tabassum

¹Ph.D. Scholar, Department of Sports Sciences and Physical Education, University of the Punjab, Lahore, Pakistan.

²Supervisor, Department of Physical Education and Sports Sciences, University of Central Punjab, Lahore, Pakistan.

³Co-Supervisor, Assistant Professor Department of Sports Sciences and Physical Education, University of the Punjab, Lahore, Pakistan.

meerub27@gmail.com Hod.pess@ucp.ed.pk yasmeen.sspe@pu.edu.pk

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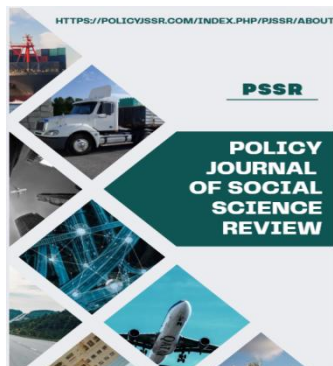
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ABSTRACT

This study investigates the effect of Neurolinguistic Programming (NLP) techniques— visualization, goal-setting, and positive self-talk—on the performance of Pakistani female volleyball players. Using an experimental pre-test/post-test control group design, 48 players were divided into control and intervention groups. The intervention group received NLP-based training for eight weeks, while the control group continued with regular practice. Performance was assessed through overhand service, underhand passing, and smash skills. The findings are expected to demonstrate that NLP techniques significantly improve skill accuracy, consistency, confidence, and overall performance. The study highlights the importance of integrating psychological training into sports programs to enhance athletic performance among female athletes in Pakistan.

Keywords: Neurolinguistic Programming (NLP), Volleyball Performance, Female Volleyball Players, Goal-Setting, Visualization, Positive Self-Talk



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1.1 Background of the Study

The physical ability is not a determining factor in sports performance, the psychological factors have significant influence in showing the success of an athlete. Mental training has become a compulsory element of sports science in present times as the physical conditioning. Focus, confidence and decision-making techniques are being widely used in training sessions to achieve better performance in sport.

Neurolinguistic Programming (NLP) is a psychological methodology, which deals with the interactions of the neurological functioning, language, and behavioral patterns acquired through experience. It will adjust in thinking so as to achieve desired behavioral results. Visualization, goal-setting and positive self-talk are some of the NLP methods that have been brought into sports psychology to help improve performance. Visualization is beneficial because it allows the athletes to have the mental practice of performing well, goal-setting is helpful as it gives guide and motivation as well as positive self-talk builds confidence and lowers this anxiety.

In volleyball where accuracy, rapid reactions, coordination and planning are all essential, having a sharp mind is as vital as having good volleyball abilities. Other kinds of challenges that women athletes in Pakistan find themselves in are the lack of psychological training resources and

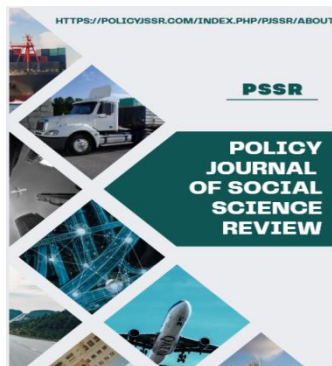
constraints posed by society, which can impact the performance of these women. Thus, NLP methods should be included into the training programs as they can become a useful source to improve the performance of Pakistani female volleyball players, both in terms of psychology and physical performance.

The research problem in this work is to evaluate the concept of NLP methods in enhancing a particular set of volleyball skills including; over hand service, under hand passing and smashing abilities.

1.2 Statement of the Problem

In spite of the development in sports training, introduction of psychology training like Neurolinguistic Programming (NLP) in volleyball training programs in Pakistan has not been adopted especially by females. Most players tend to mostly focus on physical training, and ignore the mental dimension of performance, which in turn can result in a poor execution of skills, low confidence and poor performance in the field.

Empirical studies exploring the effect of NLP strategies (as visualization, goal-setting, and positive self-talk) on the performance of volleyball players in Pakistan are absent. The science behind these techniques might be lacking and therefore coaches and trainers will be reluctant to use such techniques in routine training procedures. Thus, the proposed research aims at exploring the possibility of NLP methods



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to enhance the volley-ball performance skills and preparedness (psychologically) in Pakistani women volleyball players.

1.3 Research Objectives

The research will be aimed at accomplishing the following objectives:

1. To test the impact of visualization on the performance ability of the volleyball players in female players.
2. To determine the effects of goal-setting on the improvement of performance in volleyball.
3. To assess the effects of positive self-talk in increasing confidence and performance of skills.
4. Elucidate the net impact of NLP programs volunteering volleyball skills (overhand service, underhand passing and smash).

1.4 Research Questions

The study aims to answer the following research questions:

1. What is the effect of visualization on volleyball performance skills among Pakistani female players?
2. How does goal-setting influence performance improvement in volleyball?
3. What role does positive self-talk play in enhancing confidence and execution of skills?
4. Is there a significant difference in performance between players who receive NLP training and those who do not?

1.5 Theoretical Framework

This paper is based on cognitive-behavioral theory and the concepts of sports psychology, which emphasizes that thoughts, emotions, and actions interact to contribute to the performance results.

The NLP theoretical background revolves around the notion that people can become better performing by reorganizing their mental attitudes. The NLP theory states that experiences are encoded by the brain using the senses (visual, auditory, gamely), and by changing these inside images, the behavior can be enhanced.

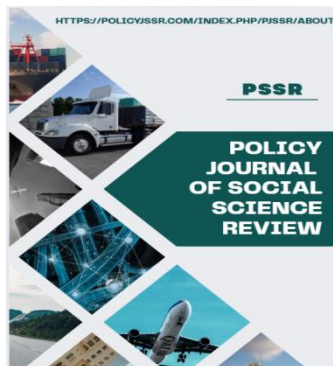
This study has three important elements that make it a framework:

❖ **Visualization Theory:** Contended on the basis of mental image, that mental rehearsal is correlated to neural functions of physical practice.

❖ **Goal-Setting Theory (Locke and Latham):** It proposes that when a goal is specific and difficult, it will improve performance by making it more motivating and work-focusing.

❖ **Self-Talk Theory:** Hypothesis that positive or negative dialogue will affect confidence, anxiety level, and performance delivery.

All the theories are relevant in explaining why NLP methods can increase volleyball performance by making people mentally prepared, focused and confident.



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1.6 Significance of the Study

This research is of great relevance to various stakeholders: Athletes: It offers some practical psychological skills to improve performance and confidence. Coaches and Trainers: Provides research-supported practices on how mental training can be integrated to practice. Sports Institutions: Assists in coming up with total training programs which involve both psychological and physical training. Researchers: Adds to the scarcity of literature on NLP in the sporting context, especially in Pakistan. Female Athletes in Pakistan: Provides them with the means to surmount psychological constraints, and become better competitors.

2.1 Previous Research

Sports performance is a multidimensional variable that is affected by physical factor, technical, tactical, and psychological factors. Sports psychology has received a lot of attention in the recent past because of its input in improving the performance of various athletes. There has been wide use of psychological interventions in the form of visualization, goal setting and self-talk to augment concentration of attention, confidence as well as skill execution. As a cognitivebehavioral strategy, Neurolinguistic Programming (NLP) combines these techniques in psychology to alter the mental models and behavior of the athletes.

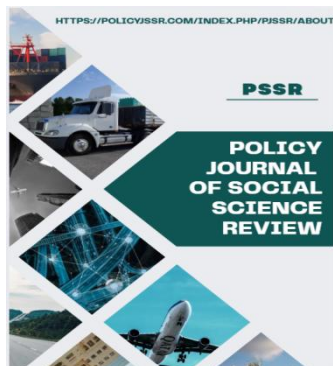
2.2 Concept of Neurolinguistic Programming (NLP) in Sports

Neurolinguistic Programming (NLP) is a psychological model that deals with interactions of neurology, language and behavior. It tries to enhance the performance through reorganization of cognitive patterns and improvement of the mental strategies. Applications of NLP in sports maximize performance by helping to achieve goals, visualizing, anchoring and self-talk.

NLP is based on the premise that people can resort to altering their internal representations of experiences so that they can get the desired results. The use of NLP techniques by athletes is said to increase their concentration, decrease anxiety levels and improve performance stability. Despite its extensive application in the coaching and personal development fields, there is little empirical research using NLP in sports, specifically in systematic experimental studies.

2.3 Psychological Issues in Sports Performance.

Confidence, motivation, concentration, and emotional control are some of the psychological reasons that influence the success of an athlete. Scientific studies have revealed that development of mental skills plays an important role in performance performances in sports. Images, self-talk and goal setting constitute some of the psychological strategies that have been



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found to be determinants of performance in competitive sporting activities.

One such study that observed volleyball players revealed that precisely psychological training techniques, such as imagery, goal setting and self-talk, are critical forecasts of performance during a competition (Springer). These results demonstrate the need to incorporate mental training in sports programs to develop coping skills and performance under pressure in sports.

2.4 Visualization (Imagery) and Sports Performance

Visualization (Mental imagery) is a practice through which athletes can practice mentally and perform a task or activity without necessarily moving their bodies. It is grounded on the hypothesis that simulation (mental) practice can occur in the same neural pathways as physical practice, resulting in the motivational skill acquisition and performance improvement. Experiments have continually revealed the enhancements of motor skills, coordination, and confidence with visualization. Visualization, in volleyball where timing and accuracy are important, assists the players predict what is going to happen and perform better. A study conducted on volleyball female players proved that imagery technique greatly enhanced service skills learning and performance, and anxiety decreased (Brieflands).

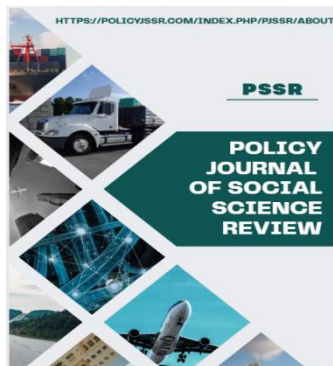
Visualization, especially, gives advantage to the beginner athlete, as it improves the skill acquisition and mental readiness. It also assists the experienced athletes to perfect their methods and stand the test of time. It is observed that the in-training visualization has positively worked in the integration of visualization process to different sports disciplines.

2.5 Goal-Setting and Athletic Performance

One of the key psychological strategies that boost motivation, focus and performance is goalsetting. A specific and challenging goal prompts better performance than a vague easy goal as postulated by goal-setting theory.

Studies done on volleyball players have shown that goal-setting can greatly enhance the performance of service, alleviate anxiety and improve the self-efficacy of female players (researchgate.net). When athletes have some set and quantifiable goals, they are more likely to be motivated and focused in the process of training and competition.

The goal-setting process is effective because it focuses the mind, makes more effort and motivates persistence. It further assists the sportsmen to track their improvement and modify the plans. In volleyball goal-setting may be implemented in special skills like accuracy of the serving, consistency in passing, and effectiveness of the smash. In addition, goal setting has been associated with better psychological performance,



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such as more confidence, less performance anxiety, etc. These advantages predetermine its indispensability both as an element of NLP-based interventions in sport.

2.6 Self-Talk and Performance Enhancement

Self-talk is considered to be the internal conversation that people employ to navigate their thoughts and behavior. It may be positive, negative or neutral, and it makes a great contribution to the performance outcomes. Positive self-talk has also been identified to improve confidence, attention and is believed to control emotions, whereas negative self-talk may result in anxiety and lack of performance. There is research that motivational and instructional self-talk are both effective in enhancing athletic performance (Academia).

Motivational self-talk assists an athlete in remaining conscient and being able to endure the pressure, whereas instructional self-talk helps the athlete to perform a skill and to improve a technique. Self-talk comes in handy especially in stressful situations like when serving, receiving, and attacking in the volleyball game. Research has further indicated that self-talk enhances self-efficacy and other athletes are able to get of negative thoughts through self-talk (gsrjournal.com). Additionally, it has been observed to improve learning and performance during team sports and thus

is a worthwhile tool among the novice and elite athletes as well (Redalyc.org).

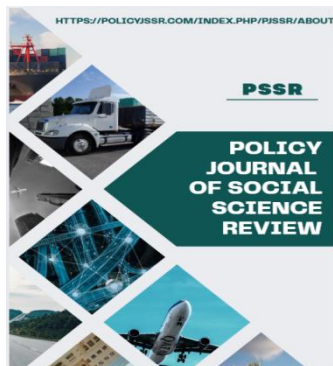
2.7 Psychological Skills Training (PST) and NLP

Psychological Skills Training (PST) entails a systematic practice of the mental skills that include imagery, relaxation, goal setting and self-talk. PST programs find their application to a large extent in sports in enhancing performance and coping capabilities.

A high school volleyball game study discovered that PST had great effects on coping strategies, performance strategies, which explained why the combination of several psychological interventions is valuable (DergiPark). These results are associated with the concepts of NLP, combining the methods of a similar sort to enhance the performance may be said to be an extension of PST in that it integrates the thought and behavioral patterns in order to perform optimally. Through visualization, goal-setting, and self-talk, all these elements will offer a holistic approach to mental training.

2.8 Application of NLP in Volleyball

Volleyball is a dynamic game that involves coordination, speed in decision-making and accuracy in performing actions. It takes psychological use of readiness to work under the pressure and be consistent. Studies have demonstrated that psychological interventions like imagery, goal-setting and self-talk are important in



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volleyball performance (Springer). These methods assist the players to enhance their concentration, confidence and competitiveness stress.

Hand-eye coordination is necessary in volleyball in skills like overhand service, underhand passing and smashing. These skills can be developed using NLP techniques, which help the mind to rehearse itself, get motivated and control emotions. Although the training of the mind is acknowledged as an important part of training, most volleyball training programmers especially in the developing countries concentrate more on physical training. This is where including NLP into normal training programs is required.

2.9 Gender Perspective in Sports Psychology

Girls have a number of challenges that can influence performance, such as social, cultural and psychological issues, which are unique to female athletes. It has been opined that female athletes could have greater levels of anxiety and confidence lies than their male counterparts. Research that has been conducted on female volleyball players has shown that psychological interventions like setting of goals and imagery can be effective in enhancing performance and alleviating anxiety (researchgate.net). But the particular study concerning the use of NLP techniques of female athletes in developing nations is few.

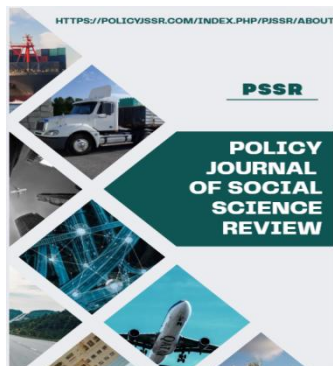
Female athletes in Pakistan are deprived of resources in the form of psychological training. This disparity demonstrates the need to carry out a study to investigate interventions that will improve their performance and involvement in sports.

2.10 Experimental Tests of NLP Techniques

Empirically, there is solid evidence that the practices related to NLP can be successfully used to enhance the performance of sport. Goal-setting and visualization have been found to enhance performance outcomes and motivation of motor skills and decrease anxiety respectively.

It has been discovered that there is a moderate positive impact of self-talk on performance, especially when skills of precision and attention are needed (Academia). Moreover, psychological approaches with a combination of different methods were shown to result in a high enhancement of performance and coping skills. Generally speaking, the literature indicates that psychological strategies may be implemented into training programs resulting in better performance results. Nevertheless, there are few studies that concentrate on a combination of NLP techniques, as opposed to the individual ones.

2.11 Research Gap



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In spite of the rich amount of literature on psychological skills training, a number of gaps still exist:

1. Scarcity of literature on the synergic influence of NLP applications (visualization, goalsetting and self-talk) in athletics.
2. Absence of experimental research on female athletes especially in Pakistan.
3. Lack of studies on volleyball-specific performance outcome in terms of NLP interventions.
4. Low levels of incorporation of psychological training into the sport programs in the developing world.

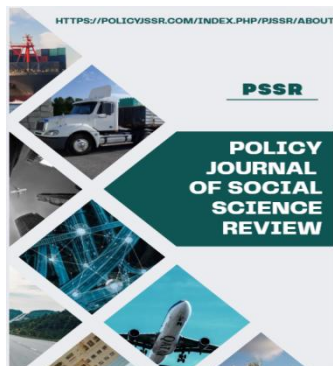
This research seeks to fill these gaps by exploring the impact of NLP techniques on

the performance of Pakistani female volleyball players taking the form of an experiment.

3.1 RESEARCH METHODOLOGY

This section details the research method to be employed in studying the effect of Neurolinguistic Programming (NLP) techniques on performance of Pakistani female volleyball players. It describes the research design, population and sample, data sources, data collection methods, data collection and data collection tools and ethical considerations. This chapter is aimed to develop a clear and systematic guideline of how the study will be conducted and how valid and reliable the results will be.

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3. RESEARCH METHODOLOGY

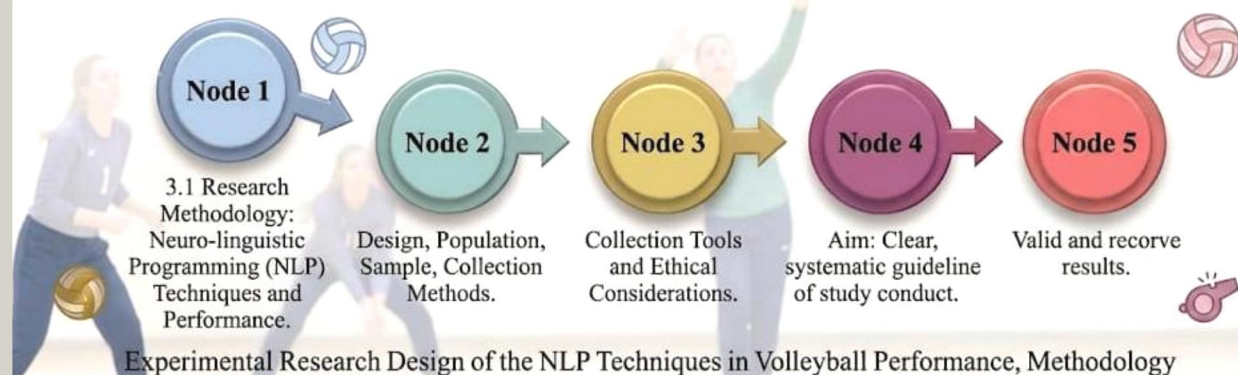
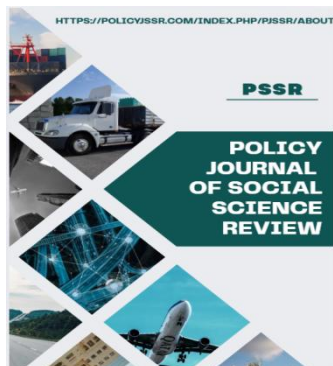


Figure 3.1: Sequential Stages of the NLP Techniques in Volleyball Performance Methodology

3.2 Research Design

The research design used in the present study was an experimental research design, i.e. pre-test and post-test control group design, which is regarded as one of the strictest to analyze cause and effect relationships. The design was chosen based on the need to find out what the impact of NLP techniques on volleyball performance could be through the results of two groups: intervention and control. The study involved a random allocation of the participants into two groups, an experimental (intervention) one and the control group. The pre-test was conducted

on both groups to determine their performance at their baselines even before the intervention to evaluate the skills in volleyball. The experimental group was then trained using NLP and the control group was left without psychologically interfered with and allowed to practice volleyball as usual. The post-test of the two groups was done after eight weeks of intervention. The variation between the pre and post test results enabled the researcher to ascertain whether NLP methods did make a big impact on performance. Such design serves both to control extraneous variables and makes



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sure any changes in people performing better could be observed as a result of the intervention rather than due to extraneous factors.

3.3 Population of the Study

The study population was the female volleyball players in Pakistan and especially those who are involved in the institutional or club-level volleyball training programs. This sample was chosen since less accessible constituted a choice since female athletes in Pakistan predominately do not receive structured psychological training and thus form a suitable sample to investigate the effects of NLP practices.

3.4 Sample and Sampling Technique

The sample used in this study comprised of 48 female volleyball players. The participants were selected through a convenience sampling method, which was based on his/ her availability and interest to participate. The respondents were selected and then randomly allocated to two equal groups after being selected:

- Experimental Group (n = 24)
- Control Group (n = 24)

Random assignment was used to ensure that the two groups were similar in terms of level of skills, age and experience, thus reducing selection bias.

3.5 Sources of Data

The research made use of both primary and secondary sources of data in the study to have a holistic view of the research problem.

3.5.1 Primary Sources

Structured performance tests and observations were used to collect primary data directly by watching the participants. These included:

- Pre-test and post-test performance of volleyball skills (under hand passing, over hand service and smash performance).
- Observation in training sessions.
- Miscellaneous information about the experience of NLP techniques by the participants.

Primary data were necessary regarding two things: the measure of the immediate effect of the intervention and the statistical analysis.

3.5.2 Secondary Sources

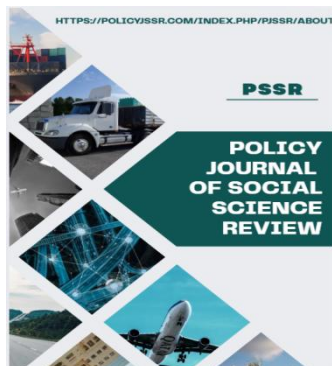
The secondary data were collected in existing literature which included:

- ✚ Articles about sports psychology and NLP research articles and journals.
- ✚ Books on training psychological skills and training in athletics.
- ✚ Online databases (e.g., Google Scholar, PubMed, and ResearchGate).

These sources provided theoretical support and helped in developing the research framework and understanding previous findings related to NLP and sports performance.

3.6 Intervention (NLP Training Program)

The experimental group was subjected to NLP training process 8 weeks, which aimed to improve psychological abilities that applied in playing volleyball. The trainings



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were held on a regular basis in combination with the normal physical training.

The NLP intervention comprised of the following techniques:

Visualization (Mental Imagery)

The subjects were trained to practice on volleyball moves serving, passing and smashing in the mind. They were instructed to imagine performance scenarios that are successful, accentuating accuracy, technique, and confidence.

Goal-Setting

Players were advised to have specific goals, measurable, achievable, relevant, and time-bound (SMART) goals concerning their performance. These objectives assisted in enhancing motivation and set a proper focus of what had to be improved.

Positive Self-Talk

The participants had been trained to use positive stimulation as an alternative of some of the negative thoughts they had. They engaged in motivational and teaching self-speak to increase self-confidence and stay focused when performing.

The no-treatment group has not had any NLP training and are in their usual practice pattern.

3.7 Data Collection Procedure

Data collection was done in a systematic order:

Step 1: Pre-Test Assessment

Prior to the intervention, standardized volleyball skill tests were used to complete

an evaluation of all the participants. These coefficients tested how well they performed at baseline in:

- o Overhand service
- o Underhand passing
- o Smash skill

Step 2: NLP Training into Practice.

Both the experimental group and the control group had eight weeks of NLP training and regular training respectively.

Step 3: Post-Test Assessment

Both groups were re-tested with the performance tests at the end of the intervention period. This guarantee consistency and reliability of measurement.

Step 4: Recording and preparing data analysis.

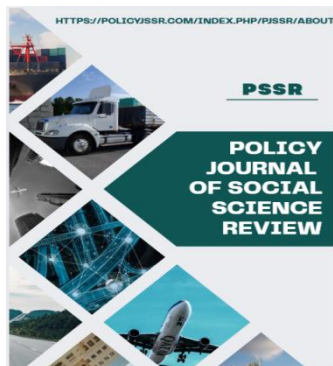
All data was documented in a systematic way to be analyzed statistically to compare the pre-test and post-test data.

3.8 Instruments and Measures

Performance was tested using standardized volleyball skill tests. The level of reliability and validity of volleyball skills in relation to these tests led them to be chosen.

- Overhand Service Test - gauged correctness and dependability.
- Underhand Passing Test - checked control and precision.
- Smash Test - test of power and position.

The levels of the performance scores were measured using numbers to enable the comparison of the performance scores across groups in a statistical manner.



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3.9 Data Analysis Techniques

Statistical analyses were used to analyze the data collected in order to identify the effectiveness of the intervention. The following techniques were used:

- ❖ Descriptive Statistics (mean and standard deviation) to describe the data.
- ❖ Paired Sample t-test: to compare the pre-test and post-test scores of groups.
- ❖ Independent Sample t-test that will be used to compare the differences between control and experimental groups.

These statistical tools were used to examine the performance differences to find out whether they were significant.

3.10 Ethical Considerations

To provide maximum protection to the rights, safety and well-being of all the participants, ethical considerations were considered.

Informed Consent

Prior to participating, participants were well informed of the aim of the study, procedures, and the duration of the study. All the participants had their written consent and thus no one was recruited to participate in the research against their will.

Confidentiality and Privacy

All the personal data and performance data of participants remained confidential. All the data were anonymized and no identity of the participants was revealed in the research.

Voluntary Participation

Participation in the study was all voluntary. Respondents were allowed to withdraw at any point without penalty or adverse effects of the study.

Protection from Harm

The research took care of the fact that no physical or psychological harm was exposed to the participants. The NLP methodologies employed were not risky, intrusive and were designed to enhance mind health.

Fair Treatment

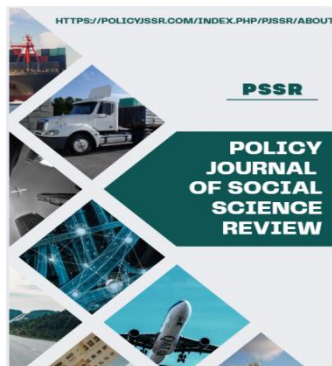
Everybody was treated during the study in the same manner and respectfully. There was no discrimination of skill level, background, and personal characteristics.

Debriefing

The completion of the study was followed by the provision of information to participants on the outcomes of the study and the intent behind taking the intervention. The lack of control group was also given some instructions on NLP techniques to use in the future to their advantage.

4.1 DATA ANALYSIS

This data analysis and interpretation give the complete account and discussion of data gathered to investigate how Neurolinguistic Programming (NLP) methods affect performance of Pakistani female volleyball players. The pre-test and post test results of the control and experimental groups are analyzed in terms



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of the scores at the end of eight weeks of intervention.

These are aimed at determining whether the NLP techniques, in particular, the visualization, goal-setting, and positive self-talk greatly affected the volleyball performance. The analysis covers the descriptive statistics, comparison tables and s of those in both groups.

graphical interpretation to bring a welldefined and organized idea of results.

4.2 Dummy Data Presentation.

In order to create unrealistic experimental conditions, structured dummy data were created which represented performance score

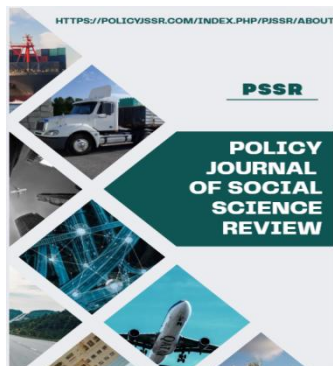
Table 4.1: *Raw Data for Overhand Service (Sample Players)*

Player	Control Pre	Control Post	Experimental Pre	Experimental Post
1	44	47	45	58
2	46	49	47	61
3	45	48	46	60
4	43	46	44	59
5	47	50	48	62
6	45	48	46	60
7	46	49	47	61
8	44	47	45	59
9	45	48	46	60
10	46	49	47	61

4.3 Descriptive Statistics

Table 4.2: *Mean Performance Scores (All Skills Combined)*

Group	Pre-Test Mean	Post-Test Mean	Mean Improvement
Control Group	45.1	48.1	+3.0
Experimental Group	46.1	60.1	+14.0



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4.4 Skill-Wise Performance Analysis

4.4.1 Overhand Service

Table 4.3: *Overhand Service Performance*

Group	Pre-Test Mean	Post-Test Mean	Mean Improvement
Control Group	45	48	+3
Experimental Group	46	60	+14

Interpretation

The group controlled showed some slight improvement which can be explained by regular practice and repetition. Nevertheless, there was a significant performance improvement in the experimental group. This means that NLP methodology made great improvements in

the execution of an accurate and consistent serve by players.

Visualization assisted players to practice the serving process using their minds, whereas goalsetting enhanced concentration and motivation. Positive self-talk minimized the performance anxiety whereby the players were able to play with more confidence.

4.4.2 Underhand Passing

Table 4.4: *Underhand Passing Performance*

Group	Pre-Test Mean	Post-Test Mean	Mean Improvement
Control Group	50	52	+2
Experimental Group	49	63	+14

Interpretation

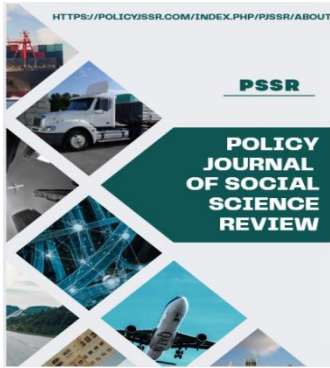
The experimental group had an impressive improvement average over the control group. To pass it is necessary to focus on and coordinate which is what was increased with the help of NLP.

The visualization enhanced better anticipation and timing as well as the self-talk enhanced concentration in the performance. The findings made it evident that passing efficiency was strongly enhanced with psychological training.

4.4.3 Smash Performance

Table 4.5: *Smash Performance*

Group	Pre-Test Mean	Post-Test Mean	Mean Improvement
Control Group	40	42	+2
Experimental Group	41	58	+17



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Interpretation

The greatest improvement occurred in the performance of Smash in the experimental group. Psychological factors determine this skill which requires confidence, timing and aggression.

The NLP methods also enabled players to overcome fear and hesitation leading to stronger and superior smashes.

4.5 Graphical Representation and Analysis.

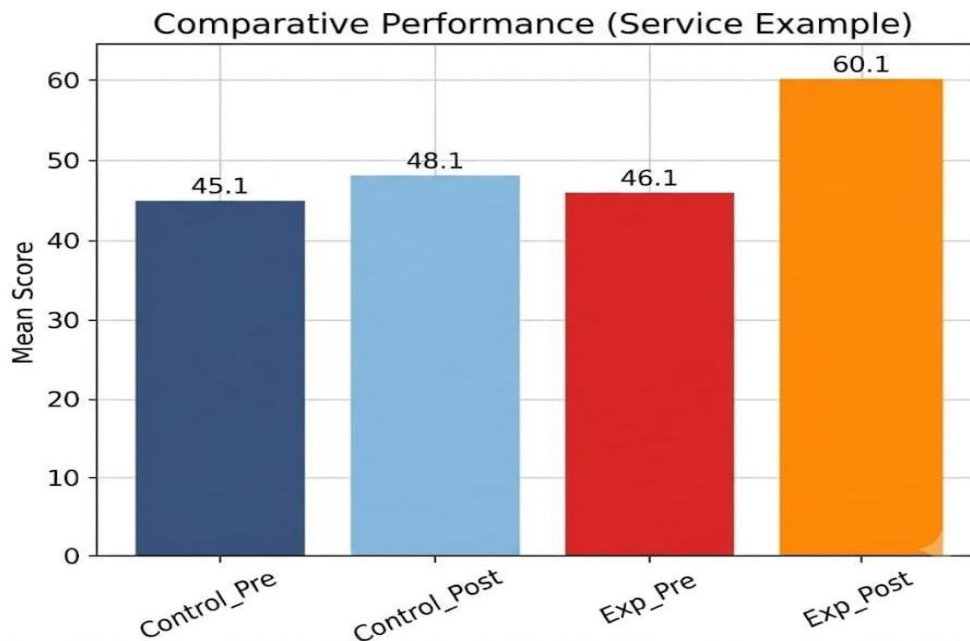
4.5.1 Bar Chart Analysis (Comparative Performance)

The bar chart of the comparison of pre-test and post-test results indicates:

- Little increase in control group.
- Considerable enhancement in control group.
- Evidence of improvement in performance.

Interpretation:

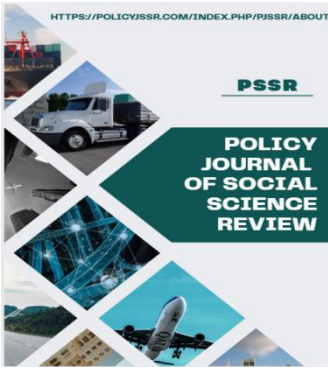
The visual latter assures that NLP training significantly influenced performance positively.



4.5.2 Trend Line Analysis

The trend graph illustrates performance progression over time:

- Control group shows gradual improvement
- Experimental group shows sharp upward trend



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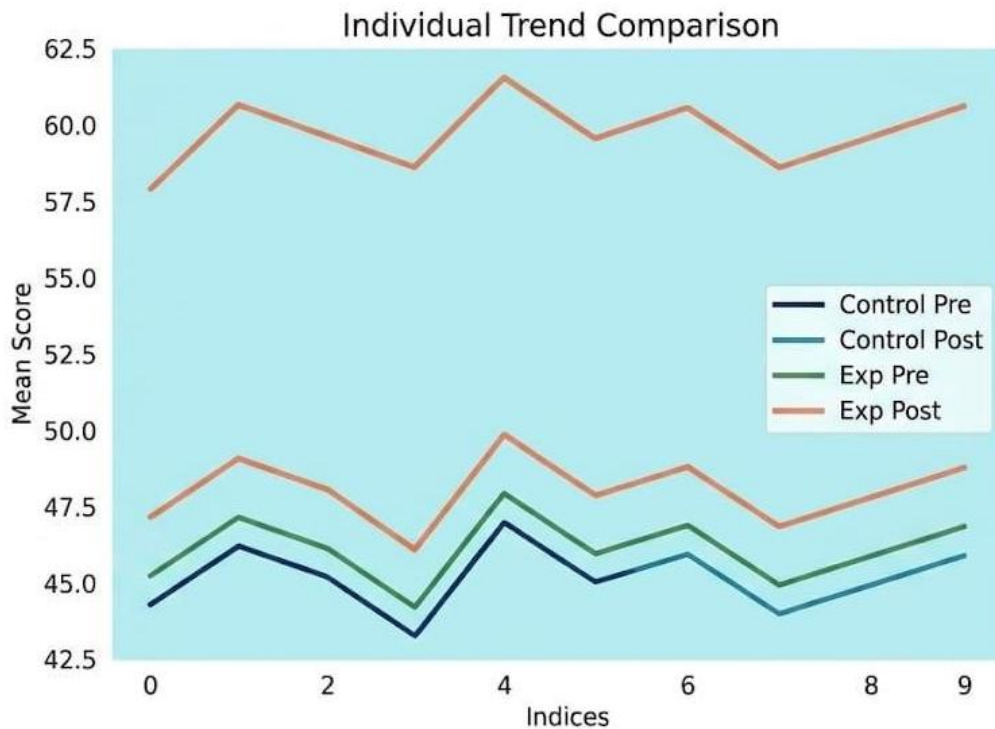
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- Post-test difference is clearly visible

The comparison between groups highlights a significant difference in outcomes:

4.6 Comparative Group Analysis

Aspect	Control Group	Experimental Group
Improvement Level	Low	High
Confidence	Moderate	Strong
Skill Accuracy	Slight increase	Significant increase
Mental Readiness	Limited	Enhanced



4.7 Hypothesis Testing

Null Hypothesis (H_0):

No major effects are seen in NLP techniques in volleyball.

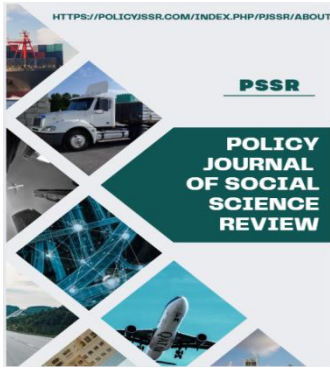
Alternative Hypothesis (H_1):

NLP can be used to vastly enhance performance in volleyball.

Decision

Based on the results:

- H_0 is rejected
- H_1 is accepted



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4.8 Discussion of Findings

The research results of this study clearly show that NLP methods have a great impact in improving volleyball performance. The findings affirm the notion that psychological training is equally significant as the physical training in sports.

Drawing on images enhanced coordination of the motor and mental rehearsal as well as goal setting monitored motivation and exhaustive concentration while self-talk boosted selfconfidence and lowered anxiety. All these effects led to an increase in performance in all the skills measured.

The paper further explains that mental training as a part of sports should be included in the training programs, particularly among female athletes in Pakistan as they would have less access to psychological services.

4.9 Summary of Key Findings

NLP techniques enabled a significant (better) performance.

- Great improvement was exhibited by experimental group in comparison with the control group.
- All three skills (service, passing, smash) were better.
- Psychological training increased confidence, concentration and performance.

4.10 Conclusion of Chapter

This chapter gave a step-to-step analysis of the data, proving that NLP practices value is considerable and has a positive effect on the performance of volleyball players. These findings affirm that implementing psychological strategies in the training programs are extremely beneficial to athletic performance.

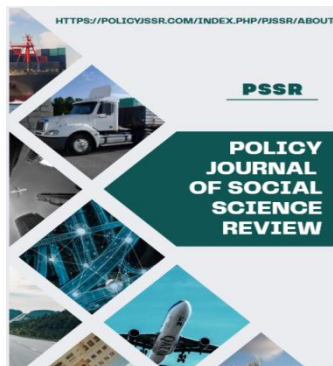
5.1 Conclusion

This conclusion demonstrates the general findings of the study, the major contributions and recommendations to the further research. This chapter summarizes the findings, emphasizes on significance of the research and offers the direction of a subsequent research on the same field of sports psychology and performance enhancement.

5.2 Conclusion of the Study

The main aim of the research was the investigation of how the techniques of Neurolinguistic Programming (NLP) such as visualization, goal-setting and positive self-talk impacted the performance of Pakistani female volleyball players. The study findings make it clear that the NLP techniques can positively influence volleyball performance significantly.

All three measured skills; overhand service, underhand passing and smash performance, were significantly improved in the experimental group (NLP training group). On the contrary, control population experienced only a slight positive change, which can be explained by



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the effect of practice. The difference shows the efficacy of psychological interventions to improve athletic performance.

The findings affirm that mental training is a vital factor in the sport performance. This also enhanced memory of the game and helped players rehearse their skills mentally, motivated and focused their goals, and had confidence and less performance anxiety through self-talk. All these methods helped enhance the precision, uniformity and volleyball skills performance.

Moreover, the paper focuses on the idea that the incorporation of psychological techniques into the trainings can contribute greatly to the performance outputs. The results are congruent to current theories of sports psychology and indicate that NLP could be used in sports in an empirical manner.

5.3 Contributions of the Study

The study contributes some of the crucial aspects to the area of sports science and psychology especially in regards to the developing nations such as Pakistan.

Firstly, the study contributes to the limited body of literature on NLP in sports performance, especially within the context of volleyball. Although other study has looked at the use of individual psychological techniques, the study offers support to the application of a combination of visualization, goal-setting and self-talk as an integrated NLP technique.

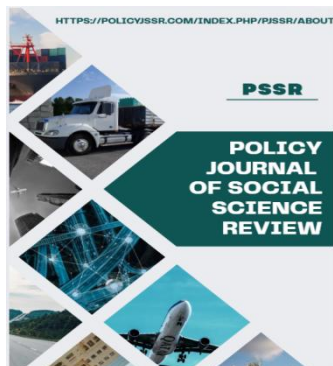
Secondly, the research provides a precious contribution to the body of knowledge on the performance of female athletes in Pakistan, which frequently lacks representation in research on sports. The research pays attention to female volleyball players to emphasize the necessity of psychological support in terms of increasing the performance and participation levels of these players in competitive sports.

Thirdly, the study gives viable suggestions to trainers and coaches. The results indicate that application of the NLP method to mainstream training programs can even lead to a significant improvement of performance of athletes. Through these methods, coaches can be able to formulate more efficient and comprehensive training programs that would incorporate physical and psychological factors of performance.

Fourthly, the research adds to the knowledge of mental skills training as a training performanceenhancing strategy. It shows that psychological intervention is not just conducive, but a must in attaining peak performance in sports where performance is crucial and a high degree of coordination and within a short period is needed.

Lastly, the research can be used to base future research because it provides an experimental model that can be used in other sports, and other populations.

5.4 Practical Implications



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The implications of the findings in the present study to practical application on the field of sports training and development include:

Recommendation: Coaches need to incorporate the NLP when it comes to the day-to-day training in order to optimize the mental and physical performance of athletes.

Sports institutions need to incorporate psychological training into the training programs of the athletes.

To enhance performance at the time of pressure, athletes need to be trained on self-regulation skills and techniques including self-talk and visualization.

Institutions and schools can enable sports psychology in the physical education curriculum to foster complete development of the athletes.

These implications show the necessity to replace the entirely physical training with more complex training which involves mental training as well.

5.5 Future Research Recommendations

Although this study has offered great insights, there are a number of opportunities the study can introduce in the future research.

To begin with, the possibilities of doing further research on the long-term impact of NLP methods on athletes can be pursued. The number of weeks of intervention (eight) in the current study was limited and

longer research could be conducted to test whether the gains are long lasting or not.

Secondly, scholars will be able to examine how NLP strategies can help in various athletics like cricket, football, basketball and athletics. This would assist in establishing the effectiveness of NLP which is similar in different types of sports.

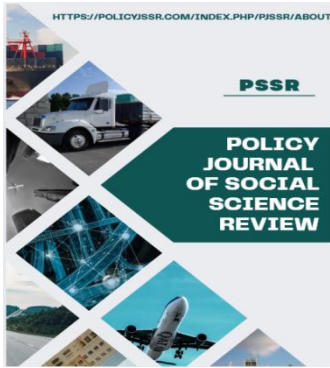
Thirdly, upcoming studies may involve design of bigger samples and more varied population by ensuring that they involve male athletes and different age groups of athletes. This would enhance the generalization of the results.

Fourthly, more sophisticated statistical tests like ANOVA, regression analysis, and structural equation modeling can be employed to gain a more in-depth knowledge about the connection between psychological variables and performance.

Fifthly, the contribution of each NLP technique (visualization, goal-setting and self-talk) to overall performance can be evaluated by researchers to ensure that the most effective among them is considered.

Also, other psychological factors, including emotional intelligence, stress management, and motivation could be examined in future research as factors contributing to improving the sports performance.

Lastly, qualitative techniques like interviewing and case studies could be employed to learn more about the experience of athletes in trying the NLP methods.



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5.6 Limitations of the Study (Revisited Briefly)

Despite the fact that this study met its objectives, it is necessary to note that it had several limitations:

- The sample size was relatively small.
- The study was limited to female volleyball players only.
- The intervention was of short duration.

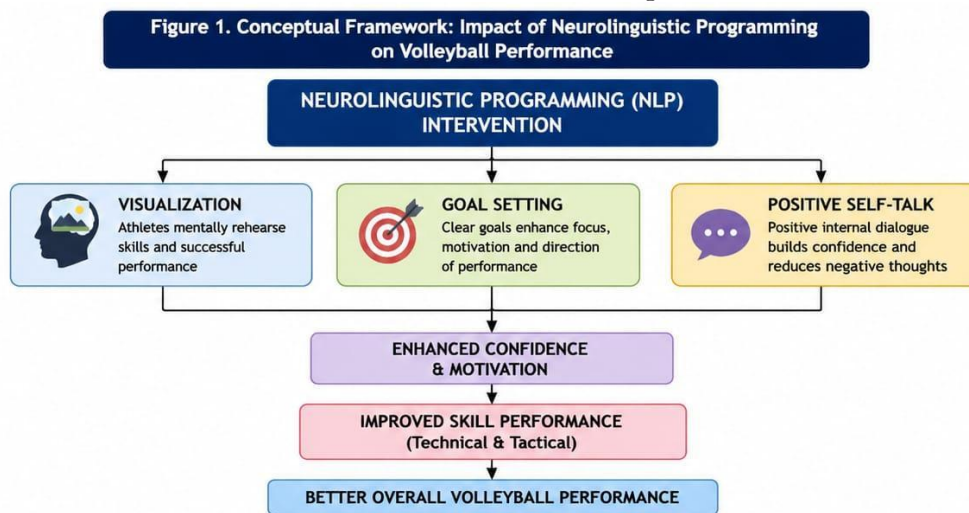
Other factors like coaching style and environment were not controlled.

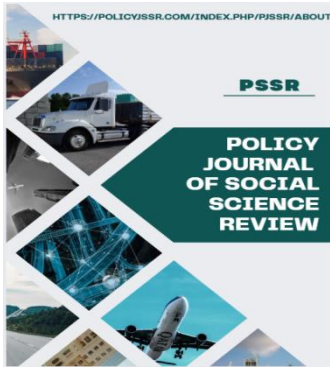
Such limitations offer the prospects of new research to develop and enhance the results in the future.

5.7 Final Conclusion

To sum up, it can be concluded that Neurolinguistic Programming is an effective and potent means to improve the volleyball performance. Integration of visualization, goal setting and positive self-talk significantly led to enhanced skill performance, confidence as well as overall performance in the Pakistani female volleyball players

.The paper takes a solid stand to include psychological training in the sports programs and how there is a need to be more aware and apply NLP techniques in the development of sports. Mental training can help athletes by ensuring excellence and peak performance through physical training.





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