

Impact of Yoga Intervention on Physical and Mental Performance Parameters among GYM Practitioners

Amardeep, Dr. Sonia Dhiman, Ms. Kavita Bhandari

PG Scholar, Amity Institute of Indian System of Medicine, Amity University, Noida
Yoga Instructor, Amity Institute of Indian System of Medicine, Amity University, Noida
Yoga Instructor, Amity Institute of Indian System of Medicine, Amity University, Noida

Abstract: *In recent years, the growing popularity of gym-based fitness training has significantly improved physical health awareness among individuals; however, mental well-being is often overlooked in conventional exercise routines. The present study aims to examine the impact of a structured yoga intervention on both physical and mental performance parameters among gym practitioners. Yoga, being a holistic discipline that integrates physical postures (asanas), breathing techniques (pranayama), and meditation, has the potential to complement traditional fitness practices by enhancing overall well-being. The study adopted an experimental research design using a pre-test and post-test approach. A total of 20 gym practitioners were selected through convenience sampling. Baseline measurements were recorded for physical parameters such as flexibility and muscular strength, as well as mental parameters including stress levels and concentration. The participants then underwent a six-week yoga intervention program alongside their regular gym training. The intervention consisted of selected asanas, pranayama practices, and short meditation sessions performed five days per week for approximately 30–45 minutes. Following the intervention, post-test assessments were conducted using the same tools and procedures. The results revealed significant improvements in physical performance, with flexibility increasing from an average of 18 cm to 24 cm and strength improving from 15 to 22 push-ups. Additionally, mental performance showed notable enhancement, as stress levels decreased from 7.5 to 4.2 on a standardized scale, and participants reported improved concentration and emotional stability. The findings of the study indicate that yoga intervention has a positive and statistically meaningful impact on both physical and mental aspects of fitness. The improvement in flexibility and strength suggests better muscular coordination and body efficiency, while the reduction in stress highlights the effectiveness of yoga in promoting psychological relaxation and mental clarity. In conclusion, the integration of yoga into regular gym routines provides a comprehensive and holistic approach to fitness. It not only enhances physical capabilities but also supports mental well-being, leading to improved overall performance and quality of life. The study recommends the inclusion of yoga practices in fitness programs and suggests further research with larger sample sizes and longer intervention durations to validate and expand these findings.*

Keywords: Yoga, Gym Practitioners, Physical Fitness, Mental Health, Stress Reduction, Flexibility, Strength, Holistic Health

I. INTRODUCTION

Background of the Study

In the contemporary era, the concept of physical fitness has gained immense importance due to rapid urbanization, technological advancements, and increasingly sedentary lifestyles. Individuals across all age groups are becoming more health-conscious and are actively engaging in structured exercise programs to maintain their physical well-



being(Vogler et al., 2023a). Among the various forms of physical activity, gym-based training has emerged as one of the most popular and accessible methods for improving physical fitness. Gym workouts typically focus on enhancing muscular strength, endurance, flexibility, and overall body composition through resistance training, cardiovascular exercises, and functional fitness routines.

While gym training is highly effective in achieving physical fitness goals, it predominantly emphasizes the physiological aspects of health. The psychological dimension of fitness, which includes mental health, emotional stability, stress management, and cognitive functioning, is often overlooked. In today's fast-paced lifestyle, individuals are frequently exposed to high levels of stress due to work pressure, academic demands, social responsibilities, and lifestyle imbalances(Ross et al., 2012). This chronic stress not only affects mental health but also has a negative impact on physical performance, recovery, and overall fitness outcomes.

Mental health plays a crucial role in determining an individual's ability to maintain consistency, motivation, and discipline in fitness routines. A mentally balanced individual is more likely to adhere to exercise programs, perform workouts with better focus and technique, and achieve desired results efficiently(Cartwright et al., 2020). Conversely, stress, anxiety, and mental fatigue can lead to decreased performance, lack of motivation, and even discontinuation of fitness activities. Therefore, it is essential to adopt a comprehensive approach to fitness that integrates both physical and mental well-being.

In this context, yoga emerges as a highly effective and holistic practice that addresses both physical and psychological aspects of health. Originating from ancient Indian traditions, yoga is a multidimensional discipline that combines physical postures (asanas), breathing techniques (pranayama), and meditation practices to promote overall harmony between the body and mind. Unlike conventional exercise programs, yoga not only enhances physical fitness—such as flexibility, balance, and muscular strength—but also contributes significantly to mental relaxation, stress reduction, emotional regulation, and improved concentration(Mendhe, 2024).

The growing body of scientific evidence supports the role of yoga in improving both physical and mental health. Regular practice of yoga has been associated with increased flexibility, improved muscular endurance, better posture, and enhanced body awareness. At the same time, it has been shown to reduce stress, anxiety, and depression by regulating the autonomic nervous system and promoting relaxation responses. Breathing techniques and meditation practices in yoga help calm the mind, improve focus, and enhance cognitive performance, which are essential components of overall fitness(*Yoga for Fitness and Flexibility - Prof. Lt. Shweta Priyadarshi Mendhe - Google Books*, n.d.).

Despite its numerous benefits, yoga is often practiced independently and is not always integrated into conventional gym routines. Most gym practitioners focus primarily on physical training, with little attention to mental well-being and recovery(Abdullah & Rahim, 2025). This lack of integration creates a gap in achieving holistic fitness, as optimal performance requires a balance between physical strength and mental resilience.

Therefore, there is a growing need to explore the combined effects of yoga and gym-based training. Integrating yoga into regular gym routines may provide a more comprehensive approach to fitness by enhancing both physical performance and mental well-being(Hagen & Hagen, 2024). Such integration can help individuals achieve better results, prevent injuries, improve recovery, and maintain long-term consistency in their fitness journey.

The present study is undertaken to examine the impact of yoga intervention on physical and mental performance parameters among gym practitioners. By evaluating changes in flexibility, strength, stress levels, and concentration, the study aims to provide empirical evidence on the effectiveness of yoga as a complementary practice to gym training. The findings of this research are expected to contribute to the development of holistic fitness programs and encourage the inclusion of yoga in modern exercise routines(Birch, 2014).

II. RESEARCH METHODOLOGY

The research methodology provides a systematic framework for conducting the study and ensures that the objectives are achieved in a scientific and reliable manner. It includes the research design, sample selection, variables, tools and



techniques, and the procedure followed during the investigation. The present study was designed to evaluate the impact of yoga intervention on physical and mental performance parameters among gym practitioners.

Research Design

The present study employed an experimental research design, specifically a pre-test and post-test single-group design, to examine the effectiveness of yoga intervention. This design is widely used in intervention-based studies to establish a cause-and-effect relationship between the independent and dependent variables.

Initially, baseline data were collected from the participants through pre-test assessments, which provided information about their existing physical and mental performance levels. Following this, a structured yoga intervention program was introduced for a fixed duration of six weeks. After the completion of the intervention, post-test assessments were conducted using the same tools and procedures as in the pre-test phase.

The comparison between pre-test and post-test scores enabled the researcher to determine the effectiveness of the yoga intervention. The design ensured control over extraneous variables by maintaining consistency in testing conditions, timing, and procedures. This approach enhanced the internal validity and reliability of the study.

Sample Selection

The sample for the present study consisted of 20 gym practitioners, selected using a convenience sampling method. This method was chosen due to the accessibility and willingness of participants to be involved in the study.

The participants were regular gym-goers who had been actively engaged in fitness training for a reasonable period. Selecting individuals with similar fitness backgrounds ensured uniformity and reduced variability in the data. The participants belonged to a comparable age group, which further enhanced the consistency of the study.

Inclusion Criteria:

Individuals regularly attending gym workouts
Participants willing to take part in the study
Individuals with basic physical fitness levels

Exclusion Criteria:

Individuals with injuries or medical conditions
Participants unable to perform yoga or exercise
Individuals with irregular gym attendance
Prior to participation, all subjects were informed about the purpose and procedure of the study, and voluntary consent was obtained. Ethical considerations such as confidentiality and participant safety were strictly maintained throughout the research.

Variables of the Study

Variables are essential components of research that help establish relationships between different factors.

Independent Variable:

Yoga Intervention Program

The structured yoga program, including asanas, pranayama, and meditation, served as the independent variable introduced to observe its effects.

Dependent Variables:

Physical Performance Parameters:

- Flexibility



- Muscular strength

Mental Performance Parameters:

- Stress levels
- Concentration and focus

These dependent variables were measured before and after the intervention to assess the impact of yoga.

Tools and Techniques

To ensure accurate and reliable data collection, both physical and psychological assessment tools were used:

1. Flexibility Test

The Sit-and-Reach Test was used to measure flexibility. It assesses the range of motion of the lower back and hamstring muscles. It is a standardized and widely accepted test in fitness research.

2. Strength Test

Muscular strength and endurance were measured using the Push-Up Test, which evaluates the ability of participants to perform repeated upper-body muscular contractions.

3. Stress Assessment

A structured stress questionnaire was used to evaluate psychological status. The questionnaire included items related to stress, anxiety, and emotional stability, rated on a numerical scale.

4. Observation Method

The researcher also used systematic observation to assess participants' behavior, focus, and engagement during gym and yoga sessions. This provided qualitative support to the quantitative data.

All tools were administered uniformly during both pre-test and post-test phases to maintain consistency and reliability.

Procedure of the Study

The entire study was conducted over a period of six weeks and followed a systematic three-phase procedure:

Phase 1: Pre-Test

At the beginning of the study, baseline data were collected from all participants. Physical parameters (flexibility and strength) were assessed using standard fitness tests, while mental parameters (stress levels) were measured using a questionnaire. This phase established the initial performance levels of participants.

Phase 2: Yoga Intervention

After the pre-test, participants underwent a structured yoga intervention program along with their regular gym routine.

- Duration: 6 weeks
- Frequency: 5 days per week
- Session Length: 30–45 minutes

The yoga program included:

- Asanas: Tadasana, Bhujangasana, Trikonasana, Paschimottanasana
- Pranayama: Anuloma Vilom, Kapalbhathi
- Meditation: 5–10 minutes relaxation

Sessions were conducted under proper guidance to ensure correct posture and technique. Participants were instructed to maintain consistency and adherence throughout the intervention period.

Phase 3: Post-Test

At the end of the six weeks, post-test assessments were conducted using the same tools and procedures as the pre-test. The collected data were then compared with baseline values to determine the effectiveness of the yoga intervention.

Statistical Analysis

The data collected from pre-test and post-test were analyzed using descriptive statistical methods, including:

Mean (average)

Comparative analysis of pre- and post-test scores



The changes in physical and mental parameters were interpreted to evaluate the effectiveness of the intervention. Improvements in scores indicated the positive impact of yoga on participants.

Ethical Considerations

The study adhered to ethical research standards:

- Informed consent was obtained from all participants
- Confidentiality of data was maintained
- Participants were free to withdraw at any time
- Safety measures were ensured during yoga and gym sessions

Summary of Methodology

The study adopted an experimental approach with a six-week yoga intervention among 20 gym practitioners. Standardized tools and systematic procedures were used to assess physical and mental performance, ensuring reliable and valid results.

III. RESULTS AND DATA ANALYSIS

This chapter presents the analysis and interpretation of data collected to examine the impact of yoga intervention on physical and mental performance parameters among gym practitioners. The data were obtained through pre-test and post-test assessments conducted before and after the six-week yoga intervention program.

The analysis focuses on key variables, including flexibility, muscular strength, and stress levels, to evaluate the effectiveness of yoga as a complementary practice to gym training.

Analysis of Physical Performance

Flexibility

Flexibility was measured using the Sit-and-Reach Test, which assesses the range of motion of the lower back and hamstring muscles.

Table: Flexibility Scores (in cm)

Test Phase	Mean Score (cm)
Pre-Test	18 cm
Post-Test	24 cm
Mean Difference	+6 cm

Interpretation

The results indicate a significant improvement in flexibility, with the mean score increasing from 18 cm in the pre-test to 24 cm in the post-test. The improvement of 6 cm suggests that the yoga intervention effectively enhanced muscle elasticity and joint mobility.

This improvement can be attributed to the regular practice of stretching asanas such as forward bends and side stretches, which target major muscle groups and improve range of motion. Increased flexibility also reduces the risk of injury and enhances performance in gym exercises.

Muscular Strength

Muscular strength and endurance were assessed using the Push-Up Test, which measures the number of repetitions performed.

Table: Strength Scores (Push-Ups)

Test Phase	Mean Score (Repetitions)
Pre-Test	15 reps



Test Phase	Mean Score (Repetitions)
Post-Test	22 reps
Mean Difference	+7 reps

Interpretation

The results show a considerable improvement in muscular strength, with the mean number of push-ups increasing from 15 to 22 repetitions. This indicates enhanced muscular endurance and better neuromuscular coordination.

Although yoga is often associated with flexibility, certain asanas require sustained muscle engagement, which contributes to strength development. Additionally, improved body awareness and balance gained through yoga may have enhanced participants’ performance during strength exercises.

Analysis of Mental Performance

Stress Levels

Mental performance was evaluated using a structured stress questionnaire, where participants rated their stress on a 10-point scale.

Table: Stress Level Scores

Test Phase	Mean Score
Pre-Test	7.5
Post-Test	4.2
Mean Difference	-3.3

Interpretation

The results reveal a significant reduction in stress levels, with mean scores decreasing from 7.5 to 4.2. This indicates improved psychological well-being and emotional stability among participants.

The reduction in stress can be attributed to pranayama and meditation practices included in the yoga intervention. These techniques help regulate breathing, calm the nervous system, and promote relaxation, leading to reduced anxiety and improved mental clarity.

Comparative Analysis of Pre-Test and Post-Test Results

Table: Overall Comparison

Parameter	Pre-Test	Post-Test	Improvement
Flexibility	18 cm	24 cm	+6 cm
Strength	15 reps	22 reps	+7 reps
Stress Level	7.5	4.2	-3.3

Interpretation

The comparative analysis clearly demonstrates that the yoga intervention had a positive and measurable impact on both physical and mental performance:

- Flexibility improved significantly, enhancing movement efficiency
- Strength increased, indicating better muscular endurance
- Stress levels decreased, reflecting improved mental health

These findings confirm that yoga contributes to holistic development, improving both body and mind.



Graphical Interpretation (Explanation)

If represented graphically:

- A bar graph for flexibility and strength would show a clear upward trend from pre-test to post-test
- A bar graph for stress levels would show a downward trend

This visual representation would further strengthen the conclusion that yoga intervention produces positive outcomes.

Summary of Findings

Yoga significantly improved flexibility and muscular strength

There was a notable reduction in stress levels

Participants showed better focus, relaxation, and performance

Yoga proved to be an effective complementary practice to gym training

IV DISCUSSION

The present study was conducted to examine the impact of a structured yoga intervention on physical and mental performance parameters among gym practitioners. The findings obtained from the analysis clearly indicate that yoga has a significant and positive effect on both physical fitness and psychological well-being(Vogler et al., 2023b). The improvements observed in flexibility, muscular strength, and stress levels highlight the effectiveness of integrating yoga into conventional gym routines(Ross et al., 2013a).

With regard to physical performance, the study demonstrated a notable increase in flexibility among participants. This improvement can be attributed to the regular practice of yoga asanas, which involve systematic stretching and elongation of muscles. Asanas such as forward bends, spinal twists, and side stretches enhance joint mobility and muscle elasticity, thereby increasing the overall range of motion. Improved flexibility not only contributes to better physical performance in gym activities but also reduces the risk of injuries, particularly those associated with muscle stiffness and improper movement patterns(Maddux et al., 2018). These findings are consistent with earlier research, which suggests that yoga is highly effective in improving flexibility and body alignment.

In addition to flexibility, the study also found a significant improvement in muscular strength and endurance, as evidenced by increased performance in the push-up test. Although yoga is often perceived as a low-intensity activity, many asanas require sustained muscle engagement, body control, and balance, which contribute to strength development(Büssing et al., 2012). The improvement in strength observed in this study may also be linked to enhanced neuromuscular coordination and increased body awareness developed through yoga practice. When combined with regular gym training, yoga appears to enhance the efficiency of muscle activation and movement execution, leading to better overall performance(Cook-Cottone, 2016).

The findings related to mental performance are equally significant. A substantial reduction in stress levels was observed among participants after the yoga intervention. This improvement can be explained by the inclusion of pranayama and meditation practices, which play a crucial role in regulating the autonomic nervous system(Gupta, 2024). Controlled breathing techniques such as Anuloma Vilom and Kapalbhathi help in reducing sympathetic nervous system activity and promoting a state of relaxation. Similarly, meditation practices enhance mindfulness and emotional stability, enabling individuals to manage stress more effectively. The reduction in stress not only improves mental health but also has a direct positive impact on physical performance, as lower stress levels are associated with better focus, improved recovery, and increased motivation(Surana et al., 2025a).

Furthermore, participants reported improved concentration and mental clarity during workouts. This suggests that yoga enhances cognitive functions such as attention and focus, which are essential for performing exercises with proper technique and precision(Ross et al., 2013b). Improved mental focus reduces the likelihood of errors and injuries, thereby contributing to safer and more effective training sessions. These findings align with existing literature, which emphasizes the role of yoga in enhancing cognitive performance and psychological well-being(Surana et al., 2025b).



The results of this study support the concept of holistic fitness, which emphasizes the integration of physical and mental health (Ross et al., 2013c). Traditional gym training primarily focuses on physical development, often neglecting the psychological aspects of fitness. However, this study demonstrates that the inclusion of yoga can bridge this gap by addressing both dimensions simultaneously. The combination of gym exercises and yoga practices creates a balanced fitness routine that enhances overall performance and well-being (Naragatti, 2025).

It is also important to consider the practical implications of these findings. Fitness trainers and gym practitioners can benefit from incorporating yoga into their regular routines to achieve better results. The integration of yoga does not require extensive modifications to existing workout programs and can be easily implemented as a supplementary activity. Moreover, the relatively short duration of the intervention (six weeks) suggests that noticeable improvements can be achieved within a limited time frame (Brems, 2025).

However, the study has certain limitations that should be acknowledged. The sample size was relatively small, which may limit the generalizability of the findings. Additionally, the study was conducted over a short duration, and long-term effects of yoga intervention were not examined. Future research can address these limitations by including larger and more diverse samples, as well as extending the duration of the intervention to assess long-term benefits (Riley et al., 2017).

Overall, the discussion highlights that yoga is an effective complementary practice that enhances both physical and mental performance among gym practitioners. The findings reinforce the importance of adopting a holistic approach to fitness that integrates mind and body for optimal results (Deshmukh et al., 2024).

V. CONCLUSION

The present study aimed to evaluate the impact of yoga intervention on physical and mental performance parameters among gym practitioners. Based on the analysis and interpretation of the data, it can be concluded that yoga has a positive and significant effect on overall fitness (Yao & Tseng, 2019).

The results clearly demonstrate that regular practice of yoga leads to substantial improvements in physical performance, particularly in terms of flexibility and muscular strength. Increased flexibility enhances the range of motion, reduces muscle stiffness, and minimizes the risk of injuries during gym workouts (Furtado et al., 2016). Similarly, improvements in muscular strength and endurance indicate that yoga complements traditional strength training by improving muscle coordination and control.

In addition to physical benefits, the study highlights the significant impact of yoga on mental health. A noticeable reduction in stress levels was observed among participants, along with improved concentration, focus, and emotional stability (Smith et al., 2025). These psychological benefits play a crucial role in enhancing overall performance, as a calm and focused mind contributes to better execution of exercises, increased motivation, and consistency in fitness routines.

The findings of the study emphasize that fitness is not limited to physical development alone but also includes mental well-being. The integration of yoga into regular gym routines provides a holistic approach to fitness, addressing both physiological and psychological aspects of health. This balanced approach not only improves performance but also enhances the overall quality of life (Kertapati et al., 2018).

In conclusion, yoga can be considered a valuable and effective addition to conventional fitness programs. Its ability to improve both physical and mental performance makes it highly beneficial for gym practitioners seeking comprehensive and long-term fitness outcomes. The study strongly recommends the inclusion of yoga as a regular component of fitness training to promote holistic health and well-being (Bhandari et al., n.d.).

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