

(Deemed University u/s 3 of UGC Act, 1956)

# Grade 'A' Accredited by NAAC MGM SCHOOL OF PHYSIOTHERAPY

Sector-1, Kamothe, Navi Mumbai - 410209

Project title	EXPLORATION OF MUSCULOSKELETAL IMPAIRMENTS IN INDIVIDUALS POST COVID-19 INFECTION IN THE LONG COVID PERIOD OF 9-12 MONTHS: A SURVEY STUDY.
Name and signature of Guide	Dr. Mamta Shetty (PT) Dr. Rucha Pradhan (PT)
Name and signature of Co-Guide	Dr. Rajani Mullerpatan
Name and	Anoli Gupta
signature of candidate/s	Arangasseri Shalom
candidate/s	Cardoza Smerra
	Chandanshive Aarti
Duration of project	10 months
Approval date	16 <sup>th</sup> March 2022
Submission date	09th April 2022
	Project Summary
Purpose	To explore the musculoskeletal impairments in patients in the Long COVID phase post-COVID 19 infection.
Objectives	To explore long-term (9-12 months) effects on the musculoskeletal system of patients who have suffered from COVID 19 infection with an interview-based questionnaire through telecommunication.
	To quantify the severity of affection on Activities of Daily living and Quality of Life based on the following domains: Fatigue, Pain, Strength and Endurance, Work-related Quality of Life and Psychological behavior.
Methods	It is a descriptive study conducted via telephonic interviews after obtaining informed consent from 957 participants along with their demographic data. A Self-designed questionnaire validated through the Delphi method from the respective members of the research committee and experts of the field was used to interview participants in their preferred language (Hindi, Marathi, English). The participants were selected based on inclusion/exclusion criteria. Statistical analysis was done with SPSS version 24 (IBM SPSS 28 Statistics Windows, Armonk, NY: IBM Corp) and Microsoft Excel 2013.

Results  A total of 68.7% participants reported of one or more symptoms of musculoskeletal on the most common being myalgia (63.3%), followed by fatigue (55%), arthralgia (4 Dull aching type of pain was commonly complained by more than half of patients in knees or either knee (24.6%), followed by the Calves, heels, and feet (23.8%). psychological domain revealed difficulties in enjoying activities due to pain (78 followed by inadequate rest and sleep (78%), feeling sad, blue or low spirited (69.7%) anxiety or discomfort (67.4%).  Conclusion  The study described the prevalence of musculoskeletal symptoms 9 to 12 month discharge. Myalgia and fatigue were most prevalent followed by arthralgia and de		
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individuals adopting healthy coping mechanisms. The study provides a follow-up provides a fol	individual	s adopting healthy coping mechanisms. The study provides a follow-up profile
patients aiding to more efficient care for COVID-19 survivors and provisi	patients a	aiding to more efficient care for COVID-19 survivors and provision f
comprehensive post-COVID rehabilitation.	comprehe	nsive post-COVID rehabilitation.





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IGAC CO-ORDINATOR

Guide: Dr. Mamta Shetty(PT)

Internship Coordinator



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#### Grade 'A' Accredited by NAAC MGM SCHOOL OF PHYSIOTHERAPY

Sector-1, Kamothe, Navi Mumbai - 410209

### **BPT Internship Project Report Summary**

	27 Thieriship Project Report Summary
Project title	Knowledge of awareness about home programme among caregivers for prevention of chest complications in adults with neurological conditions.
Name and signature of	Dr. Hiranmayee Bagwe (PT)
Guide	and the bagwe (11)
Name and signature of Co-Guide	Dr. Shrutika Parab (PT)
Name and signature of candidate/s	Simran Kandhari
cundidate/s	Asifa Khan
	Kanak Khot
	Shefali Kotwal
	Rachelle Lobo
Duration of project	10 Months
Approval date	15 <sup>th</sup> March 2021
Submission date	5 <sup>th</sup> July 2021
	Project Summary
Purpose	To understand the level of awareness about home programme among caregivers for prevention of
Ohiorti	chest complications in adults with neurological conditions.
Objectives	To understand the level of awareness and knowledge among caregivers regarding methods to prevent
Methods	respiratory complications in adults with neurological conditions.
	A semi-structured questionnaire was created and validated by the expert committee. Survey consisted of 28 questions which included multiple choice questions and 5-point Likert scale. After institutional ethical approval, the questionnaire was translated into Hindi and Marathi and was circulated through google forms. Over a span of 2 months, 257 responses were collected and analyzed.
Results	257 people responded to the survey of which 55% were aware of chest complications.  In addition to this, 52% were aware that chest complications result in decreased functional activities.  About 82% recognized the significance of exercise for improving their patient's quality of life.  70% of caregivers believe that adopting various body positions can help to reduce breathlessness.  69% people have seen an incentive spirometer but are uncertain of its use.  50% believe that positioning can aid with cough production. 77% agree that breathing exercises are a part of physiotherapy. 40% of the population are 50% confident in administering home exercise programmes and prefer video material.
onclusion	While caregivers are aware of chest complications, 50% are unaware of home-based physiotherapy preventive measures. Further research is needed to bridge the gap between awareness and prevention.
	proteinion.

Guide

Co-Guide

Internship-Coordinator

Professor-Director

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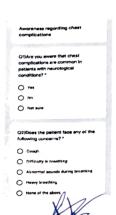
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#### MGM SCHOOL OF PHYSIOTHERAPY

Sector-1, Kamothe, Navi Mumbai - 410209

Project title	Knowledge of awareness about home programme among caregivers for prevention of chest complications in children and adolescence with neurological conditions.
Name and signature of Guide	C
Name and signature of Co-Guide	Dr Hiranmayee Bagwe(PT)
Name and signature of candidates	Ms Sushmita Shirsat and Ms Siddhi More
Duration of project	1 Year
Approval date	15 <sup>th</sup> March,2021
Submission date	22 <sup>nd</sup> April,2022
<b>Project Summary</b>	
Purpose	To understand the knowledge of awareness about home programme among caregivers for prevention of chest complications.
Objectives	To understand the level of awareness regarding home programmes for prevention of respiratory complications in children and adolescence with neurological conditions
Methods	A semi structured questionnaire was designed, and face validated by experts from different fields. Study commends Institutional Ethical Committee of Navi Mumbai approval was done. Questionnaire was then translated into two local languages i.e Marathi and Hindi respectively. The questionnaire was then converted into e-form and circulated to the participant based on the inclusive and exclusive criteria via email. Total were 511 responses collected from March 2021 to March 2022. Data was coded and analysis was performed using Microsoft Excel
	Out of the 511 caregivers who participated in the survey, about 75% caregivers were aware about secondary chest complications. 68% of the participants were aware that chest complications can result in reduced functional capacity. 66% of the participants accepted that caregivers delivered home program can help reduce respiratory complications. 53% caregivers agreed that exercising daily will help improving quality of life. 43% caregivers were aware about that adopting dyspnea reliving position. 61% of the participants had seen an incentive spirometer, but don't know how to use it. 43% caregivers believed that adopting various position helps in mobilizing secretions. 84% caregivers are aware that breathing exercise is a part of Physiotherapy. 41% of the participants are 50% confident about delivering home exercise program and believed that educational video and informative booklets

	regarding home programme for prevention of respiratory complication will empower
	regarding home programme for prevention of respiratory compared
	them.
Conclusion	Present study provides information regarding the awareness about the home programme amongst the caregivers for prevention of chest complications in children and adolescence with neurological conditions. Although, most caregivers were aware about the benefits of home exercise program but they were not confident in delivering care at home which could result in respiratory complication



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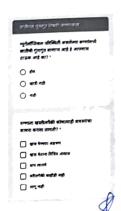
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Project title	Effects Of 6 Weeks of Triphasic Training Protocol on Sports Fitness Parameters of
	Semi-Pro Basketball Players
Name and signature of Guide	Dr. Ruturaj Shete (PT)
	Disha Surwase
Name and	Sibimol Shivprasad
signature of candidate/s	Aishwarya Shirude
	Hricha Mane
	Punite Tayade
	Swati Shitole
Duration of project	7 weeks
Approval date	7 <sup>th</sup> March
Submission date	22 <sup>nd</sup> April 2022
	Project Summary
Purpose	Basketball requires swift upper extremity movements, improved reaction time and explosive power which can be manifested as a result of concentric contraction. Triphasic training believes in training all aspects of a muscle contraction to maximize power output. Uniting the triphasic model with a periodized protocol is therefore essential to be tested on fitness parameters in basketball players.
Methods	To study sports fitness parameters in semi-pro basketball players.     To study the effect of triphasic training in sports fitness parameters of semi-pro basketball players.
Results	In this study 20 semi-pro basketball players participated and their fitness parameter were assessed before and after the intervention. There was significant improvement

	seen in tests of Strength, Muscular anaerobic endurance, Power and Speed. Agility and Reaction time test showed no significant changes pre and post intervention.
Conclusion	The findings of this study tell us that triphasic training is effective in improving strength, muscular anaerobic endurance, power and speed in semi-pro basketball players. However, it doesn't show a significant contribution towards improving agility and reaction time.





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- A. Our team at the U-18 state selections to identify the participants.
- B. Participant testing

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### MGM SCHOOL OF PHYSIOTHERAPY

Sector-1, Kamothe, Navi Mumbai - 410209

Project title	Impact of Physical Activity on Obese Pregnant Women to prevent
	Gestational Diabetes Mellitus - A Narrative Reviw
Name and signature of Guide	Dr. Hiloni Badani (PT)
Name and signature	Jalak Upadhyay
of candidate/s	Kasturi Vairagi
	Shweta Vayal
	Sumanyita Batni
	Rutuja Parte
	Kainat Khan
Duration of project	6 months
Approval date	21.04.2022
Submission date	22.04.2022
	Project Summary
Purpose	To determine the impact of physical activities in obese pregnant
	women to prevent Gestational Diabetes mellitus.
Objectives	The purpose of this study is to review the impact of physical activity
	in obese pregnant women, in order to prevent Gestational Diabetes
	Mellitus
Methods	Primary source articles published in peer-reviewed journals were
	included. Narrative review was carried out using PubMed,
	Cochrane, ScienceDirect, Medline, PMC Journals, BMJ, Elsevier,
	Sage Journals, and SpringerLink from 2015-2021. Keywords used
	were 'Gestational Diabetes Mellitus, Obese Pregnant Women,
	Physical Activity, Overweight, Exercise Intervention'. The
	methodological quality of studies was assessed and reviewed. The
	effects and impact of physical activities, and exercise intervention
n 1	in obese pregnant women to prevent GDM were reviewed.
Results	Eighteen studies were included in the study. Studies included
	individuals affected with Obesity before pregnancy
	(BMI>30kg/m2), inactive lifestyle, physical activities and exercise
	interventions like brisk walking, cycling, aerobic exercises,
	resistive exercises. Out of the eighteen studies, seven were

randomized controlled trials, four were meta-analysis and systematic reviews, two were cohort studies, three were literature searches, one was survey and one clinical trial. Four articles suggested that aerobic exercises and resistive exercises decrease the complications associated with gestational diabetes mellitus. Other articles suggested that the combination of both physical activities (aerobic and resistive exercises, brisk walking, cycling, water aerobics), and dietary changes help to control and prevent gestational diabetes mellitus in pregnant women, and the risks associated with it in pregnant women and feotus.

#### Conclusion

Gestational diabetes mellitus is a common complication of pregnancy that is caused due to carbohydrate intolerance resulting in hyperglycemia. It influences roughly six percent of pregnant ladies and its commonness is expanding on account of weight and inactive way of life. Actual work might be a modifiable way of life that assists with hindering significant intricacies during and after pregnancy. Practices carried out during pregnancy can help in lessening unreasonable weight gain and gestational DM. It's found that moderate-intensity exercise, cardiopulmonary exercise training, resistance training and a proper diet will help in reducing gestational DM in pregnant women. This narrative review can emerge as a useful study to know various interventions wont to prevent gestational diabetes and help physiotherapists to satisfy the wants of those patients in an exceedingly better and more efficient way.

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# MGM SCHOOL OF PHYSIOTHERAPY

Sector-1, Kamothe, Navi Mumbai - 410209

# **BPT/Internship Project Report Summary**

	<b>2.</b> 1/2200
Project title	Effect of peer mentorship in comparison to traditional mentorship physiotherapy students
Name and signature of	Dr. Shrutika Parab (PT)
Guide	
Name and signature of	Saba Kalokhe
candidate/s	Kavya Agrawal
	Ankita Kelkar
	Keshav Singh
	Roshni Kukreja
Duration of project	1 Year
Approval date	16 <sup>th</sup> March 2022
Submission date	22 <sup>nd</sup> April 2022
	Project Summary
Purpose	To understand the effect of peer mentorship compared to traditional mentorsh
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Objectives	To compare the effect of traditional mentorship and peer mentorship on te
Objectives	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	anxiety levels in students.  To compare the effect of traditional mentorship and peer mentorship on the sel
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	To compare the effects of traditional mentorship and peer mentorship on the sel
	Cotodonto on tact taking skills
Methods	Study commenced after approval of the research Proposal by the Institution
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	Mumbai. A total of one hundred and twenty participants were selected on the
	de la company de la constitución criteria Willen Illiollicu colliscia was obtaine
	from all participants. The demographic data of the participants were documented from the participant with the participant with the participant were documented from the participant with the
	and the sum of the state of the sum of the s
	random sampling-sorting method). Traditional mentorship (Control group) an
	Peer mentorship (Experimental group). Participants in both groups were preteste
. 40	using three evaluation scales 'Westside Test Anxiety Scale' 'Rosenberg Sellusing three evaluation scales 'Westside Test Anxiety Scale' 'Rosenberg Sellusing skills. Group of Traditions
,	esteem Scale' and 'Self Perception of test-taking skills. Group of Traditional esteem Scale' and 'Self Perception of test-taking skills.
	mentorship students underwent the mentorship program that was set by the
	college i.e. one teacher guiding a group of students while the group of pec
	mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students were assigned individual mentors who were either mentorship students who were either mentorship students were assigned in the students who were either mentorship student
	physiotherapy interns or postgraduate students. One session was conducted ever
	week for both groups for a total duration of twelve weeks. Upon completion of the duration post-study evaluation of all the students was done using the same
	the structure of the st
	evaluation measures.

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Results	Finding of the study reported that by the end of twelve weeks the level of anxiety in students under peer mentorship reduced in comparison to traditional mentorship. Self-esteem levels improved more in students under peer mentorship compared to traditional mentorship, whereas self-perception of test-taking skills improved more in traditional mentorship students compared to peer mentorship students (p-1).(15).
Conclusion	Peer mentorship has the potential to reduce the anxiety levels in students as well as improve their self-esteem levels. Traditional mentorship helped improve the perception of test-taking skills in students. Therefore, peer mentorship must be complemented with traditional mentorship for better outcomes in higher educational institutes.





Peer Mentorship

Traditional Mentorship

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Sector-1, Kamothe, Navi Mumbai - 410209

Project title	Perception of BPT graduates regarding offline and online mode of training – A survey
Name and signature of Guide	Dr. Mamta Shetty (PT)
Name and	Khilti Furia
signature of	Urvi Jain
candidate/s	Shifa Joad
	Kalpita Kadam
	Tanvi Kadve
Duration of project	6 months
Approval date	16 <sup>th</sup> March 2022
Submission date	22 <sup>nd</sup> April 2022
	Project Summary
Purpose	COVID-19 has significantly affected medical education imparted to students as well as their clinical training. it is critical in these times of the COVID-19 pandemic to assess the learning and teaching style of students as to which mode gives them more freedom to connect with their teachers, fellow students and engage with their study material at their comfort and flexibility of space and time. The perception of students will assist in better student's outcome as this will aid in knowing which group of students need more attention through the mode of training for their better development in curriculums.
Objectives	The objectives of this study are as follows:  1: To probe into the learner's perception of offline mode of training using Student Engagement Questionnaire.  2: To probe into the learner's perception of online mode of training using Student Engagement Questionnaire.
Methods	An online survey was administered to 500 BPT graduates across Mumbai and Navi Mumbai. An orientation session regarding the research was conducted by the co-investigator for the sampling population over Zoom meeting informing them about the details of study. A google form link containing the Student Engagement questionnaire was formed and shared with the sampling population (graduate students of BPT) via electronic platform of their individual preferences. Statistical analysis was performed on the data collected which was further evaluated for conclusion.

Results	The study was focused on reporting the perception of BPT graduates regarding offline and online mode of training. Out of the total participants 98.2% perceived critical thinking, creative thinking, adaptability, problem solving, assessment and coherence of curriculum domain to be an important aspect of training in offline mode when compared to online mode. Combined perception of participants for the domains self-managed learning, computer literacy, feedback to assist learning and cooperative learning was considered 4.5% to be salient in offline mode of training when compared to online mode. Assessment of the domains interpersonal skills, relationship with other students and between teachers and students revealed that 96.5% participants perceived these domains to be major aspect of offline mode of training. 97.7% perceived communication skills, active learning and teaching for understanding to an important aspect of domain for offline mode of training when compared to online mode.
Conclusion	Summarizing the entire report analysed on the basis of the supportive findings, students reported offline mode learning to be a more insightful mode of training. Many students perceived that the offline mode of lectures provides more information on subjects and more scope for interaction with peers and teachers. Online learning is a feasible solution for continuing medical education even after the pandemic but needs to be combined with offline skill training on campus that helps in better understanding of subjects.

ONLINE MODE OF X I TRAINING	OFFLINE MODE OF # 1 TRAINING		
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( Disagree	( ) Disagree		
Strongly Disagree	( ) Strongly Disagree		
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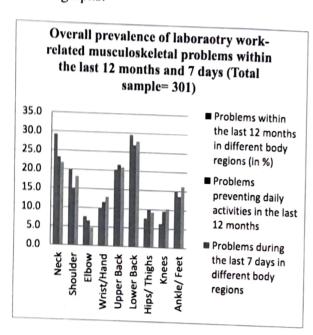
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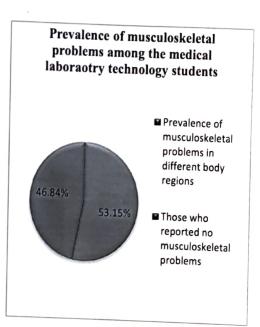
#### MGM SCHOOL OF PHYSIOTHERAPY

Sector I, Kamothe, Navi Mumbai 410309

Project title	Prevalence of work-related musculoskeletal problems among students undergoing medical laboratory training: A survey study
Name and	Dr. Omeshree Nagrale (PT)
signature of Guide Name and	Zaheen Shaikh
signature of	Shaili Gogri
candidate/s	Shankari Balan
· initiality is	Dhwani Sheth
	Nirmiti Shinde
Duration of project	7 months
Approval date	16th March 2022
Submission date	18th April 2022
	Project Summary
Purpose	Undergraduate students undergoing medical laboratory training adapt to prolonged static postures for extended periods accompanied with repetitive laboratory activities which lead to higher risk of developing musculoskeletal problems early in their career. There is limited evidence of musculoskeletal problems in relation to the work of students in India. Therefore, this study focuses on the prevalence of musculoskeletal problems and the body sites commonly affected in medical laboratory technology (MLT) students.
Objectives	The following objectives are:  1. To estimate the prevalence of musculoskeletal discomfort among the medical laboratory students.  2. To determine the body regions commonly affected among medical laboratory students.
Methods	A Standardised Nordic Musculoskeletal Questionnaire was circulated to 3%4 medical laboratory technology students using convenient sampling method out of which 320 responses were received. After excluding participants not fulfilling the selection criteria, 301 responses were analyzed. Survey was conducted via online electronic platforms such as WhatsApp and Emails. Form included demographic details and questions to evaluate prevalence, site and impact of work-related musculoskeletal problems in the students. Questionnaire was administered between March and April 2022. Statistical analysis from the data collected via survey questionnaire was evaluated for conclusion.

Results	The responses of 301 participants were analyzed and overall 53.15% prevalence of laboratory related musculoskeletal problems in the last 12 months was reported. The lower back (29.57%), neck (29.27%) and upper back (20.27%) were the most prevalent regions of the body reported to be having musculoskeletal problems. Also, many students reported discomfort in last 7 days. Students went on to report that these problems had a considerable impact on daily activities in the past 12 months.
Conclusion	Students though were in their laboratory training period, are already experiencing high levels of musculoskeletal problems even at the outset of their career. This is a matter of concern as not only the prevalence is high but also considerable numbers of students are facing difficulties in daily living activities. Hence inclusion of strategies to address ergonomic and postural training in the university curriculum is essential. Also identifying the problems for early intervention is needed which will prevent further discomfort and facilitate healthy and sustainable workforce.





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