



DEPARTMENT OF PHYSIOTHERAPY
SCHOOL OF ALLIED HEALTH SCIENCES
SWAMI VIIVEKANANDA UNIVERSITY

About The University

Swami Vivekananda University was established in the year 2019 by Swami Vivekananda Group of Institutions (RERF) and over the last couple of years has grown in rapid strides to transform it into a reputed University. RERF is lead educational conglomerate in the state of West Bengal and leading Private-sector Educational Group with over 28 institutions dedicated to impart demand-driven education in Pure and Applied Science, Engineering, Technology, Management, Agriculture, Life Science, Allied Health Science, Humanities and Social Sciences, Journalism and Mass communication and related areas with high quality consciousness in various Under graduate, Post Graduate and Doctoral programs.



Swami Vivekananda University (SVU) aims to actualize Swami Vivekananda's educational vision of life building, and character-making education by combining the best elements of the East and the West. He envisioned an educational system wherein the rich cultural and spiritual heritage of our country with its hoary tradition of values like sacredness of knowledge, shraddha, devotion to truth, etc., would be blended with modern science, and predominantly western values like scientific temper, rationality of outlook, fearless and objective investigation into the nature of the physical world, technological skill, work

efficiency, team work, etc. Swami Vivekananda's emphasis on man-making and character-building education is always being kept in view in all the programs and courses of study in the University bearing his hallowed name.

In the direction of thought of the Hon'ble Chairman's dream – Excellence -Innovation-Entrepreneurship – the University has taken several new educational initiatives in the recent past. The prime focus continues to drive us towards achieving increased standard of education and wider research outreach program. It is imperative, therefore, to be both creative & innovative in the approach to lead the University towards a University of Excellence. The University is established through the Act no. XV of 2019 of the State Legislature of West Bengal in the year 2019 w.e.f 5th December 2019 and subsequently enlisted by the University Grant Commission in the year 2020 as a State Private University. The University from inception keeping a self-compliance of quality standard so as to comply accreditations immediately after becoming eligible on completion of graduation of batches. This is in place through its own Internal Quality Assurance Cell (IQAC).

Located in its sprawling 12 acres lush 'Green Campus' at the Township of Barrackpore with a smooth tripartite connectivity of rail-road-air, within 15 kilometres from Airport, little distance from the junction point Wireless more of Barrackpore-Barasat and Kalyani Expressway, in a close vicinity from Barrackpore railway station, the University already attains a strength of over 2000 + students pursuing various graduate and post graduate programs including around 150 research scholars only in its second session. The Campus has an ideal educational ambience with Classrooms, Laboratories, Auditorium, Smart Classrooms, Seminar Halls, Conference Halls, Computer Centre, Central Library, Gymnasium, Store and Canteen with campus WI Fi connectivity.

From the Vice Chancellor's Desk



Its indeed a privilege to be at the forefront of an emerging university, our SVU. It is a matter of pride and satisfaction that ever since the inception in 2020, SVU has been striving for excellence in Higher Education, Research and Extension activities, Gratitude to the guidance of hon'ble Chancellor and thanks to the efforts of our Colleagues, the University's Undergraduate, Post-graduate, and Doctoral Programs in the areas of Engineering, Management, Agriculture, Computer Science, Life Sciences, Allied Health Science, Humanities and Social Sciences.

Our research programs range across all disciplines and total commitment is essential to achieve the goals. As we look to the future, one thing is certain - technology and knowledge will be key resources, most sought after within the country and around the world, Therefore, it is our paramount duty to help generate ideas that will benefit society, and to educate and train people to work in fields where they will be valued for their specialized knowledge. Our acumen to research, communicate and solve issues is to be improved upon from time to time. To meet these challenges, alliances with research institutions, partnership with Government and other agencies are to be undertaken expeditiously. We should leave no stone unturned to ensure the quality of our academic programs and excellence of our teaching, learning and research.

This is the byproduct of dedication and concerted efforts from all corners. In the rapidly evolving society of today, it has become more important than ever for the University to adapt, evolve and be the cornerstone of creating knowledge, The excellence of the University has always come from the individual strengths of our extremely diverse members. With many more miles to go, let us shoulder the responsibility and work together to take this institution to greater heights.

From the Chief Operating Officer's Desk



It is a great privilege and honour to be a part of the mission to make "Swami Vivekananda University" a name to reckon within the academic fraternity by giving a strong impetus to creating an environment of knowledge, application and holistically inspiring youth to become leaders of tomorrow. I believe that the rigours of the contemporary world will require knowledgeable professionals who could withstand the dynamics of the fast-changing world. It is a great privilege and honour to be a part of the mission to make "Swami Vivekananda University" a name to reckon within the

academic fraternity by giving a strong impetus to creating an environment of knowledge, application and holistically inspiring youth to become leaders of tomorrow. I believe that the rigours of the contemporary world will require knowledgeable professionals who could withstand the dynamics of the fast-changing world. Hence "Making a Difference in the Life of Every Student" is the Priority of my administration. We look forward to a deep engagement with Students, Industry, Faculty, and Community to position Andhra university as the national leader in delivering value to its students and offering a transformative educational and life experience.

The Vice Chancellor office works collaboratively across the University Constituent and affiliated Colleges to ensure that every student has the best possible education and experience. In the journey, there will be tough times and there will be easier ones, but we shall work hard with no regrets, and be victorious. The University faculty are here to be the mentors and facilitators to help the students in all round progress. The parents are here to understand the strength and weaknesses of their wards and encourage them, in choosing

a study of their passion. The students are here to understand that the rules and regulations in the university are put in a place to help them in achieving dreams.

There must be an aspiration to excel and serve the society, and hence there must be measuring standards. We the faculty and students as a University must excel and set standards to impact society and future generations.

Let's move ahead with a clear line of action to excel in academics, fortify our research initiatives through quality publications, strengthened industry – institute interactions, product development, Start-Up ventures and honestly contributing for the upliftment and growth of people and humanity at large.

Our challenge is to help to generate ideas that will benefit society, and to educate and train people to work in fields where they will be valued both for their knowledge, and for their ability to research, communicate and solve problems. I offer my best wishes to all students, faculty and staff to grow and excel in this challenging and competitive era and the pinnacle of success.

From the Registrar's Desk



We have pleasure in welcoming you to Swami Vivekananda University, Barrackpore. The University is striving hard to have qualitative improvement in the level of education, environment and economy of this region. The university has a visionary mission to contribute in multidimensional growth and development of the region in general and holistic development of the students in particular. We hope that the inspiring students, under the guidance of dedicated teachers and a far-sighted

leadership of the top administration would lead this University to a coveted and recognized position in the galaxy of higher education in the country.

Swami Vivekananda University's aspiration is to be a world class centre of excellence in training, research and innovation in cutting edge technologies. We are in the sincere process of creating a positive image whereby our name becomes synonymous with excellence, innovation, honour, integrity and outstanding quality and service. Always we will keep our vision goal focused ensuring to reach greater heights in the days ahead. As we embark on developing the University, all the dedicated personnel at SVU need to be unswerving in defending our vision. We shall focus on the individuals' strengths and use their strengths in a very goal-directed niche within our institution.

Our primary objective is to enrich and support the individual in his/her endeavour towards the attainment of knowledge and wisdom to apply that knowledge in coherence with the aims and ambitions of the individual in particular and for the greater good of human kind in general. Industries and renowned institutions are always welcome to collaborate for R & D activities with faculty members and research scholars. As regards to the students who are our main stakeholders, we look forward to a healthy working relationship where dialogue becomes the pillar of our understanding. We remain open to your deserved needs and not demands and our focus will be to make you all-round graduates ready for the market and responsible citizens of this great country. I assure you best academic, administrative and research atmosphere in the campus.

About The Department

Physiotherapy, as a branch of rehabilitative medicine, focuses on helping patients maintain, recover, or enhance their physical abilities. Physiotherapists remediate impairments and

disabilities while promoting mobility and movement potential through provisional diagnosis and physical interventions. High quality physiotherapy education is essential for this post - modern era. People require rehabilitation in different aspects of life. A specialized physiotherapist is well equipped to cater to such needs. The Department of



Physiotherapy was established in the year 2020 to provide quality education interlaced with hands-on experience to undergraduate Bachelor of Physiotherapy students and Master of Physiotherapy Programme commenced in the year of 2024 to impart internationally accepted education and training in Physiotherapy program.

From the HOD's Desk



Dr. Sourav Mitra (PT)
Assistant Professor & In-Charge,
Department of Physiotherapy

Welcome to Department of Physiotherapy, a department that focuses on opportunity and achievement, a place where students are encouraged and supported to excel. Keeping the very fact in mind the department with the support of it's able faculty members, visionary management and excellent and extensive infrastructure entrenches perseverance and a never-say-die spirit from academics to co-curricular activities in the heart of every student to not only making them good physiotherapists but brilliant human beings.

Physiotherapists are key players in the health care system today. Physiotherapy is a healthcare profession that is primarily concerned with remediation of

impairments and disabilities and the promotion of mobility, functional ability, quality of life and movement potential through examination, evaluation, diagnosis and physical intervention. They help in restoring and improving movements, keeping patients healthy, fit and active thereby improving the quality of life. They also play an important role in avoiding surgery and long-term use of medications.

Faculty Members of Physiotherapy Department



Dr. Sourav Mitra (PT)
Assistant Professor & In-Charge,
Department of Physiotherapy



Dr. Gourab Jyoti Roy (PT)
Assistant Professor,
Department of Physiotherapy



Dr. Sunayana Ghosh Dostider (PT)
Assistant Professor,
Department of Physiotherapy



Dr. Sanhita Bose (PT)
Assistant Professor,
Department of Physiotherapy

Celebrating Student Achievement: Successful Completion of NPTEL Course

Venue: Swami Vivekananda University Campus

We are thrilled to commemorate our students' academic achievements in the physiotherapy department.

BPT2023 Batch: Out of the cohort, 17 students have finished the NPTEL course "Biomechanics of Joints and Orthopaedic Implants".



BPT2022 Batch: There is **3 students** successfully completed NPTEL Course (Introduction to Exercise Physiology & Sports Performance)



This achievement demonstrates the students' devotion as well as their desire to learn more about important facets of physiotherapy, including joint biomechanics and the function of orthopaedic implants in healing and rehabilitation. Our students' desire to remain at the forefront of their area and their enthusiasm for learning are demonstrated by their completion of this specialized course.

Highlights of the Course:

The NPTEL course offered a thorough comprehension of:

- Underlying biomechanical concepts and how they relate to joint motion.
- ✓ Orthopedic implants' construction and use in the management of musculoskeletal conditions.
- How biomechanics and rehabilitation techniques are related.

Why This Achievement Is Important:

The students' academic and professional skill sets are greatly enhanced by this course. Our students have given themselves cutting-edge knowledge that will be extremely useful as they advance in their clinical and academic careers by finishing the NPTEL course. This demonstrates their ongoing attempts to widen their perspectives and make a significant contribution to the physiotherapy industry.

Recognizing Our Successors:

We would like to sincerely congratulate the 17 students who have finished this demanding and rewarding course. They inspire their peers and the entire department with their diligence, dedication, and willpower.

Looking Ahead:

The Physiotherapy Department is committed to creating an atmosphere that promotes both academic success and ongoing professional growth. We anticipate that more students will enroll in these enlightening programs and succeed even more in their academic and professional endeavors.

Once again, congratulations to our BPT2022, BPT2023 batch for their outstanding achievement

Honouring Scholarly Contributions: Current Works by Our Teachers and Students

With great pleasure, we announce the latest academic works from our physiotherapy department. As evidence of their dedication to academic quality and clinical innovation, our committed faculty and students have made significant contributions to research that enhances the field of physiotherapy.

Physiotherapy Faculty Research Update:

Dr. Sourav Mitra (PT)

- 1. **Sourav Mitra**, MS Anwar, Satyen Bhattacharyya. Effectiveness of core stability exercises along with swiss ball for improvement of trunk control in stroke patients: A pilot study. International Journal of Multidisciplinary Trends 2024; 6(12): 52-54, DOI: https://doi.org/10.22271/multi.2024.v6.i12a.537
- 2. **Sourav Mitra**, Satyen Bhattacharyya, Amartya Mallick, Priyanka Das. Synergistic healing: Efficacy of extracorporeal shock wave therapy and low-level laser therapy in managing plantar fasciitis heel pain: A pilot Study. International Journal of Biology Sciences 2025; 7(1): 17-19, DOI: https://dx.doi.org/10.33545/26649926.2025.v7.i1a.266
- 3. Khairul Islam, **Sourav Mitra**, Tajmina Parbin, Gourab Jyoti Roy. Core and balance: Advancing rehabilitation for multiple sclerosis patients. International Journal of Biology Sciences 2025; 7(1): 06-09, DOI: https://dx.doi.org/10.33545/26649926.2025.v7.i1a.263
- 4. **Sourav Mitra**, Satyen Bhattacharyya, Amartya Mallick, Priyanka Das. Pain relief in cervicogenic headache: A pilot study on manipulative therapy efficacy. International Journal of Advanced Academic Studies 2025; 7(1): 110-112, DOI: https://doi.org/10.33545/27068919.2025.v7.i1b.1341
- 5. **Sourav Mitra**, Md. Zulfaquar Khan, Abhiprata Naru. Pain unplugged: Evaluating cupping therapy in carpal tunnel syndrome A single case study, International Journal of Applied Research 2024; 10(12): 262-264,DOI: https://dx.doi.org/10.22271/allresearch.2024.v10.i12d.12241





Sourav Mitra, Satyen Bhattacharyya, Amartya Mallick and Priyanka Das

DOI: https://dx.doi.org/10.33545/26649926.2025.v7.i1a.266

ostract
rekground: Plantar heel pain, a common regional pain condition, can cause significant discomfort
interfere with patients' typical activities. Walking discomfort can have a detrimental impact on a
tient's quality of life, and the first step in the morning can yield diagnostic information for Plantar
sciits patients.

Materials and Methods: Plantar fasciitis was identified in 15 patients ranging in age from 45 to 52 years. Clinical symptoms and anamenis confirm the diagnosis, with pain on the first step in the morning and discontrol after exercise long the most picpielly perorted symptoms. This treatment session lasted four days a week for four weeks total. The patient was examined using the Numeric Pain Ranting Scale (PNES).

(NPRS). icipants showed significant improvement in pre-test and post-test scores for Numeric Pain NDD Stubbleh was considered as statistically significant.



Khairul Islam, Souray Mitra, Tajmina Parbin and Gourab Jyoti Roy

DOI: https://dx.doi.org/10.33545/26649926.2025.v7.i1a.263

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Abstract
Background: Multiple Sclerosis (MS) is a chronic neurological disorder marked by demyelination in
the central nervous system, leading to impairments in balance, coordination, and mobility. Balance
dysfunction is a frequent symptom in MS, significantly affecting quality of life. Core muscle
strengthening is proposed as an effective intervention for improving balance in MS patients.

Objective: This case study evaluates the effectiveness of a core strengthening program in improving
balance in a patient with MS.

Methods: A 22-year-old male with relapsing-remitting MS (RRMS) and moderate balance difficulties.

Seessed by the BER Balance Scale (BBS) and Timed Up and Go (TUG) test, underwent a 6-week
physiotherapy intervention focused on core strengthening exercises including planks, bridges, pelvic
tils three times weekly. Balance was reassessed post-intervention.

Results: Significant improvements were observed, with BIS scores increasing from 32 to 38 and TUG
methoders. Governments of the control of the

Keywords: Multiple sclerosis, core strengthening, balance, physiotherapy, berg balance scale,

International Journal of Advanced Academic Studies

Pain relief in cervicogenic headache: A pilot study on manipulative therapy efficacy

Sourav Mitra, Satyen Bhattacharyya, Amartya Mallick and Priyanka

DOI: https://doi.org/10.33545/27068919.2025.v7.i1b.1341

www.allstudyjournal.com IJAAS 2025; 7(1): 110-112 Received: 02-11-2024 Accepted: 06-12-2024

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Assistant Professor, Burdwan Institute of Medical & Life

Priyanka Das

Abstracy and Cervicogenic headache (CGH) is a common condition originating from cervical spine dysfunction, often leading to persistent pain and reduced quality of life. Manipulative therapy has emerged as a potential non-pharmacological intervention for managing CGH symptoms. Objective: This pilos study aimed to evaluate the efficacy of manipulative therapy in reducing pain intensity and improving functional outcomes in patients with cervicogenic headache. Participants received a structured manipulative therapy intervention over a specified period. Pain intensity was assessed using the Numeric Pain Rating Scale (NPS), and functional improvements were measured using the Next Obisibility index (NDI) both pre- and post-intervention. Results: Pelinimary findings indicated a significant reduction in pain intensity and improvement in next function following manipulative theory appears to be an effective approach for managing pain and improving function in patients with cervicogenic headache. Further large-seale studies are recommended to validate these findings and optimize teatment protocols.

Dr. Sunayana Ghosh Dostider (PT):

- 1. Sunayana Ghosh Dostider. Balance rehabilitation treatment in patients with parkinson's disease: A randomized controlled pilot study. International Academic Studies. Journal of Advance **IJAAS** https://doi.org/10.33545/27068919.2025.v7.i1b.1339. 2025; 7(1): 103-105.
- 2. Sunayana Ghosh Dostider. Pilates beyond fitness: Efficacy in chronic low back pain A single-case perspective. International Journal of Applied Research. **IJAR** 2024: 254-256. 10(12): https://dx.doi.org/10.22271/allresearch.2024.v10.i12d.12239
- 3. Sunayana Ghosh Dostider. Pulses of progress: Russian current therapy in managing knee osteoarthritis. International Journal of Biology Sciences. IJBS 2025; 7(1): 10-12. https://dx.DOI.org/10.33545/26649926.2025.v7.i1a.264

4. Sunayana Ghosh Dostider, Sourov Saha. A pilot study on effectiveness of Kinesio taping on foot pain at its worst and at morning in plantar fasciitis International Journal of Multidisciplinary patients. Trends. https://doi.org/10.22271/multi.2024.v6.i12a.534





ISSN Print: 2394-7500 Impact Factor (RJIF): 8.4 IJAR 2024; 10(12): 254-256 www.allresearchjournal.com Received: 17-10-2024 Accepted: 25-11-2024

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Pilates beyond fitness: Efficacy in chronic low back pain-A single-case perspective

Sunayana Ghosh Dostider

DOI: https://dx.doi.org/10.22271/allresearch.2024.v10.i12d.12239

Background: Lower back pain that persists for more than 12 weeks or three months after an acute low hack injury or underlying cause is defined as Chronic low back pain (CLRP)





ISSN Online: 2664-9934 IJBS 2025; 7(1): 10-12 www.biologyjournal.net Received: 12-10-2024 Accepted: 15-11-2024

Sunayana Ghosh Dostide Assistant Professor, Department of Physiotherapy, School of Allied Health, Swami Vivekananda University, West Bengal, India Pulses of progress: Russian current therapy in managing knee osteoarthritis

Sunayana Ghosh Dostider

DOI: https://dx.DOI.org/10.33545/26649926.2025.v7.i1a.264

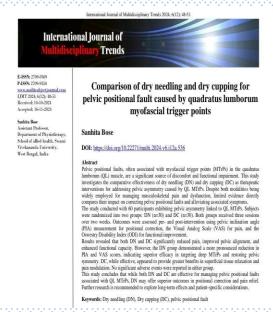
Abstract
Background: Knee osteoarthritis (OA) is a degenerative joint condition that is largely caused by wear
and tear and the progressive loss of articular cartilage. Clinical signs include knee discomfort that
worsens with movement, stiffness, oedema, and crepitus. Russian current is a modulated mediumfrequency simusoidal alterating current that is used to alleviate pain and increase muscular strengt (Case Presentation: The patient was a 55-year-old female who had been diagnosed with bilateral grade
III OA after experiencing discomfort during exercise and swelling on the medial side of both kneel.
III OA after experiencing discomfort during exercise and swelling on the medial side of both kneel
for 8 months. The outcome measurements were the Numerice Pain Rating Scale (NPRS) for pain and the
Western Outation and McMaster Universities Arthritis Index (WOMAC) for function. The patient got Russian current six times per week for four weeks, combined with conservative knee exercises.
Result: The patient's NPRS improved from 8 to 3 points and 7 to 3 points on the right had left knees, respectively. After completing the physiotherapy program, the right knees WOMAC score decreased by 61 points, while the left knee's score decreased by 45 points.
Conclusion: The patient's gain and function improved significantly. So, Russian current combined with conservative knee exercises may be a viable therapeutic option for osteoarthritis.

Dr. Sanhita Bose (PT):

- 1. Sanhita Bose. Pinpoint precision: Exploring dry needling as a game-changer for golfer's elbow, International Journal of Applied Research, ISSN Print: 2394-7500, ISSN Online: 2394-5869, Impact Factor (RJIF): 8.4, IJAR 2024; 10(12): 250-253.
- 2. Sanhita Bose. The relationship between smartphone use duration and cervical dysfunction in university students. International Journal of Advanced

Academic Studies 2025;7(1):176-179. DOI: 10.33545/27068919.2025.v7.i1c.1344, P-ISSN: 2706-8919, EISSN: 2706-8927.

- 3. Sanhita Bose. Unlocking flexibility: The effects of cupping therapy on hamstring mobility and muscle function. International Journal of Biology Sciences 2025;7(1):1316. DOI: 10.33545/26649926.2025.v7.i1a.265, P-ISSN: 2664-9926, E-ISSN: 2664-9934
- 4. Sanhita Bose. Comparison of dry needling and dry cupping for Pelvic positional fault caused by quadratus lumborum Myofascial trigger points, International Journal of multidisciplinary trends, E-ISSN: 2709-9369, P-ISSN: 2709-9350, IJMT 2024; 6(12): 4851, DOI: https://doi.org/10.22271/multi.2024.v6.i12a.536.







DOI: https://dx.doi.org/10.22271/allresearch.2024.v10.i12d.12238 Abstract Background: Golfer's elbow is a prevalent condition characterized by pain and tenderness on the inner side of the clbow, often impacting individuals who engage in repetitive wist and foream activities. Day needling (DN) is a therapeutic technique that involves the insertion of fine needles into myodascial trigger points to relieve parin and enhance function. This review examines the clinical contones and efficacy of day needling in alleviating pain and improving functional performance in patients with efficacy of dy seedling in alloristing pain and improving functional performance in patients with golder's obnow.

Objective: To assess the effectiveness of dy needling in reducing pain and improving functional outcomes in patients suffering firm golder's obnow.

Methods: A comprehensive review of clinical trials and studies focusing on the impact of dy needling on pain reduction, infinitional improvement, and overall recovery in golder's oblow patients was conducted. The review included studies that measured outcomes using pain scales, functional assessments, and recovery times.

Results: The review indicates that dry needling can effectively reduce pain and improve functional outcomes in patients with golder's obox. Statistical analysis demonstrated significant improvements in pain levels and functional access post-maximent, with most patients reporting enhanced recovery and reduced sourcess.

point with an indication society portunation, with more justices explaining families. Conclusions: The findings suggest that day needling is an effective adjunct therapy for golfer's elbow of fifting significant benefits in pain relief and functional recovery, thereby improving patients' quality of life. Further research is recommended to establish standardized treatment prodocols.



Unlocking flexibility: The effects of cupping therapy on hamstring mobility and muscle function

DOI: https://dx.doi.org/10.33545/26649926.2025.v7.i1a.265

Abstract
Background: Hamstring tightness is a common issue affecting athletes and non-athletes alike, often
Background: Hamstring tightness is a common issue affecting athletes and non-athletes alike, often
dealing to reduced flexibility, impaired muscle function, and increased risk of injusy. Cupping therapy,
a traditional therapentic technique, has gained popularly in musculoskeleral rehabilitation for its
presential to improve melhility, rather gain, and enhance menter performance. However, its specific
effects on hunstring flexibility and function remain under researched.

Almos: This study aimond to investigate the effects of crypting therapy on humstring flexibility and
muscle function, exploring its potential as a non-averagive intervention for managing humstring

**Commonweight Commonweight C

missics inaction, expressing as pressure infigurates. Methods A randomized controlled trial was conducted with 30 participants experiencing he (highers. Participants were divided into two groups: the intervention group received copping and the control group followed standard stretching exercises. Hamstring flexibility was used the sit-and-each text, while muscle fination was evaluated through isokinetic strength Measurements were taken at baseline, immediately post-intervention, and after one week. Results: The intervention group showed a significant improvement in humstring flexibility compared to the courted group. Additionally, muscle function, as measured by peak torque, it significantly in the output flexibility of port. 400.51 These improvements were maintained at week follow-up. Participants also reported reduced muscle stiffness and enhanced performant selected articipate.

color-legi, rancipuus asso reponen reascen musees uniness and eenastees periorimunee uning data aktivities. dataksiene Cupping therapy demonstrated significant efficies; in improving hamstring flexibility and del function compared to traditional stretching exercises. These findings suggest that copping apply could be an effective complementary treatment for managing hamstring tightness and straing musele performance. Further studies are recommended to explore its long-term effects and

Gourab Jyoti Roy:

- 1. **Gourab Jyoti Roy**, Ammar Faisal Khan, Fatima Saeed and Urusia Parveen. Proprioceptive training's impact on postural stability in diabetic neuropathy individuals. International Journal of Advance Academic Studies. IJAAS 2025; 7(1): 170-175. E-ISSN: 2706-8927.
- 2. Khairul Islam, **Gourab Jyoti Roy** and Tajmina Parbin. A case study on the role of interrupted galvanic stimulation in neuromuscular disorders: Focus on brachial amyotrophy. International Journal of Advance of academic Studies. IJAAS 2025; 7(1): 106-109. E-ISSN: 2706-8927
- 3. **Gourab Jyoti Roy**, Fatima Saeed and Khairul Islam. BMI and physical fitness relationship among students. International Journal of Applied Research. IJAR 2024; 10(12): 245-249. P-ISSN: 2394-7500 [Impact Factor (RJIF): 8.4]
- 4. **Gourab Jyoti Roy**, Urusia Parveen and Fatima Saeed. Effects of task-oriented learning on the functional mobility and balance of kids with cerebral palsy. International Journal of Biology Sciences. IJBS 2025; 7(1): 20-27. E-ISSN: 2664-9934.
- 5. **Gourab Jyoti Roy** and Saher Ansari. The efficiency of cardiac rehabilitation on cardiopulmonary health in elderly populations. International Journal of Multidisciplinary Trends. IJMT 2024; 6(12): 38-40. E-ISSN: 2709-9369.





www.allstudyjournal.com IJAAS 2025; 7(1): 170-175 Received: 13-10-2024 Accepted: 15-11-2024

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Proprioceptive training's impact on postural stability in diabetic neuropathy individuals

Gourab Jyoti Roy, Ammar Faisal Khan, Fatima Saeed and Urusia

DOI: https://doi.org/10.33545/27068919.2025.v7.i1c.1343

vary.

Goal: To ascertain how proprioception training affects dabetic neuropathy patients' ability to balance.

Method: Two groups of 30 subjects each will be formed from a total of 60 subjects with type 2 diabetic peripheral neuropathy.

Results: The excrises group included 30 (50%) of the 38 patients, with a mean age of 64#.7.7 years; 16 (52.6%) were male and 14 (47.3%) were female. The control group had 30,65%) patients with a mean age of 64#.8.2 years; 18(63.1%) males and 12(26.8%) females. When the eyes were open, the one leg standing score improved significantly (9-00.5), but when the eyes were closed, the difference was not significant. The exercise group's timed-up and go scores and Berg balance scale showed significant improvement (p-00.5).

Conclusion: Patients with diabetic neuropathy reported better balance after engaging in proprioception



BMI and physical fitness relationship among students

Gourab Jyoti Roy, Fatima Saeed and Khairul Islam

DOI: https://dx.doi.org/10.22271/allresearch.2024.v10.i12d.12237

DOI: https://dx.doi.org/10.2227/lollersearch.2024.v10.1124/12237

Abstrated
Background: The ability to perform daily tasks with vigor and alertness without experiencing excessive frigure and having enough energy to engage as lessure activates, as well as to handle a receivery of unexpected shankson and energetics. In thorm a polytical flates. Ability are carefully are defined by the body mass index (BMD, The purpose of BMI and physical flates) are self-and by the body mass index (BMD). The purpose of BMI and physical flates is to track their personal health and well-thing. Numeron schanges can result from regularly participating in physical flates sixtuities and maintaining a healthy BMI. But here shown to boost visibly, lower the nick of choice diffusions, improve mental health, improve enderforcestic health, and even boost asseliment achievement By researching this, we can find and create ways to excourage benefity behaviors and helpid walls. The current arrival of the control of

International Journal of Multidisciplinary Trends 2024; 6(12): 38-40



P-ISSN: 2709-9350 www.multisubjectjournal.com IJMT 2024; 6(12): 38-40

Received: 29-09-2024 Accepted: 06-11-2024

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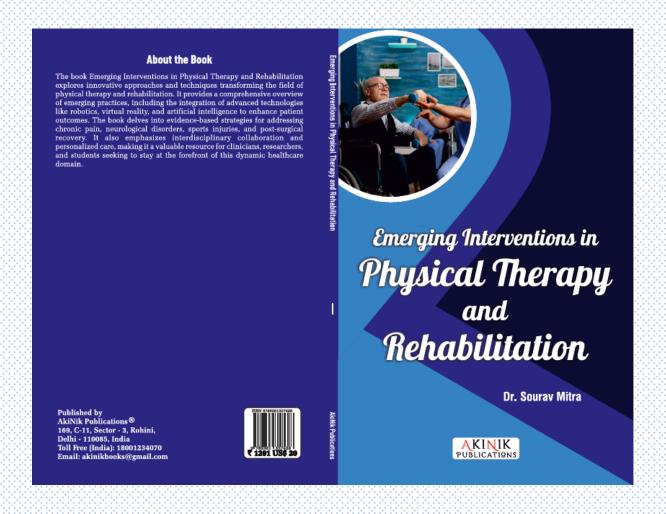
The efficiency of cardiac rehabilitation on cardiopulmonary health in elderly populations

Gourab Jyoti Roy and Saher Ansari

DOI: https://doi.org/10.22271/multi.2024.v6.i12a.533

Background: Cardiovascular mortality, morbidity, and all cause mortality can be decreased with a cardiac rehabilitation program. While pharmacotherapy can effectively modify many risk factors, exercise-based rehabilitation can improve patients' cardiorespiratory fitness, increasing functional capacity, mobility, and independence. Increased fitness is independently associated with improved quality of life in cardiac patients, and fitness is a good predictor of future cardiovascular events. In cardiac rehabilitation, increasing a patient's cardiopulmonary fitness is a crucial therapeutic goal. Several studies have demonstrated that cardiac rehabilitation lowers mortality and morbidity.

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