The Transformative Influence of Yoga Practice on Self-Efficacy, Physical Activity Engagement, and Pain Rehabilitation

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ABSTRACT

Yoga, an integrative mind-body practice that promotes physical, psychological, and emotional wellbeing, has received significant attention. Its therapeutic applications are far greater than flexibility and relaxation for improved self-efficacy, physical activity adherence, and pain rehabilitation. This study critically assesses the effects of yoga on the aforementioned domains through systematic scrutiny of empirical data across peer-reviewed journals. According to studies, one of ways that yoga enhances self-efficacy is through its promotion of mindfulness, regulated breathing, and progressive movement, which helps individuals feel more capable of managing their pain and physical restrictions. Further, the low-impact and adaptable nature of yoga lends itself to sustainable adherence to physical activity over time—making it accessible to many individuals across a range of fitness levels including those who may be recovering from injury or managing chronic pain. The results imply that the neurophysiological processes that modulate pain perceptions, decrease stress responses, and increase resilience mediate the effects of over yoga on pain rehabilitation. The study highlights the need for integration of yoga within multidisciplinary healthcare approaches to rehabilitation and chronic pain management, calling for more research to personalize interventions.

INTRODUCTION

Chronic pain and physical inactivity are common global health issues that trouble millions of people throughout the world, contributing to disability and decreasing quality of life with higher health expenditures (Cramer et al., 2013).

These have been the traditional model (medication and physiotherapy); Self-efficacy, the individual's judgement of his or her capability to cope with and master the bodily restrictions has been demonstrated significantly in their rehabilitation after recovery from pain (Bandura, 1997).

Self-efficacy is the major determinant of motivation, behaviour change and adherence to rehabilitation programmes (Jackson et al., 2014)

Yoga, the ancient discipline of practice that brings together exercise (asana), breath control (pranayama) and meditation (dhyana), is frequently used as an adjuvant intervention for enhancing self-efficacy supporting physical activity and pain rehabilitation (Sherman et al., 2011). In contrast to typical exercise regimens, yoga includes mindfulness and a focus on controlled breathing that enhances flexibility and strength with additionally important pain perception and emotional distress reduction [Pascoe & Bauer, 2015].

The current issue, this paper will see how yoga creates the feeling of self-efficacy, promotes longer term physical activity and mediates pain rehabilitation processes via a literature review of already existing studies and clinical evidence.

METHODS

This paper examines the mechanisms by which yoga impacts self-efficacy and enhances sustained physical activity levels, as well as provides a review of evidence beyond this topic based on existing research supporting pain rehabilitation from literature and clinical studies.

Peer-reviewed data from the world of research were used in this systematic review examining the effect of yoga practice on self-efficacy effective physical activity and a lasting benefit aimed at long-term physical rehabilitation. Electronic searches were performed in Research Databases (eg, PubMed, Google Scholar, PsycINFO) for empirical studies, randomised controlled trials (RCTs) and meta-analyses published between 2000 and 6th October 2025. Quality studies (with strong methodological components and high-quality sample populations following a formal yoga program) and quantitative/qualitative self-efficacy measurement in physical activity level assessment of chronic disease pain patients were identified as key inclusion criteria

Categorical variables: Psychological resilience, Pain tolerance, functional mobility psychosocial attributes; and Quality of life measures.

RESULTS

1. Yoga boosts confidence

This is supported by multiple studies where yoga is known to heighten self-efficacy, providing others with an empowerment that they can take responsible control of their health. Uebelacker et al., 2010) Hatha yoga has been linked to higher confidence in their ability to tolerate physical discomfort and manage stress-related symptoms(Hodgson et al (1997) who were practising yoga compared to non-practitioners.

Consequently, the mindfulness and awareness of yoga practice create the possibility for learners to build coping skills that are adaptive, which in turn, reduce any fear-avoidance behaviours commonly associated with chronic pain conditions

2. Encouraging Long-Term Physical Activity

Well yoga paves the way to long term sustainable physical activity by providing a mild, flexible form that most people of a wide range of fitness levels, and physical condition can participate in. A Cochrane systematic review by Cramer et al. Conventional fitness program users reported significantly less exercise and physical activity than the individuals in yoga groups practicing their sessions regularly (Mikolajewski et al., 2013).

Low-impact as well as the psychological benefits from that conduct together maintain to give a lot of motivation and exercise-related paranoia (Sherman et al., 2011) are diminished.

Yoga's Pain Rehabilitation

VAN DER KOLK et al. [34] reported that yoga can be predicted to lower the intensity of pain and enhance functional mobility of individuals affected by chronic non-specific pain conditions (e.g., lower back pain, arthritis, fibromyalgia) We have found yoga effective in modulating pain pathways via increased parasympathetic activation: cortisol levels decrease3 and endorphin production goes up11 (Pascoe & Bauer 2015).

The neurophysiologic adaptations augment pain tolerance, decrease inflammation and improve overall well-being

DISCUSSION

A tailor-made approach to pain incorporates aspects of both the psychological and physiological in managing pain. BRINGING TOGETHER mindfulness and related strategies of breath control helps divert attention away from pain-related distress to bodily homeostatic status, thus providing the individual with a salutary dimension of control over their physical state (Riley & Park, 2015). This is in contrast to other forms of exercise that can cause an increase in pain-related anxiety for yoga as it focuses on firm controlled progression and removes injury from reiteration through which conventional exercise may stimulate pain-related anxiolytic, yoga promotes a slow progression of movement whilst increasing the activation.

Furthermore, yoga is accessible to allow for it as an effective intervention in the older adult and post-surgical, or immobile population (2006; Cramer et al., 2013).

Adaptability enables modifications that align the rehabilitation strategy with individual physical attributes, inclusivity and personalization of rehabilitation plan.

Conclusions emerging from these promising evidence are however confronted with a number of barriers to integrate yoga in the routine rehabilitation setting. Issues such as non-standardization of yoga protocols, instructor training heterogeneity and lack of awareness among healthcare providers may impede wider adoption. Enhanced the evidence-based practice of personalized yoga interventions for specific pain diagnoses and patient demographics, through further research necessary.

CONCLUSION

Yoga is found to be very effective, non-invasive modality for improving self-efficacy, physical activity adherence and long term physical pain rehabilitation. Yoga as a comprehensive way to lessen stress responses, and pain perception have beneficial psychologic effects enhancing the psychological resilience that act as an alternative solution to conventional pain management approaches. Yoga in rehabilitation programs represents an important direction for improved patient outcomes, decreased association with healthcare dependence and an enhanced life. Further research will determine scaling yoga protocols, elucidating long-term outcomes and testing personalized yoga interventions as efficacious for a range of patient types.

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