

Multidimensional Support Systems in Oncology: Enhancing Quality of Life Through Psychosocial Interventions and Yogic Practice

Priya Patel Singh

Research Scholar, P.G. Department of Psychology, R.L.S.Y. College, Bakhtiyarpur, Patliputra University, Patna
priyapatel@gmail.com

Abstract: *Cancer remains one of the most psychologically distressing chronic illnesses, often resulting in anxiety, depression, and reduced quality of life. Integrative psychotherapeutic strategies combining social support systems, internal locus of control, and yogic interventions like Yoga Nidra and Preksha Meditation have demonstrated promising outcomes in supporting cancer patients. This article synthesizes the therapeutic dimensions of these approaches using extensive reference to existing literature, including previously published studies on Yoga Nidra, Preksha Meditation, the unconscious mind, and Sattvavajaya Chikitsa, and proposes a multidimensional model to enhance psychological well-being in oncology care.*

Keywords: Cancer, Quality of Life, Yoga Nidra, Preksha Meditation, Locus of Control, Social Support, Sattvavajaya Chikitsa, Psychospiritual Interventions

1. Introduction

Cancer is one of the most devastating diseases of our time, with its global burden steadily increasing. While conventional treatments like chemotherapy, radiation, and surgery have significantly improved survival rates and quality of life for many patients, they often come with adverse physical and psychological effects. These side effects can diminish the overall well-being of patients, making it essential to explore complementary approaches such as yoga-based therapies that can enhance resilience and recovery when used alongside standard medical care.

According to estimates by the **World Health Organization (WHO)** and the **American Cancer Society**, cancer is currently the **second leading cause of death worldwide**, and it is projected to become the **primary cause of death by 2060** if trends continue. The lifetime risk of developing cancer (from birth to age 74) is approximately **20.2%**, meaning that about 1 in 5 people are likely to face a cancer diagnosis in their lifetime. In 2018 alone, **approximately 18 million (180 lakh)** new cancer cases were reported globally. When broken down by gender, men have a slightly higher incidence rate than women, with a frequency ratio of greater than 1 for most cancer types [27].

This alarming rise in cancer prevalence underscores the urgency of integrating holistic and supportive care practices, including mind-body interventions like yoga and meditation, to support the emotional, physical, and spiritual needs of patients during their treatment journey.

A cancer diagnosis is a life-altering event, often triggering significant psychological trauma that affects nearly every aspect of a patient's life. Research reveals that approximately 30% to 50% of cancer patients experience psychiatric disorders, primarily depression, anxiety, and adjustment disorders [14]. These conditions contribute to emotional distress, interfere with treatment adherence, and lower overall quality of life. One-third of cancer survivors report persistent

psychological concerns such as fear of recurrence and existential anxiety [15].

The diagnosis also impacts family members, who may develop clinical depression or severe anxiety [16]. This underscores the need for interventions that address both the patient and their support network.

The mind-body connection, as explored through yogic practices, offers a valuable complementary approach to traditional oncology care. Yogic methods like Yoga Nidra and Preksha Meditation have shown beneficial outcomes in managing psychological comorbidities such as stress and mixed anxiety depressive disorder (MADD) [4,5,6,7,8]. These interventions activate the parasympathetic nervous system, foster emotional regulation, and promote cognitive restructuring. Furthermore, yogic interventions are non-invasive and easily integrable into clinical settings, making them accessible tools for psychosocial healing [1, 2, 3, 4, 5, 6].

Ayurvedic principles such as Sattvavajaya Chikitsa emphasize internal mental control and stress reduction, aligning with these yogic therapies [9,12,17]. Through this holistic lens, addressing the psychological effects of cancer becomes a multidimensional task involving mind-body healing, social bonding, and psychospiritual empowerment.

Psychological Impact of Cancer and Role of Social Support:

Social support plays a vital and well-documented role in the psychological adjustment of cancer patients. It acts as a protective buffer against emotional stress by offering emotional reassurance, practical assistance, and a sense of belonging. Research by Helgeson and Cohen (1996) showed that patients with strong social networks are more likely to experience lower levels of anxiety and depression, and demonstrate improved psychological outcomes. Similarly, Kroenke et al. (2006) found that women with breast cancer who reported high levels of social integration had

significantly better survival rates than those with limited support systems. Social support not only reduces feelings of isolation and despair but also enhances treatment adherence by encouraging patients to stay committed to their care plan. It provides encouragement, shared experiences, and informational support, which can foster hope and resilience in the face of a life-threatening illness [10,11,13,15].

Equally important is the patient's locus of control - a psychological concept that refers to an individual's belief about the extent to which they can influence the events that affect them. Taylor et al. (1984) found that cancer patients with an internal locus of control those who believe they have

power over their health outcomes tend to adopt more proactive coping strategies, display better emotional regulation, and have an improved overall quality of life. In contrast, patients with an external locus of control often feel powerless, attributing their condition to fate or external circumstances. This mindset can lead to increased hopelessness, depression, and reduced motivation to engage in therapeutic interventions [12,14,15]. Encouraging a shift toward internal locus through interventions such as cognitive-behavioral therapy, journaling, and mindfulness practices has been shown to significantly improve patient empowerment and mental resilience.

Table 1: Psychological Constructs Influencing Cancer Coping

Psychological Construct	Description	Effect on Patient	Example Interventions
Social Support	Emotional, informational, and instrumental aid from family, peers, or caregivers	Reduces isolation, increases motivation, improves mood	Family meetings, peer counseling
Locus of Control	Belief in ability to influence outcomes in life and health	Internal locus improves self-efficacy; external leads to helplessness	Cognitive Behavioral Therapy, Journaling
Sattvavajaya Chikitsa	Ayurvedic mental healing through self-discipline and yogic willpower	Restores mental equilibrium, reduces distress	Yoga Nidra, Preksha Meditation

Yoga Nidra and Preksha Meditation in Psychospiritual Healing:

Yoga Nidra is a systematic method of inducing complete physical, mental, and emotional relaxation while maintaining awareness. It has been found effective in reducing stress, anxiety, insomnia, and depressive symptoms in patients with chronic illnesses, including cancer [16, 20, 21, 22]. This guided yogic sleep activates the parasympathetic nervous system, lowers cortisol levels, and allows patients to access the unconscious mind for emotional catharsis and healing [1,2,5,6,8,11].

Preksha Meditation, derived from Jain philosophy and refined for therapeutic application, emphasizes focused perception on internal bodily and mental states. Studies have shown its utility in enhancing self-awareness, improving emotional regulation, and promoting psychospiritual adjustment in chronic disease contexts [17,18,19]. It incorporates techniques such as Kayotsarg (relaxation), Antaryatra

(internal trip), and Leshya Dhyan (color meditation), fostering deep introspection and reducing reactivity to stressors.

Both Yoga Nidra and Preksha Meditation align with the Ayurvedic model of Sattvavajaya Chikitsa, a non-pharmacological approach focused on uplifting the mind through wisdom, self-restraint, and spiritual insight [9]. Their integration into cancer care provides a viable route to strengthen mental resilience, facilitate emotional healing, and reduce psychosomatic distress.

Therapeutic Framework for Cancer Patients:

A holistic framework combining social support, locus of control, and yogic interventions is essential. Cancer patients can benefit from structured sessions of Yoga Nidra, guided Preksha Meditation, family involvement, and psychological training aimed at shifting toward an internal locus of control and emotional strength.

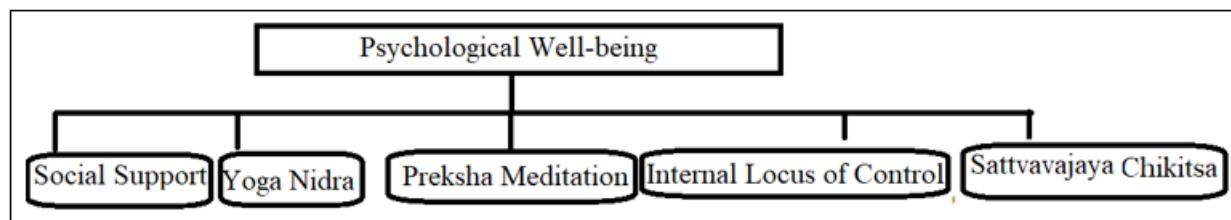


Figure 1: Integrative Psychospiritual Model for Cancer Patients

This figure conceptualizes psychological well-being as the central outcome influenced by five interrelated domains each contributing to enhanced mental, emotional, and spiritual resilience in cancer patients.

Application and Weekly Intervention Model:

A weekly schedule combining yogic and psychosocial strategies is proposed:

Table 2: Weekly Psychospiritual Schedule

Day	Activity
Monday	Guided Yoga Nidra (30 min)
Tuesday	Group discussion with family (Support sharing)
Wednesday	Preksha Meditation on breath (20 min)
Thursday	Journaling self-awareness thoughts (Internal control)
Friday	Guided visualization (Mental healing)
Saturday	Laughter therapy/Yogic relaxation
Sunday	Rest/Reflection

2. Case Reflections and Supporting Evidence:

The pilot study on Yoga Nidra highlighted significant reduction in stress [5], while another trial confirmed its antidepressant effects [6]. Preksha Meditation improved emotional regulation and reduced MADD symptoms [8]. These outcomes align with findings on the psychotherapeutic utility of unconscious mind interventions [1,2].

Empirical studies have increasingly supported the psychotherapeutic value of yogic interventions in managing cancer-related psychological distress. A pilot study by Kumar et al. (2013) demonstrated that Yoga Nidra significantly reduced anxiety and depression in patients undergoing haemodialysis, a population with comparable emotional stress to cancer patients [20]. Similarly, Saxena et al. (2021) conducted a randomized controlled trial in breast cancer patients and found that Yoga Nidra significantly improved sleep quality, reduced cortisol levels, and enhanced overall well-being [21,23,24,25,26].

Recent trials have highlighted Yoga Nidra's antidepressant effects and potential to regulate autonomic nervous system function, providing relief from chronic stress and emotional fatigue often seen in oncology settings [5].

Preksha Meditation has shown effectiveness in regulating emotional responses and promoting mindfulness in both clinical and sub-clinical populations. In a study by Tripathi & Kumari (2023), Preksha practices significantly reduced symptoms of Mixed Anxiety Depressive Disorder (MADD) and improved emotional resilience among chronically ill patients [8].

Additional evidence supports the neuropsychological mechanisms of these interventions. For instance, a study by Kiran & Srivastava (2023) found that conscious relaxation through Preksha Meditation activates the anterior cingulate cortex, a brain region involved in emotional self-regulation and pain perception [10].

These techniques are also linked to accessing the unconscious mind, which supports the release of repressed emotions and facilitates integrative healing. This aligns with the principles of Sattvavajaya Chikitsa, where mental disorders are treated through discipline, cognitive reframing, and spiritual awareness [5,6,7].

3. Conclusion

Incorporating psychospiritual strategies into cancer care marks a progressive shift toward holistic healing. Integrative interventions combining social support, an internal locus of control, and structured yogic practices such as Yoga Nidra and Preksha Meditation represent a comprehensive model for enhancing psychological well-being. These methods not only alleviate distress but also empower patients to take an active role in their emotional recovery. The use of Sattvavajaya Chikitsa principles within this model reinforces cognitive restructuring and spiritual reinforcement, essential for long-term coping.

Furthermore, such interventions align with patient-centered care and can be easily adapted in hospital, palliative, and home-care environments. By offering cancer patients tools for emotional regulation, self-awareness, and community support, this multidimensional strategy holds promise for improved quality of life, reduced psychiatric morbidity, and sustained resilience throughout the illness trajectory.

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