

Mindfulness Moderates Pain Severity and Pain-related **Disability among Chronic Pain Patients**

ARTICLEINFO

Article Type **Editorial**

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How to cite this article

Boloorani A. Mindfulness Moderates Pain Severity and Pain-related Disability among Chronic Pain Patients. IJMPP. 2022; 7(2): 679-681.

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ePublished: Apr 20, 2022

Article History Received: Oct 25, 2021 Accepted: Dec 31, 2021

Todays, non-pharmacological treatments such as Cognitive Behavioral Therapy (CBT) has provided more attention because these procedures have no side effects. Existed evidences reveled that Mindfulness-Based Stress Reduction (MBSR), and Mind-fullness-Based Cognitive Therapy (MBCT) are CBT subtypes which could impact on depression, anxiety, and Quality of Life (QOL) [1].

Mindfulness which has been deh fined as focusing on the present moment without judgment, has been verified as being effective for pain management. It has been discussed that Mindfulness-Based Interventions (MBIs) could reduce anxiety, depression, and burnout among health care providers, and it has been indicated that these cognitive procedures could improve many disorders and stress as well [2].

Many trials regarding Cognitive Therapy (CT), MBSR, and Behavior Therapy (BT) suggest that all these treatments produce reductions in pain as well as improvements in physical function, mood, and sleep disturbance in people suffer from chronic pain conditions [3].

It has been argued that Cognitive therapy, MBSR, and BT have shown beneficial effects at same rates for people with Chronic Low Back Pain (CLBP). However, there is challenges that if these techniques are as effective as psychosocial treatments for chronic pain [4-5]. Although, evidences showed that CT, Mindfulness Meditation (MM), and MBCT for CLBP were all associated with similar significant improvements, further, strong working alliance may represent a critical therapeutic process that both promotes and interacts with therapeutic techniques to influence outcome [6].

Previous study argued CBT might improve factors related to sleep disorders, while MBCT-Chronic Pain (CP) seemed to be more efficient to improve pain and QOL related variables. However, further research along these lines is strongly recommended [7]. The effect of MBSR on reduced anxiety, disaster of imagination, pain acceptance and its severity was sustained in prostate cancer patients [8-10].

In special, the evidence about the causal impacts of pain identification highlights a self-related factor of pain experiences that can be moderated by mindfulness [11]. However, further research is needed to investigate the day-to-day effects of meditation practice on pain, and continue to characterize the specific mechanisms of MBIs on headache outcomes [12].

Mindfulness-based exercises may be a useful complementary therapy for the treatment of chronic pelvic pain^[13]. However, other study showed that there is no significant relationship between mindfulness and pain catastrophizing ^[14]. In other hand, a previous study suggests that app-delivered mindfulness meditation is effective for patients with chronic pain ^[15]. These novel findings demonstrate a significant role for expectations in mindfulness-based pain-relief. However, this role was minimal during saline and stronger during opioid blockade, despite similar pain reductions.

Although these above mentioned findings support growing evidences that mindfulness could engage multiple mechanisms to reduce pain, suggesting that mindfulness might be an effective pain-reducing technique even for individuals with low expectations for pain-relief [16], but conducting more researches regarding relationship between pain and mindfulness is strongly recommended.

References

- Najafinejad S. Mindfulness Intervention for Chronic Low Back Pain: A Systematic Review. IJMPP. 2022; 7(1): 670-678.
- Culbreth, R., & Spratling, R. Mindfulness: Implications for Research Methods. J Pediatr Health Care. (2022). https://doi.org/10.1016/j.ped-hc.2022.01.004
- 3. Burns, JW, Jensen, MP, Thorn, B., Lillis, TA., Carmody, J., Newman, A K., et al. Cognitive therapy, mindfulness-based stress reduction, and behavior therapy for the treatment of chronic pain: randomized controlled trial. Pain.2022; *163*(2): 376-389.
- 4. Burns JW., Jensen MP., Thorn B., Lillis TA., Carn mody J., Newman AK. et al. Cognitive therapy, mindfulness-based stress reduction, and behavior therapy for the treatment of chronic pain: randomized controlled trial.Pain. 2022;163 (2): 376-389
- 5. Carvalho SA.., Xavier A., Gillanders D., Pinto-Gouveia J., Castilho P. Rumination and valued living in women with chronic pain: How they relate to the link between mindfulness and depressive symp-

- toms. Curr Psychol .2021; 40(3), 1411-1419.
- Day MA., Ward LC., Thorn BE., Burns J., Ehde DM., Barnier AJ. et al. "Mechanisms of mindfulo ness meditation, cognitive therapy, and mindfulness-based cognitive therapy for chronic low back pain." Clin J Pain. 2020;36(10): 740-749.
- Pardos-Gascón EM., Narambuena L., Leal-Costa C., Ramos-Morcillo AJ Ruzafa-Martínez M, vander Hofstadt Román CJ. Psychological therapy in chronic pain: differential efficacy between mindfulness-based cognitive therapy and cognitive behavioral therapy. J. Clin. Med. 2021; 10(16): 3544. doi: 10.3390/jcm10163544.
- 8. Haghdoust M, Serajkh orrami N, Makvandi B. The Effectiveness of Mindfulness Based on Stress Managment on Death Anxiety, Disaster of Imagination, Acceptance and Severity of Pain in Prostat Cancer Patients. JIUMS. 2022;29(6): 48-58.
- Lebeaut A., Zegel M., Healy NA. Rogers AH., Buser SJ., Vujanovic AA. PTSD Symptom Severity, Pain Intensity, and Pain-Related Disability Among Trauma-Exposed Firefighters: the Moderating Role of Mindfulness. Mindfulness. 2022; https://doi.org/10.1007/s12671-022-01836-4
- Pilafas G., Lyrakos, G. Mindfulness-based cognitive theory on cancer pain management: comments on the outcomes of the Aarhus University Hospital research protocol. Health Res. J. 2022; 8 (1): 4-9.
- 11. Nicolardi V., Simione L., Scaringi D, Malinowski P., Yordanova J., Kolev V. et al. "The Two Arrows of Pain: Mechanisms of Pain Related to Meditation and Mental States of Aversion and Identification." Mindfulness.2022; : 1-22.
- HuntCA., Letzen JE., Krimmel SR., Burrowes SA., Haythornthwaite JA., Keaser M. et al. Meditation practice, mindfulness and pain-related outcomes in mindfulness-based treatment for episodic migraine. medRxiv. 2022; doi: https://doi.org/2022.01.20.22269474/10.1101
- 13. Donat LEC., Reynolds J., Bublitz MH., Flynn E., Friedman L., Fox SD. The effects of a brief mindfulness-based intervention on pain perceptions in patients with chronic pelvic pain: A case series. Case Rep. Women's Health. 2022;33.e00380. https://doi.org/10.1016/j.crwh.2021.e00380
- 14. Gamayanti W., Amalia AD., Mursidin M. Mindfulness and Pain Catastrophizing on Chronic Disease Patients. Proceedings of the 1st International al Conference on Social Science, Humanities, Education and Society Development, ICONS 2020, 30 November, Tegal, Indonesia. 2021; https://eudl.eu/doi/10.4108/eai.30-11-2020.2303767
- 15. Mascaro JS., SinghV., WehrmeyerK., Scott B., JuanJ., McKenzie-Brown AM., et al. Randomized, wait-list-controlled pilot study of app-delivered mindfulness for patients reporting chron-

- ic pain. Pain reports. 2021; *6*(1). doi: 10.1097/PR9.0000000000000924
- 16. Case L., Adler-Neal AL., Wells R E., Zeidan F. The role of expectations and endogenous opioids in

mindfulness-based relief of experimentally-induced acute pain. Psychosom Med.2021; 83(6), 549-556.