

**A STUDY OF THE SAFETY AND EFFECTIVENESS OF BOTANICAL
MEDICINE IN THE TREATMENT OF CANCER**

Dr Alok singhal*

* Department of Medical,,

Teerthanker Mahaveer University, Moradabad, Uttar Pradesh, INDIA

Email id: dralok27@redifmail.com

DOI: 10.5958/2249-7137.2021.02557.X

ABSTRACT

It is believed that more than half of all cancer patients seek out complementary and alternative treatment, particularly herbal medicine. We performed a thorough review to determine the safety and effectiveness of herbal medications widely taken by patients in the hopes of preventing cancer, treating cancer, and treating side effects associated with conventional cancer therapies. Current evidence suggests that eating Asian ginseng, garlic, green tea, tomatoes, and soy as part of a healthy diet may help prevent cancer; more research is needed to determine the efficacy of essiac, evening primrose oil, mistletoe, reishi, shiitake, and turmeric as cancer treatments; and ginger may help with chemo-therapy-induced nausea and vomiting.

KEYWORDS: *Alternative Medicine, Botanical Medicine, Cancer, Herbal Medicine, Natural Health Products.*

REFERENCES:

1. van der Merwe CF, Booyens J, Joubert HF, van der Merwe CA. The effect of gamma-linolenic acid, an in vitro cytostatic substance contained in evening primrose oil, on primary liver cancer. A double-blind placebo controlled trial. Prostaglandins, Leukot Essent Fat Acids. 1990;
 2. Srivastava R, Sharma PK, Das KJM, Manjhi J. A hybrid approach for head and neck cancer using online image guidance and offline adaptive radiotherapy planning. J Radiother Pract. 2019;
 3. Arora M, Som S, Rana A. Predictive Analysis of Machine Learning Algorithms for Breast Cancer Diagnosis. In: ICRITO 2020 - IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions). 2020.
 4. Tripathi L, Kumar P, Singh R. A Review on Extraction, Synthesis and Anticancer Activity of Betulinic Acid. Curr Bioact Compd. 2009;
 5. Cirillo C, Capasso R. Constipation and botanical medicines: An overview. Phytotherapy Research. 2015.
 6. Tripathi L, Kumar P, Singh R. Role of chelates in magnetic resonance imaging studies. Journal of Cancer Research and Therapeutics. 2009.
 7. Jain UK, Bhatia RK, Akkinapally RR, Singh R, Deb PK, Kaki VR. Design and synthesis of
-

- triphenyl-1H-pyrazole derivatives as anticancer agents. *Int J Pharm Pharm Sci.* 2012;
8. Jain UK, Bhatia RK, Rao AR, Singh R, Saxena AK, Sehar I. Design and development of halogenated chalcone derivatives as potential anticancer agents. *Trop J Pharm Res.* 2014;
 9. Fleming SA, Gutknecht NC. *Naturopathy and the Primary Care Practice. Primary Care - Clinics in Office Practice.* 2010.
 10. Romm A. *Botanical Medicine for Women's Health. Botanical Medicine for Women's Health.* 2010.
 11. Abascal K, Ganora L, Yarnell E. The effect of freeze-drying and its implications for botanical medicine: A review. *Phytotherapy Research.* 2005.
 12. Vickers A. Botanical medicines for the treatment of cancer: Rationale, overview of current data, and methodological considerations for Phase I and II trials. *Cancer Investigation.* 2002.
 13. Jain A, Jain S, Jain R, Kohli DV. Coated chitosan nanoparticles encapsulating caspase 3 activator for effective treatment of colorectal cancer. *Drug Deliv Transl Res.* 2015;
 14. Sharma PK, Srivastava R, Munshi A, Chomal M, Saini G, Garg M, et al. Comparison of the gross tumor volume in end-expiration/end-inspiration (2 Phase) and summated all phase volume captured in four-dimensional computed tomography in carcinoma lung patients. *J Cancer Res Ther.* 2016;
 15. Abascal K, Yarnell E. Botanical medicine for cystitis. *Altern Complement Ther.* 2008;
 16. Marcus DM, Grollman AP. Botanical Medicines — The Need for New Regulations. *N Engl J Med.* 2002;
 17. Yang CLH, Or TCT, Ho MHK, Lau ASY. Scientific basis of botanical medicine as alternative remedies for rheumatoid arthritis. *Clinical Reviews in Allergy and Immunology.* 2013.
 18. Goyal MK, Rai D V., Kehwar TS, Manjhi J, Heintz BH, Shide KL, et al. Anatomy-based definition of point A utilizing three-dimensional volumetric imaging approach for high-dose-rate (HDR) intracavitary brachytherapy dose prescription when treating cervical cancer using limited resources. *J Appl Clin Med Phys.* 2016;
 19. Kumar N, Singh A, Sharma DK, Kishore K. Novel Target Sites for Drug Screening: A Special Reference to Cancer, Rheumatoid Arthritis and Parkinson's Disease. *Curr Signal Transduct Ther.* 2018;
 20. Junio HA, Sy-Cordero AA, Ettefagh KA, Burns JT, Micko KT, Graf TN, et al. Synergy-directed fractionation of botanical medicines: A case study with goldenseal (*hydrastis canadensis*). *J Nat Prod.* 2011;
 21. Kehwar T, Chopra K, Rai D. A unified dose response relationship to predict high dose fractionation response in the lung cancer stereotactic body radiation therapy. *J Med Phys.* 2017;
-