

International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 2, Issue 1, November 2022

Role of Nutaceuticals on Health Promotion and Disease Prevention: A Review

Ms Madhavi R. Mhase¹, Ms. Mayuri K. Hadawale², Ms. Akanksha A. Dethe³, Ms. Minaj B. Inamdar⁴

Students, Samarth College of Pharmacy, Belhe, Maharashtra India^{1,2,3} Assistant Professor, Samarth College of Pharmacy, Belhe, Maharashtra⁴

madhavimhase@gmail.com

Abstract: The term "Nutraceutical" combines the two words of "nutrient," which is a nourishing food component, and "pharmaceutical," which is a medical drug. The name was coined in 1989 by Stephen **DeFelice.** The philosophy behind nutraceuticals is to focus on prevention, according to the saying by a Greek physician Hippocrates (known as the father of medicine) who said "Let Food Be Your Medicine". These were used as alternative to modern medicines that promote quality of health, increases nutritive value of the diet and prolongs life expectancy. Major constituents of the nutraceuticals are herbals, various nutrients and dietary supplements are involved in preventing different diseases and minimizing pathophysiology of the disease too. These nutraceuticals help in combating some of the major health problems of the century such as obesity, cardiovascular diseases, cancer, osteoporosis, arthritis, diabetes, cholesterol etc. In whole, 'nutraceutical' has lead to the new era of medicine and health, in which the food industry has become a research oriented sector. The principal reasons for the growth of the nutraceutical market worldwide are the current population and the health trends.



Figure: Nutraceuticals

Keywords: Nutraceuticals; Disease prevention; Health promotion; Nutrients; Nutrition.

REFERENCES

- [1]. Ball, D. (2003). Foods of the Future May Be Tailored to Fit. Wall Street J. Jan 23, 2003.
- [2]. Dutta, S., Ali, K.M., Dash, S.K. and Giri, B. (2018). Role of nutraceuticals on health promotion and disease prevention: A review. Journal of Drug Delivery and Therapeutics 8:42-47. Available at: https://doi.org/10.22270/jddt.v8i4.1759.
- [3]. RajKK.Nutraceutical and Functional Food as Future Food: A Review. Scholars Research Library 2010; 2(1):106-116
- [4]. Biesalski HK. Nutraceuticals: the link between nutrition and medicine. In: Kramer K, Hope PP, Packer L. Editors.Nutraceuticals in health and disease prevention. New York: Marcel Deckker Inc 2001; 1-26
- [5]. Nasri, H., Baradaran, A., Shirzad, H. and Rafieian-Kopaei, M. (2014). New Concepts in Nutraceuticals asCopyright to IJARSCTDOI: 10.48175/568408www.ijarsct.co.in

IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 2, Issue 1, November 2022

Alternative for Pharmaceuticals. International Journal of Preventive Medicine 5:1487-1499.

- [6]. Pandey, M., Verma, R.K. and Saraf, S.A.(2010).
- [7]. Gennero L, Mortimer P, Sperber K, Carloni G, Ponzetto A. Stem cells: an alternative to organ transplantation in chronic, degenerative and infectious diseases. New Microbiol 2006; 29: 151-67.
- [8]. Bickford PC, Tan J, Shytle RD, Sanberg CD, El-Badri N, Sanberg PR. Nutraceuticals synergistically promote proliferation of human stem cells. Stem Cells Dev 2006;15:118-23.
- [9]. Mythri RB, Joshi AK, Mukunda M, Bharath S. Bioactive nutraceuticals and dietary supplements in neurological and brain disease. Academic Press 2015; Pp. 421-431.
- [10]. Stephen D. A report of National Nutraceutical Centre. Nutraceuticals India 2012. Webinar 2012; 1-22.
- [11]. Cencic A, Chingwaru W. Antimicrobial agents deriving from indigenous plants. RPFNA 2010; 2:83-92.
- [12]. Hu FB, Willett WC. Optimal diets for prevention of coronary heart disease. JAMA. 2002; 288(20):2569-2578.
- [13]. Patil CS. Current trends and future prospective of nutraceuticals in health promotion. BIOINFO Pharmaceutical Biotechnology 2011; 1(1):1-7.
- [14]. Dillard CJ, German JB. Phytochemicals: nutraceuticals and human health. Journal of the Science of Food and Agriculture 2000; 80:1744–1756.
- [15]. Cicero AFG, Colletti A, Bajraktari G, Descamps O, Djuric DM, Ezhov M, et. al. Lipid-lowering nutraceuticals in clinical practice: position paper from an International Lipid Expert Panel. Archives of Medical Science 2017; 13(5):965-1005.
- [16]. Kaur S. Free radicals and antioxidant (nutraceuticals). Book to human health. International Journal of Natural Product Science 2012; 1:175
- [17]. Kelsey NA, Wilkins HM, Linseman DA. Nutraceuticals antioxidant as novel neuroprotective agents. Molecules 2010; 15:7792-7814.
- [18]. Biddle J, Dasgupta-O'Brien S, Walch A. Gut Health, Asheville Integrative Medicine (undated). Available online: http://www.docbiddle.com/moreinfo/guthealth.pdf.
- [19]. Sarin R, Sharma M, Singh R, Kumar S. Nutraceuticals: Review. International Research Journal Pharmacy 2012; 3(4):95-99.
- [20]. Nutrition and medicine. In: Kramer K, Hope PP, Packer L. Editors. Nutraceuticals in health and disease prevention. New York: Marcel Deckker Inc 2001; 1-26.
- [21]. Wargovich MJ, Morris J, Brown V, Ellis J, Logothetis B, Weber R. Nutraceutical use in late-stage cancer. Cancer and Metastasis Reviews 2010; 29(3):503-510.
- [22]. Dillard CJ, German JB. Phytochemicals: nutraceuticals and human health. Journal of the Science of Food and Agriculture 2000; 80:1744–1756.
- [23]. Biesalski HK. Nutraceuticals: the link between 16. Cicero AFG, Colletti A, Bajraktari G, Descamps O, Djuric DM, Ezhov M, et. al. Lipid-lowering nutraceuticals in clinical practice: position paper from an International Lipid Expert Panel. Archives of Medical Science 2017; 13(5):965-1005.
- [24]. Klatte ET, Scharre DW, Nagaraja HN, Davis RA, Beversdorf DQ. Combination therapy of donepezil and Vitamin E in Alzheimer disease. Alzheimer Disease and Associated Disorder 2003; 17(2):113-116
- [25]. Ji H, Zhang H. Multipotent natural agents to combat Alzheimer's disease. Functional spectrum and structural features. Acta Pharmacologica Sinica 2008; 29:143-151