

Review on Terminalia Catappa and it's Pharmacological Activity

Vaijayanti S.Gholap^{1*}, Sagar E. Tambe¹, Tejaswini H.Gholap², Vinayak D. Jadhav³, Vishal D. Kad⁴,
Harshala T. Gholap⁵, Neha N. Dalavi⁶

Students, Samarth Institute of Pharmacy, Belhe, Maharashtra., India

Department of Pharmacology, Samarth Institute of Pharmacy Belhe, Maharashtra., India

Department of Pharmaceutics, Samarth Institute of Pharmacy, Belhe, Maharashtra., India

gholapvaijayanti5058@gmail.com

Abstract: In this review article we are focusing on Terminalia catappa Terminalia as commonly known as Country almond, Indian almond, Malabar almond, sea almond, tropical almond, beach almond and False kamani also known as Badam used as medicinal plant. The Ayurvedic plant Terminalia Catappa belongs to family Combretaceae. It shows medicinal therapeutic properties such as Antimicrobial, Anthelmintic, Antibacterial, Anti- tumor, Antidiabetics, Haematological Activity. In this review we are generally discussed about the pharmacological activity reported by using Various in-vitro and in vivo models.

Keywords: Terminalia Catappa, Almond, Pharmacological Activity.

REFERENCES

- [1]. Mudi S., Muhammad A.,(2011). Phytochemical Screening and Antimicrobial Activities of Terminalia catappa, Leaf Extracts. Biokemistri 2011; 23 (1).: 35 – 39.
- [2]. Shahina N, Ahmad S, AjazRasool S, Siddiqi R, Sayeed SA. In vitro antibacterial activity of the extracts derived from Terminalia catappa. Res J Microbiol, 2007; 23: 180-184.
- [3]. Goun E, Cunningham G, Chu D, Nguyen C, Miles D. Antibacterial and antifungal activity of Indonesian Ethnomedical plants. Fitoterapia 2003; 76: 592-596.
- [4]. Parimala Gandhi P, Venkatalakshmi P, Brindha P. Efficacy Of Terminalia catappa L. wood and bark against some Fungal species. Int J Cur Microbiol App Sci 2015; 4(9):74-80.
- [5]. Nurulaini R, Azrul LM, Effendy AWM, Imelda LV. Determination of anthelmintic potential in Terminalia Catappa by modified selected in vitro bioassay. 2nd International Conference on Biotechnology and Food Science IPCBEE, IACSIT Press, Singapore 2011. P. 7.
- [6]. Chiou Y., Bin-Lin S., Ming-Weng Y., Fu Ko T. Antimutagenicity of Supercritical CO₂ Extracts of Terminalia catappa Leaves and Cytotoxicity of the Extracts to Human Hepatoma Cells. J. Agric. Food Chem. 2003,;51: 3564-3567
- [7]. Morioka T, Suzui M, Nabandith V, Inamine M, Aniya Y, Nakayama T, Ichiba T, Yoshimi N. Modifying effects of Terminalia catappa on azoxymethane-induced colon Carcinogenesis in male F344 rats. Eur J Cancer Prev 2005;14: 101-105.
- [8]. Ahmed S., Swamy V., Dhanapal P., Chandrashekara V. Anti-Diabetic Activity of Terminalia catappa Linn. Leaf Extracts in Alloxan-Induced Diabetic Rats. IJPT 2005; 4:36-39, 2005.
- [9]. Liu TYL, Ho LK, Tsai YC, Chiang SH, Chao TW, Li JH, Chi CW. Modification of mitomycin C-induced clastogenicity by Terminalia Catappa L. in vitro and in vivo. Cancer Lett 1996; 105: 113-118.
- [10]. Toshiya M, Sigetomo Y, Yasuo O, Yoshio T, Tomochika T, Tadao A, Ayumi S, Mami N. Evaluation of the antioxidant Activity of environmental plants: Activity of the leaf Extracts from seashore plants. J Agric Food Chem 1999; 47:1749 -1754.
- [11]. Chen PS, Li JH. Chemopreventive effect of punicalagin, a Novel tannin component isolated from Terminalia catappa, On H-ras-transformed NIH3T3 cells. Toxicol Lett 2006; 163: 44-53.

- [12]. Saroja M, Annapoorani S. Antitumor activity of methanolic Extract of Terminalia catappa leaves against Ehrlich Ascites Induced carcinoma in mice. *Int Res J Pharm* 2011; 2(12): 253-254.
- [13]. Nagappa AN, Thakurdesai PA, Venkat Rao N, Singh J. Antidiabetic activity of Terminalia catappa Linn fruits. *J Ethnopharmacol* 2003; 88: 45-50.
- [14]. Chitmanat C, Tongdonmuan K, Khanom P, PachontisP,Nunsong W. ISHS ActaHorticulturae: WOCMAP Congress On medicinal and aromatic plants, Vol. 4, Targeted Screening of medicinal and aromatic plants economics and Law 2005. P. 678.
- [15]. Azrul LM, Adzemi MA, Ahmad WM, Effendy AW. Determination of toxicological effects of Terminalia catappa leaves on Sprague-Dawley white rats in short-term period. *Int J ToxicolAppl Pharm* 2013;3:44-7.