

## Milk-increasing medicinal plants

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The importance of mother's milk for a baby's healthy feeding is undeniable [1]. Breast milk improves the immune system of the infant and reduces the prevalence of respiratory infections, increases IQ, and prevents certain diseases, such as urinary tract infection, acute inflammation of the ear, etc. [2]. Inappropriate nutrition and breastfeeding can cause certain disorders and illnesses in adulthood, and these disorders and diseases (acute and chronic, infectious and non-infectious) at any age can lead to suffering and economic and social burden [3-5]. Different diseases can have their own harmful effects through biological pathways and mechanisms [6-8]. Medicinal plants that have traditionally been commonly used influence many of these pathological pathways and improve diseases due to the many substances that are present in their essential oil. Therefore, there has always been extensive research to identify medicinal natural products and substances in plants [9-12]. Medicinal plants have a special value in biological sciences, medicine, and veterinary as well as with respect to preventing and treating diseases, with several therapeutic effects reported for them [13-15]. In recent years, the use of medicinal plants has been growingly increasing due to their beneficial effects, cheapness, and comparatively fewer side effects as well as their environmental friendliness [16-19]. Side effects due to chemical drugs have been observed in various diseases. One way to reduce drug side effects is to use herbal medicines instead of chemical drugs. Peanuts (Arachis hypogaea), basil (Ocimum basilicum), fennel (Foeniculum vulgare), black seed (Nigella sativa), potato (Solanum tuberosum), fumitory (Fumaria officinalis), tarragon (Artemisia dracunculus), cumin (Carum carvi), chamomile (Matricaria chamomilla), angelica (Heracleum persicum), spinach (Spinacia oleracea), mung bean (Vigna adiate), sesame (Sesamum indicum), carrot (Daucus carota), and yarrow (Achillea millefolium) are the most commonly used plants to increase breast milk. Phytochemicals and biological substances present in these plants can be a factor for the effects of these plants and should be further considered in future studies.

## REFERENCES

- [1] Imogen S, Golding R.J, Emmett P.M. The effect of lactation on the mother. Early Human Development, 1997, 49, 191-203.
- [2] Koletzko B, Michaelsen KF, Hernell O. Short and long term effect of breast feeding on child health. Food Res Int, 2001, 34: 551-53.
- [3] Amirabi A, Naji S, Yekta Z, Sadeghi Y. Chorioamnionitis and diagnostic value of C-reactive protein, erythrocyte sedimentation rate and white blood cell count in its diagnosis among pregnant women with premature rupture of membranes. Pak J Biol Sci. 2012;15(9):454-8.
- [4] Mohsenzadeh, A., Ahmadipour, S.H., Firouzi, M., Homa, B., Anbari, K.H. Effect of breast-feeding and formula- feeding on antibody response of hepatitis B vaccination. Life Science J 2013; 10 (1): 2063-2068.
- [5] Tabrizi, A., Mirzatolooei, F., Afshar, A., Pourjabali, M., Shariyate, M.J. Solitary neaurofibroma in lower extremity with central extensive hyalinization. International Journal of Cancer Management 2017; 10(7):e9342. doi: 10.5812/jjcm.9342.
- [6] Yousefi B, Darabi M, Baradaran B, Khaniani MS, Rahbani M, Darabi M, et al. Inhibition of MEK/ERK1/2 signaling affects the fatty acid composition of HepG2 human hepatic cell line. BioImpacts. 2012;2(3):145-50.
- [7] Yousefi B, Samadi N, Baradaran B, Shafiei-Irannejad V, Zarghami N. Peroxisome Proliferator-Activated Receptor Ligands and Their Role in Chronic Myeloid Leukemia: Therapeutic Strategies. Chemical Biology and Drug Design. 2016:17-25.
- [8] Montazami N, Kheirandish M, Majidi J, Yousefi B, Mohamadnejad L, et al. siRNA-mediated silencing of MDR1 reverses the resistance to oxaliplatin in SW480/OxR colon cancer cells. Cellular and Molecular Biology. 2015;61(2):98-103.
- [9] Ahmadipour SH, Ahmadipour S, Mohsenzadeh A and Hassanzadazar H. Neonatal jaundice treatment with Iranian native medicinal plants: Cotoneaster persicus, most important medicinal plant affecting on neonatal jaundice. Der Pharmacia Lettre, 2015; 7 (12):313-315.
- [10] Zarei L, Pourjabali M, Naghdi N, Naji-Haddadi S, Bahmani E. A Systematic Review of the Most Important Medicinal Plants Native to Iran Effective on Testicular Morphology and Hormonal Testicular Function. J Pharm Sci Res. 9(5): 2017; 562-567.
- [11] Ahmadipour SH, Mohsenzadeh A, Ahmadipour S, Eftekhari Z and Tajeddini P. Ethnobotanical identification of medicinal plants effective on toothache in Shiraz, south Iran. Der Pharmacia Lettre, 2015, 7 (12):419-426.
- [12] Ahmadipour SH, Mohsenzadeh A, Eftekhari Z and Ahmadipour S. An overview of the most important medicinal plants affecting on child's jaundice in Ethnobotanical resource of Iran. Der Pharmacia Lettre, 2016, 8 (1):135-139.
- [13] Moradi MT, Karimi A, Alidadi S, Ghasemi-Dehkordi P, Ghaffari-Goosheh MS. Cytotoxicity and in vitro antioxidant potential of Quercus Brantii acorn extract and the corresponding fractions. International Journal of Pharmacognosy and Phytochemical Research. 2016;8(4):558-62.
- [14] Shahrani M, Rafieian M, Shirzad H, Hashemzadeh M, Yousefi H, Khadivi R, et al. Effect of Allium sativum L. extract on acid and pepsin secretion in basal condition and stimulated with vag stimulate in rat. Journal of Medicinal Plants. 2007;6(24):28-37.
- [15] Moradi MT, Rafieian-Koupaei M, Shahrani M. The effect of garlic methanol extract on gastric acid and pepsin in basic and stimulated conditions by electrical stimulus of vagus nerve in rats. Life Science Journal. 2013;10(SUPPL 8):99-104.
- [16] Ghamari, S., Abbaszadeh, S., Mardani, M., Shahsavari, S. Identifying medicinal plants affecting the teeth from the Southern district of Ilam province, Iran. Journal of Pharmaceutical Sciences and Research 9(6), 2017, 800-803.
   [17] Karimi M. Naghdi N. Naii-Haddadi S. Bahmani F. Medicinal plants used for kidney pain. J. Pharm. Sci. & Res. Vol. 9(5), 2017, 542-546.
- [17] Karimi M, Naghdi N, Naji-Haddadi S, Bahmani F. Medicinal plants used for kidney pain. J. Pharm. Sci. & Res. Vol. 9(5), 2017, 542-546.
  [18] Naji S, Zarei L, Pourjabali M, Mohammadi R. The Extract of Lycium depressum Stocks Enhances Wound Healing in Streptozotocin-Induced Diabetic Rats. Int J Low Extrem Wounds. 2017 Jun: 16(2):85-93.
- [19] Zarei L, Naji-Haddadi S, Pourjabali M, Naghdi N, Tasbih-Forosh M, Shahsavari S. Systematic Review of Anti-Rheumatic Medicinal Plants: An Overview of the Effectiveness of Articular Tissues and Joint Pain Associated with Rheumatoid Arthritis. J Pharm Sci Res. 9(5): 2017; 547-551