Nutraceutical and Medicinal values of some medicinal plants in Western Ghats of South India- A Review

Sayantani Chanda and T. V. Ramachandra

Energy & Wetland Research Group, Centre for Ecological Sciences Indian Institute of Science, Bangalore-560012, Karnataka, India.

C and vitamin B complex.

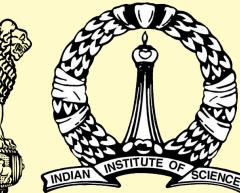
and zinc (0.12%) etc.

Nelli











Introduction:

Nutraceuticals "naturally derived bioactive compounds that are found in foods, dietary supplements and herbal products, and have health promoting, disease preventing and medicinal properties." Plant derived Nutraceuticals/functional foods received have considerable attention because of their presumed safety and potential nutritional and therapeutic effects.

Study method-

Information on nutraceutical value of medicinal plants collected from the papers where experimentally determined. Data has been analysed for generating

HEALTH BENEFITS OF VITAMIN C Organic Facts Newworganic facts net Helps to prevent scurvy Aids in lowering hypertension Reduces risk of cancer Reduces risk of cardiovascular Helps to reduce symptoms of asthma Protects against cough and

common cold





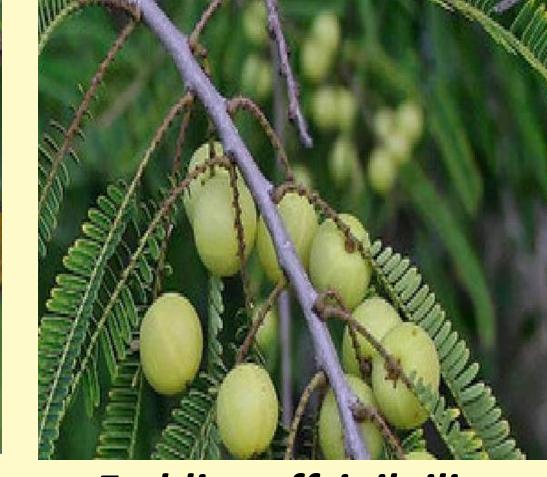
Syzygium cumini

dysentery and biliousness.

and rheumatism.

Fruits are highly nutritious as it contains carbohydrates, Fruit have high nutrition value. Medicinal values of leaf, bark,

fibre and minerals like calcium, prosperous, iron, vitamin fruit: Cures Stomach-ache, jaundice, diarrhoea, indigestion



Emblica offcinilnilis

Foods High in Vitamin A (With Benefits)



	A
	Papaya
	Tomatoe

baseline information of	on nutraceutical 8	medicinal values. www.facebook.com/organicfacts@pinterest.com/organicfacts@http://goo.gl/P6l0be@twitter.d	com/OF_organicfacts Red Bell Pepper Spinach Tomatoes
Species	Local Name	Biochemical Composition	Nutraceutical and health aspects
Morinda citrifolia	Noni	The fruit protein content is very high (11.3 %). The amino acids present are aspartic acid, glutamic acid and isoleucine. The main minerals contained in leaves are calcium (0.55 %), potassium (0.12 %), magnesium (0.06 %), manganese (4.47 ppm) and copper (2.23 ppm).	Fruits and Leaves have high nutrition values. Medicinal values of fruit juice. Medicinal values of fruit juice:Cures arthritis, diabetes, high blood pressure, gastro ulcers, cancer & AIDS.
Glycyrrhiza glabra	Athimathuram		Whole plant have nutritional properties. Medicinal values of bark: Cures cough, asthma, arthritis, bronchitis, peptic ulcer and for allergic complaints.
Gymnema sylvestre	Sirukurinjan		Whole plant have nutritional properties. Medicinal values of leaf: Cures diabetes mellitus, constipation, gas trouble, wounds, cough, rhinitis and asthma.
Solanum trilobatum	Thuthuvalai	The minerals content in <i>Solanum trilobatum</i> (357.26 ppm) are ,potassium (244.14 ppm),magnesium(426.28 ppm) and zinc (40.850ppm).	Whole plant have nutritional properties Medicinal values of leaf: Cures asthma, cough, and tuberculosis.
Alpinia calcarata	Chitraratta	are potassium (359.09 ppm), magnesium (197.25 ppm)	Whole plant have nutritional properties Medicinal values of rhizomes: Cures headache, lumbago, rheumatic pains, sore throat, stuttering, pain in the chest.
Centella asiatica	Vallarai	The minerals content in <i>Centella asiatica</i> (276.43 ppm), are potassium (499.06ppm), magnesium (358.09 ppm) and zinc (71.835ppm).	Whole plant have nutritional properties. Medicinal values of leaf: Cures cough, consumption, diseases of voice, insanity and jaundice.
Syzygium travancoricum	Poriyal	The leaves contained vitamins such as thiamine (13.6 μ g/g), Niacin (26.3 6 μ g/g), riboflavin(59.6 6 μ g/g), vitamin-E(8.09 μ g/g) and Vitamin-C (15.2 μ g/g). The leaves contained carbohydrate (28.45 %), Protein(12.06%), amino acids (1.02 %), fatty acids (0.1).	
Tinospora cordifolia	Seendhil		Shoot have high nutrition values. Medicinal values of of whole plants: Cures Diabetes, joint pain, health tonic, vomiting, fever

Conclusion:

Emblica officinalis

Evidences signify that the mechanistic actions of natural compounds involve a wide array of biological processes, including activation of antioxidant defenses, signal transduction pathways, cell survival-associated gene expression, cell proliferation and differentiation and preservation of mitochondrial integrity also beneficial in coronary heart disease, obesity, diabetes, cancer and other chronic diseases. It is very imperative that the nutrients found in many foods, fruits and vegetables are responsible for the well documented health benefits.

References: i) International Journal of Herbal Medicine 2016; 4(6)2; Jan'17; PP 32-37, ii) International Journal of Botany Studies, Volume 3; January 2018; iii) Journal of Medicinal Plans, Volume 8, Supplement No. 5, Winter 2009 iv) International Journal of Research in Pharmaceutical Sciences, Volume 2; July 2017. PIC collected from internet.