

Development of Immune Boosters Using Curcumin

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Abstract: Curcumin is an orange yellow component of turmeric a spice found in curry powder. it is also known as indian saffron. Due to its brilliant yellow colour. Is a spice and herb. Mative of the indian subcontinent and southeast asia. Turmeric in india which has been used as ayurveda remedy and flavouring agent since ancient times. Depending on its origin and growth conditions turmeric obtained from ground deied root contains different percentages of volatile and non-volatile oils, proteins, fats, minerals, carbohydrates, curcuminoids and moisture. Commercially available cucurmin is a combination of three molecules together called curcuminoids. Cucurmin is the most represented 60 to 70% followed by bisdemethoxy curcumin (20-70%), and demethoxycurcumin (20-27%). Curcuminoids differ in potency, efficacy and stability. With no clear supremacy of curcumin over the other two compounds. Or the whole mixture. Besides curcuminoids the other active component of turmeric include sesquiterpenes, diterpenes, triterpenes. Traditionally known for its anti inflammatory properties. It can module the activation of T cells, B cells, macrophages, neutraphils natural killer cells and dendrite cells . Curcumin can also regulate the expression of various pro inflammatory cutokinins. Cucurmin also enhance antibody response. and also beneficial effects in arthritis, allergy, asthma, heart disease, diabetes and cancer might be due in part to its ability to modulate the immune system. Cucurmin also therapy of immune disorders.

Keywords: immuno modulation, anti inflammation, anti oxidant, oxidative stress, curcumin.

Introduction:

Turmeric also called haldi and named by british as curry spice. Is the dried rhizome powder of curcuma longa a perennial herb if the family: zingiberaceae, which is 3 to 5 feet tall bearing oblong, pointed, short stemmed leaves and funnel shape yellow flowers. The rhizome of turmeric is a valuble cash crop. Which is widely cultivated in india, asia, china and other tropical countries. Turmeric is used as spice in curries, food additives, and also a dietary. Curcumij its poor pharmakinetic and pharmacodynamic properties. Its chemical instability its low efficacy in different in vitro. and in vivo. The immuno modulatory abilities and also curcumin in the

prevention and treatment of barious human diseases, including cancer, cardiovascular, inflammatory, matabolic neurological and skin diseases among these different properties are referred to curcumin one of the most studied its the anti inflammatory profile that may be useful in both acute and chronic inflammation. It has been used to treat illness. It is also used in textile and pharmaceutical industries. It is also apply a mixture of turmeric and sandal wood powder on their foreheads. It has been used as antitoxic drug in ayurvedha. it is also treat various diseses like bodyache, skin disease, intestinal worms, diarrhea, fevers, urinary discharges, leukoderma, and constipations. etc., Turmeric has been consider as an emmenagogue, diuretic and carminative