

Effect of Cinnamon in Lung Cancer

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Abstract: Cinnamon (*Cinnamomum zeylanicum*, and Cinnamon cassia), is the family member of Lauraceae. which is familiar as the eternal tree. Cinnamon is popularly known spices which is daily base thing of people in the world. cinnamaldehyde, cinnamic acid, and cinnamate are the derivatives which are present in cinnamon and also it contains some vital oils. It protects cells from free radicals, reduces inflammation, protects from diabetes, cancer, also kills the growth of microorganisms, and Cinnamon, belongs to cardiovascular-disease-lowering compound, from the study it has also been viewed that cinnamon have effect against neurological disorders, such as Parkinson's and Alzheimer's diseases. This completely explains about the therapeutically useful property of cinnamon and its use.

Keywords:

Introduction

Cinnamon mainly is the bark of tree which is considered as the vital and most widely used spices all over the world for both cooking and medicinal purposes from ancient years to till date. Till now maximum spices number 250 have been found out of the genus of cinnamon, with the trees being spread all over the world. Aroma and essence industries now mainly focusing on Cinnamon due to its various properties such as fragrance, different varieties of foodstuffs, fragrance, and pharmaceutical products, those are also belong from the essential oil, So for contribution of cinnamon to the perfume and for the different pharmaceutical activities of cinnamon, it is viewed as one of the most useful compound. A research on *Cinnamomum osmophloeum* (*C. osmophloeum*) illustrates that high level of Cin present in essential oil which is extracted from cinnamon leaves. So *C. cassia* used as substitute source of *C. osmophloeum*. *C. zeylanicum* which

is also named as (E)-cinnamaldehyde contains antityrosinase activity which is considered as major constituents of essential oil. The main compound that is responsible for this type of activity is cinnamaldehyde. Procyanidins and catechins are present in cinnamon bark. Procyanidin A-type and B-type linkages are the main compounds present in Procyanidines. Those extracted compounds of procyanidines from cinnamon and berries also have antioxidant activities.

This chapter contains a review of past research work in the purpose of better understanding in this field. This has been compiled with various regions, method of analysis. This chapter is explained under following headlines :

- Historical Concept of Cinnamon
 - Biological properties of Cinnamon
 - Bioactive compounds present in Cinnamon
 - Concept of Lung cancer
 - Anti – cancer effect of cinnamon