

عنوان مقاله:

The Effect of Polyphenol Compound in Cancer Treatment

محل انتشار:

اولین سمپوزیوم بین المللی سرطان نسترن (سال: 1394)

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خلاصه مقاله:

In the modern world where unhealthy and improper nutrition has led to introduction of various new diseases in human societies, paying especial attention to the consumption of the antioxidant substances such as polyphenols, that play a major role in keeping our lives healthy, is of a significant importance. Metabolic activities in the body produce free and reactive bases called free radicals, including OOH, OH. Free radicals cause damage to different parts of the body and induce carcinogenesis. The antioxidants are considered as the aid powers to neutralize the free radicals. Antioxidants inactivate the free radicals by the property of restoration. Polyphenol compounds can be found abundantly in many types of fruits and vegetables and induce their anti-cancer effects. Some of the materials, rich in polyphenols, include green tea, apple, onion, mint family, the rosemary, turmeric, and cocoa. According to the reports, these compounds have an inhibitory role at all stages of cancer development, including onset and progression of cancer. Studies in vitro have shown that the major polyphenolic compounds are very effective and efficient in preventing the cancers, especially in the case of colorectal cancer. Some of the advantageous mechanisms of the polyphenolic compounds include inhibition of cell growth, induction of apoptosis and regulation of cell cycle. Some other advantages of consuming the polyphenolic compounds are to prevent the proliferation and angiogenesis and metastasis. In addition, anti-inflammatory and antioxidant effects of these compounds have also been proven. Moreover, the polyphenolic effect of green tea has a significant role in the inhibition of induced chromosomal damage of cell phone radiations. The main objective of this review article is to introduce the polyphenolic compounds as an inhibitory factor of cancer. To use the polyphenolic compounds has been considered as one of the efficient preventive ways in the treatment of many cancer diseases.

کلمات کلیدی:

Polyphenol Compound, Cancer, Antioxidant, Free Radicals, Inhibitory Role

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