

# Review of: "Effects of Cinnamon on Cancer Prevention and Progression"

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**Potential competing interests:** No potential competing interests to declare.

- First, there are several language and grammar mistakes.

Cinnamon has been used medicinally for centuries, but recently research has suggested it may have a role in cancer prevention and potentially treatment. The search for alternative and adjunctive therapies is essential due to the public demand and the increasing cost of healthcare. **Here (add**

**comma)** we review the biologically active components of cinnamon and discuss the methods of potential cinnamon activity against cancer including: **(remove colon)** transcription factor regulation and kinase activity.

Nuclear Factor kappa B (NF- $\kappa$ B) **(abbreviated NF- $\kappa$ B)** is a stress sensitive **(add dash)** transcription factor that regulates transcription of genes involved in tumor progression and is inhibited by cinnamon components. Another way that cinnamon inhibits tumor growth is by suppression of

**(suppressing)** transcription factor activator protein-1 (AP-

1) which interacts with genes responsible for apoptosis, metastasis and inflammation. Hypoxia-

inducible transcription factor-1 (HIF-1) and vascular endothelial **(Separate)**

growth factor (VEGF) are involved in angiogenesis, especially in the tumor microenvironment. The HIF-1-

VEGF pathway are **(is)** targeted by cinnamaldehyde, a compound found in cinnamon.

- The title is misleading! What is meant by Cinnamon? Do you mean regular consumption? at which dose? which route?

The possible **preventive/protective/prophylactic** effect of regular/periodic consumption/administration of cinnamon

Most of the actions are related to its already known glycemic-controlling effect.

The lack of studies comparing cinnamon with control groups in vivo, whether conducted on animals or human patients.