Flavonoids- New flavor in the treatment of oral cancer

Gitika Sharma¹, Mala Kamboj², Anjali Narwal³

¹Department of Oral Pathology and Microbiology, Postgraduate Institute of Dental Sciences, Rohtak, Haryana, India

Commentary:
Oral Squamous cell carcinoma is considered to be a relatively common head and neck malignancy. Lymph node metastasis and locoregional invasion are prime factors determining prognosis¹. Chemoprevention with natural herbal substances is an upcoming approach for cancer prevention². Flavonoids are natural polyphenolic compounds capable of potentially suppressing the malignant transformation³. Flavonoids have been proven as effective chemotherapeutic agents, inhibiting tumor growth by inducing cancer cell apoptosis mediated primarily by their antioxidative properties⁴. In addition, flavonoids have shown to affect drug transport, cyclin-dependent cell cycle regulation, protein glycosylation regulation, and modulate platelet function⁵. In the present poster, an attempt is made to elaborate on the natural chemotherapeutic modalities available.

References


Keywords: Antioxidative; Apoptosis; Anticancer; Chemoprevention; Flavonoids; Squamous cell carcinoma.

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Corresponding Author:
Gitika Sharma,
Department of Oral Pathology and Microbiology,
Postgraduate Institute of Dental Sciences,
Rohtak, Haryana, India
Email id: gitika051@gmail.com