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Effect of dietary protein types on immune responses in head and neck cancer patients

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Regulatory T-cells are important regulators of anti-cancer immune responses. The relative assessment of different T-cells decrease or increase in head and neck cancer cases after dietary protein supplementation and treatment would help to describe immunological status and predict health improvement in patients. A total of 60 new cases with head and neck squamous cell carcinomas (HNSCCs - Stage I and II) aged 30 to 60 years of both the sex were selected from Department of Radiotherapy, Government General Hospital, Guntur, India. Three types of dietary protein

supplementations (Viz., soya bean, red kidney bean and soya + red kidney bean extracts) have been given to HNSCC cases and immune response was recorded. The samples were analyzed for biomarkers (CD3, CD4, CD45, CD3% & CD4%) before and after supplementation. In the present study results showed that the soya protein and red kidney bean protein did not enhance the CD3, CD4 and CD45 cells in cancer patients. The CD4 cell count and relative percentage have been enhanced by soya + red kidney bean supplementation.

Biography

Kereena Chukka has done her PhD in cancer biology from the Department of Biotechnology, Acharya Nagarjuna University, Guntur, India, under the supervision of Prof. Z Vishnuvardhan. She has been published more than 20 research papers in reputed journals. Her research interests are Cancer Biology, Epigenetics, Molecular Biology, In-Vivo & In-Vitro, Immunology, and Nutritional Biochemistry.

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