

Chronic inflammatory diseases, malignancies and nutritional intervention

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Chronic inflammatory diseases including periodontitis, hepatitis, pancreatitis, gastrointestinal complications which can further lead to malignancies. Inflammation and immune response are required for the tissue defense, regeneration and healing process. Yet, exaggerated and chronic inflammation can advance to life-long debilitation, loss of tissue function and organ failure. Despite the millennial advancements in diagnostic technology and therapeutic modalities, there remains no effective cure for patients who suffer from inflammatory diseases and malignancies. Therefore, over 40% of patients with inflammatory complications seek some form of complementary and alternative medical (CAM) agents as adjunct therapeutic modalities, to alleviate symptoms and possibly to prevent outcomes of inflammation, whether or not to consent their clinicians. There is not sufficient scientific information or international regulatory enforcements regarding the most available CAM agents which some may interact with patients' current therapies with severe consequences. One of the most investigated agents is Green tea and it

polyphenols (GrTP) with potent antioxidants effects. GrTP have important roles in regulating vital signaling pathways comprise transcription nuclear factor-kappa B mediated I kappa B kinase complex pathways, programmed cell death pathways like caspases and B-cell lymphoma-2 and production of cyclooxygenase. This presentation will review inflammatory disease and malignancies and explore mechanism of actions for protective effects of nutritional interventions and some reported adverse effects as well as some food safety applications.

Speaker Biography

Helieh S Oz has DVM and MS (U. IL); PhD (U. MN) and clinical translational research certificate (U. KY Med Center). She is an active member of American Association of Gastroenterology (AGA) and AGA Fellow (AGAF). She is a microbiologist with expertise in inflammatory and infectious diseases, innate and mucosal Immunity, drug discoveries, pathogenesis, and micronutrient. She was PI on different NIH and NIH-NCCAM grants to investigate Chronic Inflammatory Diseases and nutritional interventions. She has over 90 publications in the areas of chronic inflammatory disorders (pancreatitis, hepatitis, colitis and periodontitis) and micronutrients. She serves as the Lead editor for some specials issues and book Chapters.

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