3^{rd} World Summit on HEALTH NUTRITION

January 06, 2022 | Webinar

I- BCPE-An Investigation into the Degree of Sinus Mucosal Delivery of Inhaled Black Cumin Volatile and Peppermint Essential Oils

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Allergic rhinitis (AR) is an inflammatory disease that causes symptoms such as nasal obstruction, itching, and sneezing, and it is estimated to affect about 20–40% of the world's population and 23.1% in Turkiye. AR and rhinosinusitis. (RS) are problems that frequently co-occur and pave the way for each other to occur. About 43% of patients with acute RS reported with symptoms that are seasonal in nature; allergies were present in 25% of these patients. The prolonged treatment duration for rhinitis together with mounting concern about treatment resistance and side effects of medications currently in use has intensified the need to develop new medicines. Herbal folk remedies were in wide use for centuries. The accumulated knowledge gained by traditional phytotherapeutic approaches coupled with molecular investigational techniques now allows novel pharmaceutical chemical entities to be discovered. This explains why targeted drug design is on the agenda and research on topical drug use is ongoing. Steam treatment (ST) has traditionally been used for RS and for symptomatic control of AR for many years. ST entails introducing volatile oil components into steaming water, getting patient to inhale the vapor through the nose then exhale through mouth, in process allowing these compounds to reach the nasal cavity, oropharynx, and lower respiratory tract. No in vitro studies have been identified in scientific literature that examine use of black curnin (BC) or peppermint essential oils (PEO) by inhalation. Our aim was to investigate the quantity of volatile components reaching sinus mucosa (SM) by inhalation, which is responsible for therapeutic effect, as a first step toward targeted drug design

Biography

Cafer YILDIRIM has completed his PhD from Eskisehir Osmangazi University Medical Pharmacology and he is ambassador of British Pharmacology Society. He has worked with horses, rats and mouse for experimental models and immunization. He has published more than 25 papers in reputed journals and has been serving as an editorial board member of repute. He has worked about handicapped-special needs people, youth and women as national and international levels since 2004. And he has created projects for 20 years with 37 national and international European Union and United Nations projects.