



Editorial

Volume 1 Issue 3 – October 2016

Nutri Food Sci Int J

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Phytomedical Therapies of Oral Mucositis

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Submission: October 4, 2016; Published: October 7, 2016

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Editorial

Oral mucositis (OM) is an inflammatory response and adverse effect which routinely occurs in head and neck cancer suffered patients with chemo- and radiotherapy. This can be affected the quality of life due to change in the eating and drinking and also due to its related pain. In OM, first the painful inflammation and ulceration of the mucous membranes lining the oral cavity is occurred and then the lesion may be infected by several pathogenic bacteria. Nowadays, use of traditional medicine such as herbal medicine in treatments of any diseases and disorders are being common due to lower side effects, costs and also appropriate effects.

For instance, I and coworkers reported the beneficial effects of some plant species in diabetes mellitus [1-4], ulcerative colitis [5-8], thyroid abnormal functions [9,10], hyperlipidemia [3], and intestinal morphology [11]. A similar trend is also existed about the OM. Most of clinician's advice to treat this side effect with using of palliative treatments. However, recently the use of herbal medicine in the treatment of OM is attracting by any scientist. The anti-inflammatory and ant oxidative effects of certain plant species in the treatment of pathological lesion of OM were reported by my team previously [12,13].

It has been cleared that most of plant species and also most parts of each plant contained several effective agents such as polyphenolic compounds and also essential oils which exhibited such therapeutic effects [14-16]. These compounds combat with reactive oxygen species (ROS) and stimulate the healing process in OM. Indeed, the most cause of any lesions in OM is an accumulation of ROS, which influenced the local immune function and deteriorate the healing process by affecting cellular and molecular process.

Conclusively, according to the previous experiences, certain plants exhibited antioxidant properties and also contain some antimicrobial agents. These can be attractive for pharmacologist to purify such constituents and help physicians to apply them as alternative therapies for patient with painful OM lesions. Most published work, include those of my team, and are performed

in animal model. Although, their findings are interesting and reliable, but due to interspecies differences, need to human studies are sensed. Therefore, further studies must be conducted in human populations as double blinded randomized clinical trial. I invited young and famous researchers to organize such studies to help cancerous patients for overcoming this painful lesion.

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