

2nd International Conference and Expo on

Holistic Medicine and Nursing

August 14-15, 2017 Toronto, Canada

Gum arabic acacia for oral thin, fast dissolving film**Waddah F Nour¹, Sasabeel M Altigani and Suad Y Alkarib**
Federal Ministry of Health, Sudan

Disease management is mainly affected by two factors, quality of drug and patient compliance to the drug therapy. Now, different formulation options are available for various drugs and the decision is based on the most convenient dosage form for the patient, along with optimum therapeutic benefits, in the hope of improving patient convenience, compliance and the overall outcome of oral drug therapy. Fast-dissolving oral dose are solid dosage form, which disintegrate or dissolve within one minute or less when placed in the buccal cavity without drinking water or chewing. This abstract focus on the recent development in the oral dissolving film and its technique for preparation using gum acacia as new film forming polymer considered to have fast dissolving properties as natural alternative polymer to the synthetic HPMC E15, using *levocetirizine* as a model for managing severe allergic conditions with progressed enhancement of bioavailability and convenient administration. Levocetirizine dihydrochloride is an oral active water soluble third generation non-sedating antihistamine used in symptomatic relief of seasonal and perennial allergic *rhinitis*. *In vitro* comparative dissolution studies revealed higher drug release from the optimized gum acacia with plasticizer film which disintegrated in less than 15 seconds releasing 99-100% of drug within 90 seconds. While that made from HPMC shows lower release 66% within 90 seconds. This Formula can be considered suitable for clinical use in the treatment of allergic rhinitis and other allergic conditions where a quicker onset of action for a dosage form is desirable along with the convenience of administration. Hence it can be used for other drugs that intended for quick lifesaving medicines.

Biography

Waddah F Nour has completed his Master's from Omdurman Islamic University. He is a Pharmacist in Federal Ministry of Health, Sudan. He has been serving as a Member of National Medicine and Poisons Board in Sudan. He has published one paper/poster which was awarded as best one in OMICS 2015/Dubai in October and other one in Germany, Berlin- OMICS July 2016.

waddahfaroug@gmail.com

Notes: