Potential role of *Punica granatum* (pomegranate) seed oil against UV induced oxidative stress in animals

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The present study was conducted to characterize herbal cosmetic preparation contain extract of Punica granatum seed oil, tea tree oil and Jajoba oil. Such natural oils were incorporated in aloe fresh gel cream base formula for the protection of skin against the UV induced aging. To investigate the antioxidant activity of cream formulations the UV radiation induced oxidative stress was generated in rats and defensive measured were noted after topically applied (2.5 mg cm-2/day) for 28 days. The level of antioxidant enzymes (catalase and Superoxide dismutase), non enzyme components (Ascorbic acid level and Melanodialdehyde) was estimated. The structural changes were observed by using histological techniques. Results showed significant improvement in Superoxide dismutase, catalase, total protein and level ascorbic acid with decrease melanodialdehyde. The treatments with such natural components support the current research which seems to indicate the most therapeutically beneficial pomegranate constituents are ellagic acid ellagitannins (including unicalagins), punicic acid, flavonoids, anthocyanidins, anthocyanins, and estrogenic flavonols and flavones. An explosion of interest in the numerous therapeutic properties of Punica granatum over the last decade has led to numerous in vitro, animal, and clinical trials. Pomegranate is a potent antioxidant, superior to red wine and equal to or better than green tea.

Biography

M.S. Ashawat has completed his Ph.D at the age of 34 years from Pandit Ravishankar Shukla University Raipur, (CG) INDIA. He is the Associate Professor of B.N. Girls’s Pharmacy, a premier Women Educational service Institute. He has published more than 26 papers in International and National reputed journals and serving as an editorial board member of repute. He is Recognize Ph.D. supervisor of Rajasthan University of Health Sciences, Rajasthan and Pacific University.

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