

FORMULATE AND EVALUATE OF HERBAL GEL CONTAINING POMEGRANATE FRUITE EXTRACT

Karbhari Vilas N¹, Shinde Nishiganda G² & Nagoba Shivappa N³

¹Research Scholar, Maharashtra Poly (D.Pharm) Institute Nilanga, Latur, Maharashtra, India

^{2,3}Channabasweshwar Pharmacy College, Latur, Maharashtra, India

Received: 18 Apr 2019

Accepted: 24 Apr 2019

Published: 30 Apr 2019

ABSTRACT

Inflammation or phlogosis is a pathophysiological response of living tissues to injuries that leads to the local accumulation of plasmatic fluid and blood cells. Although it is a defense mechanism, the complex events and mediators involved the inflammatory reaction can induce, maintain or aggravate many diseases. Therefore, the uses of anti-inflammatory agents are helpful in the therapeutic treatment of these pathologie.

The concept of anti-inflammatory is changing day to day. The medicinal plants Punica granatum are richest source for management of the anti-inflammatory. Family Lythraceaeis used as hemostatic and anti-inflammatory. The aim of present study is to formulate and evaluate the herbal gel containing pomegranate fruit extract. The pomegranate fruit extract is shows the anticancer activity, analgesic and anti-inflammatory activity, Antiepileptic activity, Antidiabetic, hypolipidaemic and antioxidant activity, Prevention of skin damage, Cardio protective, Musculoskeletal. The gel formulation was designed by using Carbopol 940, pomegranate fruit extract propylene glycol, methyl paraben, Propyl paraben and required amount of distilled water. The skin pH was maintained by drop wise addition of Tri-ethanolamine. The prepared gel was characterized for their physicochemical parameters, preliminary Phytochemical analysis, appearance, quantitative analysis, Spread ability, pH, viscosity and extrudability, stability study.

KEYWORDS: *Pomegranate Fruit, Carbopol 940, Anti-Inflammatory, Gel Formulation etc*