

## SHORT COMMUNICATION

# FORMULATION AND *IN VITRO* ANTI-ULCER EVALUATION OF A HERBAL SYRUP FROM *PUNICA GRANATUM* (L.) LEAVES

### ABSTRACT

The present study was designed to formulate a plant-based solution from the foliage of *Punica granatum* (L.) and evaluate its *in vitro* anti-ulcer potential. A decoction of *P. granatum* leaves was prepared and formulated into simple syrup. The *in vitro* anti-ulcer activity was assessed using the acid-neutralizing capacity (ANC) method, with a standard antacid (aluminum hydroxide and magnesium hydroxide) used for comparison. The leaf decoction demonstrated significant, concentration-dependent acid-neutralizing effects. At a concentration of 400 mg mL<sup>-1</sup>, the decoction exhibited an ANC value of 22, which was comparable to the standard antacid's ANC of 25 at the same concentration. The final syrup formulation was found to be a brown, clear liquid with an aromatic odor, a sweet taste, and a pH of 5.8. These findings suggest that the decoction of *P. granatum* leaves has promising potential for development as an herbal antacid preparation.