ABSTRACT

Mulberry has traditionally been used to treat various diseases. Mulberry leaves possess different physiological and biological potentials. Inflammation is the most common factor involved in various chronic diseases. The purpose of this study was to evaluate anti-inflammatory and analgesic potentials of hot water extracts of mulberry leaves (mulberry tea) of two species i.e., *Morus alba* and *Morus nigra*. Mice were fed orally with mulberry leaves extract (200mg/kg, 100mg/kg and 50mg/kg) mixed in distilled water. Mice paw edema was induced by carrageenan injection while formalin was injected to mice paw for induction of pain. These extracts significantly decreased paw edema in mice. The level of TLC and RBCs was increased to normal. Platelets level was also increased in mice treated with mulberry leaves extracts. Furthermore, these extracts significantly reduced the licking response and inflammatory pain caused by formalin injection in mice paw. Taken together these results showed that the hot water extracts of leaves of these two plant species possess anti-inflammatory and analgesic potentials.

Keywords

Inflammation, Mulberry tea, *Morus alba*, *Morus nigra*, Anti-inflammatory, Analgesic