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Abstract
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Analgesic and Anti-Inflammatory Activity of Gul-E-Tesu *(Butea frondosa)* In Vivo Study

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ABSTRACT

Background and Objective: *Butea frondosa* syn. Butea monosperma is a crucial, ornamental, arid zone flower of fabaceae family which is known as “the flame of the forest” due to its bright orange red colour. It is a herb used as traditional medicine, in unani medicine as analgesic and anti-inflammatory drug for orchitis. The phytoconstituents of *Butea frondosa* contain steroids, prunetin, flavonoid glycoside as butrin, isobutrin, butein, isocoreopsin which possess anti-inflammatory effect. The study was carried out to observe the analgesic and acute, chronic anti-inflammatory effect of aqueous extract and crude powder with ibuprofen on acetic acid induced writhing in swiss albino mice and carrageenan, formaline (s.c/0.1) induced paw oedema in albino wister rats respectively. The mean increase in paw volume was calculated by digital vernier caliper at 0, 30, 60, 120 and 180 mints. **Results:** % inhibition of pain in acetic acid induced (i.p/ 0.1) writhing shows significantly decreased number of abdominal constriction and stretching of hind limb. % inhibition of paw oedema in acute inflammation and chronic inflammation shows no statistical difference and Haematological values of RBC, WBC, Platelets and LFT. SGPT & SGOT shows no statistical significance in aqueous extract and crude drug form. So, the analgesic activity of *Butea frondosa* may partly correlate to its anti-inflammatory activity. **Conclusion:** It is observed from the present study that *Butea frondosa* has potent analgesic and anti-inflammatory activities.

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