

PRELIMINARY COMMUNICATION

INVESTIGATIONS OF ANTI-INFLAMMATORY AND ANALGESIC ACTIVITIES OF PREDNISOLONE SOLID DISPERSION PREPARED WITH SKIMMED MILK

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Prednisolone is an analgesic and anti-inflammatory drug. It possesses poor aqueous solubility and has irritant effects on stomach mucosa. In order to modulate its gastric side effect and increase aqueous solubility, physical mixture and solid dispersion of prednisolone were prepared with skimmed milk. In this study, anti-inflammatory and analgesic effects of these formulations were investigated in comparison to the plain drug itself employing hind paw edema test and Randall's analgesia test. Based on the data, it was determined that the drug maintained its pharmacological activity even after formulating in the form of physical mixture and solid dispersion.

Key words: *prednisolone, solid dispersion, anti-inflammatory effect, analgesic activity, hind paw edema test, skimmed milk*

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