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**EVALUATION OF ANTI-INFLAMMATORY AND ANTI-
ARTHRITIC EFFECT OF *SESBANIA GRANDIFLORA* BARK
AND FRUIT OF *TERMINALIA CHEBULA* IN RATS**

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The effects of prophylactic administration of extracts of bark of *Sesbania grandiflora* and fruit of *Terminalia chebula* on the development of carrageenan induced paw oedema and adjuvant - induced arthritis to assess influence of high NO level in the form of exogenous herbal extracts of bark of *Sesbania grandiflora* (300 mg/kg b.w.) and fruit of *Terminalia chebula* (500 mg/kg b.w.) in the progress of inflammation and polyarthritis. Inflammation was assessed by measuring paw swelling. was significantly reduced after prophylactic administration of extracts of bark of *Sesbania grandiflora* (300 mg/kg b.w.) and fruit of *Terminalia chebula* (500 mg/kg b.w.). Arthritis was assessed by measuring paw oedema , splenomegaly, thymic involutions and loss in body wt. which are features of adjuvant- induced arthritis were effectively reduced after prophylactic administration of extracts of bark of *Sesbania grandiflora* (300 mg/kg b.w.) and fruit of *Terminalia chebula* (500 mg/kg b.w.). These data suggests that high NO level in the from extracts of bark of *Sesbania grandiflora* and fruit of *Terminalia chebula* may suppress initial stages of immune response to carrageenan and adjuvant injection probably by inhibiting iNOS expression through feedback inhibition mechanism and showed potent anti-inflammatory and anti-arthritic activity.