

1. Title of research project: “Preparation of Herbal Drug Formulation”

2. Name of PI: Prof. A. P. Purohit

3. Funding Agency: UGC

4. Project Reference number/ File number: 47-104/02 (WRO)

5. Executive summary of the project along with output:

Arthritis is a disease especially of declining age at global level. Allopathy offers symptomatic relief in this case and at the same time, allopathic drugs present various side effects. The similar findings are observed in wound healing process. Thus objective of the current work was to identify medicinal plants which can act as anti-arthritic and wound healing activity.

Anti-arthritic formulation: Considering the etiology of osteoarthritis medicinal plants effective at separate stages of development like inflammation, oxygen free radical attack of uric acid etc. were selected. The powdered samples of these medicinal plants were tested on rats by carrageenan induced anti-inflammatory technique. The formulation was clinically trialed at Government ayurvedic hospital, Bangalore. The results were promising.

Wound healing formulation: The stages of wound healing like clot formation, anti-inflammatory activity, prevention of sepsis, collagen formation were considered and appropriate plants were searched out. The powdered samples were formulated into cream and powder. Preclinical trials were carried out on rats with incision wound model. Clinical trial on diabetic and immunosuppressed patients were carried out in private hospitals. The results of study are promising.

Output:

Two students awarded with M. Pharmacy degree (Pharmacognosy) based on the findings of this work.