

PLAN OF RESEARCH WORK

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The work embodied in the thesis covers the studies on the role of amlaki (Emblice officinalis Linn.) in experimental ulcers. Experimental ulcers were induced in animals by various ulcerogenic drugs/methods and effect of amlaki (Emblice officinalis Linn.) on these ulcers was studied. The following scheme of work was followed in course of the investigations.

### Chapter I : DEVELOPMENT OF EXPERIMENTAL ULCERS : ROLE OF AMLAKI (Emblice officinalis Linn.)

a) Development of peptic ulcers in rats by the drugs like,

1. Aspirin
2. Salicylic acid
3. Paracetamol
4. Indomethacin

5. Prednisolone

6. Hydrocortisone

by the methods like,

7. Restraint

8. Shay

in guinea-pigs by the drug

9. Phenylbutazone

and in mice by the drug

10. Histamine.

b) Evaluation of antiulcerogenic property of amlaki (Embllica officinalis Linn.) in these experimental ulcer models.

Chapter - II : STUDIES ON ACID-PEPTIC FACTOR : ROLE OF AMLAKI (Embllica officinalis Linn.)

Collection of gastric juice and determination of its rate of secretion, acidity and peptic activity during ulceration as well as after treatment with amlaki (Embllica officinalis Linn.).

Chapter - III : STUDIES ON DISSOLVED GASTRIC MUCIN : ROLE OF AMLAKI (Embllica officinalis Linn.)

Analysis of dissolved gastric mucin

by estimating its constituent carbohydrate components like, total hexose, hexosamine, methyl pentose and sialic acid during ulceration as well as after treatment with amlaki (Emblisa officinalis Linn.).

Chapter - IV : STUDIES ON GASTRIC MUCOSAL MUCUS :  
ROLE OF AMLAKI (Emblisa Officinalis  
Linn.)

Isolation of gastric mucosal mucus and its analysis during ulceration as well as after treatment with amlaki (Emblisa officinalis Linn.).



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