

PHYTOCHEMICAL AND EVALUATION OF ANTI ULCER EFFECT OF *CORDIA DICHOTOMA G.(ForsT.)LEAVES* AND METHANOLIC EXTRACT IN ALBINO WISTAR

Preview from Notesale.co.uk
Page 2 of 39



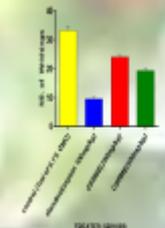
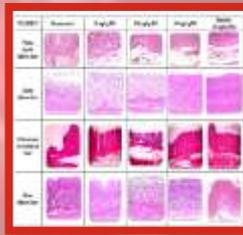
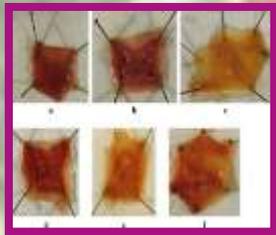
Cordia dichotoma G(ForsT)

(leaves powder)

(Soxhlet Extraction)

(Rotary Evaporation)

CDLME



(Phytochemical Investigation)

Morphological activity

Histopathological activity

(Results)

(Discussion)

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- *Cordia Dichotoma* is a small tree that's grows in tropical as well as sub tropical region .and it also grow in outer tract of sub Himalaya ranges, which is having elevation of about 1500 m in ascending and it is also native in India and Nepal. The plant shows the presence of quantitative analysis like phytoconstituent like Carbohydrates, alkaloids ,glycosides, Flavonoids, tannins and saponins. The plants with various parts like leaves, roots, seed, bark, and fruits which shows the various activity like immunodulator, antidaibetic.

ASPIRIN INDUCED GASTRIC ULCER

- **Group-1** (control) treated with Normal (Distilled water)
- **Group-2** Standard received Ranitidine (Ranitidine 2mg/kg, b.w p.o) for once daily for 10 days
- **Group-3** (Test-1) received CDLME (250mg/kg b.w, p.o) once daily for 10 days and Aspirin (250mg/kg, b.w p.o) suspended in 1% CMC on 10th day.
- **Group-4**-(Test-2) received CDLME (500mg/kg b.w, p.o) once daily for 10 days and Aspirin (500mg/kg, b.w p.o) suspended in 1% CMC on 10th day.
- **Group-5**-(Test-3) received CDLAE (250mg/kg b.w, p.o) once daily for 10 days and Aspirin (500mg/kg, b.w p.o) suspended in 1% CMC on 10th day.
- **Group-6**-(Test-4) received CDLAE (500mg/kg b.w, p.o) once daily for 10 days and Aspirin (500mg/kg, b.w p.o) suspended in 1% CMC on 10th day.

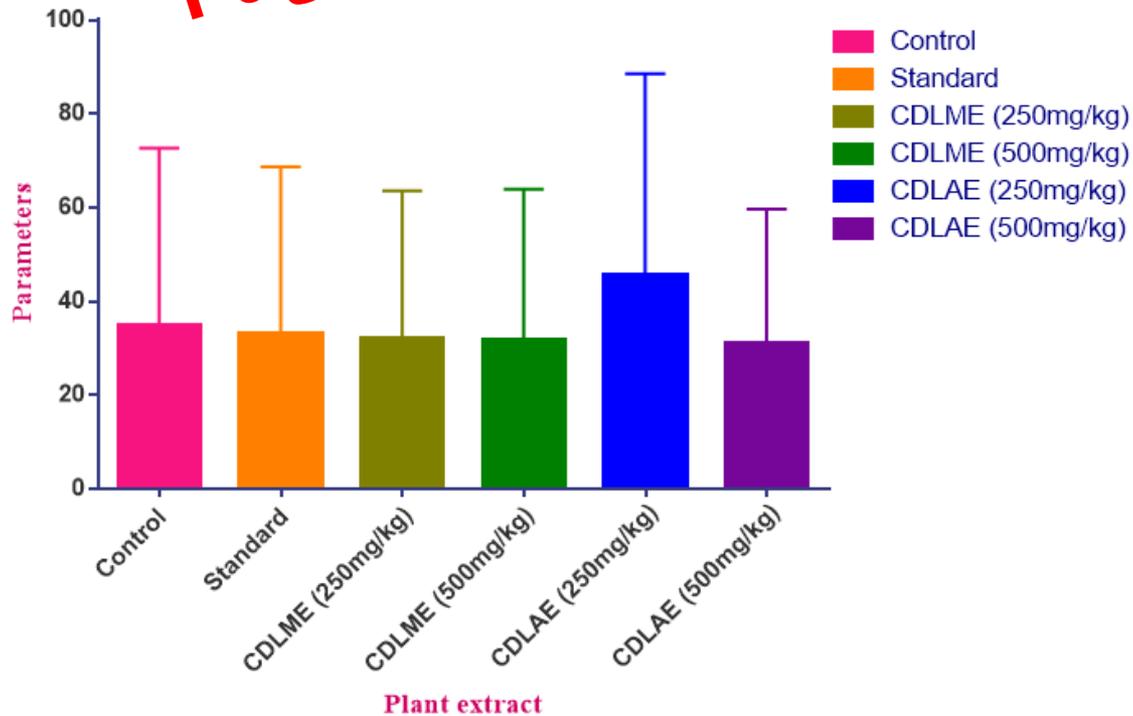
Male and female rats is taken which is having weight approximately 160g were used for the purpose of study. The animals have were fasted for 24 hours before starting the experiment. But free access to water, the aspirin were suspended in (500mg/kg, b.w p.o) which was suspended in 1% CMC of carboxyl methyl cellulose at a concentration of 50mg \ml. According to the body weight of the rats the aspirin was given in the form of suspension and administrated as a single dose of 250mg\kg. After a time interval of one, two, three four up to tenth days. After giving the dose the animals were killed and then the stomach of the rats were excised immediately and cut along with the greater curvature then the stomach is taken and wash with the phosphate buffered saline. Then the surface of the mucosa was wiped with a soft tissue. The damage of the mucosa was observed by macroscopic or by Histopathological study.

ETHANOL INDUCED GASTRIC ULCER

- **Group-1** control (Distilled water)
- **Group-2** Standard (Ranitidine) 2mg/kg, b.w p.o in 1 ml of 1% CMC
- **Group-3** (Test-1) received CDLME (250mg/kg b.w, p.o) once daily for 10 days and Ethanol (1ml/kg b.w, p.o) on 10th day.
- **Group-4** (Test-2) received CDLME (500mg/kg b.w, p.o) once daily for 10 days and Ethanol (1ml/kg b.w, p.o) on 10th day.
- **Group-5** (Test-1) received CDLAE (250mg/kg b.w, p.o) once daily for 10 days and Ethanol (1ml/kg b.w, p.o) on 10th day.
- **Group-6** (Test-2) received CDLAE (500mg/kg b.w, p.o) once daily for 10 days and Ethanol (1ml/kg b.w, p.o) on 10th day.

First the rats are kept in a fasting stage for 24 hrs after competition of 24 hrs the rats are treated with 1 ml of ethanol through orally. Then check the difference of standard and test of 200 and 500mg/kg. and then the drugs are administrated orally in 30 min before the administration of ethanol 1ml. finally the animals is scarified after the 1 hrs of ulcerate administration and their stomachs were excised and the gastric contents were aspirated and wash the stomach with normal saline kept in 10% formalin for Histopathological study. Then the gastric contents were subjected to centrifuge to centrifugation at 1000 rpm for 10 mins. For the determination of pH (digital pH meter) and ulcer index.

Result of gastro protective effect of CDLME and CDLAE on Volume of Gastric Juice, pH, Free acidity, Total acidity, Ulcer index and % Ulcer protection in Experimental model No. 1 Aspirin induced Gastric ulcers in Albino wistar Rats.



Preview from Notesale.co.uk
Page 34 of 39

Result of gastro protective effect of CDLME and CDLAE on Volume of Gastric Juice, pH, Free Acidity, Total acidity, Ulcer index and % Ulcer protection in Experimental model No. 2 Ethanol Induced Gastric ulcer in Albino wistar Rats.

