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ETHNO MEDICINAL AND PHARMACOLOGICAL ACTIVITIES OF FAGONIA PLANT

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ABESTRACT

Fagonias is a tropical herb of the Rasid daicot family and is commonly known as Dhamasa and Dhamasia. Historically, this plant has been used to treat diseases such as dry skin, acne, pharyngitis, ear infections, genital diseases and has anti-pyretic properties. This natural herb is great for its active phytochemical components, namely carbohydrates, flavonoids, glycosides, steroids, saponins, alkaloids, triterpenoidal glycosides, amino acids, chlorides, sulfates, anthraquinoids, anthraquinoids, Fagonia species have many biological activities with anti-inflammatory, anti-microbial, antioxidant and cardio protecting effects. This rumored drug activity makes Fagonia an important crop for any clinical analysis.

KEYWORDS: Skin diseases, Antioxidants, Thrombolytic, Anti-inflammatory action.

INTRODUCTION

Eternal plants have from time to time offered simple solutions to human diseases, with humans assigning completely different spices as a diagnosis of various diseases. The Planetary Health Organization (WHO) is a genius that destabilizes 80 percent of the population, relying on older medals for their essential medical services. Most of the plants that use square measurements for various vulnerabilities have not been researched in any way. Recommended drugs taken from plants are more than half an hour in total square measure (Farnsworth et al., 1976).

Fagonia Prevalence and Morphology

The square measure of Fagonia plants is associated with warm and dry areas of all major regions except Australia. These classes measure small plants with pointed, shrubs, a ton and shingles, spread, vulgarity and sensitivity. Inverted leaves, 1-3 leaves; Petioles scary long factor, three to 30 metric direct unit length, deeply separated, terribly thin; Steeples for paired sets of sharp thin thistles, regularly distinguished by the length of twelve metric straight units; Handouts with straight, sharp, terribly small petioles. It pulls spices into the base, or prostrate (Rathore et Cetera, 2011). Blooming squares pink-ple da, 8-10 metric straight units wide, six metric straight units long. Sepoy clap, 3-4 metric direct unit length, slightly shaggy out, deciduous or semi-firm. Petal unbinding, 4-6 metric straight unit length, 2-3 metric straight unit extension, inhuman. Stamens with 3–4 metric straight unit long fibers. Container as an organic product Four Metric Direct Unit Long Adolescence, Pedal Double Enofer (Fig. 1). The flowering period is continuous.

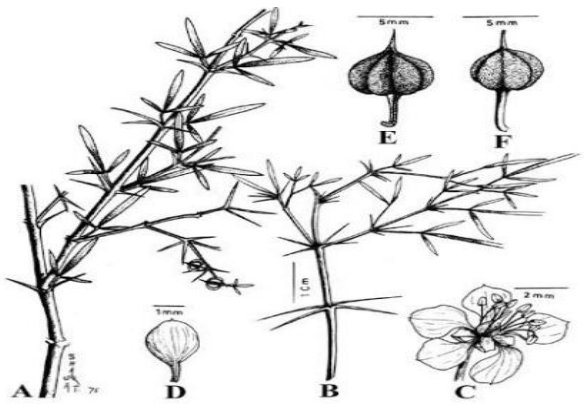

Fig 1: (a) *Fagonia* twigs (b) Erect stem, (c) Flower, (d) Flower petal and (E).

Ethnomedicinal uses

Fagonia Cretica, f. Arabica, f. Brugie, F. Mycorrhizal, f. Indica, f. In fact they are used as a popular remedy for fever among people living in stations in the Sindh region of West Pakistan and Asia. The plant is given as a tonic and medicine, and the specialty of Peshawar is given within mourning. Young people as an immune system against smallpox. The field unit of leaves and twigs is expected to have cooling properties within the Ormara slope, making the plant green and swollen to TB. In Hala Lavana Saruna, it is mixed with water and it is emphasized that fluid is kept wherever the child has a

fever. Koran Saathi is made as a shower when the fever comes. Inside the Losbella State and Levi parcels, milk is added and solidified for 3 days, where it is scattered throughout the body (Kirtikar et al., 1975). Some employees are identified by some species by the word. These plants have very little use against antioxidants such as antioxidants, inhibitors, pain killers, astringents, medicine and pathogens. Types of Fagania Used Endomic Framework, Fever, Asthma, Urinary Tract, Toothache, Intermediate Disorders and Urinary Tract, sterols, flavonoids, proteins and amino acids.

1977 8-O-methylhercetin - one of the earliest works of 1977 based on an important component of Fagonia arabica (Nabil et al. 1997). Fagonia species al-Wekelet al? Another test for the phytochemistry of the components of (?) Requires chemophore and isoramnetin 3-rutinoids F. Mollis contains its main flavonoids, f. Is in Tristisconot, 8-8 also. O-methylherben. Al-Wekel et al. (1987) Fagonia Mollis and F. It is generally believed that Tristis found flavonoid designs that are significantly similar to the geographical distribution of the species. Flavonoids of the Fagonia species are additionally concentrated in El-Nagoumet et al. (1986) Flavonoids of Fagonia tekehomiana and 4 volunteer styles of Fagonia arabica were researched as assembled from Egypt, and light-emitting diodes were sent for detectable evidence of six flavonoids not completely red. The flavonoids are saturated amounts of aerohamnotine 3-glucoside and 3-rutinoside. Showed the presence of eight-rutinoid poisons. In addition, the end components of Herbasin 8 methyl add ether-3-ruthenoid to the aconizable amount, although only trace amounts of 3,7-digluine-coside and 3-rutinoid-7-glucoside (El-Negomi et al. 1986) are Fagonia-flavored Well concentrated by Hadidi (1987). [Salva et al. (1987)]. Additional components of the Fagonia plant are saponins. Saponins from Fagonia arabica [Toshio et al. (1996)]. The saponins of Fagonia Cretica are concentrated in Abdel Khalikit al Khalik et al.

Medicinal activities of fagonia plant

1. Anti-inflammatory and Wound healing property

[Alkasoumi et al. Contraindications and calcified diclofenac sodium sol (Diclomax ®) and wound rheovascular povidone-iodine (betadine) drugs. Natural gels and diclofenac sodium alm oil were applied topically to the calf-growing (0.5 g) surface of the left hand claw and a calming effect was observed within 3 hours. Corrective effects of wounds were found with the use of 0.5 g or F. Schweinfurti gel. And betadine was seen once every 19 to 19 days with yellow-skinned individuals and for rat extraction injury over a 4-day period. It can be observed that there is time to reduce the reformist influence to prison definitions and to increase the wound closer. This research f. Schwein furti proposed that the plant could be made into a preventive specialist to reduce various gel definitions and heal wounds (Saleh et al., 2011).

Androgenically active

Abirami v. And others. (1996) Fagonia focuses on cretica.in. F. Alcoholic focus on the aerial parts of the Creticon estrus cycle and the effect of implantation in female yellow-skinned rats. On examination, he learned that Fagonia was facing criticism. Stability of the estrus pattern in rats with arbitrary overshoot of the warm period (estrus phase). Its invisible list is +53.33, which reduces the desire to coexist with women. When controlled over 250 mg / kg p.o.it share the point went entirely to the enemy of the implantation specialist. Susp drug has respect to control of suspension and has a massive androgenic movement in the form of dilation of both the primary vesicles and the abdominal prostate. Symptoms obtained by treatment with testosterone propionate having any antiandrogenic action may not necessarily be adjusted when given a combination of the two (Abirami et al., 1996).

Analytical activity

Ethanol and water concentrations (200 and 400 mg / kg) of Fatania were relieved. Indica focuses on tail flick strategy in rats. The results actually broke down with the ceasefire strategy, which showed that the removal of ethanol had a strong inhibitory effect against Bacillus serius and a less inhibitory effect against Pseudomonas aeruginosa. In this research two substances (ethanol and water) underwent heavy ($p < 0.05$) analgesic action (Sharma et al., 2009). Intensive and sub-intensive calming exercises concentrated as 10% ethanol of Fagonia indica were additionally surveyed in rats (Liu et al. 2001).

Counter-Activity

The cell-strengthening capacity of Fagania arabica in pheochromocytoma (PC12) in rats with synthetic ischemia and the relevant component of the cancer prevention agent Guard [Satput et al. (2009)]. Variation in cell cancer prevention agent proteins (Turf, Cat, GSH-PX and GH-R) has been estimated. Anti-cancer agent spice potential (ABTS), lipid peroxidation degree (MDA and 4-HAE), total cell reinforcement status (TAS) and total glutathione (reduction, oxidation and their ratios were evaluated, Fagonia arabica free extremities rumors ABTS) Fixation showed subordinate cell reinforcement activity up to a maximum of 1000 / g / ml. Its treatment with ischemic cells raises GSH, which helps to restore TAS levels and subsequent cell carcinogenic agent stimulants and subsequently lowers lipid peroxidation levels. Is. Fagania arabica prevents free radicals and interferes with oxidative stress during ischemia. I then test guided tests to check for counter oxidants and additionally check for free end room room action related to plant extracts.

Clotlytic activity

Do not mock the results of throthrombic diseases (myocardial or cerebral contamination) Intravenous trapped groups. Thrombolytic specialists are accustomed Now a group of veins. Using in vitro thrombolytic

technique, water The focus of the whole plant of Fagonia arabica exhibits a clear level of cluster level streptokinase negative control and water negative control (75.6%) (Parsad et al., 2007). Table II records blood and hematology related tests.

Neuroprotective activity

Avinash's Rawal et al. (2004) announced the neuroprotective movement of three spices Rubia cardifolia (RC), Fagania Cretica Linn (FC) and Tinosorpa cordifolia (TC). In which Test hippocampal fragments OGD (oxygen glucose difficult) and Divided into 3 synagogues: control, OGD and OGD + .drug. Cytosolic Cu-Zn Superoxide dismutase (Cu- Zn SOD), glutathione (GSH), glutathione monoxide (GPx), nitric oxide (NO) estimated to be nitrate (NO2) in supernatant and protein tests work was done in different meetings at different times. Used to make EPR Superoxide ion (O2.-) for cell reinforcement effects of RC, FC and TC Hydroxyl radical (.OH), nitric oxide (NO) radical and peroxinitrite ion (ONOO) is made individually from pyrogallol, menadione, DETA-NO and sin-1. RT-PCR GCLC, iNOS, Cu-Zn SOD and GAPDH are displayed for quality for all three conferences Certainty. As a result they were found to be viable within the three spices. Flushing of GSH levels, galling of gamma glutamylcysteine ligase. Spices in addition, solid free end search features are displayed against sensitive oxygen and nitrogen species concentrated by electron paramagnetic resonance spectroscopy. In the expansion of the three spices basically reduces iNOS quality advertising 48 hours later considered an important part of the neurological physical problem
Hypoxia / Ischemia.

Table 1: Anti-oxidant activity of some species of *fegonia* plant.

Species	Preparation	Organ or system or model	Results	References
F.arabica	Total extract	Ischmiainducedoxidativestressinrat PC12cells–invitro	Concentration dependent anti-oxidant activity/frees radical scavengingat1000µg/ml	Ravindra et al. (2009)
F.arabicaand F.bruguierei	Aqueous and methanolic	Improved ABTS method for assaying antioxidant potency	*F.arabica* better than sF.bruguierei.Aqueou sex tract is more potent than methanolic	Khaled et al. (2007)
F.schweinfrthii	Ethanolic	Antioxidant against CCl4 mediated oxidative stress in HepG2cellline	*F.schweinfrthii*canbeagoodlivertonic	Anil et al. (2013)

Table II: Role of *fegonia* plant against artherothombotic diseases of blood.

Species	Preparation	Organ or system or model	Results	References
F.arabica	Aqueous extracts	Blood clotlysis	*Fagonia Arabica*cure the patients suffering from a the othrombotic diseases	Sweta et al. (2013)
F.arabica	Combination of fish Extract with plant extract *Fagonia Arabica*	Human blood	Treat the atherothrombotic diseases	Rakesh et al. (2010)
F.cretica	Different constituents	Male Rabbits	Leukocyte count decrease during experimental duration with durations pecific trends	Saeed et al. (2003)
F.arabica	50ug/ml	Blood coagulationandfibrinolysis	Effective similar to streptokinase	Chourasia et al. (2011)

Table III: Fegonia plant cure the aliment related with diabetes.

Species	Preparation	Organ or system or	Results	References
F.cretica	Crude extract	*Invitro*	Extract contains significant DPP-4 inhibitory activity	Saleem et al. (2014)
F.arabica	Methanolic extract	*Invitro*	Anti-inhibitory for hormone sensitive lipases	Yasser et al. (2011)
F.arabica	Methanol extract	Pancreatic lipase inhibitory activity	Inhibits pancreatic lipase activity in a dose dependent manner	Yasser et al. (2011)

Table IV: Anti-cancer and anti-tumor properties of some species of Fegonia plant.

Species	Preparation	Organ or System	Results	References
F.indica	Aqueousinfusion	Experimentally induced tumors in male and female rats	Tumoro static effect found which is more significant in females than in males	Soomro et al. (2003)
F.cretica	Extract	Breast cancer cell	Arrest cell cycle,induce apoptosis	Matt et al. (2012)

Table V: Other therapeutic properties of fegonia plant.

Species	Preparation	Organ or system	Results	References
F.cretica	Alcoholic Extract of aerial parts	Estrous cycle and implantation	Omission of heat phase and100%anti-implantation activity	Abirami et al. (1996)
F.Scheweinfurthii	Alcoholic/gel	Carrageen an induced rat spawe demand excision wound	Significantly healing activity	Alqasoumi et al. (2011)
F.arabica	Whole plant decoction	Urease inhibition activity	Potentant iH-pylori	Muhammad et al. (2013)
F.cretica	Powder	Endocrinologicalparameters in rabbit	Influenced prolactin,thyrotropin,thyroxine and cortisol levels	Saeed et al. (1999)
F.schweinfurthii	Ethanolic	CCL4 treated	Hepato protective	Anil et al. (2013)

CONCLUSION

As indicated by conventional information and examinations of different scientists it is presumed that Fagonia plant has restorative potential and can be utilized for arrangements of different pharmacological items.

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