**Ficus benghalensis Linn.: A TRIBAL MEDICINE WITH VAST COMMERCIAL POTENTIAL**

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**Abstract:** Ficus benghalensis also known as Indian banyan tree. Different parts of the tree have been found to possess medicinal properties: leaves are good for ulcers, aerial roots are useful in gonorrhea, seeds and fruits are cooling and tonic. The roots of Ficus benghalensis are given for obstinate vomiting and infusion of its bark is considered as a tonic and astringent and is also used in diarrhea, dysentery and diabetes. The bark of the plant is used in Ayurvedic medicine for the treatment of diabetes. The immense potential of this tribal plant is being reviewed to explore its medicinal importance.

**Keywords:** Ficus benghalensis, Diseases, Tribal Plant.

**Introduction:** Ficus spp., the fig genus, consists of over 800 species and is one of about 40 genera of the mulberry family. The fig species of greatest commercial importance is Ficus benghalensis L. (the banyan tree) Ficus carica L. (the common fig). Other notable species of Ficus are Ficus religiosa L. (the Bo tree which sheltered the Buddha as he divined the “Truths”), Ficus elastica Roxb. ex Hornem. (The rubber tree), and Ficus racemosa L. (syn. glomerata, the giant cluster tree).

All Ficus spp. possess latex-like material within their vasculatures, affording protection and self-healing from physical assaults [1]. Plants have been the major source of drugs in Indian System of Medicine (ISM) and other ancient systems in the world. Earliest description of curative properties of medicinal plants is found in Rig-Veda. Charaka Samhita and Sushruta Samhita give extensive description on various medicinal herbs. Plant is present in most tropical and subtropical forests throughout the world and distributed all over India from sub Himalayan region. It is most specifically distributed in the deciduous forest of Deccan and south India. These are very large, fast growing, evergreen tree up to 3.0 meters, with spreading branches and many aerial roots. Leaves stalked, ovate-cordate, 3-nerved, entire, when young downy on both sides; petiole with a broad smooth greasy gland at the apex, compressed, downy; Bark smooth, light grey-white, 1.27cm thick wood moderately hard, grey or grayish white. Fruit in axillary pairs, the size of a cherry, round and downy [2,3,4].

Some species recorded in India which are Ficus benghalensis (Indian banyan), Ficus auriculata, syn. Ficus roxburghii, Ficus carica (common edible fig), Ficus religiosa (bo tree or sacred fig) etc. Some important marketed Ayurvedic formulations are samgrahaniya, Kasayacharna, Udumbarasa, Udunbaravaleha, Udumbamatra [5].

**Classification**

**Botanical Classification of Ficus benghalensis**

**Botanical Name:** Ficus benghalensis

**Kingdom:** Plantae

**Division:** Magnoliophata

**Class:** Magnoliopsida
**Order**: Urticales  
**Family**: Moraceae  
**Genus**: Ficus  
**Species**: Benghalensis  

**Biology & Ecology**: F. benghalensis is widely cultivated in the tropics [8]. F. benghalensis is the world's largest tree in terms of its spread with some old trees covering over an acre of ground. The tree's name "banyan" refers to the merchants who set up shop under the spreading trees. One of the most popular banyan trees, F. benghalensis, on Maui, located on Front St. in Lahaina, is a meeting place for tourists, artists, children, and folks selling their goods. In addition to the large spreading growth form, trees also have attractive red fruits and aerial roots which hang from limbs [7].

**Habitat**: It is found throughout India from sea level to 1200 m and in Bengal.

**Plant Description**: A very large tree upto 30 m in height with widely spreading branches bearing many aerial roots functioning as prop roots, bark greenish white, leaves simple, alternate, often in clusters at ends of branches, stipulate, 10 to 20 cm long and 5 to 12.5 cm broad, broadly elliptic to ovate, entire, strongly 3 to 7 ribbed from the base; the fruit recacles are axillary, sessile, in pairs, globose, brick red when ripe, enclosing male, female and gall flowers; fruits small, crustaceous achenes, enclosed in the common fleshy receptacles [8].

**Morphology**: Banyan is a humongous tree, with branches spreading across wide area; it attains a height of about 100 feet tall and, with its massive limbs supported by prop roots, spread over an area of several acres. Its bark is smooth, thick, green when young, grayish white when mature, turning pink when cut, exfoliating in sheaths; Wood is soft and porous with milky, sticky latex [9].

**Leaves**: Leaves are glossy, leathery and glabrous when mature, approximate hear the end of branches, ovate, mostly obtuse, base cordate or rounded, thickly coriaceous, basal nerves 3-7, the midrib with 4-6 pairs of secondary nerves, blade 10-20 cm, petiole 2-5 cm long, shoot pubescent, 1.5 to 2 cm in diameter, sessile, scarlet, red when ripe. [9].

**Flowers**: It has very small, separate, male and female flowers. The male flowers crowded near the mouth of the receptacle, whereas female flowers with shorter perianth, style long, male and female in the same receptacle. [10].

**Fruits**: Fruits globose, sessile in axillary pairs, fleshy pericarp and with achenes trenched in them, they are dark red in colour, 1.5-2.0 cm diameter, red to dark purple when ripe; seeds are tiny. Fruit is not edible for humans but is eaten by birds and monkeys [10].

**Traditional Uses**: According to Ayurveda, it is astringent to bowels; useful in treatment of biliousness, ulcers, erysipelas, vomiting, vaginal complains, fever, inflammations, leprosy. According to Unani system of medicine, its latex is aphrodisiac, tonic, vulnerary, maturant, lessens inflammations; useful in piles, nose-diseases, gonorrhea, etc. The aerial root is styptic, useful in syphilis, biliousness, dysentery, inflammation of liver, etc [11]. Milky juice is used for pains, rheumatism, lumbago and bruises. For the treatment of spermatorrhea, 2 drops of fresh latex in a lump of sugar are taken once daily on empty stomach early in the morning. Seeds are cooling and tonic in nature [13]. Its leaf buds are astringent, leaves infusion is given in diarrhea and dysentery, poultice of hot leaves is applied on abscesses. The bark is astringent and tonic and used in diabetes and leucorrhoea, lumbago, sores, ulcers pains and bruises. Some important Ayurvedic marketed formulations are Nyagrodhaadi churnam (Bhaishajya Rutnavali), Saarivaadya Chandanaasava, Dineshavalyaadi Taila (Sahasrayoga) [13].

**Phytochemical Constitution**: Phytochemical investigation of F. benghalensis led to the exploration of a wide variety of constituents which are responsible for its wide range of pharmacological activities. They include ketones, flavonoids, flavonols, sterols, oentacyclic triterpenes and triterpenoids, furocoumarin, tiglic acid ester and some other esters.

**Ketones**: Three ketones 20-tetraatriacontene-2-one, 6-heptatriacontene-10-one, pentatriacontane-5-one were isolated from stem bark of FB [13].

**Flavonons and Flavonoids**: Leaves of F. benghalensis contain Flavonols that are responsible for its antioxidant effects. These flavonols include quercetin-3-galactoside and rutin (Vikas and Vijay, 2010). Stem bark of F. benghalensis also contains bengalenosides that is, glycosides or flavonoids, 5, 7 Dimethyl ether of Leucoperalgonidin-3-O-α-L-rhamnoside and 5, 7, 3 dimethyl ether of leucocyanidin 3-O-β-D-galactosyl cellobioside, and 5, 7, 3 trimethoxy leucodelphinidin 3-O-α-L-Rhamnoside [13]. All these flavonoids consist of various sugars.
attached with OH groups of Leucoperagonalidin, Leucodelphinidin and Leucocyanidin.

**Terpenoids:** Pentacyclic triterpenes and triterpenoids for example, friedelin, 3-friedelanol, beta sitosterol, 20-traxasten-3-ol, Lupeol or Betulinic acid and beta-amyrin are present in the leaves of *F. benghalensis* [13].

**Coumarins:** Coumarins (furocoumarins) have been identified from *F. benghalensis* Psoralen (also called psoralene) is the parent compound in a family of natural products known as furocoumarins. It is structurally related to coumarin by the addition of a fused furan ring, and may be considered as a derivative of umbelliferone. Psoralen occurs naturally in the seeds of *F. benghalensis*. It has photosensitizing activity. Bergapten (5-methoxypsoralen) is a psoralen that was also explored from *F. benghalensis* [14].

**Esters:** The tiglic acid ester of 6-traxasterol has been isolated from the heartwood of *F. benghalensis*. Recently three new esters were isolated and characterized from methanolic extract of the bark of *F. benghalensis* along with linolyl glucoside and oleiyl glucoside. [15].

**Carbohydrates:** A galactose specific lectin was isolated from the seeds of *F. benghalensis* (Moraceae) fruits and designated as Ficus benghalensis agglutinin (FBA). The lectin was purified by affinity repulsion chromatography on fetuin-agarose and was a monomer of molecular mass 33 kDa. Like other Moraceae family lectins, carbohydrate-binding activity of FBA was independent of any divalent cation. FBA did not bind with simple saccharides, however sugar ligands with aromatic aglycons showed pronounced binding [16].

**Serine Protease:** A serine protease was purified to homogeneity from the latex of medicinal plant *F. benghalensis* by a single step procedure using anion exchange chromatography. The enzyme, named benghalensin, has a molecular mass of 47 kDa (MALDI-TOF and sodium dodecyl sulfate polyacrylamide gel electrophoresis SDS-PAGE). This enzyme has important biological roles in the plant [17].

**Other Constituents:** The bark of *F. benghalensis* also contain certain other constituents for example, alpha-D Glucose and meso-inositol [13].

**Pharmacological Prospectus**

**Hypoglycemic Activity:** *F. benghalensis* (Banyan tree) is one of the common herbs used in Tribal Belts of Midnapur (West) District of Bengal for the treatment of diabetes. A decoction of bark is to be prepared and consumed twice daily in a dose of 40 to 80 ml [18]. So *F. benghalensis* is known to have a considerably good hypoglycemic activity. A dimethoxy derivative of leucocyanidin 3-O-beta-D-galactosyl cellobioside isolated from the bark of *F. benghalensis* Linn demonstrated antidiabetic action. Antidiabetic activity of ethanolic extract of *F. benghalensis* was performed on male albino alloxan-induced diabetic rats. Oral administration of the ethanolic extracts of the fruit, aerial root and bark of *F. benghalensis* for 21 days produced significant hypoglycemia or decrease in blood glucose as 31.73, 18.33 and 28.84%, respectively. The study reveals that the ethanolic extract of the fruits produces maximum reduction in blood glucose level as compared to the extract of aerial root or bark of *F. benghalensis*. Histopathological studies were made for both untreated and treated diabetic rats. Untreated diabetic rats showed almost complete destruction of pancreatic beta cells due to alloxan. Diabetic rats which were treated with ethanolic extract of the fruits showed almost normal cells. It seems that extract either protected the cells from the toxic effect of alloxan or the cells recovered after the initial injury [19]. In 2009, a study was conducted to reveal the antihyperglycemic activity of alpha-amyrin acetate (alpha-AA) isolated from the aerial roots of *F. benghalensis* in normal and diabetic rats and in models of type-2 diabetes that is, db/db mice. The oral administration of alpha-AA significantly improved the diabetic condition in streptozocin-induced diabetic rats at 50 mg/kg dose level [20].

**Hypolipidemiac Activity:** The water extract of *F. benghalensis* bark has been reported to possess hypcholesterolaenic and hypolipidaemic effects [21]. In 1995 hypolipidemic effect of water extract of the bark of *F. benghalensis* was investigated in alloxan induced diabetes mellitus in rabbits. Treatment for one month (50 mg/kg body weight/day) brought down the level of total serum cholesterol (TC) in subdiabetic and diabetic rabbits from 82±11 and 118±10.6 mg% to 42.7±3.1 mg% and 51.7±4.7 mg%, respectively. Low density lipoprotein cholesterol and very low density lipoprotein cholesterol also came down [22].

**Anthelmimic Activity:** The anthelmimic activity of methanolic, Chloroform and petroleum extracts of the roots of *F. benghalensis* was observed on Indian adult earthworms. Preliminary Phytochemical analysis showed the presence of carbohydrates, flavonoids,
amino acids, steroids, saponins and tannins like phytoconstituents in the extracts of *F. benghalensis*. Some of these phytoconstituents may be responsible to show a potent anthelmintic activity. From the observations made all the extracts of roots of *F. benghalensis* was found to show a potent anthelmintic activity [23].

**Anti-inflammatory Activity:** Ayurvedic practitioners in India are using the milky juice (latex) of stem bark of *F. benghalensis* for the treatment of rheumatism and other inflammatory diseases [24]. A study was designed to demonstrate the anti-inflammatory activity of the methanolic extract of FB (MEFB) and possible mechanisms of its anti-inflammatory activity. MEFB inhibited the carrageenan induced edema. It is likely that it elicits its anti-inflammatory response by inhibiting the synthesis and release of prostaglandins, proteases and lysosomal enzymes like non-steroidal anti-inflammatory drugs [25]. Anti-inflammatory activity of MEFB is due to its multiple effects on mediators of inflammation, lysosomal enzymes, oxidative stress and vascular permeability. Myeloperoxidase (MPO) is enzyme present in neutrophils, monocytes and macrophages at lesser concentration. The level of MPO activity is directly proportional to neutrophils concentration in inflamed tissue. MEFB decreases MPO activity in edematous tissues. MEFB has an inhibitory effect on malondialdehyde (MDA) which is an index of lipid peroxidation and shows that anti-oxidant activity of MEFB contributes to a great extent to its anti-inflammatory activity [26].

**Antibacterial Activity:** In 2007, aqueous and Ethanolic extracts of *F. benghalensis* were investigated for antibacterial activity against *Pseudomonas aeruginosa*, *Proteus mirabilis*, *Staphylococcus aureus*, *Bacillus cereus*, *Alcaligenes faecalis* and *Salmonella typhimurium*. The Ethanolic extract showed considerable antibacterial activity against *Pseudomonas aeruginosa*, *Proteus mirabilis* and *Bacillus cereus*. It also showed certain antibacterial effects against *A. faecalis* and *S. typhimurium* but it was inactive against *S. aureus*. Aqueous extract of *F. benghalensis* had no antibacterial activity against any of the six bacterial strains investigated. From the results of experiment it was concluded that ethanolic extract of *F. benghalensis* has great potential as antimicrobial compound against microorganisms and it can be used for the treatment of infectious diseases caused by resistant microorganisms [27].

**Actinomyces viscosus** belongs to group of Actinomycetes. It is gram positive, aerobic, non sporning rod shaped bacteria. It is frequently encountered in high proportion of smooth tooth surface and gingiva. Various experiments were performed to check the antibacterial activity of *F. benghalensis* against a viscosus. These show that the extract of *F. benghalensis* bark of 0.08 mg/ml to 0.1 mg/ml have better antibacterial activity [28].

**Immunomodulatory Activity:** The aqueous extract of the aerial roots of *F. benghalensis* was evaluated for its effect on both specific and non-specific immunity. This extract exhibited a significant increase in percentage phagocytosis by human neutrophils in the in-vitro tests. It exhibited promising immunostimulant activity at doses of 50, 100, 200 and 400 mg/kg body weight in sheep red blood cells (SRBC), induced hypersensitivity reaction and hemagglutination reaction in rats. The aqueous extract was found to stimulate the cell mediated and antibody mediated immune responses. Per oral administration of the aqueous extract for five days produced a dose related increase in early (4 h) and delayed (24 h) hypersensitivity reactions in rats. The maximum response was observed at a dose of 100 mg/kg. Increase in the dose beyond 100 mg/kg did not result in further increase in the immune response [29].

**Antistress and Antiallergic Activity:** Taur et al screened various extracts of *F. benghalensis* for its antiallergic and antistress potential in asthma by milk-induced leukocytosis (antistress effect) and milk-induced eosinophilia (antiallergic effect). [30] Aqueous, ethanolic and ethyl acetate extracts showed significant decrease in leukocytes and eosinophils while petroleum ether and chloroform extracts were inactive. This shows the application of polar constituents of *F. benghalensis* bark as antistress and antiallergic agents in asthma.

**Antioxidant Activity:** Antioxidants protect the body against oxidative stress by neutralizing free radicals and reactive oxygen species (ROS) for example, superoxide radicals, hydroxyl radicals, hydrogen peroxide radicals, etc. Body has antioxidant defense system (AODS) that include superoxide dismutase (SOD) and catalase, etc. Sometimes prolonged exposure to infection may result in irreversible oxidative damage to the body and the body needs exogenous supply of antioxidant from some natural sources. Flavonoids, flavonols and terpenoids are favorite choices among natural antioxidants. Antioxidant activity and phenolic contents of *F. benghalensis* extract of the aerial roots of *F. benghalensis* shows the application of polar constituents of extract of the aerial roots of *F. benghalensis*.
was observed [31]. In their experiment aqueous extract of fresh aerial roots of *F. benghalensis* showed good antioxidant activity due to the presence of phenolics and flavonoids. Phenolics are the phytochemicals that provide natural intake of antioxidants. Out of all phenolics, flavonoids have diphenyl propane structure with different degrees of oxidation, hydroxylation and substitution. They normally occur in plants as glycosides and are a rich source of antioxidant. They found that *F. benghalensis* showed high flavonol to total phenolics ratio and high flavonoid to total phenolics ratio but it exhibited very low antioxidant activity. It might be due to the presence of certain other factors which could impede antioxidant efficacy of flavonoids in root extract of *F. benghalensis* [31]. A research on the antioxidant potential of various central medicinal plants explored that the maximum antioxidant activity is exhibited by the aerial roots of *F. benghalensis*. Phytochemical assay showed the presence of flavonoids and tannins that might be responsible for the antioxidant activity of *F. benghalensis* [32].

**Analgesic and Antipyretic Activity:** Many attempts have been made to study various pharmacological actions of this plant especially its analgesic and antipyretic activity. They utilized albino rats to check analgesic activity of *F. benghalensis* and antipyretic activity was studied in Brewer’s Yeast induced pyrexia in rats. To study analgesic activity the rats were kept on fasting for 24 h. Then aqueous, ethanol, chloroform and petroleum ether extracts of *F. benghalensis* and also aspirin were administered orally (100 mg/kg) 60 min prior to the commencement of the reaction time. Finally the animal models were subjected to hot plate and tail immersion analgesic activity. The ethanolic extract showed more significant analgesic activity as compared to other extracts. In case of antipyretic activity animals were fevered by injection of Brewer’s Yeast suspension (10 mg/kg) subcutaneously in back below the nape of neck. All above mentioned extracts were fed to fevered rats. Ethanolic extract showed significant decrease in elevated body temperature while other extracts did not show the significant decrease in elevated body temperature. So it is concluded that ethanolic extract of *F. benghalensis* shows analgesic and antipyretic activity similar to those observed for non-steroidal analgesic drug aspirin. The phytochemical analysis showed the presence of flavonoids, alkaloids, triterpenoids and tannins that might be responsible for its activity [33].

**Antidiarrhoeal Activity:** Ethanol extract of four different plants of the Khatra region of the Bankura district of West Bengal, India were evaluated for antidiarrhoeal activity against different experimental models of diarrhea in rats. The extracts of *F. benghalensis* Linn (hanging roots) showed significant inhibitory activity against castor oil induced diarrhea and PGE2 induced enter pooling in rats. The extract also showed significant reduction in gastrointestinal motility in charcoal meal tests in rats. The results obtained show its medicinal use as antidiarrhoeal agent [34].

**Antitherogenic Activity:** One month treatment of alloxan diabetic dogs with a glycoside, viz. leucopelargonin derivative (100 mg/kg/day) isolated from the bark of *F. benghalensis* decreased fasting blood sugar and glycosylated hemoglobin by 34 and 28%, respectively. Body weight was maintained in both the treated groups while the same was decreased significantly by 10% in the control group. In cholesterol diet fed rats, as the atherogenic index and the hepatic bile acid level and the faecal excretion of bile acids and neutral sterols increased, the HMGCoA reductase and lipogenic enzyme activities in liver and lipoprotein lipase activity in heart and adipose tissue and plasma Lecithin-Cholesterol Acyltransferase (LCAT) activity and the incorporation of labeled acetate into free and ester cholesterol in liver decreased significantly [35].

**Antidiabetic and Ameliorative Activity:** *F. benghalensis* bark aqueous extract (500 mg/kg body weight/day) decreased the levels of serum electrolytes significantly (F > 0.05; p < 0.001) in streptozotocin (STZ) induced diabetic rats. Histological examination of pancreas of the STZ induced diabetic rats showed significant changes in the morphology of pancreatic cells including mild swelling and inflammation. Oral administration of *F. benghalensis* bark aqueous extract (500 mg/kg body weight/day) reduced the inflammation and swelling in pancreatic tissue and restored the levels of serum electrolytes, glycolytic enzymes and hepatic cytochrome P-450 dependent enzyme systems and decreased the formation of liver and kidney lipid peroxides at the end of 12 weeks. This suggests antidiabetic and ameliorative potential of *F. benghalensis* [36].

**Wound Healing Activity:** Since ancient times various herbs and medicinal plants have been of medicinal importance for treatment of different ailments. One of these is wound healing activity.
Wound healing process holds various steps which involve coagulation, inflammation, formation of granulation tissue, matrix formation, remodeling of connective tissue, collagenization and aquisation of wound strength. Research on wound healing drugs is a developing area in modern biomedical sciences. Scientists who are trying to develop newer drugs from natural resources are looking toward the Ayurveda, the Indian traditional system of medicine. Several drugs of plant, mineral and animal origin are described in the Ayurveda for their wound healing properties under the term Vranaropaka. Most of these drugs are derived from plant origin. Some of these plants have been screened scientifically for the evaluation of their wound healing activity in different pharmacological models and patients, but the potential of most remains unexplored. In a few cases, active chemical constituents were identified. Some Ayurvedic medicinal plants, namely, FB, Cynodon dactylon, Symplocos racemosa, Rubia cordifolia, Pterocarpus santalinus, Ficus racemosa, Glycyrrhiza glabra, Berberis aristata, Curcuma longa, Centella asiatica, Euphorbia neriifolia and Aloe vera, were found to be effective in experimental models. For wound healing activity, leaf powder of F. benghalensis is mixed with coconut oil and applied topically on the affected places to treat the wounds. Dosage is once a day for 3 days.

**Growth Promoting Activity:** The growth promoting potential of alcohol and aqueous extracts of young prop roots of F. benghalensis, a medicinal plant widely used among the tribes of the Western zone of Maharashtra state, India to increase height was studied. Its growth promoting effect was evaluated in one-month-old immature female rats. Extracts were administered to young rats for 30 days. Significant (p < 0.05) increase in body weight was observed in alcohol and aqueous extract treated immature female rats. Animals treated with alcohol extract showed statistically significant difference (p < 0.05) in parameters such as mean food consumption, total body length and increase in alkaline phosphatase levels, a biochemical marker for bone formation. Significant results were not observed in other parameters such as feed efficiency, tail length, relative organ weight, bone density, tibial epiphyseal cartilage width and bone hydroxy proline levels. The results obtained establish the efficacy of the plant material as well as importance of chronic studies to justifiy the use of this plant in growth promotion.

**Bioactivity:** The fruit extracts of various Ficus species including *F. benghalensis* were screened for bioactivity. All the extracts exhibited antitumor activity in the potato disc bioassay. None of the tested extracts showed any marked inhibition on the uptake of calcium into rat pituitary cells GH4C1. The results of this preliminary investigation support the traditional use of these plants in folk medicine for respiratory disorders and certain skin diseases.

**Toxicological Study:** It has no toxicity on human consumption. Latex of both exhibit toxicity to the growth of Penicillium citrinum and suppress the production of citrinin to different extents. Plant extract is 100% toxic to Epidermophyton floccosum and Microsporum gypseum. Plant has significant antibacterial activity.

**Conclusion:** This review article comprised of plant description, phytochemical constitution, pharmacological prospeus and toxicological study of *F. benghalensis* Linn. (Moraceae), a medicinal plant found throughout India. This plant has a great medicinal value as it has been reported to have versatile phytochemical constituents including ketones, flavonoids and flavonoids, terpenoids, coumarins, esters, carbohydrates, serine protease. It has pharmacological activities such as antidiabetic, hypolipidemic, anthelmintic, antibacterial, immunomodulatory, antistress and antiallergi, antioxidant, antiinflammatory, antiatherogenic, wound healing and growth promoting. Thus the plant has great medicinal and commercial potential for humans.

**References**

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