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A review on phytochemical and pharmacological activities of some ethnomedical plants used by tribal and folk peoples of Andhra Pradesh in animal health care
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Abstract

Folk people are the main natives of the countryside and forests. They are always being much closed to nature. They are fully dependent on their surroundings for their basic needs. Even during diseased conditions, they mainly rely on the use of traditional medicines available in their surroundings. They believe in trees as God and use their products for their wellbeing. They have full belief in nature and their belongings. They utilized locally available plants and other natural materials for the treatment of several diseases. But this knowledge of traditional medicines is found to be confined only up to tribes and folk people of the society. Thus, it is required that such useful knowledge about indigenous medicines should be documented, popularized, and systematized for the welfare of human society. The present paper is an effort to reveal the importance of ethno medicines for tribes as well as the whole society.

Introduction

India is endowed with a rich biological heritage and possesses more than 53m tribal people belonging to 300 tribal communities, constituting about 8% of the total population of the country. The tribal knowledge regarding use of plant species for various purposes depend on the surrounding plants. With the process of civilization and urbanization rapidly advancing, there is an imminent damage of losing forever these valued treasures of information. Concurrently, the knowledge about ethnic therapies should also be restored and maintained, as this provides enormous data regarding the medicinal properties of plants not known to the modern men [2-4]. In Andhra Pradesh, the mean daily maximum temperature is about 40°C and the mean daily minimum temperature is about 26°C. During the cold season, the night temperature may sometimes go down to about 6°C [5]. The forests are of southern tropical dry deciduous type and account for 9.9% of the total geographical area [6]. Plant crude drugs, which include 80 plant species of 72 genera representing 47 families of Magnoliophyta have been in use as traditional medicine for myriad of diseases and disorders in AP. Of these, Asclepiadaceae, Amaranthaceae and Caesalpiniaaceae are the dominant families. The available information on

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ethnomedicine (human and veterinary) is not only scanty but also scattered for Andhra Pradesh in general and Medak district in particular [7-13].

Methodology
This information based on various medicinal plant database and journals for this purpose, aged ethnic male cum owners of cattle, goat and sheep, besides the local Vaidya’s and elderly people, whose empirical knowledge was respected by everyone in the area, were interviewed. Data on local name of folk drug plants, parts used, methods of preparation, dosage recommended, and precautions (if any) were recorded. Medicine men were requested to accompany in the field to facilitate the identification of different plant drugs specially employed by them to treat the diseases. The information was also discussed with different medicine men in other localities to validate the claims as far as possible. Based on the information and material provided by medicine men, the weight measurements in dosage forms were determined by using a scale either in the field or camp and names of all key informants were noted [14]. In the preliminary study, many angiosperm medicinal plants have been collected, identified and confirmed with herbarium of Botanical Survey of India (BSI), Coimbatore [15, 16]. All the medicinal plants, following standard methods have been housed in the Herbarium of the Laila Research Centre, Vijayawada, and Andhra Pradesh for further reference [17].

*Abutilon indicum* (L.) Sweet, (Malvaceae), Botlabenda, Gotlabenda
*Uses*: For curing leucorrhoea, leaves and stem bark are chewed and the sap is swallowed. Leaf paste is soaked in pudding in a mud pot, tied with lid, soaked pot kept in soil for 3 days for fermentation and fermented leaf extract is administered daily twice for three days. During diarrhoea, stem bark extract is administered daily thrice for three days and in abdominal diseases, leaf paste is administered orally twice in a day.

*Aeglemarmelos* (L.) Correa. (Rutaceae), Bilva, Patri, Maaredu.
*Uses*: For treating ulcers and maggot infested sores, leaf paste is used as an external application; for anthrax, leaf extract is administered with sufficient quantity of garlic paste daily once for three days. During bone fracture, paste prepared from stem bark extract with pepper and kunsuma (Carthamus tinctorius) oil is applied over fracture area and tied with bandage twice in a week for a fortnight. For retained placenta, decoction of leaves with those of Tellavavili (Vitex negundo) and sesamum seeds is administered orally. For the treatment of opacity of cornea, leaves along with those of Dolichandrone falcata, pinch of common salt and turmeric crushed with goat’s milk is used as an eye drop twice a day until it is cured.

*Ageratum conyzoides* L., (Asteraceae), Ganagaaju
*Uses*: For kidney stones, leaf extract is administered twice a day.

*Argemonemexicana* L., (Papavraceae), Vuluvanjel, Jerriportumokka
*Uses*: For eye diseases, latex is applied to the eyes; for skin diseases, latex is used as a lotion while in leucoderma, latex used as an external application. For red leucorrhoea, root extract with cumin seeds and sugar candy is administered daily once for four days.

*Barleriaprionitis* L., (Acanthaceae), Gattugolmiti, Poddupulupupoolu
*Uses*: For curing leucorrhoea, leaves and stem bark are chewed and the sap is swallowed. Leaf paste is soaked in pudding in a mud pot, tied with lid, soaked pot kept in soil for 3 days for fermentation and fermented leaf extract is administered daily twice for three days. During diarrhoea, stem bark extract is administered daily thrice for three days and in abdominal diseases, leaf paste is administered orally twice in a day.

*Biophytumsensitivum* (L.) DC., (Oxalidaceae), Atipatti
*Uses*: For curing body pain, whole plant paste is applied externally as an ointment. To increase sexual vigour, seed extract is administered daily once for a fortnight. For curing mouth ulcers, leaves are chewed and sap is swallowed; for oedema, seed paste is taken daily once until it is cured while during toothache, leaf paste is applied over the affected area.

*Biophytmum sensitivum* (L.) DC., (Oxalidaceae), Atipatti
*Uses*: For curing leucorrhoea, leaves and stem bark are chewed and the sap is swallowed. Leaf paste is soaked in pudding in a mud pot, tied with lid, soaked pot kept in soil for 3 days for fermentation and fermented leaf extract is administered daily twice for three days. During diarrhoea, stem bark extract is administered daily thrice for three days and in abdominal diseases, leaf paste is administered orally twice in a day.

*Buchananialanzan* Spreng., (Anacardiaceae), Gattugolmiti, Poddupulupupoolu
*Uses*: For curing body pain, whole plant paste is applied externally as an ointment. To increase sexual vigour, seed extract is administered daily once for a fortnight. For curing mouth ulcers, leaves are chewed and sap is swallowed; for oedema, seed paste is taken daily once until it is cured while during toothache, leaf paste is applied over the affected area.

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Caesalpinia bonduc (L.) Roxb., (Caesalpiniaceae), Gaccha.
Uses: Seed paste is administered daily twice for a week as anthelmintic. During fever, decoction of tender tips is administered daily twice; during paralysis, slightly warmed leaf decoction is poured over the affected area daily twice.

Capparis sepiaria L., (Capparaceae), Nalluppi
Uses: During backache, stem bark extract is administered daily twice for a week; for external tumours and boils, leaf paste with garlic, a pinch of common salt and turmeric powder is used externally daily once for five days.

Capparis seyanica L., (Capparaceae), Adonda
Uses: During diabetes, ripe fruits are consumed daily twice for a fortnight and during indigestion, stem bark extract is administered thrice daily.

Cassia fistula L., (Caesalpiniaceae), Rela, rella
Uses: During rheumatic pain, flower extract is administered daily once for a fortnight; flower paste is administered daily once for one month as general tonic; during insect bite, stem bark paste is applied over reddening area.

Cassia occidentalis L., (Caesalpiniaceae), Peddachennangi, Advichennangi
Uses: During indigestion, leaf extract is administered twice or thrice a day, until relief; leaf juice is applied as a lotion on wounds; leaf juice is used as eye drop and during rheumatic pain, leaf crushed with Plumbago zeylanica (Chitramoolam) root paste is administered with a cup of milk.

Cassia tora L., (Caesalpiniaceae), Tailancha, Tailanchi
Uses: In maggot infested sores, leaf paste is used as an external application. For external tumours, leaf juice is used as a lotion and in eye diseases in children, leaf paste is applied on eye lids.

Cassytha filiformis L., (Lauraceae), Paachiteega.
Uses: In hydrocele, plant paste used as an external application. During burns, decoction of whole plant boiled in goat urine is applied externally. For easy delivery in cattle, whole plant decoction is administered orally. Plant paste with goat urine is administered and tied with bandage during bone fracture.

Celosia argentea L., (Amaranthaceae), Batukammappuvvu, Gunakakura.
Uses: For thirst alleviation in children, root decoction is administered thrice in a day. During skin diseases, paste of leaves crushed with those of Phyllanthus reticulatus (Nallapulicheru) is applied externally like an ointment. During stomachache, leaves are used as a vegetable.

Chloroxylon swietenia DC., (Flindersiaceae), Tellabisthukku.
Uses: Stem bark paste is used as an external application on wounds. In yoke gall, paste of stem bark ash mixed with kanuga (Pongamiapinnata) oil is applied over the affected area.

Cissus vitisina L., (Vitaceae), Kuddudinnae
Uses: During conjunctivitis, stem bark paste with pepper powder and kusuma oil is used as an external application. In anthrax, stem bark decoction is administered orally, while stem bark paste is applied externally on wounds.

Cleome gynandra L., (Cleomaceae), Talat, Yaminta
Uses: During earache, leaf juice is used as ear drops; during cold, leaf juice is administered daily twice. For inducing fertility in women, leaves crushed with the same quantity of pepper and garlic is administered daily once for three days after completion of menstrual period.

Cocculus hirsutus (L.) Diels, (Menispermaceae), Dusaari, Paathala-bheri.
Uses: Tender leaves are used as a curry during mouth ulcers; during leucorrhoea, leaf juice is taken daily twice until cure while during malaria, leaf juice is administered daily twice for three days. During flatulence in cattle, leaf paste with garlic and pepper is given twice daily.

Cordia obliqua Willd., (Cordiaceae), Iriki.
Uses: During body pain, fruit paste is used as an external application while during diabetes, dry tuber powder is administered daily twice. For inducing fertility in women, leaves crushed with common salt and turmeric powder is used externally on wounds.

Cyperus rotundus L., (Cyperaceae), Chirupungaram.
Uses: Extract of tuber with Abutilon indicum (Botlubenda) leaves and cumin (Cuminumcyminum) seeds is administered daily twice for three days during leucorrhoea. During diabetes, dry tuber powder is administered daily twice.

Dalbergia paniculata Roxb., (Fabaceae), Paacharugu, Pachogi.
Uses: In postnatal complaints, stem bark extract is administered with a pinch of pepper powder daily once for one week. For treating baldness and dandruff, paste of dry stem bark powder mixed with neem oil is applied.

Derris scandens (Roxb.) Bentham, (Fabaceae), Nallateega.
Uses: Leaf juice is used as ear drops during earache. Leaf juice is administered daily in case of general
debility. To increase potency and in nervous diseases, leaf extract is administered daily; during cold, cough and neck pain, leaf decoction is administered with a pinch of pepper powder daily.

**Digeramuricata (L.) Mart.** (Amaranthaceae), Pindikura, Shanchalaaku.

**Uses:** During constipation, leaves used as a vegetable; for kidney stones, tender tips extract is administered daily once until cured.

**Diplocyclospalmatus (L.) C. Jeffrey,** (Cucurbitaceae), Sivadonda, Ningidonda.

**Uses:** During rheumatic swellings in cattle, slightly warmed leaf juice is used as a lotion. In yoke gall, paste prepared from plant stem with Somidi (Soymidafebrifuga) stem bark is used as an external application. During stomachache, seeds crushed with seven peppers are taken orally.

**Diospyroschloroxylon Roxb.** (Ebenaceae), Illinja, Ullintha.

**Uses:** During burns, leaf paste is used as an external application. In rheumatic pain in cattle, leaf crushed with those of Alangium salvifolium (Oodiga) mixed with mud is applied externally. During diarrhoea, leaf paste is administered with one cup of curd thrice in a day.

**Dolichandroneatrovirens (Roth) Sprague,** (Bignoniaceae), Neeruddi.

**Uses:** In ephemeral fever, extract of stem bark crushed with those of Anogeissus latifolia (Chirmanu) is given orally. During oedema, paste of bark crushed with Hygrophilaauriculata (gobbi) leaves, pepper, garlic, turmeric and common salt is used as pickle.

**Enicostemma axillare (Lam.) A. Raynal,** (Gentianaceae), Raeshkha, Resca.

**Uses:** For curing constipation in cattle, plant extract is administered twice or thrice daily. During menstrual pain, leaf extract is administered twice a day for three days; during intermittent fever, whole plant decoction is administered daily once for five days. During horn cancer, whole plant crushed with leaves of Sabja (Ocimum basilicum), roots of Plumbago zeylanica, turmeric and earthworms is administered once a day. For boils, ulcers and wounds in cattle, whole plant paste with garlic and ginger is used externally.

**Ficus hispida L.,** (Moraceae), Bommidi, Buddachettu.

**Uses:** During diabetes, ripe fruits are consumed daily; for ulcers, burns, and wounds, tender leaf juice is used as lotion.

**Gymnemasylvestre (Retz.) R.Br. ex Schult.** (Asclepiadaceae), Podapatri, Teepitiga.

**Uses:** Leaf powder is administered twice daily during gastric trouble; leaf powder is administered daily in diabetes and in eye diseases, leaf juice is used as an eye drop.

**Holopteliaintegrifolia (Roxb.) Planch.** (Ulmaceae), Nemalinaara, Baibadangi.

**Uses:** For rheumatic problems, stem bark extract is administered daily. During body swellings, stem fiber is used as a bandage thread over affected parts; during sprains, stem bark paste is used as an external application. During rheumatism in cattle, stem bark extract is administered daily once for a week.

**Hygrophilaauriculata (Schum.) Heine,** (Acanthaceae), Gotamitti, Neerugobbi.

**Uses:** During body swellings and rheumatism, leaves are used as a curry daily; in oedema, root decoction is administered twice in a daily until cured.

**Ipomoea obscura (L.) Ker.-Gowl.** (Convolvulaceae), Telukondi, Rudraganam.

**Uses:** In ephemeral fever, extract of stem bark crushed with those of Anogeissus latifolia (Chirmanu) is given orally. During oedema, paste of bark crushed with Hygrophila auriculata (gobbi) leaves, pepper, garlic, turmeric and common salt is used as pickle.

**Maytenia annua L.,** (Martyniaceae), Telukondi.

**Uses:** To ward off bed bugs, chopped aerial parts are kept inside the beds; to kill lice and bugs in cattle sheds, plants are strewn in the cattle sheds.

**Mitragyna parvifolia (Roxb.) Korth.** (Rubiaceae), Rudraganam.

**Uses:** During mouth ulcer, tender shoots are chewed and the sap is swallowed. For treating boils and wounds, leaves crushed with those of Ximenia americana (Adavinakker) are used externally. During diarrhoea, tender tips crushed with those of Diospyros chloroxylon (Ullintha), (Ebenaceae) mixed in with curd is administered; during burning micturition, stem bark powder mixed with Phoenix sylvestris toddy (Sendhi) is administered and in epilepsy, paste prepared from root bark crushed with those of Bauhinia racemosa and earthworms is administered daily.
Uses: During insect bite, leaf juice is used as a lotion. Root extract taken daily once in three days during menstrual period acts as an antifertility agent in women. *Pergulariadaea* (Forsk.) Chiov., (Asclepiadaceae), Gutagutta, jitta.

Uses: During cold, flower and fruit extract is administered daily twice for three days; in stomachache, aerial parts extract is administered twice daily. In gout, leaf juice mixed with wheat flour paste is applied and tied with bandage. *Phyllanthusamarus* Schum.&Thonn., (Euphorbiaceae), Nelusiri.

Uses: In case of burning micturition, extract of aerial parts crushed with cumin seeds is taken; pus oozing in ears, aerial parts crushed with cumin seeds and sugar is administered. During ephemeral fever, paste prepared from whole plant crushed with turmeric and common salt is fermented in two litres of toddy for 12 hrs, the fermented toddy is administered daily once for four days. *Phyllanthusreticulatus* Poiret, (Euphorbiaceae), Nallapuscheru.

Uses: Leaf decoction is administered daily once for a week in case of piles. For treating dysentery in cattle, leaf juice is administered thrice a day. *Plumbagozeylanica* L., (Plumbaginaceae), Tellachitramoolamu

Uses: During fever, leaves are used in curry; root paste is applied to check tooth decay. To check sterility in women, decoction of root with garlic, and pepper is administered daily twice. Rice is to be taken with ginger pickle only. *Premnatialifolia* Roxb., (Verbenaceae), Nellikura.

Uses: Twigs are burnt and fumes are allowed inside the house or dried stem soaked in the water are used as mosquito repellent. For rheumatism, tender leaves are used as vegetable. *Premnaatifolia* Willd., (Verbenaceae), Naguru

Uses: During abdominal diseases, stem bark decoction is administered with a pinch of ginger powder; leaf decoction is taken as diuretic. *Pupalialappacea* (L.) Juss., (Amaranthaceae), Antuduchettu, Dubbatitatura, Ganduthereni.

Uses: In case of bone fracture, fresh leaf paste mixed with sesame oil mixture is administered; rat bite and dog bite, plant paste is applied over the bitten area. Stems used as a tooth brush. In yoke galls, plant paste is applied over the affected area. *Sarcostemmaacidum* (Roxb.) Voigt, (Asclepiadaceae), Pudkachaman, pullangi.

Uses: During earache, tender tip juice s used as an ear drop; during burning micturition, plant powder is taken with two cups of toddy; during snakebite, mixture of root crushed with neem stem bark is given orally. *Semecarpusanacardium* L.f., (Anacardiaceae), Jeedi

Uses: In case of whitlow, foot cracks and gout, fruit pulp is applied over the affected area externally; in rheumatism, seed paste is used externally. To induce fertility in women, paste prepared from fruit crushed with garlic bulb, pepper and jaggary, made into three balls is administered daily once for three days in a menstrual period. In case of tapeworms, seed paste mixed with jaggary is administered. *Sidaacuta* Burm.f., (Malvaceae), Katarimannan, Pentapunti.

Uses: For treating body tumours, leaves crushed with turmeric and common salt is used externally. In case of vomiting of mother fed, root extract is given with milk daily once for three days whereas in case of vomiting due to stomachache and uneasiness, root decoction is taken orally. *Sidacordata* (Burm.f.) Borssum, (Malvaceae), Paavani

Uses: During boils and cuts, leaves crushed with those of Seethapalam (Annonasquamosa) are applied externally. *Solanumamericanum* Miller, (Solanaceae), Mutyalachettu

Uses: During body swellings, leaf juice is smeared as a lotion. To induce fertility in women, leaf extract is administered daily once for three days after menstrual period. *Solanumurtattense* Burm.f., (Solanaceae), Rama mulaka, Nelavakudu.

Uses: In case of general debility, fruit powder is administered with a pinch of pepper powder daily and in dog bite, slightly burnt seed paste is used as an external application. *Soymidafebrifuga* (Roxb.) A. Juss., (Meliaceae), Somi, somidi.

Uses: During body pain, paste of tender tips mixed in a cup of Phoenix sylvestris toddy is administered daily twice for a week; in gynaecological disorders, stem bark paste mixed with Phoenix sylvestris toddy is administered daily once for three days. During dyspepsia, stem bark decoction is administered with sugar daily once for five days and in amenorrhea, stem bark decoction is administered daily once for three days. *Streblusasper* Lou., (Moraceae), Tellabarrenka.

Uses: In case of leucorrhoea, stem bark decoction is taken daily twice until cured; in babesiosis, stem bark
extract is administered twice a day until cured. Fruits are eaten by local people.

**Terminaliaalata** Heyne ex Roth., (Combretaceae), Nallamaddi.

**Uses:** During earache, extract of stem bark crushed with the petiole of Borassusflabellifer (taadi) is used as ear drops; during heart pain, stem bark decoction is administered daily once for three days.

**Tinosporacordifolia** (Willd.) Miers ex Hook. f. &Thoms., (Menispermaceae), Baeltiga, Tippateega

**Uses:** In case of bone fracture and wounds root paste is used externally and tied with bandage. During intermittent fever, stem decoction is administered with honey.

**Triumfettarhomboidea** Jacq., (Tiliaceae), Kusanga, Kusangi

**Uses:** In case of yoke gall, root is chewed and sap is spit over the affected part. During galactogogue, fruits are consumed daily once for 1-2 months.

**Tylophoraindica** (Burm.f.) Merr., (Asclepiadaceae), Mekhameyaniaku

**Uses:** Tender stem extract is administered as diuretic. In case of snakebite, root extract is given orally and root pieces are used as a necklace and in case of anthrax, leaves crushed with stem bark of Annonasquamosa (Seethaphal) is given orally. In case of vomiting of poison, fresh leaves crushed with pudding is taken orally and in panting, paste prepared from roots crushed with **Tinosporacordifolia** (Baeltiga) is administered twice a day for a week.

**Ventilagomaderaspatana** Gaertner, (Rhamnaceae), Surgudutiga, Yerrasurgudu.

**Uses:** In case of gout, stem bark paste is used externally and to increase potency, stem bark decoction is administered daily twice for 1-2 months.

**Vitexnegundo** L., (Verbenaceae), Tellavavili, Gajavavili, Aaailli.

**Uses:** During rheumatic pain, body pain and postnatal complaints, leaves boiled in water is used for bathing. Freshly chopped leaves are used as a pillow for killing lice. During migraine and fever, tender tips paste is applied over the temples and forehead. During indigestion in cattle, leaf paste is fed.

**Wattakakavolubilis** (L.f.)Stapf., (Asclepiadaceae), Bandigurja

**Uses:** During rheumatic pain, leaf paste is used externally and in foot cracks, leaf paste with sesame oil is used as a lotion.

**Ximeniaamericana** L., (Olacaceae), Nakkera, Nakkeri

**Uses:** During diabetes, stem bark extract is administered. In maggot-infested sores, seed paste is applied externally. During body pain, stem bark paste is administered with a pinch of pepper powder. In case of tapeworms in children, paste of tender tips is taken daily once for a week and in case of gastric trouble, tender tips paste is administered with one cup of milk. Ripe fruits are eaten by local people.

**Results & discussion**

The knowledge and usage of herbal medicine for the treatment of various human and veterinary diseases and disorders in local villages is still a major part of tribal life and culture. During the interviews, the beneficiaries, elders and residents of the study area agreed to the efficacy of the herbal formulation suggested by the village herbalists. They also point out that allopathic medicines are expensive and have side effects in comparison to the traditional medicine. This might indicate the reason for the dependence of local peoples on traditional medicine. The mode of use of a particular plant species to cure diseases varies from one dialect to another, even within the same district. Interestingly, the same medicinal plant is often used by the village vaidyas in curing different diseases. It has been observed that some plants are known with different names among tribal groups. Therefore, the use of correct botanical names of plants for international communication among the medicine practitioners is also equally important. During the study, it has been observed that species like Aeglemarmelos, Barleriaprionitis, Gloriosasuperba, Gymnemasylvestre, Plumbagozeylanica, *Pseudarthriaviscida*, Ventilagomaderaspatana, Ximeniaamericana, etc. which were once plentiful in Medak are now becoming rare/near threatened. This is due to lack of adequate knowledge regarding judicious exploitation of these plants. In this connection, mass awareness among the tribal populace should be generated regarding conservation of the medicinal plants. They should be educated to develop medicinal plant gardens in the villages, which will not only cater their basic needs but also be a source of income by selling medicinal plants to village Vaidya’s and other plant collectors [18-20]. The importance of the traditional medicine has been realized worldwide as some of them proved to be very effective and some other prescriptions of these traditional healers may be of benefit to human kind when thorough scientific analysis is conducted into their properties [21].
During the study, 80 plant species were reported by the informants for their medicinal uses under 72 genera and 47 angiospermous families. Of the 47 families, 25 represent single species each. The predominant families are Asclepiadaceae with 5 species and, Amaranthaceae and Caesalpiniaceae with each 4 species. Most remedies were taken orally, accounting for 62% of medicinal use, followed by external application. No side effects were reported by the informants as a result of the use of different remedies. The medicine is prepared from leaves and tender tips (94), flower, fruit and seed (46), stem and stem bark (43), root, bulb, rhizome and tuber (36), whole plant (14) and gum and latex (4). The plant species represent 72 genera and 47 families, consisting of 25 trees, 25 herbs, 13 climbers (climbing shrubs, straggling shrubs, woody climbers and climbers), 10 shrubs, 6 under shrubs, and 1 parasite. The tribes depend largely (70%) on herbs and trees for their medicinal needs. The findings of the study need to be explored through further research and the various indigenous practices have to be evaluated by pharmacological validation. The study strongly emphasizes the necessity of proper documentation of the actual healing methods before they are lost forever.

Conclusion
The indigenous system of medicine has its own value and significance from ancient times but the exact knowledge of these traditional medicines are among few hands, which is only transferred by word of mouth. Secondly, due to modernization and industrialization, medicinal plants are getting depleted, which needs to be conserved. Similarly, with invent of new curative methods, old traditional practices are also being in danger of extinction and requires to be conserved, documented and popularized among the society. For the shake of welfare of society, ethnobiology and traditional practices of treatment must be enhanced and popularized. These practices are highly useful, affordable and safe. This is also helpful for the conservation of biodiversity and efficient for the development of new pharmaceutical drug. This is also helpful in filling the gap between past and present system of medicines.

Author Contribution
All authors Contributed Equally.

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