MEDICINAL PLANTS USED IN REPRODUCTIVE PROBLEMS OF KOLAMS OF ADILABAD DISTRICT, ANDHRA PRADESH

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ABSTRACT

An attempt has been made to compile the ethnobotanical utilization of 24 species of medicinal plants related to women reproductive problems used by the Kolam healers belonging to 19 genera of 14 families of angiosperms. The total of 24 remedies were recorded under women reproductive problems. Kolams, Naikpods, Pardhans, Gonds, Thotis, Chenchus and Mathuras are the tribals belonging to Adilabad district. And the traditional knowledge regarding the use of these plants is widely applied to these ethnic groups. After comparative literature analysis, we have found some medicinal uses, which are quite interesting and additions to the existing knowledge base. This plant species need attention on account of their restricted availability, their threatened status and ethnobotanical significance.

Key words: Ethnobotany, Kolams, Adilabad district, Andhra Pradesh.

INTRODUCTION

Since time immemorial human beings have been using plants for their survival and development. In the beginning they were food gatherers and hunters of food, but subsequently concentrated on plants that are useful for other purposes, such as for shelter, health care and artifact. The understanding of the use of plants for food, health care, shelter, agriculture and other purposes got accumulated over generations as traditional knowledge. This knowledge is transferred through orally from one generation to another.

People all over the world are still dependent on the traditional plant based healing practices as it is cheap and easily available. Rural people and tribal communities who live in the forest areas predominantly depend up on locally available medicinal plants to take care of their health and has become an integral part of their culture. Thus the accumulated diversified traditional knowledge has led to the dawn of a science called Ethnobotany.

Although significant amount of ethnobotanical study in many other parts of Adilabad district has been conducted by various workers (Ravishankar, 1990, Sripriya, 2013 and Vinatha Naini, 2013) on “Ethnobotanical studies in Adilabad, Warangal and Karimnagar districts of Andhra Pradesh, India, Madhu (2010) submitted his thesis on “Ethnobotanical studies in Adilabad forest area medicinal plants and community”. Dr. Koppula Hemadri (1994) published Shastravettalanu Akarshistunna giri jana vaidyam. Swamy and NSNS (2008) reported some ethnomedicinal plants used by tribes in the Nirmal forest division, Adilabad District of Andhra Pradesh), in the Adilabad district, negligible amount of work has been carried out on the ethnobotanical documentation of plants used by the ethnic communities. So
far, only a few studies have been carried out on the Medicinal Plants used by the ethnic communities. In fact a large number of Medicinal uses of ethnic communities still await proper documentation. The present study deals with ethnic methods of “art of healing of Reproductive problems” practiced by Kolams of Adilabad district.

The Kolams are considered as most primitive tribal community of the district when compared to Gonds. Kolams are predominantly live in the interior zones of Chinnur, Tiryani and Siripur (u) reserve forest areas. People of Kolam community strongly believe in the effectiveness of their indigenous knowledge of herbal treatment, thus the use of herbal medicine is a first priority among the Kolams, they mostly depend on herbal medicine for their health care, hence they approach the local healers known as vaidyas or pujaris for herbal medicine who have huge knowledge on use of medicinal plants. Kolam healers provide medicine in free of cost; a few of them sell herbs in the local weekly markets to get cash for their livelihood.

Menorrhoea and infertility problems are commonly found among the Kolam women. Kolam women healers have expertise in attending delivery cases and problems arising during deliveries and post delivery medication by using herbal medicine. These women healers play a vital role in handling child births, mother and child health care applications.

**MATERIAL AND METHODS**

**Study area:**
Adilabad district is one of the 23 districts of Andhra Pradesh and situated in the north western corner of the state. The district is situated between $77^\circ.46'$ and $80.01'$, of the Eastern longitudes and $18^\circ.40'$ and $19^\circ.56'$, of Northern latitudes. The district is situated on the northern boundary of Andhra Pradesh, forming a border with the Yeotmal and Chanda districts of Maharashtra on the north, east and western borders, Nizamabad and Karimnagar districts of Andhra Pradesh on the south and west.

Adilabad is known for its significant forests and Adivasi forest dwellers which include various tribal communities existing since centuries and has a strong social, historical and cultural back ground. The tribal community of Adilabad district includes primarily Kolams, Naikpods, Pardhans, Gonds, Thotis, Chenchus and Mathuras.

**Methodology:**
The Present study was conducted during 2011. Regular bimonthly visits were made to nearly 10 habitations belonging to Bellampalli, Chinnur, Ichoda, Jaipur, Jannaram, Kerimeri, Siripur (u), Tiryani, Utnoor and Wankidi Mandals and the villages and habitations like Kolam gudems of Adilabad District. The ethnobotanical information was gathered through interviews and discussion with village headmen, locally well known herbal healers and poojaris belonging to Kolams tribal community of the district who are still practicing traditional medicine. Care was taken, however not to include second hand information without verification and to exclude exaggerated or ‘cooked-up’ information. Data were recorded on the plant parts used, local name, place of collection, process of preparation, mode of administration and dosage. Standard methods of botanical collection and techniques of herbarium preparations were followed as suggested by Jain and Rao (1977); Khanna and Mudgal (1992); K. Srivastava, 2013 and Lingaiah, (2013). Plants have been collected in flowering and fruiting stages for the preparation of herbarium. Herbarium specimens were identified and accessed as per the norms laid down.

The vouched specimens will be deposited in the Herbarium, Department of Botany, Osmania University, Hyderabad.

Observations were made of the plant species with respect to their location and other field characters. The plant specimens were identified using district, regional and state floras like Flora of Adilabad District by Pullaiah et al. (1992), Flora of the Presidency of Madras by Gamble (1921) and other relevant literature.
Treatments for ailments were given according to the diseases recorded. Local terminology of disease names which have been described by healers are noted along with English names in the annexure.

**RESULTS**

From interaction with various local informants of ethnic community, 24 species of plants were collected from the immediate vicinity of the community which uses them in a myriad of ways. Under enumeration, the recent botanical name, synonyms and family name was given. Under Vernacular names Sanskrit, English, Hindi and Telugu names were also given. Voucher specimen collection number, locality and plant description has been recorded for each species. The plant species have been arranged alphabetically. Photographs of plants of their parts collected during field work are presented to authenticate the information accrued.

**Abortion:**
1. *Cissus quadrangularis* L. **Family name:** Vitaceae, **Telugu:** Nalleda, Nalleru, Nallakada. Tender and internodes, leaves are pickled and eaten.
2. *Gloriosa superba* L. **Family name:** Liliaceae **Telugu:** Konda Nabhi, Venkayya puvvu. 10 g bulbs are pounded with same quantity of garlic and given along with one glass of goat milk in early pregnancy.
3. *Moringa concanensis* Dalz. & Gibson. **Family name:** Moringaceae **Telugu:** Munaga. Stem bark is heated and kept on stomach of pregnant women for abortion.

**Easy delivery:**
1. *Ampelocissus latifolia* (Lam.) Planch. **Family name:** Vitaceae, **Telugu:** Pule-teega, adavi draksha. 20 ml leaf juice is given orally for easy delivery.

**Infertility:**
1. *Abrus precatorius* L.(Fabaceae); **Telugu:** Gurivinda. 10 g of seed pulp is pounded along with 50 g jaggery and 50 g seeds of red gram to make 1gm size of pills, 1 pill are given internally for three days starting from fourth day of menstruation
2. *Butea monosperma* (Lam.) Taub. **Family name:** Fabaceae, **Telugu:** Moduga. 5 g inner bark extraction added to a cup of rice washed water with a pinch of zeera powder, two grains rice powder mix is given orally before breakfast for three days during menses period.
3. *Capparis horrida* L.f. **Family name:** Capparaceae, **Telugu:** Adona. 50 ml of stem Bark juice, with sugar is given orally before breakfast, generally on menses period.
4. *Cocculus hirsutus* (L.) Diels. **Family name:** Menispermaceae, **Telugu:** Dussari thega. Leaves are ground adding water, extract is filtered through white cloth, Freshly prepared juice is given orally twice in a day particularly on menses days.
5. *Wrightia tinctoria* R.Br. **Family name:** Apocynaceae **Telugu:** Pala kodisha. 50ml stem bark juice of *Wrightia tinctoria*, and small quantity of inguva mix is given orally before breakfast during active menstrual period, for three days. (**Avoidences:** Brinjal and pumpkin).

**Labor pains:**
1. *Cayratia pedata* (Lam.) Gagnep. **Family name:** Vitaceae, **Telugu:** Erukala sani. Young leaves are pounded in one glass of water and the decoction is given orally in a single dose.

**Leucorrhoea:**
1. *Abrus precatorius* L.(Fabaceae); **Telugu:** Gurivinda. Grind handful leaves to make juice; 20 ml of this juice is given internally twice a day for 3 days.
2. *Cassia auriculata* L. **Family name:** Caesalpiniaceae, **Telugu:** Thangedu. Handful flowers are crushed and mixed with 100 ml of cow milk and given orally to treat white discharge.
3. *Boswellia serratta* Colebr. **Family name:** Burseraceae, **Telugu:** Andugu. Stem bark of *Boswellia serratta*, Shonti, pepper in 2:1:1 ratio are ground together and extracted juice is given orally (10 ml) as a drink, three doses, for three days. (**Diet:** jowar roti with zinger garlic mirch for 10 days).
4. *Ficus tinctoria* Forst.f. **Family name:** Moraceae **Telugu:** Tella barnika. 20 ml stem bark juice is given orally before breakfast for three days. *(Avoidences: Jaggery, brinjal, potato, pomipkin, bottlegourd for a week)* Bark is extracted before sun rise.

5. *Prosopis Cineraria* (L.) Druce. **Family name:** Mimosaceae **Telugu:** Jammi Chettu. 1 tea spoon root bark powder mixed with 100 ml of goat milk is given orally to cure White discharge.

**Menorrhea:**
1. *Butea monosperma* (Lam.) Taub. **Family name:** Fabaceae, **Telugu:** Moduga. 1/2 cup stem bark juice with a pinch of zera powder is given orally for five days, once in a day, before breakfast.

2. *Cocculus hirsutus* (L.) Diels. **Family name:** Menispermaceae, **Telugu:** Dussari thega. Handful leaves are ground to paste adding water, extract is filtered through white cloth, Freshly prepared juice is given orally twice in a day particularly on menses days.

3. *Ficus glomerata* Roxb. **Family name:** Moraceae. **Telugu:** Medi. Take 100 g dried stem bark powder add a spoonful of zeera powder, 100 g of mishri powder, mix well and a tea spoon of it is consumed twice in a day before meals *(Avoidences: chicken, egg etc).*

**Menstrual complaints:**
1. *Cocculus hirsutus* (L.) Diels. **Family name:** Menispermaceae, **Telugu:** Dussari thega Leaves are ground to paste adding water, extract is filtered through white cloth, 50 ml freshly prepared juice is given orally twice in a day particularly on menses days for maternal pain.

2. *Capparis horrida* L.f. **Family name:** Capparaceae, **Telugu:** Adona. 30 ml stem bark juice with sugar is taken orally before breakfast, generally on menses period.

3. *Melia azedarach* L. **Family name:** Meliacea, **Telugu:** Turaka Vepa. 20 ml decoction of the leaves is given orally to young girls to get relief from pain and discomfort during menstruation.

4. *Oroxylum indicum* (L) Vent. **Family name:** Bignoniaceae **Telugu:** Dundillum, Pampini. 2 spoons of stem bark decoction is given orally at night to regulate menstruation.

5. *Pterocarpus marsupium* Roxb. **Family name:** Fabaceae **Telugu:** Vegisa, Pedda Yegi. 50 ml stem bark decoction is given to teenager girls against menstrual complaints.

**Post delivery pains:**
1. *Vitex negundo* L. **Family name:** Verbinaceae **Telugu:** Vavili. Water boiled with young leaves is given for bathing to the women suffering from post delivery pains.

**DISCUSSION**

The Kolams are considered as most primitive tribal community of the district. Kolams are predominantly live in the interior zones of Chinnur, Tiryani and Siripur (u) reserve forest.
areas. People of Kolam community strongly believe in the effectiveness of their indigenous knowledge of herbal treatment, thus the use of herbal medicine is a first priority among the Kolams, they mostly depend on herbal medicine for their health care, hence they approach the local healers known as vaidyas or poojaris for herbal medicine who have huge knowledge on use of medicinal plants. Kolam healers provide medicine in free of cost; a few of them sell herbs in the local weekly markets to get cash for their livelihood.

The author has interviewed 13 Kolam healers, 24 reproductive problems (5 remedies for Leucorrhoea, 5 for infertility, 5 for menstrual problems, 3 for abortion, 3 for menorrhea, 1 remedy each were recorded for post delivery pains, labour pains and easy delivery).

Menorrhea and infertility problems are commonly found among the Kolam women. Kolam women healers have expertise in attending delivery cases and problems arising during deliveries and post delivery medication by using herbal medicine. These women healers play a vital role in handling child births, mother and child health care applications.

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