

Physianthus emacus NAME AND ADDRESS

Chambial components and uses

The genus Phylandius contains Phylianibins and Mypophytianininu as major chamicur componenta, aseful it bealing Hepatite-B. Facest studies show that & amerus has the highest pateent of Phytianthine and Repophytianthine in this complex and is most suitable for treating various types of Joundon, Similarly, studies on 8 debits show befor happing-roadter affect than others.

A recent study on Shumpemetall LIBAPS, 26, 2006; ahous the following quantity of Phyllanthine and Hypophylanthine in Efferent Phylanthus species

Specia	Phylosophia (%)	U/ActroAppropries
A america A debidis A Patternus A primaria	0.8 0.0000 0.31 0.000	6.16 6.066 6.002
		图

Bhompanalaki forma a key coralityani in Aporeado torougations for journalise, urleasy diseases, promispowerhau, chronic dynamicry and paneral liver problems

It is automated that the annual consumption of Miumpamatable in trolle is about 2000 matrix fone.



Phytianthus lensitus

Medicinal Plant Wealth of India



Bhumyamalaki,

widely used in Indian systems of medicine for a wide range of diseases, particularly jaundice, refers to a complex group of herbaceous species of the penus Phylanthus. Bhumyamataki, literally means a miniature 'amia' or 'gooseberry' and derives this name due to the similarity of this group of species to the 'amia' or 'gooseberry' fruits. Other popular names i.e., Xeelaneti (Tamil), Keelar Nees (Malayalam), Nelaneli (Kannada) and Nelaosirika (Telogu) also refers to the herbaceous nature of this plant with fruits on the underside of leaves.

The genus Phyllanthus L. belongs to the family Euphorbiaceae and includes about 800 species. worldwide. In India, the penus is represented by about 40 species, out of which 12 species form a herbaceous complex group. These species are P. aymerlanus Chaughary & Rao, P. amanus. Schum, P. debilis Klen ex Wild., P. fraterius Webster, P. kozhkodianus Sivadasan & Manlul, P. maderaspatensis L., P. rheedii Wight, P. retundifolius Klein ex Willd., P. scabnfolius Hook, f., P. tenellus Rosb. Purinaria L. and Pivingatus Forst f.

Phylianthus niruri V/s Phylianthus amarus

There has been confusion about the botanical nomenciature of Shumyamalaki due to its wrong linkage to Phyllanthus niruri L., a plant found only in the West Indies. The recent studies show that it actually refers to P amonus, a common weed in India. Sometimes it is also correlated to other species of herbaceous Phylanthus complex.

BHUMYAMALAKI COMPLEX

(Herbaceous Phyllanthus)

Identification issues

Even though Shumyamalaki is now correlated to P amorus, yet the apparent similarity between different species of this complex makes it difficult to identity P amonus from its closely related species. Trerefore, the raw material traded as Rhumyamalaki is in fact an inseparable mix of more than one species of this complex.

Distinguishing features

All the 12 species of this group display a range of characteristic features that can help in their identification. Some of such features are the nature of stem, presence and thickening of cataphylis. shape and thickening of atipules, shape of leaves, nature of stamons and male disk, number shape and thickening of female penanth lobes, shape of female disk and style and funercled nature of truits. Sustrations with photographs & line drawings of main distinguishing features. Ike cataphylis stipules, leaves and tensale personth lobes of each species are provided here for easy identification of this complex group.



Phylianthus debilis Asia



Phyllanthus fraternus Asia, Africa & South America



Phyllanthus urinaria Tropical countries



Phylianthus knahlkodianus



Phylianthus retunditative Asia & MINCA



Phylianthus scabrifolius

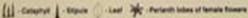


Phyllanthus maderaspatensis Asia



Phyllanthus ringelus South Asia, Australia & Pacific Islanda

Fig. 1 and 8. Pertaith lobes 5 (in others 8) Fig. 8 to 10: Cataphylia abaset (in athers present)



ielding medicinal plants

ne immemorial dyes of plant origin rendered color to the ndian tradition dyes play a significant role in religion, culture, and social fabric. Yellow is associated with sanctity, prosperity s. No religion ceremony is complete in India without Haldiilarly Red is a color of awakening, activity and sacrifice and yellow, Rubia cordifolia – Madder.

base on medicinal plants of India has more than 6000 medicinal and of it more than 325 species are known to be source of

rielding plants are used prominently for medicinal purpose, as , dyeing textiles, paintings, mural paintings, toys (safe for festivals and culture and cosmetics etc. All dyes require a fixative which are the nature of inorganic material.

and ancient architectures such as Mural paintings at Ajanta getable fibres, paddy husk, grass, other organic material and nd in their paintings. Vegetables and fruits such as onion skins, n, walnut, grape juice, strawberries, beet root juice are used to which are used in coloring food, textiles and wool.

ye yielding medicinal plants are also having therapeutic ood colors from plant materials is intensively researched today and recommended in medicines and dietary supplements. The lants have been used from time immemorial and surprisingly ocus sativus, Indigofera tinctoria, Bixa orellana, Caesalpinia onia inermis, Tagetes erecta, are not of indian origin but exotic.

s of both exotic e yielding plants ed below:

present species with medicinal d till recent past used to yield s of dve.



Medicinal Tag: AFTUS Uses: For dyeing wool, cotton, leather and staining other woods. Orange and red colorant for food and beverage industry. Distribution: Endemic to Andhra









MEDICINAL PLANT WEALTH OF INDIA



Acacia catechu (Mimosaceae) Local Name: Khadira Katha Part Used: Wood Dye: brown, yellow, grey and blac Medicinal Tag: AUS Uses: This dye is used for dyeing cotton, wool and silk. Katha (dye) is an indispensable ingredients of paan preparation. Katha also is used in calico Distribution: India, Pakistan, Nepal and Myanmar, Bangladesh, South





Dye: Red Medicinal Tag: AFHS Uses: The tribal women used to olor their lips and in turn it takes are of lips too. Thus called lipstick ree. It is used as food colorant and in cosmetics industry



Distribution: Native of Tropical



Medicinal Tag: AFTUS













Crocus sativus (Iridaceae) Local Name: Saffron Part Used: Style and Stigma Medicinal Tag: AFHTUS Uses: For flavouring and imparting yellow colour to foods. Distribution: Native of south









Curcuma longa (Zingiberaceae) Local Name: Turmeric Part: Rhizome Dve: Yellow dve Medicinal Tag: AFHTUS Uses: Used to color food preparations, pickles onfectionaries and drinks. Distribution: Cultivated in India





Parts Used: Seeds, Pods

Dve: Red/ Yellow/ Orange

Uses: Coloring food stuffs. Also

used as sindhur/ kumkum by

Distribution: Indo-Malesia to

romen. Also used in Holi.

Medicinal Tag: AHFUS



Eclipta alba (Asteraceae) Local Name: Brngaraja Medicinal Tag: AFTUS Uses: Used for darkening of hair. Distribution: Native of South























Local name: Pomegranate

Medicinal Tag: AFHTUS

Part used: Bark, fruit, rind and

Uses: Used for dyeing wool & silk.



Local Name: Manieestha, Indian Part used: Root/Stem Dve: Red/Scarlet Medicinal Tag: AFTUS Uses: Used for textile dveing & food colouring Distribution: Asia, Africa and





Morinda tinctoria (Rubiaceae) Local Name: Aal, Indian Mulberry Part Used: Root Dye: Red, purple Medicinal Tag: F5 Uses: Used for dyeing cotton, silk, Distribution: Indo-malesia



Dye: Red Uses: Used as vools, oils an preparations. Distribution:







Part Used: Ba

Dye: Red, Pur



Local Name: Haritaki/ Myrobalans Parts used: Fruit and bark Dye: yellow to black dye Medicinal Tag: AHTUSF Uses: Used as standard writing ink n the ancient days Distribution: Indo-malayan











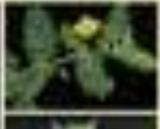




Medicinal Plant Wealth of India





















Medicinal Plant Wealth of India FRLHT





Today there is a definite trend to lean back to nature and dental care is one step in that direction. Toothbrush was used by the Babylonians some 7000 years ago; it was later used throughout the Greek and Roman empires, and has also been used by ancient Egyptians and Muslims. People have used chewing stick for oral hygiene, religious and social purposes. It is used not only to clean teeth but also gums. Indian medicine Ayurveda has used Neem as an important tree to create toothbrushes. Miswak is usually obtained from the roots of Salvadora oleoides known as "Miswak" or "Arak" or "tooth brush tree". At times some sticks are made from its branches and bark. It was widely used since the time

The beneficial effects of toothbrush in respect of oral hygiene and dental health are partly due to its mechanical action and partly due to pharmacological actions.

of Prophet Mohamed who himself used it and appreciated its use in 570-632 AD.

HERBAL TOOTHBRUSH

Herbal toothbrush is known to prevent tooth decay, eliminate toothaches and halt the increase of tooth decay that has already set in. Furthermore it is known to eliminate bad breath, improve sense of taste and cause the teeth to glow and shine. Teeth cleaning twigs can be obtained from a variety of plant species.

Few examples of the plants along with their part used and uses across the country are given below:



Acacia nilotica (Mimosaceae) Young stem - Tooth ache & Gum disorders



Achyranthes aspera (Amaranthaceae) Stem & Root - Gum disorders & Gingivitis



Alangium salvifolium (Alangiaceae) Young stem - Foetid breath



Azadirachta indica (Meliaceae)



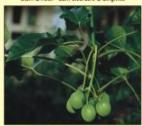
Cocos nucifera (Arecaceae)



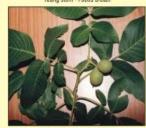
Ficus benghalensis (Moraceae)



Glycosmis pentaphylla (Rutaceae)



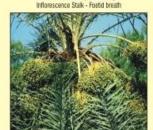
Jatropha curcas (Euphorbiaceae) Young stem - Foetid smell & Mouth ulcer



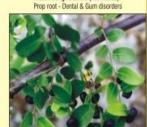
Juglans regia (Juglandaceae) Stem bark - Tooth ache & Dentifrice



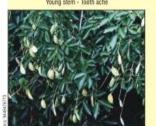
Mangifera indica (Anacardiaceae)



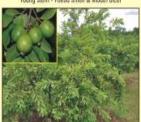
Phoenix sylvestris (Arecaeae) Petiple - Tooth ache



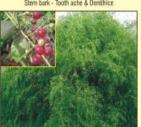
Phyllanthus reticulatus (Euphorbiaceae) Young stem - Bleeding gum



Pongamia pinnata (Fabaceae) Young stem - Strengthening gums & Dentifrice



Psidium quajava (Myrtaceae) Young stem - Bleeding gum & Dentifrice



Salvadora oleoides (Salvadoraceae) Young stem - Pyorrhoea, Foetid breath & Dentifrice



Thespesia popoulnea (Malvaceae) Young stem - Tooth ache



Wrightia tinctoria (Apocynaceae) Young stem - Tooth ache



Zanthoxylum armatum (Rutaceae)

Let us all join hands in conserving our nature's wealth for human health

Causes for kidney stones

The causes are multi-factorial as there are genetic predispositions, climatic conditions, water indicators and other dietary factors. The most important thing is the intrinsic metabolic contribution to the formation of these stones. Certain substances in urine crystallize and concentrate to form solid deposit known as renal calculi (Latin: renal=kidney, calculi=pebbles).

Different types of kidney stones

The most common renal stones are "calcium oxalate". Apart from this, the other components of stones are magnesium ammonium phosphate and uric acid.

Plants used in folk traditions for treating renal calculi (Kidney stones)

The households among various ethnic communities across the country use different plants to treat kidney stones, for example:

- Seeds of Kulatthah/Horse-gram [Macrotyloma uniflorum; Fabaceae]
- 2. Pseudo stem of Kadali/ Banana [Musa paradisiaca; Musaceae]
- 3. Seeds of Methi/ Fenugreek [Trigonella foenum-graecum; Fabaceae]
- 4. Seeds of Kasani/ Chicory [Cichorium intybus; Asteraceae]





Modern treatment

Lithotripsy is the modern medical treatment given to break kidney stones using ultrasound waves.

Medicinal Plant Wealth of India



पाषाणभेदकोऽरुमघ्नो गिरिभिदभिन्त्योजनी । (भा.प्र.) पाषाणभेदकोऽञ्मध्नः शिलाभेदोऽञ्मभेदकः ।

In Ayurveda "Pashanabheda" (pashana = stone; bheda = to break) is used to disintegrate the stones or calculi in kidney as it possesses lithotriptic property.

Raw drug description

Pashanabheda consists of short, transversely cut pieces of rhizomes, varying from 0.7 to 2.5 cm in length which are buffbrown outside and pinkish brown inside. They are transversely wrinkled or irregularly shriveled with exfoliating, thin bark, having rootlets or thin scars, buds and scaly leaves. It has slightly camphoraceous odour and acrid taste.

PASHANABHEDA

The drug is reported to possess lithotriptic, astringent, tonic, antiscorbutic and laxative properties. It is reported to be used for the treatment of pulmonary affection, dysentery, ulcers, dysuria, spleen enlargement, cough and fever.

Plants correlated

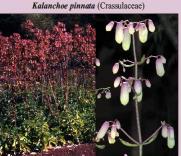
Different plants are used as Pashanabheda in different parts of India. The classical texts and ethno-botanical literature in the past 100 years correlate 8 medicinal plant species, which are illustrated below:













Ocimum basilicum (Lamiaceae)



Bridelia montana (Euphorbiaceae)

Rotula aquatica (Boraginaceae)



