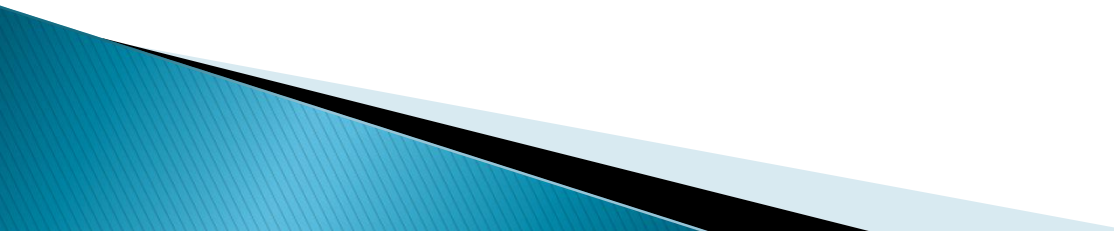


KALAPANA NIRMANA III

Kshar Kalpana & Preparation of Ksharsutra



CO1,CO2,CO 3	Describe sharkara kalpana along with preparation method of Syrup.Explain therapeutic importance of prepared sharkara kalpana along with its shelf life.	PO1,PO3,PO4, PO5, PO6,PO7,PO8
CO1,CO2,CO 3	Describe Gudapaka preparation method with its confirmatory tests and precautionsExplain therapeutic importance of prepared Gudapaka along with its shelf life.	PO1,PO3,PO4,P O5, PO6,PO7,PO8
CO1,CO2,CO 3	Describe Lavana kalpana preparation method with its confirmatory tests and precautionsExplain therapeuticimportance of prepared Lavana kalpana along with its shelf life and packaging techniques.	PO1,PO3,PO4,P O5, PO6,PO7,PO8
CO1,CO2,CO 3	Describe Kshara kalpana preparation method with its confirmatory tests and precautionsExplain therapeutic importance of prepared Kshara kalpana and Ksharasutra integration with Shalya tantra department along with its shelf life and packaging techniques.	PO1,PO3,PO4,P O5, PO6,PO7,PO8
CO1,CO2,CO 3	Describe Ayaskriti kalpana preparation method with its confirmatory tests and precautionsExplain therapeutic importance of prepared Ayaskriti kalpana along with its shelf life and packaging techniques.	PO1,PO3,PO4,P O5, PO6,PO7,PO8
CO1,CO2,CO 3	Describe Lepa kalpana preparation method with its confirmatory tests and precautionsExplain therapeutic importance of prepared Lepa kalpana, integration with Kayachikitsa and Panchakarma department along with its shelf life and packaging techniques.	PO1,PO3,PO4,P O5, PO6,PO7,PO8

Definition

- ▶ The process involved in the extract of alkali is known as Kshara kalpana.
- ▶ According to Susrut-By performing action like Ksharan (cutting) & Kshanan (to dissolve), it is termed as Kshar.
- ▶ According to Bhava Mishra- Kshar is equal to Agni & cures gulma and shula.
- ▶ According to Carak- Kshar has ksarana property and it gradually cuts the kaphaj gulma & brings it down wards.

Properties of Kshara

- **Carak:** Kshar is tikshna, ushna,laghu,ruksha, Kledana,pachan,vidaran,dagdhakara,dipana,chedana & agni sannibha.
- **Sushruta:** Kshar is not atitikshna, not atimrudu & it should be shukla, slakshna,picchila, avishandi,siva & shighra in actions.
- **Vagbhat:** Nati tikshna, Mridu, Slakshna, Picchil, Sighrag, Sita,Sikhari, Sukhanirvapyya,Avishandi, Natiruk

Types of Kshar (according to use)

- ▶ **Pratisaraniya** - Used externally
 - a. Mridu : Pittaj & raktaja areas
 - b. Tikshna : Vataja, Kaphaja & Medoj Arbud
 - c. Madhyam : Rest other diseases (A.H. 30/22-23)

Uses: Arsh, Bhagandara, Kustha, Mandal, Arbud, Dushta vrana, Vidradhi, Tilkalak etc

- ▶ **Paniya** – Use Internally

Uses: Gulma, Ajirna, Udarrog, Ashmari, Arocaka, Vidradhi(internal) etc

Administration of Kshar

- ▶ It is mixed with formulations for internal use
- ▶ It should be mixed with water
- ▶ Applied locally in the form of pratisarana & lepana.
- ▶ In making of ksharsutra

Dose

2-8 Gunjas (250 mg- 1000 mg)

Preparation of Ksharsutra

Materials Required

- Snuhi Ksheera
 - Apamarga Kshara
 - Surgical Linen thread (20No.)
 - Kshara Sutra Cabinet
-

Collection of Snuhi Ksheera

- Selection of the Plant
 - Collection of Snuhi Ksheera
 - Storage of Collected Ksheera
-

Criteria for Selection of Snuhi

द्विविधः समतोयश्च बहुभिश्चैवकण्टकैः ।
सुतीक्ष्णैः कण्टकैः अल्पैः प्रवरो बहुकण्टकः ।
सनाम्ना स्नुग्गुडः नन्द्य सुधा निस्त्रिंशपत्रकः ।
तं विपाटय हरेत् क्षीरं शस्त्रेण मतिमान् भिषक् ।
द्विवर्षं वा त्रिवर्षं वा शिशिरान्ते विशेषतः ।

– चरक कल्प

Selection of the Plant

- Botanical Name : Euphorbia Nerifolia
- Family : Euphorbiaceae
- Size of the Plant : 2-3 yrs. Old







Collection of the Latex

- Linear cuts are made on the stem and latex is collected in clean bowl.
 - After sufficient amount is collected it is transferred to a glass bottle.
 - Care to be taken so that the pieces of bark and dust will come along with latex.
 - The Latex to be used immediately, avoid clotting.
-

Preparation of Apamarga Kshara

- Ash is prepared by burning the whole plant along with tila nala.
 - The ash is mixed with six times water or Gomutra and filtered thoroughly.
 - Boil the filtrate, evaporate the water and dry powder is obtained.
 - The powder to be stored in air tight bottle.
-

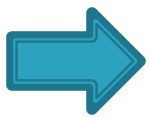
Apamarg plant



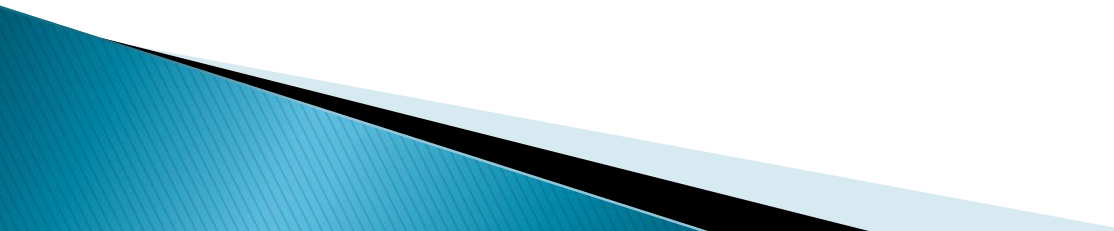








Standardization of Kshar

- Total ash Value : Water soluble
Acid soluble
 - pH value
 - TLC & HPTLC
 - Antimicrobial test
- 

Application of latex and Kshara to the Thread

- The thread is tied to the hangers.
 - With the help of linen latex is smeared to the thread and allowed to dry in the cabinet.
 - The coating to be done till the desired tensile strength of the thread is obtained.
 - Normally 11 coatings are preferred.
-

Application of latex & Kshara

- The Apamarga powder is coated over the thread after the latex is smeared.
- No of Coatings is seven.
- Allow it to dry.

Preparation of Kshara sutra

भावितं रजनी चूर्णेः स्नुहिक्षीरैः पुनः पुनः ।
बन्धनात् सदृढं सूत्रं छिनत्यर्शो भगन्दरम्॥

(चक्रदत्त अर्शोधिकार, भावप्रकाश, भैषज्यरत्नावलि)

Preparation of Kshara sutra

सुधादुग्धे वस्त्रं पूतं हरिद्राचूर्णं संयुते ।
निषिक्तेन तु तूलेन स्वल्पेन खलु यत्नतः
प्रलिप्तं सुदृढं सूत्रं च्छायायमथशोषयेत्
विलिप्य सप्तधा ह्येवं शोषयेत् भिषजांवरः ।
सूत्रमेतत्समाख्यातं क्षारसूत्रंतु नामतः ।
गुदान्कुरच्छेदनार्थममोघास्त्रमिदं मतम्
भगन्धरच्छेदनार्थमप्येतद्विनियुज्यते ।
प्रयोक्तव्यं क्षारसूत्रं सावधानतया सदा॥

रसतरंगिणि