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INTRODUCTION TO RAKTAMOKSHANA AND ITS IMPORTANCE IN SHALYA TANTRA VYADHI'S

Dr. Chimakurthi Sesha Sai Kumar*1 and Dr. S. V. Shailaja*2

¹PG Scholar, Department of PG Studies in Shalya Tantra, Sri Kalabyraveshwara Swamy Ayurvedic Medical College, Hospital and Research Centre.

²Professor & HOD, Department of PG Studies in Shalya Tantra, Sri Kalabyraveshwara Swamy Ayurvedic Medical College, Hospital and Research Centre.



*Corresponding Author: Dr. Chimakurthi Sesha Sai Kumar

PG Scholar, Department of PG Studies in Shalya Tantra, Sri Kalabyraveshwara Swamy Ayurvedic Medical College, Hospital and Research Centre.

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ABSTRACT

Raktamokshana is a parasurgical procedure for treatment of dushta rakta. It is one among the pancha shodhana mentioned by Acharya Susrutha. Rakta means blood and mokshana means let out, so raktamokshana is letting out the impure blood (Bloodletting). Raktamokshana can be done by two methods i.e, sashastra visravana (using sharp instruments) and Ashastra visravana (without sharp instruments). Among them Siravyadha is considered as ardha chikitsa in Shalya tantra by Acharya Susrutha just like basti is considered as ardha chikitsa in Kaya chikitsa.

KEYWORDS: Raktamokshana, Bloodletting, Sashastra visravana, Ashastra visravana, Ardha chikitsa.

INTRODUCTION

- ➤ Raktamokshana is a unique para surgical procedure indicated in diseases where rakta is grossly vitiated.
- Raktamokshana is one among pancha shodhana according to acharya susrutha. [1]
- ➤ Raktasya mokshanam rakta srava; which means letting the blood outside of body
- Raktamokshana is done for getting relief from rakta pradosha vyadhis as well as for swasthya rakshana.
- ➤ Due to aashraya asrayi bhava of rakta and pitta, raktamokshana helps in relieving pittaja vyadhis too. [2]
- Raktamokshana is aashu chikitsa.

Synonyms of raktamokshana

- > Rakta nirharana
- ➤ Raktashrayana
- > Rakta harana
- > Astravisruthihi
- ➤ Shonithamokshana

Formation of rakta

Sa khalu api raso yakrit pleehano prapya raga upayithi. [3]

> The digested food forms *rasa dhatu* as *sara bhaga* and it enters *yakrut* and *pleeha* and attains red colour and being called as *rakta dhatu*.

Functions of rakta

Preenanam jeevanam lepo sneho dharana poorane Garbothpatascha dhatunam shreshtam karma kramastmrutam. ^[4]

Jeevanam which means maintainence of life.

Panchaboutikatva of rakta^[5]

Visrata dravatha ragah spandanam laghuta tatha Bhumyadeenam gunaa hyete drushyante chatra shonithe.

Odour, liquidity, red colour, throbbing and lightness – these qualities of *Prithvi* and other bhutas respectively are found in the blood.

Rakta dushti kaaranas^[6]

Aahara

- > Ati sevana of
- Bahu, ushna, teekshna and dushta madhya
- Lavana, kshara, amla and katu dravyas
- Kulattha, masha, nishpava, tila
- Dadhi, mastu and amla kanji
- Aalu, moolaka, Haritha shaka, prasaha mamsa
- Viruddha aahara

Vihara

- Bhuktva divasvapna
- Chardi vega dharana

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- Adhika shrama
- Adhyashana
- Abhighata

Manasika

- Krodha
- Shoka
- Bhaya

The Rakta dhatu gets vitiated by the above factors and leads to formation of Kandu, Shota, Daha, Paka and Vedana.

Treatment for rakta dushti^[7]

□ kuryat shonitha rogeshu raktapitta harim kriyam vireka upavasam cha sravanam shonithasya cha.

Acharya charaka says raktamokshana is one among the treatment for rakta dushti

Importance of raktamokshana

snehadibhihi kriyayogaih na tatha lepanairapi yanti aashu vyadhayah shantim yatha samyak siravyadhatat.^[8]

The diseases which are not cured by *snehadibhih kriya* yogaih and by *lepa* etc, are cured immediately by *siravyadha*.

☐ Siravyadhah chikitsardham shalyatantre prakeertitah

yatha panihitah samyak basthih kaya chikitsithe. [9]

Siravyadha is considered as ardha chikitsa in shalya tantra just like basti is considered as ardha chikitsa in kaya chikitsa.

☐ Tvakdoshah granthayah shopha rogah shonithajascha ye

Raktamokshana sheelanam na bhavante kadachana. [10] Those who undergo raktamokshana regularly will not get afflicted with the above diseases.

☐ Yanihoktani karmani visarpanam nivruttaye Ekasthani Sarvani raktamokshanamekatah.^[11]

Raktamokshana is the best line of treatment in visarpa.

Rakta Nirharana Upaayas

By Shastra^[12] – prachana and siravyadha

By Anu Shashtra – srunga, jalouka and alabhu

Selection of different modalities of rakta mokshana according to dosha, dhatu & aatura anusara [13]

Types	Doshanusara	Rakta avasthanusara	Aatura avasthanusara
Srunga	Vata dushta	Tvakstha rakta	sukumara
Jalouka	Pitta dushta	Avagadha rakta	Parama sukumara
Alabhu	Kapha dushta	Tvakstha rakta	Sukumara
Prachana		Pinditha rakta	Asukumara
siravyadha		Vyapaka asrija	Asukumara

Purva Karma for Raktamokshana

- ☐ Procedure will be explained to patient.
- ☐ Laboratory investigations to be done
 - ➤ Hb%
 - CT, BT
 - ➤ HBsAg
 - ➢ HIV I & II
- ☐ Signature of the patient will be taken in consent form.
- □ Patient is instructed to withhold anti-coagulants for 3 days prior before the procedure if he is on anticoagulants.

Prachhana karma

A procedure in which affected area is scraped with a sharp instrument like *suchi*.

It should be done^[14]

- ➤ Ruju straight
- ➤ Asamkeerna not overlapping each other
- ➤ Sukshma fine/ pointed
- ➤ Sama even
- ➤ Anavagadha not very deep
- Anutthana not very superficial

- ➤ *Aashu* quickly
- Without harming marma, sira, snayu and sandhi

Indications^[15]

- □ Vatasruk
- ☐ Granthi pidakah
- ☐ Kotha
- □ Raktamandalam
- ☐ Kushta

Sira vyadha

☐ Puncturing a vein for therapeutic purpose.



Indications^[16]

- Vidradhi
- Kushta
- Eka deshaja shopha
- Sleepada
- Visarpa
- Kshudra roga

$Contra-Indications ^{[17,18]}$

- Baala
- Rooksha
- kshata ksheena
- Bhiru
- Madhyapa
- Adva
- stree karshitha
- Sarvanga shopha
- Amla bhojina
- Pandu rogi
- Upavasa
- Ûdara
- Garbhini

Vyadhana pramana^[19]

- ➤ Mamsala pradesha Yava matra
- ➤ Other than mamsala pradesha ½ Yava matra or Vreehi matra with Vreehimukha shastra
- ➤ Siras present on Asthi ½ Yava matra with Kutharika shastra

Amount of Blood to be Withdrawn

- > Balino bahu doshasya vayastasya sharirinah param Pramana michanthi prastham shonithamokshane. [20]
- For balina, bahu doshastha and vayastha utthama matra is 1 prastha(675 ml).
- According to *Acharya Dalhana*^[21]
- 1. *Uttama Matra* 1 *Prastha* (approx 675 ml)
- 2. Madhyama Matra ½ Prastha (approx 338 ml)
- 3. Adhama Matra 1 Kudava (168 ml)

Srunga

Refers to Horn of Cow.



Gunas

Ushnam samadhuram snigdham gavam srungham prakeertitham

Tasmat vatopasrushte tu hitham tadavasechane. [22]

Srnga (cow's horn) is hot in potency, sweet in taste and unctuous, hence it is ideal to remove blood vitiated by *vata*.

Indications^[23]

- Vata dushita rakta
- Sukumara
- Utthana tvak sthitha dosha

Dimensions of *Shringa***:**

- 1. It is Conical, Hollow and bent inwards at Distal end.
- 1. Length 18 Angula.
- 2. Circumference in the middle- 12 Angula.
- 3. Diameter of Orifice at Base 3 Angula.
- 4. Diameter of Orifice at Tip Size of Mustard.

Jaloukavacharana

☐ Bloodletting using leech for therapeutic use.



Indications^[24]

- Nrupa
- Aadya
- Baala
- Bheeru
- Durbhala
- Nari
- Parama sukumara

Alabhu

Refers to Bottle Gourd.



Gunas

□ alabhu katukam rooksham teekshnam cha parikeertitham tasmat sleshmopasrushte tu hitam tadavasechane. [25]

Alabu is considered bitter, dry and penetrating; hence it is ideal to remove blood vitiated by *kapha*.

$Indications ^{[26]} \\$

- ☐ Kapha Dushita Rakta
- ☐ Twak Sthita Dosha

Alabu Dimension

Length- 4 Angula,

Diameter- 8 Angula

This should be Smeared with black thin layer of mud before use

Raktamokshana in shalya tantra vyadhi's

- 1. Prachana in indralupta^[27]
- ☐ Prachayitva avagadham va gunja kalkaih muhurmuhuh lepayet upashantyartham.
- In Indralupta, doshas(kapha, rakta, pitta, vata) are lodged in the Romakupas and Obstruct it, this limits the hair regrowth. Pracchana removes these Vitiated Doshas
- > Pracchana improves Perifollicular Vascularisation.



2. Prameha pidaka

- tatroktah pratikarah siramokshascha.^[28]
- ➤ In *Prameha pidika* if no treatment is done in *aama* avastha and no shodhana is done, then aggravated doshas will vitiate shonitha and mamsa, this leads to increase in swelling.
- > In order to reduce the *shopha*, *raktamokshana* is done.

3. Sira granthi^[29]

- ☐ Siragranthou nave peyam tailam sahacharam tatha Upanaho anilaharai bastikarma siravyadhah
- ☐ In case of varicose veins, due to venous hypertension there is stretching of the veins which causes pain, after *siravyadha*, by the removal of blood there is decrease in pressure in the veins thus reducing pain.
- ☐ Stasis of blood is removed by *siravyadha*.
- ☐ *Siravyadha* helps to increase pumping action of vein by creating negative pressure.
- ☐ Diffusion of rbc into the tissue, its lysis and release of haemosiderin causing pigmentation is all avoided as rbcs are removed by *raktamokshana*
- ☐ The free iron is utilized by the fresh blood flowing in, thus pigmentation doesn't occur.
- ☐ The breakdown of rbc also stimulates histamine at the site causing vasodilation, vascular permeability and itching which may further lead to eczema, but all this is prevented by the removal of the blood.



4. In vidradhi Vataja vidradhi^[30]

- ...svedayet satatam chapi nirharechhapi shonitham ...
- Raktamokshana is done with shrunga.

Pittaja and raktaja vidradhi^[31]

- ...jaloukobhi harechha asruk ...
- > Raktamokshana with Jalouka.

Kaphaja vidradhi^[32]

- …haret doshanabhikshanam chapyalabva asruk tathiva cha
- Raktamokshana with alabu.

5. Visarpa

- Samshodhanam shonitamokshanam cha sreshtam visarpeshu chikitsitam hi.³³
- In all kinds of *Visarpa*, *raktamokshana* by *Jalouka* is one of the best line of treatment.

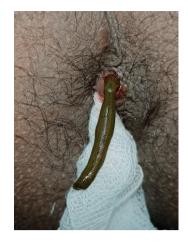


6. Arshas

☐ Avarthamana uchruna kathinebyo haredrasruk Arshobhyo Jalaja shastra suchi karchaih punah punah. [34]

Probable mode of Action

- In thrombosed piles there is pain and inflammation
- Jaloukavacharana when done, biologically active substances such as hirudin (thrombin inhibitor which inhibit conversion of fibrin to fibrinogen and prevents blood clotting), vasodilators (antihistamines), hyaluronidases, kallikrein, and tryptase inhibitors and natural anaesthetic substance reduce pain and inflammation
- Due to presence of anti-inflammatory substances in the saliva of leeches, leech therapy has been used to treat localised inflammation and pain.



7. Dusht Vrana^[35]

- ☐ Tasya vranasya shashtirupakrama bhavanti. Tadhyatha apatarpana aalepah parisheko abhyangah svedo vimlapanam upanahah pachanam visravanam.
- ☐ Dushta vraneshu kartavyamurdhva aadascha shodhanam visoshanam tatha aaharah shonitasya cha mokshanam

Probable mode of Action

- ☐ Jaloukavacharana removes the vitiated blood thus helps in providing relief from pain(inflammation).
- ☐ The saliva of leech contains substances like hirudin, hyalurodinase, hemetin, etc these have anticoagulant, vasodilator, local anaesthetic, anti-inflammatory effects.
- ☐ These substances are injected into the lesion while the *jalouka* is sucking the blood.
- ☐ Anticoagulants reduce clotting of blood.
- ☐ Vasodilators help improving capillary circulation in the part.
- ☐ Anti- inflammatory action helps to fight infection.
- ☐ All these will help to relieve symptoms- pain, burning sensation, itching.
- ☐ Improved circulation promotes quicker healing of the wound.

8. Vrana shopha

- ☐ Aadhou vimlapanam kuryat dviteeyam avasechanm. [36]
- Avasechanam jaloukadibhi raktavisravanam (Dalhana).^[37]
- Vranashotha has 3 stages ama, pachyamana and pakva.
- Raktamokshana is done in ama avastha, it removes vitiated blood and fresh blood flows to the part, thus reduces inflammation.
- ➤ The substances present in saliva of *jalouka* have anticoagulant, anti-inflammatory and vasodilators which help in improving circulation to the part. This also helps in reducing inflammation.
- Analgesic effect of the substances in the saliva of leech help reduce pain.



DISCUSSION

- ☐ *Raktamokshana* is a simple procedure and can be practised at opd level.
- ☐ It can be used as a *rutucharya* in *sharat rutu* to prevent *pittaja* and *raktaja vyadhis*.
- ☐ Raktamokshana is an effective procedure in various conditions. For example in dushta vrana it helps in quicker healing by improving blood circulation.
- ☐ In *siragranthi* it relieves symptoms like pain, burning sensation, itching, pigmentation by removing stasis of vitiated blood.
- ☐ In the earlier stages of *vrana shotha*, *vidradhi*, it helps in reducing inflammation.
- ☐ In *indralupta* it removes vitiated doshas which promotes nourishment and regrowth of hair. It helps in the better absorption of the *lepa*, *taila* applied later the procedure.
- ☐ For localized conditions raktamokshana can be done by pracchana (angulamatrasya), jalouka(hastamatram), shringa (dashangulam) and alabu (dwadashangulam) where as siravyadha is said to be sarvangashodhini.³⁸
- ☐ Indications of *jaloukavacharana* told by *acharya susrutha* holds good till today as it can be safely applied in all ages & variety of *rakta pradoshaja vyadhis*.
- ☐ Snehadibhihi kriyayogaih na tatha lepanairapi yanti aashu vyadhayah shantim yatha Samyak siravyadhatat.^[39]
- Diseases which are not cured by any other forms of treatments gets treated immediately by sira vyadha.
- □ Rakshan raktamadbhuya saptaham ta na patayet. [40]
- ☐ After a week, *jalouka* can be used again.
- ☐ Tadebhireva shonita chaturdheh sambhava sthiti pralayeshvapyavirahitam shareeram bhavati. [41]
- ☐ The three *doshas* along with *shonita* are present during the origin, existence and destruction of the body.

CONCLUSION

- Raktamokshana is a unique procedure done for getting relief from raktapradoshaja vyadhis as well as for swasthya rakshana.
- > Pracchana, siravyadha are the types of sashastra

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- raktamokshana whereas shrunga, jaloukavacharana, alabu are types of ashastra raktamokshana.
- Raktamokshana is indicated in various shalya tantra vyadhis like dushta vrana, vrana shotha, granthi, arshas, vidradhi and kshudra rogas like indralupta, accordingly it can be used in various other conditions also.

> Tvakdosha granthayah shopha rogaah shonitajascha ye

Raktamokshana sheelana na bhavanthi kadachana

In people who undergo raktamokshana- twak dosha, granthi, shopha and rogas due to dushta rakta will not occur.

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