Volume 4 Issue 5, July-August 2020 Available Online: www.ijtsrd.com e-ISSN: 2456 - 6470

A Review on Rakshakarma, the Concept of Sterilization in Ayurveda

Dr. Gujrathi Miteshkumar Dilipkumar¹, Dr. Wasnik Sumedh Vyankatesh², Dr. Sanjeev N. Rathod³

¹PG Scholar, ²HOD and Professor,

^{1,2}Department of Shalyatantra, PMT's Ayurved College, Shevgaon, Maharashtra, India ³Reader, Department of Shalakya Tantra, Vandanatai Jagannathrao Dhone Gramin Ayurved College, Patur, Akola, Maharashtra, India

ABSTRACT

Ayurveda is a complete health science comprises of eight branches known as ashtang ayurveda. Shalya tantra is a chief branch among it which deals with many surgical and parasurgical interventions. Since surgical procedures are involved and risk of secondary infections is there, it has been adviced in many ayurvedic texts by some acharyas about Sterilization or Nirjantukikaran of OT, instruments and surgical wards which comes under the heading of Rakshakarma. For successful sterilization of OT, surgical wards, labour rooms, neonatal wards many dhoopan dravyasand rakshoghna dravyas has been told to keep patient safe from getting any infection and for instruments and accessories heat, kwath dravyas, sunlight etc are used. Rakshakarma is one of the Sixty upakram mentioned for the management of vrana or wound, stated by Acharya sushruta. It has been found that concept of Rakshakarma in ayurveda is much effective for providing a complete protective shield to the patient against any infection.

KEYWORDS: Sterilization, Nirjantukikaran, Rakshakarma, Upakram, dhoopan dravva, rakshoghna dravva

How to cite this paper: Dr. Gujrathi Miteshkumar Dilipkumar | Dr. Wasnik Sumedh Vyankatesh | Dr. Sanjeev N. Rathod "A Review on Rakshakarma, the Concept of Sterilization in Ayurveda"

Published International Journal of Trend in Scientific Research Development (ijtsrd), ISSN: 2456-6470, Volume-4 | Issue-5, August 2020, pp.971-



www.ijtsrd.com/papers/ijtsrd33037.pdf

Copyright © 2020 by author(s) and International Journal of Trend in Scientific Research and Development Journal. This is an Open Access article distributed

under the terms of Creative **Commons Attribution** (CC License



4.0)

(http://creativecommons.org/licenses/by/4.0)

INTRODUCTION

Avurveda is the oldest science of health in the world comprising of all the branches of medical sciences which are fulfilled with number of literatures with detailed coverage of diseases and treatments. Shalya tantra is one of the chief branches of ayurveda and proven as good as modern surgical branch. Sushrut samhita is a chief ayurvedic text representing shalya tantra based on practical observations as well as theoretical writtings. Since shalya tantra deals with all surgical and parasurgical procedures, risk of secondary infection is always involved there. For that there is a great need to keep environment free from germs, microorganisms, spores and fungi for the instruments, Operation Theatre, surgical wards, all accessories, clothes of surgical interventions.

Sterilization is a process of freeing an article, or a surface or a medium from all the microorganisms either by removing or killing them which might be in both vegetative or spores state. To get the successful results from any surgical treatment it is highly necessary to have completed the procedures in aseptic precautions. Environment is full of millions of microorganisms around us in air, water n everywhere. Dead cells fallen from surface of the body carries thousands of such organisms and surprisingly it

contributes near about 37% of our house hold dusts. Not only this, even gram positive cocci known by staphylococcus aureus lives in the nostrils of 30% population.[1] These are harmful and pathogenic especially in an open wounds, incisions and can turn into major complications. Hence it creates a lot of importance to disinfects the operation theatre before proceeding to any major or minor operative procedures[2].

Acharya Sushrut has explaind sixty upakramas for the management of wound, out of which last one is Rakshakarma to keep the wound sterile, infection free and healthy, by following rakshavidhaan i.e protocols of sterilization and applying gugguladi dhoop to save wounds from invisible creatures i.e mocroorganisms.

निशाचरेभ्योरक्ष्यस्तुनित्यमेवक्षतातुरः रक्षाविधानैरुद्दिष्टैर्यमै: सनियमैस्तथा : ॥स.चि. १ / १३२छ

In post operative measures wound should be properly irrigated and then paste of medications should be applied followed by bandaging. Fumigation of wound should be done by pain relieving, dhoopan and rakshoghna dravyas to keep the wound healthy and free from contamination. Moreover Acharya sushruta explained that the wound should be fumigated with mixtures of powders of Guggulu, Agaru, Raal, Vacha, Sarshap, Saindhava, Nimbpatra alongwith Goghrita.

ततोगुग्गुलागुरुसर्जरसवचागौरसर्षपचुर्णैर्लवणानिम्बपत्रविमिश्रैराज्ययुक्तै ध्पयेत,

आज्यशेषेणचास्यप्राणानसमालभेत∟स्. स्. ५ / १८ा⁴।

All the above stated Rakshoghna and dhoopan dravyas are not only used for fumigation of wound but also used for fumigation of clothes and accessories of patients along with surgical ward. This keeps wound healthy and away from infection and contaminations. All this leftover lepa of these medications should be applied over the region of heart and other vital parts of the body to feel fresh and healthy.

Sushrut samhita is shalya tantra pradhan grantha which explained various surgeries since ancient times very effectively like abdominal, anorectal, gynaecological, obstetrical, ophthalmological, etc, with detailed information regarding yantra's and shastra's which are most primary tools in proceeding any surgery effectively. But for its successful results and no complications like secondary infetions it has been explained that these instruments should sterilized along with vranitagaar, kumaragaar, sutikagaar, surgical rooms and wards by various dhoopan and rakshoghna dravyas. Acharya Dalhana told that there is no fear of any infection and contamination of wound if instruments and accessories are well sterilized. Acharya sushrut also explained mantradi uchhar along with fumigations to save wounds from infections. He told that Mantrochchar of praising lord Brahma, Vishnu, Mahesh, Panchmahabhutas, Dev, Raja and Gandharvas makes patient happy n painless and his lives can be saved thus.

अग्नितप्तेनशस्त्रेणछिंद्यान्मधुसमायुत॥सु. चि. २ / ४६छ अग्नितप्तेनशस्त्रेणछिंद्यातअन्यथाअतप्तशस्त्रच्छेदनेपाकभयंस्यात॥डल्ह **U**[6]

Unlike Acharya Sushrut, Rakshavidhaan has been stated by *Kashyap Samhita* too, in the special *adhyay* by name *Dhoop* kalpa and explainedrakshoghna and dhoopan dravyas in it, of which some are as Goghrita, Sarshapa, Hingu, Devnirmalya i.e flowers of herbs offered to god, Akshata i.e rice, Sarptvak i.e shedded skin of snake, Bhikshusanghati i.e saffron colour cotton cloth used by bhikshus. All these are used as dhoopan drugs to prevent some paediatric diseases harassed by devils who inhibit proper growth and development of children as well these *dhoop kalpa* were used potently to fumigate cloths and paediatric wards, beds and accessories of children. Acharya kashyap has stated total 40 dhoop's categorized as a) Dhoop, b) Anudhoop and c) Pratidhoop and in 2 different dhoopyonis viz a)Sthavar dhoopand b)Jangam dhoop.

घृतंसिद्धार्थकोहिंगुदेवनिर्माल्यमक्षता: 🛘 सर्पत्विभक्षसंघाटीधूपोरक्षोघ्नउच्यते॥का. सं. धूपकल्पोध्यायाः

Similarly Acharya charak also gave contribution in Rakshakarma by explaining dhoopankarma to prevent contamination of vrana or wound by dhoop of following drugs such as Raala or sarj, guggulu, chandana, agaru, ghrita. These dhoopa not only kills all microorganisms in wound but also diminish other complications like sticky discharge, foul

smelling, pain and inflammation of the wound, Thus keep the wound healthy n helps it to heal faster^[8,9].

कठिणत्वंव्रणायान्तिगन्धैः सारैश्चधूपिताः 🛭 सर्पिर्मज्जवसाधूपै: शैथिल्यंयान्तिहिव्रणा : ॥च. चि. २५ / १०८ रुज: स्त्रावाश्चगन्धाश्चकुमयश्चव्रणाश्चिता: 🛘 शैथिल्यंमार्दवंचापिधूपनेनोपशाम्यति॥च. चि. २५ / १०९

While explaining vranashodhak kashay, Acharya charak has explained following drugs to clean the wounds by making decoctions of it, it includes *Hirada, Behada, Aavla, Khadira* tvak, Daruharidra, Nyagrodh, Bala, Kushmoola, Leaves of Nimb and Badar^[10]

त्रिफलाखदिरोदावींन्यग्रोधादिबंलाकुश: 🛘 निम्बकोलकपत्राणिकषायाः शोधनामताः ॥च. चि. २५ / ८४

Acharya Vagbhata has also explained about Rakshakarma in reference of *vrana shodhana* i.e protection of wound from contamination of various microorganisms by several dhoopa dravyain Ashtangasangraha Uttarsthana in chapter 38th Shastrakarmavidhi, the drugs stated are as follows Guggulu, Agaru, Ghruta, Saindhava, Vacha, Sarshap, Hingu, Sarjrasa or Shaal and Nimbpatra[11] Moreover Acharya Vagbhata also explained fumigants for baby's apartment made up of dried crow feathers along with vacha, kushtha, srivesta, sarshap,trivarta by adding bit goghrita in it^[12]. He also explained that do not sneeze or laugh or yawn without covering your mouth, this may contaminate any wound and create infection as well as there are chances of respiratory tract disorders.

Ashtang hridayam has also shaded a light on the topic *Rakshakarma* in *Uttartantra* chapter 25th*Vranavidnyaniyam* by explaining decoctions and other *upakramas* for the management of infected wounds by Surasadi gana and Aaragvadi gana along with Nimb and Padwalin such conditions[13,14] he also stated dhoopan dravyas of jaw, Bhurjapatra, Ghrita, Devdar, Gandhabiroja to destroy all microorganisms and allows wound to heal properly^[15] Acharva also stated about fumigation of paediatric ward, bed with rakshoghna and dhoopan dravyas in adhyay. Moreover he Balopacharniyam explained Fumigations of killed crow pasted with some sneha's viz vasa, tail and majja shows its supreme effect^[15].

DISCUSSION:

Various references by various acharyas from different samhitas have been collected to get a brief idea of sterilization in ancient era. The aseptic approach to sterilize instruments i.e yantra'sand shastra's, various wards related to medical branches such as surgical ward, paediatric ward, *kumaragaar, sutikagaar,* OT Rooms, *vranitagaar* by various dhoopan and rakshoghnadravyas to save the wounds and surgical procedures against infection in aseptic medium is seen under the heading of Rakshakarma by achrya sushrut. Moreover *Mantradi* treatment has also been said for the relaxment and happiness of patient.

CONCLUSION:

Ayurveda has always been criticized for lack of standard protocols for surgical procedures. Sterilization is one of such prime protocols to which ayurveda has shown that it had broad vision thousand years ago too. Ayurvedic herbal dhoop

are not only potent enough to sterilize the instruments and wards but also aid potentially to keep environment clean naturally without any hazardous side effects of various chemicals used by modern sciences. Surgery is a boon to the society and proudly saying that it was given to the whole world by ayurveda only thousand years before by following all necessary protocols and measures. Ayurvedic method of sterilization is cost effective, result oriented, less adverse effects and can be an alternative to modern sterilization.

REFERENCES:

- [1] Bailey and Love, Short practice of surgery Oxford University Press Publication, New York, 23rd Edition, 2000, pg 123.
- [2] Bailey and Love, Short practice of surgery Oxford University Press Publication, New York, 23rd Edition, 2000, pg 120.
- [3] Dr Anantram Sharma, Sushrut samhita, Part 2, Chaukhamba Surbharati Prakashan, Varanasi, Chikitsasthan 1/132, Reprint edition 2009, 172.
- [4] Kaviraj Dr Ambikadattshastri AMS, Sushrut samhita, Part 1, Chaukhamba Sanskrit series, Banaras, 2011, Sutrasthan 5/18, 18.
- [5] Dr Anantram Sharma, Sushrut samhita, Part 2, Chaukhamba Surbharati Prakashan, Varanasi, Chikitsasthan 2/46, Reprint edition 2009, 181.
- [6] Acharya Yadavji, Vaidyaraj Dalhanacharya virachit Nibandhasangraha vyakhyata, Sushrut samhita, prakashan, Varanasi, onal Jo 25/45,430 Chaukhamba surbharati chikitsasthan 2/45.

- Shrisatyapal bhishagcharya, Kashyap Samhita, Chaukhamba Sanskrit sansthan, Varanasi, Kalpasthan, Dhoopkalpa adhyay, 170.
- Vd Y. G. Joshi, Charak samhita, Part 2, Vaidyamitra Prakashan Pune, Chikitsasthan 25/108, Second edition 2005, 565.
- [9] Vd Y. G. Joshi, Charak samhita, Part 2, Vaidyamitra Prakashan Pune, Chikitsasthan 25/109, Second edition 2005, 565.
- [10] Vd Y. G. Joshi, Charak samhita, Part 2, Vaidyamitra Prakashan Pune, Chikitsasthan 25/84, Second edition 2005, 562.
- Kaviraj Atrideva Gupta, Vidyotini Hindi commentary, Ashtangsangraha, Uttarsthana, ch 38th, Vranapratisheda adhyaya.
- Kaviraj Atrideva Gupta, Vidyotini Hindi commentary, Ashtangsangraha, Uttarsthana, ch 1st, Balopacharaniya adhyaya.
- Dr Ganesh Garde, Sarth Vagbhata, Ashtang hridaya, Chaukhamba Surbharati prakashan, Varanasi, 25/41,430
- Dr Ganesh Garde, Sarth Vagbhata, Ashtang hridaya, Chaukhamba Surbharati prakashan, Varanasi, 25/42,430
- Dr Ganesh Garde, Sarth Vagbhata, Ashtang hridaya, Chaukhamba \(\) Surbharati prakashan,