

AYURVEDIC

JOURNAL HOME PAGE AT WWW.VRIPRESS.COM

eISSN: 2375-6586

RESEARCH ARTICLE

DOI: http://dx.doi.org/10.14259/av.v2i2.176

AGNIKARMA: A Reference Manual for Ayurvedic Physicians - Information Directly Extracted from Approximately 3000 Years Old Literature

Amar Prakash Dwivedi¹, Lakshmi Subraja Kanikkannan^{2,3}, Shanmugamurthy Lakshmanan^{3,4,5*}

¹Dr. DY Patil College of Ayurved, Nerul, Navi Mumbai, MH, India.

²Saint Louis University, 1 N Grand Blvd, St Louis, MO 63103, USA.

³World Institute for Scientific Exploration, Baltimore, MD 21210, USA.

⁴Department of Dermatology, Harvard Medical School, Boston, MA, USA.

⁵Wellman Center for Photomedicine, Massachusetts General Hospital, Boston, MA, USA

Article Info: Received: May 26th, 2015; Accepted: June 21st, 2015

ABSTRACT

Agnikarma is a time-tested Ancient Treatment modality, practiced in India for more than three thousand years. The procedure primarily involves a topical application of controlled heated rod of specific qualities to treat various kind of diseases and or disorders. However, this technique involves a paradigm shift to understand the process protocols and mechanisms. Without a grasp of its fundamentals, practice in modern labs and clinics is impossible. Though we present here a practice that has been so far limited to only *Ayurvedic Physicians*, the authors offer this paper without changing the meanings via specific word to word translations into modern language, with the intention that the dimensions of the ancient approach are retained without defragmentation. The authors present this paper to encourage modern scientists and doctors to further explore this ancient paradigm. A glossary is provided at the end of this paper for reference.

Keywords: Agnikarma, Old Literature, Ayurveda, Ancient Science

Introduction

The word "Agni Karma" comprises of two terms 'Agni' and 'Karma', which represents fire and procedure respectively. Collectively, it can be defined as a procedure with the aid of fire [1]. In Ayurveda, Agni Karma is referred to as a treatment that involves heat burns. It is also referred to as "Dahan Karma" in some texts. In modern words, "Agni Karma" therapy can be closely associated with "Intentional Heat Burn Therapy". A clinical study that demonstrates the benefits of Agnikarma has already been exclusively published in this journal in an earlier issue by the authors [2]. Since this practice has been there for few thousand years, it is considered safe similar to acupuncture treatment that is widely accepted and practiced. Therefore, this type of treatment modality is legalized

*Corresponding Author

Shanmugamurthy Lakshmanan, PhD

Vetha, 43 Washington Ave, Endicott, NY 13760, USA. Email: sl.lakshmanan@conciounessscience.org

for practice in the Indian sub-continent.

Agnikarma has been cited for varied purposes in the ancient texts, beginning from the Vedic period [1750-500 BCE]. In Atharvaveda Agnikarma is indicated for Krimi Chikitsa [3] and the word 'Agni' is used as 'Bheshaja' [4]. In Rigaveda Agni is used as 'Bheshaja' for the treatment of disease [5] and Agni in 'Yagnya' is indicated to kill the bacterias which cause disease [6]. The diseases which are incurable by Shastrakarma (surgical operation) or Ksharakarma (Ayurvedic herbal medicine) can be easily cured with Agnikarma. The disorders treated by Agnikarma have no recurrence [7]. In Charaka Samhita -Sutrasthana - Agnikarma is used as a 'Trasana Chikista' for the management of 'Sanyasa' [8] and used as a remedy for the management of 'Mansagata Vyadhi' [9]. In Sushruta Samhita -Sutrasthana, Agni is described under Agropaharaniya equipment [10]. Agni is described under 'Anushalya' [11] and a whole chapter is dedicated to Agnikarma including details, description, indication, contraindication and Vidhi [12]. In Sushruta Samhita - Chikitsasthana - Agnikarma is included



under 60 *Upakrama* [13] and Agnikarma is indicated in case of Asthi, Snayu, Sandhigata Vataprakopa [14].

Materials and Methods Used for Agnikarma-Dahnopakarana

In the classic texts, various forms of *Dahnopakarana* have been described with great clarity. *Dahnopakarana* refers to accessories used during Agnikarma procedure that includes, but not limited to drugs, articles and substances used for the Agnikarma Process. Each of these accessories has its unique property and application in Dahnopakarana.

Acharya Sushruta has listed the materials according to the site of Agnikarma i.e: 1) Twakadagdha: Pippali, Ajasakrida, Godanta, Shara, Shalaka, 2) Mamsadagdha: Jambhavsta Shalakla and Other Metals and 3) Sira, Snayu, Sandhi and Asthidagdha: Madhu, Jaggery and Sneha. According to Acharya Vagbhata, Godanta and Suryakanta should be used for Twakadah. Madhu, Sneha, Jambavastha and Jaggery should be employed for Agnikarma of Arsha, Bhagandara, Granthi and Nadivrana. Besides abovementioned accessories, ancient texts have refered to usage of different kinds of fire wood for heating purpose [Khair and Badar].

The selection of *Dahnopakarana* and the amount of Agni depend on the condition and site of the disease. It has been mentioned that Agni should be smoke [insert space] free (*Nirdhoom*) and sufficiently hot for heating up *Dahnopakarana*. It is been also mentioned that for catabolic or degenerative diseases, gold or silver probes should be used; similarly in anabolic and hyper growth conditions, *Pancha dhatu* or iron probe should be used.

Classification of Agni Karma:

There is no clear description available regarding its classification, but it can be classified on various factors according to 1) dravyas used, 2) location of the site, 3) nature of disease 4) the type of *akriti* (shape and or image) and 5) dhatus to be cauterized.

Table 1: Matrix of different Dahnopakarana Parameters as described in the Ancient texts.

Sr.No	Dahnopakaran Names	Su	Cha	A. S	A. H
1	Pipal	+		+	-
2	Aja Shakrida	+	-	+	
3	Godanta	+	-	+	+
4	Shara	+	+	+	+
5	Shalaka	+	,	+	,
6	Jambavastha	+	-	+	+
7	Other metals	+	,	+	,
8	Kshaudra	+	+	+	+
9	Madhuchhista	+	+	+	
10	Jaggery	+	-	+	+
11	Sneha	+	-	+	+
12	Loha	+		+	,
13	Ghrita	-	+	+	,
14	Taila	-	+	+	,
15	Vasa	,	+	+	,
16	Majja	_	+	-	,
17	YastiMadhu			+	,
18	Suchi (Needle)	_		+	,
19	Hema (Gold)	-	+	+	,
20	Tamra	-		+	,
21	Rajata	-	-	+	
22	Kansya	-	-	+	,
23	Varti	-		-	+
24	Suryakanta	-	-	+	,
25	Ardhendu Vaktra Shalaka	+	-	+	+
26	Kalasthidal Tulya Shalaka	+	,	+	,

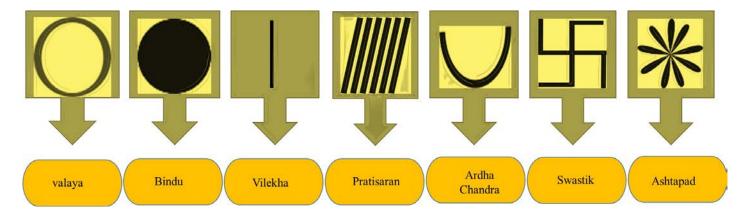


Figure 1: Types of Agni Karma according to different tip shapes



i. According to Dravyas Used:

- a) Snigdha Agni Karma: Performed by the means of Madhu and Ghrita and Taila. According to Sushruta, they should be used for Sira and deep structures like Snavu.
- b) Ruksha Agni Karma: Performed by Pippali, Shalaka, and Ajasakrida.

According to Sushruta, they should be used for Twaka dagdha.

ii. According to the Site:

- a) Sthanika (Local): As in Vicharchika, Arsha etc.
- b) Sthanantariya (Distal to the site of disease): As in Visoochika and Apachi.

iii. According to the Disease:

- a) There are so many types of Agni Karma. For instance, for diseases such as Arsha and Kandara, it should be performed after surgical excision. In the case of Sinus, fistula and in ano it should be performed after incision.
- b) In *Krimidanta* it should be done after filing the cavity by Jaggery, *Madhuchhista* etc.

iv. According to Akriti:

Acharya Dalhana has clearly discussed the shapes of AgniKarma in his commentary [15] "Dalhana's Commentary on Sushruta's Sushrut samahita) [16]. According to Dalhana, Shalaka should have a pointed tip. There are seven different shapes noted to be used that includes 1) Valaya: shaped like a circular ring 2) Bindu: shaped like a circular disk, 3) Vilekha: It is made of various shapes by a heated shalaka as shown in Figure 6, 4) PratiSarana: Does not have a specific shape and requires the indicated site to be rubbed with a heated Shalaka, 5) Ardhchandra: shaped like a crescent, 6) Swastika: specific shape of a Swastika Yantra and 7) Astapada: It contains eight limbs in different directions. The first 4 shapes are described by Sushruta, whereas the last 3 shapes are described by Vagbhat-Ashtang Sangrah Sutra sthan Chapter 40/4 [17]. Akriti should be treated as the shape of Dahnopakarana and final shape produced after actual Agni Karma procedure.

v. According to Saptha Dhatus:

According to Acharya Sushruta and Vagbhata, Agnikarma should be carried out with the aid of the Saptha Dhatus. Accordingly Acharya Vagbhata asserts the following: 1) Twaka dagdha, 2) Sira and Snayu dagdha, 3) Mamsa dagdha and 4) Asthi Sandhi dagdha (A.H.Su. 30/4) [18] where as Sushruta has classified it into two groups: namely Twaka dagdha and Mamsa dagdha (S.Su.12/7) [19]. Acharya Kashyapa and Bhadra Shounaka have contraindicated Agnikarma for any other dhatu, except for Twaka and Mamsa [20].

Heat generated by different materials:

There are different types of shalakas. Furthermore, it is advocated that the average length of probe should be 12 angula (ancient Indian units) and the tip should be 2 anguli [21] [one

anguli is the width of three fingers approximately by a person of average built in India]. Table 2: Types of Shalakas and their corresponding temperatures when red hot [22].

How to perform Agnikarma onsite?

For *Shirorog* (headache, migraine, trachoma etc.), the rod should be gently placed between the eyebrows, with high spatial-resolution if possible, on the frontal region. In case of a disease related to the eye lids (Entropion), the rod should be placed at the roots of the eye lashes. For pain & *Vataja* disease, such as heal pain, calcaneal spur, *Sandhitgat vata*, *Ama vata*, frozen shoulder, sciatica and cervical spondylosis, the rod should be placed at the site of maximum tenderness. In incomplete inguinal hernia, the rod should be placed on the great toe opposite to the side of hernia /at the superficial inguinal ring. In the case of cyst, mass, warts, tumor, piles, fistula or bleeding disorders, heat should be applied at the bed of the wound after excision is performed. Application on soft parts of the body should be avoided and the site of disease should be [diagnosed] clearly before treatment.

Signs and Symptoms produced after Agni Karma according to Dhatus selected [23-26]

There are four types of Dagdha noticed 1) Twaka Dagdha: When the Twaka is cauterised, burning described as a crackling sound, bad odour and contraction of the skin. 2) Mamsa Dagdha: When Mamsa is cauterised, there is a pigeon-like discolouration of the part, inflammation, mild pain and the lesion gets dried up and shriveled, 3) Sira Snayu Dagdha: When the Snayu and Siras are cauterised, it leads to black discolouration, swelling of the lesion and a cessation of discharge (including that of blood) and 4) Sandhi and Asthi Dagdha: When Asthi and the Sandhis are cauterised, there is dryness, redness, hardness and fixity of the lesion.

Suitable Season for Agni Karma

Agni Karma can be performed during all seasons except *Grishma* and *Sharada*. Even in these two Seasons, in the case of an emergency, it may be performed after taking appropriate precautions, which are mentioned in the text by Sushruta [27]. In *Sharada*, there is mention of *PittaPrakopa*; as Agni Karma also aggravates *Pitta*, it may lead to *PittaPrakopa* if carried out in

Table 2: Temperature in ancient units kuksya converted to Celsius.

Types of shalakas	Temperatures
Gold	62 °C
Silver	350 °C
Copper	212 °C
Iron	228 °C
Pippali	57 °C
Aja sakrit	45-55 °C



Agni Karma as a Therapeutic Measure:

Table 3: A number of diseases and conditions have been explained in ancient texts where Agnikarma can be used as therapeutic measure.

Sr.No	Disease	Ch	Su	A.S.	A.H.	B.P	Y.R	G.N	Sha
1	Shiroroga	-	+	-	+	-	-	-	-
2	Vataja Shiroroga	,	-	+	-		-		-
3	Kaphaja Shiroroga		,	+	-		-	,	-
4	Ardhav bhedaka	+	-		-				
5	Bharu-lalata Vedana	,	-	+	-				
6	Vartma Roga		+		-			-	
7	Pakshama Kopa		+	+	-		+	+	
8	ShlishtaVartma	,		+	+	-	-		-
9	Bisa Vartma	,	-	+	•	-	-	,	•
10	Alaji	,	,	+	+		-		-
11	Arbuda	,	-	-	+	-	-		-
12	Puyalasa			-	+	-	-	-	-
13	Abhisyanda	-	-	-	+		-	-	-
14	Adhimantha		-	+	+				
15	Lagana	,	-	+	+	+			-
16	Medaja Ostha Roga		+	+	+	+	+	+	
17	Danta Nadi	,	-	+	+		-	-	
18	Krimi Danta		+	+	+		-		-
19	Adhidanta	-		+	+		+	+	
20	Sheeta Danta	,	-	+	+		-		-
21	Danta Vidhradhi	-	-	+	+	-	-	-	-
22	Jalarbuda		-	+	+		-	-	
23	Arsha (Vataja-Kaphaja)	,	+	+	+				
24	Nasa arsha			+	+		_	-	
25	Karnarsha		-	+	+		-	-	~
26	Lingarsha		-	-	+	-	-		-
27	Yonya arsha		-	-	+		-		
28	Bhagandar	+	+	+	+	+	-	+	+
29	Chippa		+	-	-	-	-		-
30	Kunakha		+		_				
31	Kadara	-	+	+	+	+	+	+	-
32	Balmika		+	+	+	+	+	+	
33	Jatumani		+	+	+	+	+	+	
34	Mashaka	,	+	+	+	+	+	+	



Table 3: Continue......

35	Tilakalaka	-	+	+	+	+	+	+	
36	Charmakila	-	+	+	+	+	+	+	
37	Prasupti	-	+		+-		-	-	
38	Visha Chikitsa	+	-		-	,		-	
39	Sarpna Damsa	+	+	+	+	,	-	-	,
40	Alarka Visha	-	+		+			-	
41	Luta Visha	-	-	,	-	,	-		,
42	Mushaka Visha	-	-	+	+				
43	Gridhrasi	+							
44	Vataja shoola in Twaka	-	+		-			-	
45	Vishwachi	-	-	+	+	,	-		-
46	Galaganda	-	+	+	+		-		
47	Ganda mala	+	-	+	+	,	-	-	
48	Apachi	-	+	+	+	+		+	
48	Granthi	+	+	+	+	,	+	-	,
50	Arbuda	+	+	+	+		-		
51	Antra Vridhi	-	+	+	+		+		
52	Shlipada	-	+	+	+	,	-		
53	Nadivrana	-	+	+	-			-	
54	Upadamsa	-	+		-		-		
55	Gulma	+	-	+	+	+		-	
56	Vishuchika	-	+	+	+	,	-		
57	Alasaka	-	+	-	-				
58	Vilambika	-	+		-		-		
59	Sanyasa	+	-		-			-	-
60	Unmada	-	-	-	+	,	-		-
61	Yakrita Plihodara	-	-	+	+			-	+
62	Shonita- Ati-Pravriti	+	+	+	-	,	-		,
63	Sira-Sandhichheda	-	+	+	-			-	
64	Visarpa	+	-		-				



Sharad rutu which is a contraindication.

Agni Karma Purva Ahara (Diet before Agni Karma)

Patients need to be fed with a *pichhila diet* [28] before Agni Karma.It should be performed on an empty stomach in case of urolithiasis, fistula-in-ano, abdominal diseases, haemorrhoids and diseases of the oral cavity [28].

Agni Karma Purva Parikshna (Assessment) [29,30]

Before going into any surgical or para surgical procedure, complete assessment should be carried out. Before Agni Karma is performed, a thorough examination of patient should be carried out and factors such as the shape of the lesion, disease and season should be noted down.

Poorva karma protocols:

First and foremost the patients consent to undergo Agnikarma treatment is mandatory, even though this does not come under mainstream medicine. Next, blood should be monitored routinely; Complete Blood Count and Blood Sugar needs to be carried out. In some cases to prevent conditions such as tetany post burn, Tetanus Toxoid –Intramuscular can be injected. Next the affected region should be clearly diagnosed. The patient should be notified about the the procedure in detail.

Patient should also be informed about the post burn pain, so that he/she will co operate and prepare himself / herself for the procedure with positive frame of mind, and shall not interrupt during therapy. Next the selected site is cleaned with '*Triphala kwatha*' or 'normal saline'. Routinely, the operative site is cleansed with *spirit* while giving injection or during dressing of wound. Finally, the area is covered with sterile drape.

Pradhan Karma:

There are two types of 'Agni Karma' tecniques; one of them is continous heat burns and the other is intermittent heat burns. Superficial burns (i.e "Twaka Dagda") are practiced on diseases present superficially and deep heat burns (i.e. Mamsa Dagda)



Figure 2: Intermittent, multiple heat burns using the bindu method

are performed for deep seated diseases. Depending on the nature of the disease, the predominance of *doshas* and its site, 10-12 heat burns procedures are carried out with appropriate shalakas.

Agni Karma Paschatkarma:

Yashti madhu ghrita, Rakta chandan siddha ghrita, Ghritkumari majja or lepa of ghrita mixed with honey can be applied prior to dressing the wound caused by heat burn. After heat burn, the post burn scars are left behind which need proper wound care. The topical application of Yashti madhu ghrita ointment helps reduce the burning sensation and pain caused by the heat burns; they also aid with the healing process. The site of Agni Karma should be water-proofed to prevent wound infection. Sukshma triphala vati or Triphala guggul supplements are advised. Anti-inflammatory, analgesics and antibiotics may also be used if required [move to beginning of sentence depending of the severity of the wound. For chronic conditions, 3- 4 doses of Agni Karma should be implemented with an interval of 15 days for two-three months.

Contra-indications for Agni Karma:

Agni Karma should not be carried out for the following conditions: Pitta Prakriti, Bhinna Kostha, Durbalya, Vriddha, Antah Shonita, Anuddhrata Shalya, Bala, Bhiru, a person afflicted with a large number of Vrana and a person who is forbidden for Swedana. Swedana is contraindicated for suffering from: Pandu, Atisara, Guda Bhramsa, Udara Roga, Nasta Sangya, Chhardi, Shonhita, person under influence of alcohol, Vidagdha Rakta Pitta, Sthula, Ajirna, Kruddha, Trishna, Adhya Rogi, Garbhini, Prameha, Ruksha, Daurbalya, Shranta, Visha, Kshudha, Timir, Kshata and Oja Kshaya. According to Charaka, Agni Karma should not be carried out in the Vrana of Snayu, Marma, Netra, Kushtha and Vrana with Visha and Shalya.

Traditional Knowledge of Agni Karma upgraded and used in Modern Therapeutic Protocols [31]

There are two procedures similar to Agni Karma available in modern science, which possibly evolved from Traditional Knowledge. They are Electrocautery and Diathermy.



Figure 3: Tradionally used continuous heating method.



Electrocautery is one of the most useful instruments for surgical procedures. It consists of a platinum wire which can be heated to red hot by means of an electric current. Application of the red hot wire to tissues will either cut them or seal any bleeding points by coagulation. It is ideal for removing small skin tags and papilloma and for controlling bleeding. Conventional electrocauteries used a standard battery with a rheostat to control the temperature of the tip. Subsequently, with the change in domestic electricity supplies from D.C. to A.C, it was possible to use step-down transformers and rheostats; avoiding flat batteries. Most recently, with the introduction of nickel cadmium, rechargeable batteries with the ability to withstand high current, drain without damage, smooth thermal delivery is obtained. A variety of different shaped platinum tips are produced for different applications. Diathermy on the other hand is a bi-polar apparatus that can be used in almost all of the operative procedures. A very high frequency current is passed through the patient's body and heat is generated. Three types of diathermy are available: 1) Medicinal diathermy: It is mild degree and does not cause destruction of tissues, 2) Short wave diathermy: There is an elevation of temperature in the tissue by means of an oscillating electric current with an extremely high frequency (10-100 million cycles/seconds) and a short wave length of 3-30 meters and 3) Surgical diathermy: In this diathermy, a very high frequency current is passed through the patient's body and heat is generated. While one electrode is relatively larger and is strapped firmly to one limb, the other electrode has a pointed, moveable tip; this allows sufficient heat to be generated at the tip to coagulate or cut the tissue. The effect is localized because the current from the movable electrode spreads out throughout the patient's body, and travels to the larger electrode placed in contact with the patient's body.

The advantages of this technique include 1) Absence of bleeding and 2) Its effect is very similar to that of the electrocautery, and the heat generated automatically sterilizes the area treated. However, the main disadvantage is that current is likely to cause ventricular fibrillation and can prove fatal to the patients. Besides the above-mentioned types of cautery, there are other types of cautery that includes 1) Galvano Cautery, 2) Paquelin's Thermo Cautery, 3. Sotore's Cautery, 4) Chemical Cautery, 5) Solary Cautery, 6) Potential Cautery, 7) Cold Cautery, and 8) Sun Cautery. Each of these Cauteries has its own limitations and peculiarity in use.

Effect of Agnikarma

i. Effect on Metabolism:

Our hypothesis is that the site where heat burns are carried out improves the local tissue metabolism; therefore, various metabolic and rejuvenating changes take place at the site of heat burns. Consequently, this leads to an increased demand of oxygen and nutrients for the tissues at the site of heat burn. It also excretes the unwanted metabolites and toxins.

ii. Effect on the blood circulation:

After performing *Dahan*, the superficial, sensory nerves get stimulated. This leads to dilatation of local blood vessels, resulting in an increased blood circulation. Apart from this, it also decreases the viscosity of blood and thus leads to decreased blood pressure

iii. Effect on pain:

Due to increased local metabolism, the waste products (metabolites), which are produced, and thrown out. This normalizes the blood circulation, resulting in the



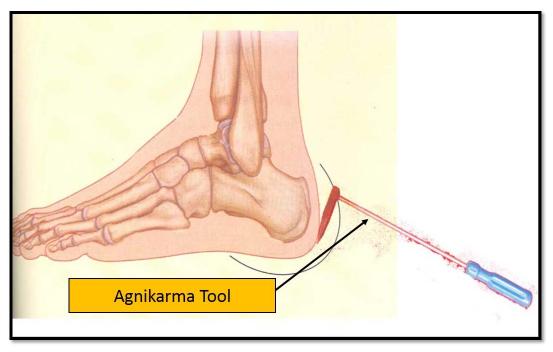


Figure 4: Agnikarma Tool and Desired Site of Agnikarma in Calcaneal spur/ Heel pain



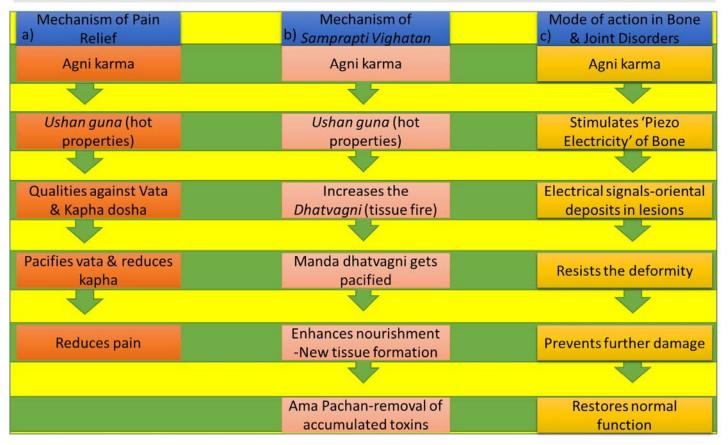


Figure 5: Schematic overview of the mechanism of pain relief: a) Mechanism of pain relief, b) Mechanism of Samprapti Vighatan and c) Mode of action in bone & joint disorders.

- reduction of pain intensity.
- iv. Effect of heat on nerves:
 - It reduces the excitability (quick response to stimuli) of nerves.
- v. Effect of heat on body temperature:
 - Heating affects the vasomotor centers causing a general rise in temperature. Some patients experience severe pain after heat burn therapy, but it subsides on its own in due course of time.
- vi. Agnikarma removes srotasavarodh, improves local blood circulation and neutralizes Sheeta, Chala, Khara and Ruksha Guna of Vyana Vata [2].

Conclusion

Ancient treatment modalities cannot be merely understood by viewing the results and understanding the underlying mechanisms through a modern science window. Reductionism may possibly end up in arriving at shortsighted conclusions that this time-tested treatment modality is ineffective. Rather, the underlying mechanisms such as the Agnikarma can only be understood and appreciated once the fundamental axioms involved in Ayurveda are clearly demystified, taking into

consideration the linguistic and historic-time barriers into the equation. Once these base-axioms are understood, even modern scientist and doctors can upgrade their knowledge about Ayurveda fundamentals several-fold to benefit all humanity. Because of its potential value to humanity, the authors hope that modern scientists and doctors who practice modern medicine with a reductionist approach may come to appreciate the wholesome approach involved in this treatment modality. Overall, this paper serves as the first comprehensive reference manual for Ayurvedic Physicians and integrated medical practitioners who are interested in applying Agnikarma Treatment.

Golssary

Agnikarma= Therapeutic Heat Burn

Agni= Heat / Fire

Karma= Action / Procedure

Dahan karama= Heat Burn

Krimi Chikitsa= Micro organism treatment

Bheshaja= Medicine

Yadnya= Religious procedure in which herbal/ plant barks are burnt

Shastrakarma = Surgical operation

Ksharakarma= Ayurvedic Caustic medicine

Trasana Chikitsa= Shock treatment

Sanyas= Comatose condition



Dwivedi and Lakshmanan, 2015

Mansgat Vyadhi= Muscular Diseases Agropaharaniya= Pre operative preparation

Anushalya= Para Surgical Vidhi= Procedure

60 Upakrama= 60 measures/ ways

Asthi, Snayu, Sandhigata Vataprakopa= Vata aggravation in Bone, Ligaments, Joints

Dahnopakarana= Instruments used in Heat burn

therapy

Pippali= Piper Logum Aja Shakrida= Dried Goat dunk

Godant= Cow's teeth Shara= Tip of metal arrow Shalaka= Iron rod

Jambavashtha= Probe with round tip

Kshaudra= Honey Madhuchhista= Honey wax Sneha= Oil base

Lauha= Iron

Ghrit= Clarified butter

Tail= Oit Vasa= Fats Majja= Bone marrow

Yashtimadhu= Glycyrrhiza glabra plant

Suchi= Needle Hem= Gold Rajat= Silver Tamra= Copper Kansya= Copper alloy Varti= Wicks Suryakant= Gems

Ardhendu Vaktra Shalaka= Spoon shaped probe Kalasthidal Tulya Shalaka= leaf shaped probe

Twakadagdha= Superficial Skin burn Mamsadagdha= Muscle burn

Sira, Snayu, Sandhi and Asthidagdha: Deep burn to

Vessels, Ligaments-Tendons, Bone, Joints

Arsha= Heamorrohoids Bhagandara= Fistula Granthi= Cvst Nadivrana= Sinus

Khair = Acacia Catechu plant Badar= Zizyphus fruit Nirdhoom= Smoke free

Pancha dhatu= Probe made of 5 Metals (Gold,

Silver, Copper, Iron, Zinc) Dravya= Material Akriti= Shape

Snigdha= Oil base/ Wet

Ruksha= Dry Sthanika= Local

Vicharchika= Eczema / Skin diseases Sthanantariya= Distal to the site of disease

Visuchika= Diarrhea Apachi= Lymphedenopathy Kandara= Tendon Krimidanta= Dental carries

Shalaka

Valaya= Circular ring shape Bindu= Circular disk shape Vilekha= Horizontal line shape Pratisarana= Rubbing the site Ardhchandra= Crescent shape

Swastika= Specific shape of a Swastika Yantra Astapada= It contains eight limbs in different

directions Dhatu= Metal Shalaka= Probe

Angula= ancient Indian units (Approximately 2

cm.)

Shiro rog= Diseases of head Sandhitgat vata= Osteo arthritis Ama vata= Rumatoid arthritis

Su.= Sushruta Cha.= Charak A.S.=Ashtang Sangrah A.H.= Ashtang Hriday B.P.= Bhavprakash Y.R.= Yog Ratnakar G.N.= Gan nath Sen Sha.= Sharangdhar

Shiro roga= Diseases of head Vataj Shiro rog= Transient severe headache Kaphaja Shiro rog= Dull persistent headache

Ardhav bhedak= Migraine

Bharu-lalata Vedana= Frontal headache Vartma Roga= Diseases of Eye lids Pakshama Kopa= Entropion ShlishtaVartma= Sticky eyelids Bisa Vartma= Folicular eyelids

Alaji= Cyst Arbuda= Tumour Puvalasa= Daccrocvstitis Abhisyanda= Conjuctivitis Adhimantha= Trachoma Lagana= Stye / chalazion

Medaja Ostha Roga= Lip hyperplasia Danta Nadi= Dental root sinus Krimi Danta= Dental carries Adhidanta= Extra teeth

Sheeta Danta= Hypersensitivity of teeth Danta Vidhradhi= Dental abscess

Jalarbuda= Cvst Nasa arsha= Nasal polyp Karnarsha= Polyp in ear Lingarsha= Vineral warts Yonya arsha= Vineral warts Chippa= Nail bed infection Kunakha= Paronychia Kadara= Corn

Balmika= Actinomicosis Jatumani= warts

Mashaka= Abnormal swelling

Tilakalaka= Nevus

Charmakila= Pedunculated growth

Prasupti= Numbness

Visha Chikitsa= Poison treatment Sarpna Damsa= Snake bite Alarka Visha= Oraganic poison Luta Visha= Lizard bite Mushaka Visha= Rat bite Gridhrasi= Sciatica

Vataja shoola in Twaka= Cutaneous transient

pain

Vishwachi= Frozen shoulder Galaganda= Cervical lymp node Ganda mala= Lymphedenitis Antra Vridhi= Internal abscess Shlipada= Elephantiasis / Filariasis

Nadivrana= Sinus Upadamsa= Sting bites Gulma= Fibroid Vishuchika= Dysentry Alasaka= Bowel dysfunction Vilambika= Delayed evacuation Sanyasa= Comatose condition Unmada= Schizophrenia

Yakrita Plihodara= Acitis with Hepato Spleeno

Shonita- Ati-Pravriti= Excessive bleeding

Ayurvedic, Volume 2, Issue 2: Pages 19-28

Visarpa= Erysipelas (Abscess) Grishma= Summer season

Sharad= 2 months Period after rainy season Pitta prakop= Aggravation of Pitta Pichhila diet= Semi solid oily diet

Triphala kwath= Herbal decoction (mixture of 3 plants- Emblica officinalis, Terminalia

bellirica and Terminalia chebula)

Ghrita= Clarified butter

Yashti madhu ghrita= Clarified butter medicated with Glycyrrhiza glabra herb Rakta chandan siddha ghrita= Clarified butter medicated with Pterocarpus santalinus herb Ghritkumari majja= Pulp of Aloe vera

Sukshma triphala vati / Triphala guggul=

Ayurvedic preparatory medicines

Pitta Prakruti= A person with Pitta constituent Bhinna Kostha= Gastric / Intesrtimal ulcer

(perforation)

Durbalya= Weak constituent

Vriddha= Old age

Antah Shonita= Internal heamorhage Anuddhrata Shalya= Embeded foriegn body

Bala= Child age Bhiru= Caward Vrana= Wounded person Swedana= fomentation

Pandu= Blood borne disease/ Anemia

Atisara= Loose motion Guda Bhramsa= Rectal prolapse

Udara Roga= Ascitis

Sthula= Obesity

Nasta Sangya= Smell dysfunction

Chhardi= Vomiting Shonhita= Hematemesis

Vidagdha Rakta Pitta= Purpura / urticaria

Ajirna= Indigestion Kruddha= Hunger Trishna= Thirst Adhya Rogi= Rich patient Garbhini= Pregnant Prameha= Diabetes Ruksha= Dried Daurbalya= Weakness Shranta= Exhausted Visha= Poison

Oja Kshaya= Immuno compromised person Vrana of Snayu, Marma, Netra, Kushtha = Ulcerative lesion in Tendon, Viatal organs, Eye,

Shalya= Foreign body

Timir= Blurred vision

Kshata= Wounded

Samprapti vightan= Correcting / Pacifying the

pathogenesis



References

- 1. Aignanaa kRtvaa yat $\$ kma- , Agnao: sMabainQa vaa yat $\$ kma-tdignakma I 3 sau.saU/1, 2 Dalhan Commentry.
- 2. A. Dwivedi, Ayurveda, 2014
- 3. Atharvaveda- Krimi Chikitsa-5/5/23-13
- 4. Atharvaveda- Bheshaja -6/11/6
- 5. Rigaveda- Bheshaja-.Aignaihma-syaBaoYajama\È-yajau-23/10
- 6. Rigaveda-Yagnya-savao-YaaMcaikO`maINa Mdhyaamaig nana mauKama \È Aqava-5 /23.
- 7. Supremacy of Agnikarma xaaradignaga-rIyaana\ iËyaasau vyaa#yaat: t_gQaanaaM raogaaNaamapunaBaa-vaat\BaoYajaSas~xaarOrsaaQyaanaaMt%saaQya%vaacca È(sau.sau. 12À3). syaBaoYajama\È-yajau.23/10
- 8. Charaka Samhita Sutrasthana- Trasana Chikista'-Ch.Su 24/46
- 9. Charaka Samhita Sutrasthana- Mansagata Vyadhi'. Ch.Su. 28/26.
- 10. Sushruta Samhita -Sutrasthana- Agropaharaniya -5/6.
- 11. Sushruta Samhita Sutrasthana 'Anushalya.'-8/15.
- 12. Sushruta Samhita -Sutrasthana 12/9-10.
- 13. Sushruta Samhita Chikitsasthana pakrama-1/8.
- 14. Sushruta Samhita Chikitsasthana- Asthi, Snayu, Sandhigata Vataprakopa-4/8.
- 15. Dalhana Commentary on Sushruta's Sushrut samahita-Chapter 12/
- 16. Acharya Vagbhata A.H. Su. 30/4
- 17. Sushruta S. Su. 12/7
- 18. Shalakas. Probe should be 12 angula (ancient Indian units) and the tip should be 2 anguli.

- 18. Types of shalakas and their corresponding temperatures
- 20. ta Sabdpa`aduBaavaao duga-MnQata %va@saMkaaocaSca %vagdgQao , kpaotvaNa-ta|lpaEvayaqauvaodanaa SauYksaMkuicatva`Nata ca maaMsadgQao .
- 21. kRYNaaonnatva`Nataa s~ aavasainnraoQasca isarasnaayaudgQao, ÉxaaÉNata kk
- 22. Saisqar va`Nata ca saMqyaaisQadgQao È sau.saU .12À8′
- 23. pa@vajambaivaisataM sannaM samyagdgQama\È A.saU. 30À6´
- 24 Sushruta- Su. Su. 12/4.
- 25. pichhila diet -S. Su. 12/5
- 26. Purva Parikshna raogasya saMsqaanamavaoxyaM samyak\nnarsya mamaaiNa balaabalaM ca È.
- 27. vyaaiQa tqatu-M ca samaIxya samyk\ ttao | QyavasyoaidiBaYgaaignkmaÈÈ ³sau.saU. 12À12´.
- 28. P. Lakshmanan, S. Lakshmanan, "Protecting Traditional Knowledge, Can Intellectual Property rights help?, Ancient Science, 1, 2, 2014.
- 29. Sushrutha. Varanasi: Chaukhambha Visvabharati; Sushrutha samhitha with English translation of text and Dalhana's commentary along with critical notes edited and translated by Priyavrat Sharma. Vol; Reprint, 2004.
- 30.Charaka. Varanasi: Chowkambha Sanskrit Series Office; Agnivesha's Charaka Samhita. Text with English translation. Translated by Ramkaran Sharma and Vaidya Bhagwan Dash. 1, 2005.
- 31. Cakrapanidatta. 2nd ed. Varanasi: Chowkambha Publishers; Cakradatta- (Sanskrit text English translation) Edited and translated by Priyavrat Sharma, 1998.

<u>Note:</u> VRI Press, Vedic Research Inc. is not responsible for any data in the present article including, but not limited to, writeup, figures and tables. If you have any questions, directly contact authors.

Visit us @ www.vedicjournals.com : DOI: http://dx.doi.org/10.14259/av.v2i2.176

Copyright © 2013-2015 VRI Press, Vedic Research, Inc. USA. All rights reserved.

Authors Column



Dr. Amar P Dwivedi, working as Associate professor & in-charge of Surgery (Shalya) Department at Dr.D.Y.Patil Ayurveda College, Navi Mumbai, Maharashtra, India. I completed my UG/ PG (Shalya) from R.A.Podar Govt. Ayurved Medical College, Mumbai, India & presntly doing my Ph.D. from MUHS i.e. Maharashtra University of Health Sciences, also PG guide (M.S. Shalya) at D.Y.Patil University and Member-BoS (Board of Study) for clinical board and Member-Board of Study in Shalya Tantra, at Jiwaji Govt. University, Gwalior & Member- Fellow ship & Certificate courses at MUHS & former Member-Anti Plagiarism committee at MUHS.



Dr. Shanmugamurthy Lakshmanan is a Research Scientist at Wellman Center for Photomedicine, Harvard Medical School, Massachusetts. His research focus is on Nanotechnology and Siddha-Ayurveda Photomedicines. He is the Vice President for International Research for the World Institute for Scientific Exploration and a distinguished Scientific Advisor and Head of the Indian Division of Sciences. He is also the Editor-in-Chief of two peer reviewed international journals: 1) Ancient Science and 2) Ayurveda, that has been established by VRI Press, Vedic Research, Inc. USA.

