Conceptual review of AshtavidhaShastrakarma-According to SushrutSamhita

Dr. Kiran Prakash Patil B.A.M.S¹, **Dr. K M Siddalinga Murthy** B. A. M.S, M.S (AYU)²

¹PG Scholar, Department of PG Studies in Shalya Tantra, ²Professor & H.O.D, Department of P.G Studies in Shalyatantra, ^{1,2}S.V.M Ayurvedic Medical College and R.P.K Hospital, Ilkal, Karnataka, India

ABSTRACT

Acharya Sushrut is revered by every surgeon, both Ayurvedic as well Allopathic, as the FATHER OF SURGERY. Modern day surgical practices have their roots from the surgical practices described in the ancient classical texts of Ayurveda. Out of the Bruhatrayee, Sushrut Samhita propounded by Acharya Sushrut is a samhita focusing on mainly surgical and para-surgical line of treatment of various diseases. The concept of 8 types of surgical practices was laid down by Acharya Sushrutaas AshtavidhaShastrakarma. These have proven to be the very strong and unshakable foundation on which modern day surgery is standing tall in its ever increasing glory. Chedan, Bhedan, Lekhan, Vyadhan, Eshan, Aharan, Vistravanand Seevan together make up the AshtavidhaShastrakarma^[1]. Every surgical procedure being practiced and being researched about today can be traced back and categorized into these AshtavidhaShastrakarma. This conceptual study is being carried out to study and analyze the AshtavidhaShastrakarma for better comprehension and practice of modern Shalyatantra.

KEYWORDS: Ashtavidha Shastrakarma, Surgery, Shalyatantra, Ayurved, Sushrut Samhita

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INTRODUCTION:

The vast knowledge is available to us in the form of various classical texts viz. Samhitas, Nighantus, Upanishads, Tikas etc. Sushrut Samhita is said to be *Shalyatantrapradhaan samhita*^[2]. Innumerable surgical interventions for the treatment of diseases, their indications-contraindications, procedure (pre, main, post), instruments, medications, diet, lifestyle etc. are all explained in detail by Acharya Sushrut. Many invaluable concepts regarding surgical and para-surgical procedures viz. Yantra-Anuyantra, Shastra-Anushastra, AshtavidhaShastrakarma, Ksharakarma, Agnikarma, Raktamokshan (Siravedh, Pracchana. Jalaukavacharan). Bandhavidhi. Vranashotha-VranaChikitsa etc. are well described on sushruth samhita. AshtavidhaShastrakarma, which is categorized under *Pradhaan karma*^[3], include Chedan Karma (Excision), Bhedan Karma (Incision), Lekhan Karma (Debridement), Vyadhan Karma (Puncturing), Eshan Karma (Probing), Aaharan Karma (Extraction), Vistravan Karma (Draining) and *Seevan Karma* (Suturing). Every surgical intervention can be categorized into these 8 *karmas*.

REVIEW OF LITERATURE

- Shalya Chikitsa Advantages:
- 1. Aashukriya: Fast results or relief
- 2. *Yantrashastraksharaagnipranidhaan*: In treatment *yantra, shastra, kshara, agni* all are utilized.
- 3. *Sarvatantrasaamaanya*: It encompasses all the knowledge present in other *tantra* also.^[4]
- Yantra: These are the instruments which aid the surgeon to remove the shalya (anything which causes discomfort or pain to either the body or the mind). They are blunt in nature, of 6 major types, 101 in number, of various dimensions and structures ^[5], and areuseful in the treatment of multiple diseases. Upayantra (Instruments which are not yantra but are supportive to them or can

be used as a substitute in an emergency in the absence of *yantra*), 25 in number, also play a role in treatment.^[6]

- Shastra: These are the sharp instruments used actually for the major surgical procedures. They are 20 in number, of various dimensions and structure^[7] and are vital for any surgery. Anushastra (Instruments which are not shastra but have similar action like that of shastra and can be used as a substitute in an emergency in the absence of shastra) are 14 in number and are advised to be used in specific situations for achieving result.^[8]
- ➤ Yogyavidhi: The repeated practicing of ashtavidhashastrakarma on substitues before actually performing on the patient with an aim of achieving mastery in them is Yogya. It ensures that the surgeon is well prepared and has the confidence to perform a surgery in turn ensuring the safety of the patient.^[9]
- AshtavidhShastrakarma The 8 methods of surgery are as follows,

The Indications and *Yogya*for each *karma* are mentioned in Table. No. 1

The Instruments to be used for each *karma (Shastra-Anushastra and Yantra-Upayantra)* are mentioned in Table. No. 2

1. Chedan Karma (Excision) –

- a. *Chedankarma:* The act of completely or partially cutting off a part of the body, which is either abnormal or diseased, and separating it from the body is *Chedan*.
- b. Method of holding instrument for *Chedan:* Instruments like *Vriddhipatra*, should be held in between *Phala* (blade) and the *Vrinta* (handle).*Karapatra*should be held at the base.^[10]
- c. Excision: Excision is defined as the act or procedure of removing by or as if cutting out especially surgical removal or resection.^[11]

2. Bhedan Karma (Incision) -

- a. *Bhedankarma:* The act of making a cut on the body in order to drain out the accumulated fluid or pus or to remove solid object like calculi etc. from the cavity within is *Bhedan*.
- b. Method of holding instrument for *Bhedan: Vriddhipatra* and all instrument used for *bhedankarma* should be held in between *Phala* (blade) and the *Vrinta* (handle).^[10]
- c. Types of Bhedan:

- 1. *Bhedan* The qualities of wound created by proper *Bhedan*are *aayat*(of adequate length), *vishal*(of adequate extensibility), *sama*(Regular with uniform edges), *suvibhakta* (properly separated from other structures) and *nirashray* (without any pockets for the collection of pus)^[12]
- 2. *Pratibhedan* This can be correlated to counter incision.
- 3. Bahubhedan This is taking multiple incisions.
- 4. Both these types of *bhedan*are done when there is a possibility that complete purification of a wound is not achieved by a single incision (Multiple tracts and multiple pus pockets). These are made use of as per the situation and condition at that time. These are performed so as to achieve complete drainage of *dosha* (pus) from all of its tracts/pockets. Incisions are advised to be taken where where*utsang* of *dosha* is seen.

TiryakBhedan - (Oblique incision)at eyebrows, cheeks, temporal region of head, forehead, eyelid, lips, gums, axilla, belly and groin.

6. *ChandramandalaBhedan* - (Circular incision) at hands and feet.

Shastra-Shastrationed in **Sciencision**) at anal region and penis.^[13]

- d. Complications of *AsamyakBhedan*: Proper method and precautions mentioned in *Samhitas* must be followed as it is. If there is improper *Bhedan*, then complications like damage to *sira*snayu, severe pain, delayed wound healing, excessive granulation tissue, hypertrophic scar or keloid formation etc. make take place.^[13]
 - e. Incision: Incision is basically a cut or a gash specifically a wound made especially in surgery by incising the body^[14]
 - 3. Lekhan Karma (Debridement) -
 - a. *Lekhankarma: Lekhan* refers to forceful scrapping of debris or unwanted hardened tissue which in turn facilitates better wound healing.
 - b. *Gati of Lekhan* –It must always be done in *Anulomgatias Pratilomagati* causes severe pain and increased bleeding.
 - c. Method of holding instrument for *Lekhan:Mandalagra* should be held by the hand in a slightly raised manner and held at the junction of *Vrunta* and *phala* and *Lekhana* should be done multiple times.^[10]
 - d. Multiple references regarding *lekhan*are also found in *Chikitsa sthana* of *Sushrut Samhita*, 1st chapter, *DwivraniyachikitsitAdhyaya*.

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Debridement: The surgical removal of lacerated, e. devitalized, or contaminated body tissue is known as debridement.^[15]

4. Vyadhan Karma (Puncturing or Paracentasis) -

- a. Vyadhankarma: The puncturing of a fluid filled cavity and draining out the fluid via a small opening is known as Vyadhan.
- b. Technique for Vyadhan:Kutharika should be held in the left hand, the puncture is made by using on it by the middle finger of the right hand and supporting it with thumb. Vrihimukhi should be held in between the thumb and the index finger in such a way that its handle remains covered by the palm.Aaraa should be held at the base.These should be inserted up to proper depth in the seat of disease and the dosha, fluid, pus etc. should be allowed to drain out.^[10]
- c. Puncturingfollowed by Paracentasis: A surgical puncture of a bodily cavity (as of the abdomen) with a trocar, aspirator, or other instrument usually to dram off an abnormal effusion for diagnostic or therapeutic purposes.^[16]

5. Eshan Karma (Probing) -

- a. Eshankarma: The passing of instrument in order to determine the position and situation of any foreign object or to determine the track in cases of in Sci for wounds at places of greater muscle mass. pus formation in Eshan.
- b. Method of holding instrument for *Eshan: Eshani* lopme*marma*, scrotum and abdomen.^[21] should be held by its base.^[10]
- c. Probing: The insertion of a probe (a slender medical instrument) with the purpose of exploration as of a wound or a body cavity^[17]

6. Aaharan Karma (Extraction) -

- Aaharankarma: The act of getting hold of any a. solid object or foreign body with the purpose of uprooting it and pulling it out of the body is Aaharan.
- b. Method of holding instrument for Aaharan: Instrument to be held according to comfort.^[10]
- c. Extraction: Extraction is the act or process of extracting something. Usually it is the abnormal tissue or any foreign body which is of solid nature from the body.^[18]

7. Vistravan Karma (Draining) -

a. Vistravankarma: The process of letting out of fluid accumulated in a closed cavity is Vistravan.It includes both raktramokshan(Bloodletting) and Puyavistravan (Pus drainage from pus pockets)

- **b.** Method of holding instrument for *Vistravan*:Instrument to be held near its tip.^[10]
- c. Drainage: The act, process, or mode of draining is drainage. Fluids or pus accumulated in the body cavity are drained out in this process.^[19]

8. Seevan Karma (Suturing) -

- a. Seevankarma: The tying up of the 2 margins of any wound to facilitate wound healing is known as Seevan.
- b. Contraindications:
- 1. Wounds affected by Agni, Kshara, Visha.
- 2. Wounds which emits *Marutha* (gas).
- 3. Wounds which have blood or foreign body inside.

In these cases, the wound should be cleaned and the dust, hairs, nails and bone pieces be removed. If they are not removed from the wound they cause severe suppuration of wound along with different types of pain.^[20]

- c. Types of *Suchi* (needle):
- 1. Vrutta (Circular) 2 angula length and used for wounds at places of lesser muscle mass and at joints.
- 2. Aayat (Straight) 3 angula length and used for wounds at places of greater muscle mass.
- ona 3. *Tryasraa* (Triangular) 3 *angula* length and used
- Researc 4.a. Dhanuvakra (Semicircular) Used for wounds at
 - Technique of Seevan: Wound toileting must be d. done prior to suturing. Wound edges should be slightly raised up, and it is approximated, and then sutured.^[22] If bite is taken very near the margin tear is possible and results in wound dehiscence and if the suture are taken very far from the margin there may be tension suture which cases very much pain at the operative site. So the needle should be passed neither very far nor very near from the margins of wound.^[23]
 - Sutra of Seevan: Fine thread, ashmantakvalkal, e. shana sutra, kshauma sutra, tendon of animals, hair, *murva*, fibresofguduchi etc.^[22]
 - f. Types of Seevan:
 - 1. *Vellitaka*(Continous suture)
 - 2. Gofanika(Reinforcing/Blanket/Interlocking Suture)
 - 3. Tunnasevani(Draning/Zigzag Suture)
 - 4. *Rujugranthi*(Interrupted Suture)^[22]
 - Suturing: A suture is defined as a strand or fiber g. used to sew parts of the living body i.e. a stitch made with the purpose of joining two free ends of a body structure. This act or sewing or stitching is known as suturing.^[24]

Sr.no.	Shastra karma	Instrument					
		Shastra ^[25]	Anushastra ^[26]	Yantra ^[27]	Upayantra ^[28]		
01.	Chedan Karma	Mandalaagra	Twaksaar				
		Karapatra	Sphatika				
		Vruddhipatra	Kaach				
		NakhaShastra	Kuruvinda				
		Mudrika					
		Utpalpatra	Nakha				
		Ardhadhaar					
	Bhedan Karma	Vruddhipatra	Twaksaar				
		NakhaShastra	Sphatika				
02.		Mudrika	Kaach				
		Utpalpatra	Kuruvinda				
		Ardhadhaar	Nakha				
03.	Lekhan	Mandalaagra	Kshar				
	Karma	Karapatra	Kshur				
	Vyadhan Karma	Kutharika					
		Vrihimukha					
04.		Aaraa					
		Vetaspatrak	man	~			
		Suchi		All the second s			
~ ~	Eshan		Baalenti	ic s			
05.	Karma	Eshani	Ankur				
		- A st.	Anguli				
	Aaharan Karma	BSI	IJIORL	Swastika	AshthilashmaMudgar		
			nternational J	ournal Sandansha	Paanitala		
06.		Badisha Dantashanku	f Trend in Sci Nakha	entific Taal Naadi	Anguli		
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		S E		Nasarbudharan)	Shakha		
		Suchi	ISSN: 2456-64				
	VistravanaKarma	Kushapatra		•• " ¹⁰ 2			
		Aatimukha	🗤 Jalauka	We S			
07.			<u>Gojivhapatra</u>	Naadi	Mukha		
		Antarmukha	Shefalikapatra		1111111111		
		Trikurchaka	Shaakpatra				
		Eshani					
00	Seevan				Antarvalkal		
08.	Karma	Suchi			Baal		

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Sr.no.	Shastra karma	Yogya ^[29]	Indications		
01.	Chedan Karma	Pushpafal Alabu Kaalindak Trapusa Evaru Karkaaruka	 Bhagandar specially shataponaak Aamgranthi Tilakaalak Vranavartma Arbuda Arsha Charmakeela AsthimamsaagamSh alya 	 Jatumani Maamsasanghaat Galashundhika Snaayukotha Sirakotha Vaalmika Adrusha Upadansha Mamsakandi Adhimamsa^[30] 	
02.	Bhedan Karma	Udakapankapurna Druti	 Vidhradhi (vataja, pittaja, shleshmaja) 	AnushayiNaadivrana	

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		Basti Prasevaka	 Visarpa (vataja, pittaja, shleshmaja) Vruddhi Vidarika Prameha pidaka Shofa Stanaroga Avamanthak Kumbhika 	 Ekavrunda Vrunda Pushkarika Taalupupputa Tundikeri Gilayu Sheegrapakibhagandarpidi ka^[31] 		
03.	Lekhan Karma	Saromacharma	 Rohini (vataja, pittaja, shleshmaja, sannipataja) Kilaasa Upajivha Medojadantavaidarb ha 	 Granthi Vartma Adhijivhika Arshamandal Mamsakandi Mamsonnati^[32] 		
04.	Vyadhan Karma	Mrutapashusira Utpalnaal	BahuvidhasiraMutravruddhi	• Dakodara ^[33]		
05.	Eshan Karma	Ghunopahatkashta Venu Nala Naali	NaadivranaSashalyavrana	• Unmargivrana ^[34]		
06.	Aaharan Karma	Panas Bimbifala Bilwafalamajja Mrutapashudanta	 Sharkara Danta Karnamala Ashmari 	 Shalya Mudhagarbha Varcha^[35] 		
07.	VistravanaKar ma	Madhucchishta Upalitashaalmalifa laka	 5 vidradhi (except tridoshaja) Kushta VedanayuktaVayu EkadeshaShofa Paalyaamayaa Shleepada VishjushtaRakta Arbuda Visarpa Granthi (vataja, pittaja, shleshmaja) 3 Upadansha 	 Stanaroga Vidarika Sushira Galashaaluka Kantaka Krumidanta Dantaveshta Upakush Sheetad Dantapupputa Oshtharoga (pittaja, raktaja, kaphaja) Kshudraroga^[36] 		
08.	Seevan Karma	Sukshmaghanavast raanta Mruducharmaanta	Vrana which are - • Medasamuttha • Bhinna • Sulikhita	 Sadyovrana Chalasandhisthita^[37] 		

CONCLUSION

AshtavidhaShastrakarma described extensively by Acharya Sushrut can be rightly said to be the base of modern surgery. Even though we come across many differences as compared to the data of ancient texts, they are nothing but modifications done over the years in order to need of the hour. But their basic principles do not vary even by a minute factor. Not only the surgical procedures, even the instruments used, the concept of anesthesia, pre-operative preparation, post-operative care, possible complications and their management etc. all have their roots in these *Samhitas*. They were researched upon, developed, modified into better a version which was necessary for their respective time. Hence the basic framework of today's prestigious field of Surgery is an upgraded version of the *Shalyatantra* branch of *Ayurved*. International Journal of Trend in Scientific Research and Development @ www.ijtsrd.com eISSN: 2456-6470

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