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Improvised Agnikarma with Infrared Photocoagulator in Direct Inguinal hernia – A Single Case Report

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ABSTRACT:

Inguinal hernia is more common compared to other types of hernias. It often present with a lump over inguinal region associated with dragging type of pain. In the management conservative measures are poor and surgical intervention is the main mode of treatment. In *Ayurveda* inguinal hernia can be correlated to *Antravrddhi*. In the treatment of *Antravrddhi Agnikarma* is mentioned by ancient *Acharyas*. The *salaka* named *Ardhenduvaktrasalaka* is difficult to use at the *Vamkshana* as the depth of *Agnikarma* cannot be controlled. Infrared photocoagulator is an advanced equipment in which the depth of *Agnikarma* can be controlled manually. Improvised *Agnikarma* with Infrared photocoagulator was done in a patient with inguinal hernia in one sitting. Patient was assessed by cough impulse and ultrasonography. After the procedure there was considerable symptomatic relief. The size of the swelling was reduced and reduction of 0.2 cm defect size was observed.

KEY WORDS: *Antravrddhi,* Improvised *Agnikarma,* Inguinal Hernia, Infrared photocoagulator.

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INTRODUCTION:

The term "hernia" is derived from the Latin word for rupture. Hernia is the protrusion of a viscus or part of a viscus through an abnormal opening in the walls of its containing cavity. [1] Reducible, Irreducible, Obstructed, Strangulated and Inflammed are the types of hernia. Other types based on site are inguinal, femoral, umbilical and incisional hernia. An inguinal hernia can be of direct and indirect.

Aetiology of inguinal hernia includes a painful muscular effort or strain occasioned by lifting a heavy weight, or indeed any condition which raises intra-abdominal pressure is liable to be followed by a hernia. An indirect inguinal hernia travels down the inguinal canal through the outer side of the spermatic cord & a direct inguinal hernia protrudes out directly forwards through the posterior wall of the inguinal canal. Indirect one is the commonest form in the young persons whereas a direct hernia is common in middle aged persons. [2]

The prevalence of the abdominal wall hernia is estimated to be 1.7% for all ages and 4% of those who are above 45 years of age. The inguinal hernias constitute for 75% of the abdominal hernias. [3]





In Ayurveda Vriddhi mentioned by Susruta & Vaabhata in nidanasthana. Vrddhi is described as one which increases in size. Both Susruta and Vagbhata mentioned about 7 types of *Vriddhi*. They are *vatika*, kaphaja, raktaja, paithika, medoja, mutravrddhi & antravrddhi. [4-5] Antravrddhi can be correlated to inguinal hernia. Agnikarma is mentioned in the vamkshanastha antravriddhi by both Susruta & Vaabhata. The salaka named Ardhenduvaktrasalaka is mentioned by Acharyas for Agnikarma in antravrddhi. [6-7] The instrument named Infrared Photocoagulator is a modern equipment used widely in the treatment haemorrhoids. tattoo removal. chronic rhinitis etc. [8-9]

Infrared Photocoagulator is an advanced equipment where an intense beam of infrared light is created results in inflammation and fibrosis of the site. The salaka mentioned by Acharyas named Ardhenduvaktrasalaaka is not safe for using at the vamkshana as its working cannot be controlled effectively. Hence we could use Infrared photocoagulator as a dahana upakarana for Agnikarma at groin region. The intention of the treatment was preventing the herniation of bowel by forming scar tissue over the site.

CASE HISTORY:

A patient of 58 years old complaints of dragging pain and swelling of right inguinal region since last 3 years. He had mild swelling over left inguinal region developed since1 year. He had no history of diabetes mellitus and hypertension. He had a history prostatomegaly (Grade of I) cholelithiasis. He consulted an allopathic hospital and they suggested surgery for inguinal hernia as the management. As he was not willing to do surgery, the patient came in our Outpatient department and underwent internal medications for 1 week (Table.1). Then he got some symptomatic relief especially dragging pain reduced but the swelling did not reduced. Symptoms recurred when he engaged in lifting heavy weights. Then he attended in our OPD. At that time he was given one day sitting of improvised *Agnikarma* by Infrared Photocoagulator (Fig.1) over right and left inguinal region (Fig.3).

Patient was examined in lying and standing position. There was a spherical swelling over right and left inguinal region. Size of the swelling was 3cm * 2cm over right and 1.5 cm * 1cm over left. Cough impulse and invagination test was positive. It was a direct inguinal hernia found as reducible Patient was diagnosed as bilateral inguinal hernia through ultrasonography(Fig.5). Diagnosis was done by clinically and by ultrasonography

THERAPEUTIC INTERVENTION: Materials required:

Infrared Photocoagulator, Xylocaine -1ml for local anaesthesia, Sterile drapes.

Operative procedure:

Informed consent was taken prior to procedure. Infrared photocoagulator was kept on. Timer setting was placed at 1.25-1.5 sec. Local Anaesthesia with 1 ml Xylocaine was given.

Improvised *Agnikarma* was done with the probe (KL -010 Light guide 6mm *220) at superficial inguinal ring as the direct inguinal hernia protrudes out through the superficial inguinal ring in 4 spots to induce fibrosis, after reducing the contents of the hernia.

Post-operative Procedure:

A gauze pad of *kumariswarasa* was given at the site of *Agnikarma*.

Patient was advised to take rest. After the Procedure there was swelling and patient was advised to avoid coughing, straining



during defecation and lifting heavy weights.

Patient was assessed clinically after 2 weeks and at that time size of the swelling was reduced mildly. Reduction of pain and discomfort was found. Then an ultrasonography was taken 1 month after procedure (Fig .6)

Patient was advised to refrain from all physical activities affecting abdominal muscles such as lifting heavy weight and coughing, straining during defecation for 2

months. Patient didn't noticed about prostatic complaints till he underwent ultrasonography. He was given no medicine for BPH.

FOLLOW UP AND OUTCOMES:

The follow up was given after 2 months of first sitting. At that time dragging pain reduced completely and size of the swelling was reduced mildly and there was no recurrence. He develops pain when he continues standing for long time.

Table-1: Treatment and Timeline

Date	Intervention	Remarks
23/03/2021	Gandharvahastadi Kashayam 90 ml bd	constipation relieved
	Hingutriguna taila -5 ml HS	swelling persists
01/04/2021	Improvised Agnikarma with infrared	-
	Photocoagulator over right inguinal	
	region at superficial inguinal ring in 4	
	strokes	
16/04/2021	Internal medications continued	swelling reduced mildly
		Discomfort reduced
04/05/2021	Follow up- Internal medications	swelling reduced
	continued	



Fig-1: Infrared photocoagulator



Fig-3: During treatment



Fig-2: Before treatment



Fig-4: After treatment



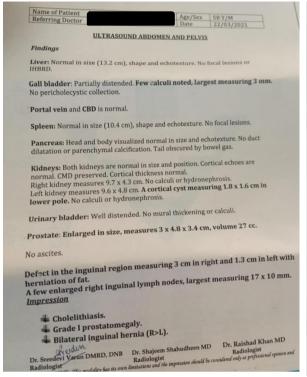
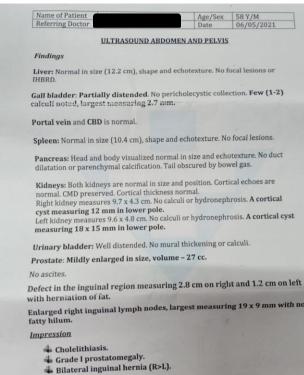


Fig-5 USG Report BT (22/03/2021)

DISCUSSION:

Susruta mentioned about four types of treatment -Bheshaja, Shastra, Kshara and Agnikarma. Bheshaja includes internal medications that means samana oushadha .Vatavrddhi chikitsa is opted for Antravddhi mainly includes Samana oushadha Siravedha and Agnikarma. Agnikarma is best among Anushastras and disease treated by Agnikarma will not recur. Inguinal hernia always presenting with a swelling over inguinal region will make a discomfort physically. mentally and **Improvised** Agnikarma with infrared Photocoagulator aims to cure the patients who are not willing to do surgical management. Mesh repair is the surgical repair with maximum efficiency but many patients develop allergies as the mesh used is synthetic in nature.So improvised Agnikarma with Infrared Photocoagulator is an advanced treatment option in this modern era.

The infrared light emitted from the probe will induce an inflammatory response at the *Agnikarma* site. Fibroblasts, collagen fibres, elastin etc proliferates and scar formation



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Fig-6 USG Report AT (06/05/2021)

takes place. Thus herniation of bowel is prevented. Thus infrared coagulation is an improvised technique to do *Agnikarma* in inguinal hernia. Also it will be helpful to cure hernia in patients who are not willing to do surgery with minimum complications.

CONCLUSION:

In this case study patient was patient has shown reduction in the size of the swelling and discomfort after the procedure. Ultrasonography shows reduction of 0.2 cm over right side and 0.1 cm over left side. Here is an attempt to put forward an improvised technique for *Agnikarma* in inguinal hernia. More studies should be conducted by increasing the number of sittings and in large samples.

LIMITATION OF STUDY:

The limitation of procedure is the cost of the equipment. As it is little expensive it could be difficult to kept owned by a doctor.





CONSENT OF PATIENT:

The consent has been obtained from patient at the time of registration for treatment and publication without disclosing the identity of patient as per medical ethics.

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CONFLICT OF INTEREST: Author declares that there is no conflict of interest.

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