

Ayurlog: National Journal of Research in Ayurved Science



website: http://www.ayurlog.com

Volume: 7^h | Issue: 1st | January 2019

Clinical Evaluation of Efficacy of *Ayurvedic* Management of *Jalodara* W.S.R. to Tuberculosis induce Ascites: A Case Report Hemlata Soni*¹, Kartar Singh Bansal²

- 1. Lecturar, Department of Kayachikitsa, Punjab Ayurvedic collage, Shriganganagar, Rajasthan, India.
- 2. Lecturar, Department of Kayachikitsa, Punjab Ayurvedic collage, Shriganganagar, Rajasthan, India. Contact no.-918005948380, <u>Emailto-kartarbansal87@gmail.com</u>

*Corresponding author: Contact no.- 919413267381, Email ID- hssoni8989@gmail.com

Abstract: Tuberculosis (TB) is a serious infectious disease. The diagnosis of TB is a challenge among older patients because of its nonspecific presentation, especially of extra pulmonary for cases Gastrointestinal involvement had been reported to be 55%-90% in patients with active pulmonary TB before the advent of specific anti-TB treatment. But it was regressed to 25% after the development of specific drugs. TB ascites is known as Jalodar or Dakodar in Ayurvedic system. Ayurvedic management for this disease includes oral medications as well as Virechan for specific treatment to reduce accumulation of fluid, as well as treatment to remove the obstruction Ksheerapan for diet regulation plays an important part of management of this diseases. The present case is uncomplicated tuberculosis induce ascites since 6 month. Patient was treated with "Punarnava Mandura" (250gm),"Gudadraka Yoga" (6gm), "Pippali Vardhman Rasayan" (1to5gm) and "Arand Tail" (25ml) for 30days. The patient got relief from after 7 days of treatment.

Keywords: Ascites, Tuberculosis, *Jalodara, Punarnava Mandura, Gudadraka yoga, Pippali Vardhman Rasayan* and *Arand Tail*.

Introduction:

Jalodara considered as a disease, instead of a symptom or a sign of other diseases. It is of two types i.e. Svatantra (independent or primary) and *Paratantra*¹ (secondary) that is due to some other disease. According to the modern conception Ascites is sequel to some other disease or its complication. In the developed world, the most common cause is liver cirrhosis. Other causes include tuberculosis, failure, pancreatitis, cancer, heart and blockage of the hepatic Tuberculosis (TB) is a serious infectious disease. The diagnosis of TB is a challenge among older patients because of its nonspecific presentation, especially for cases of extra pulmonary TB. Extra pulmonary TB occurs in about 15 % of cases worldwide. In 2002–2011, accounted for 21.3 % of TB cases among people aged 65 years or older (Sandgren et al., 2013). Gastrointestinal involvement had been

Website: http://www.ayurlog.com Volume 6th | Issue: 3rd April 2018

reported to be 55%-90% in patients with active pulmonary TB before the advent of specific anti-TB treatment. But it was regressed to 25% after the development of specific drugs³. TB ascites is known as Jalodara or Dakodara in Ayurvedic system. According to Ayurveda main causes for Udar Roga are Mandagni and Garvisha. There are eight types of Udar Roga, in which Vataj, Pittaj, Kaphaj, Yakrutplihodar, Sannipataj, Jalodara is sequensaly more hard to treat⁴. Susruta called all Udararoga as "Mahagada" i.e. grave ailments and difficult to treat. Ayurvedic management for this disease includes oral medications as well as Virechan for specific treatment to reduce accumulation of fluid, as well as treatment to remove the obstruction Ksheerapan for diet regulation plays an important part of management of this diseases.⁵ It is useful in case of ascites as it has laxative and diuretic action which helps to excret excess fluid out of body.

CASE REPORT:

A 65 year old female patient, reported to Kayachikitsa OPD, in National institute of Ayurveda, Jaipur, Rajasthan, India, on 11/03/2018 with complaint of *Udarvriddhi* (increased abdominal girth), Swaskrichata (breathing difficulty on exertion along with sitting Droubalya position), (generalised weakness), Alpakshudha (anorexia) since 6 months and Ubhay padashotha (bilateral pedeal oedema) since 2 month. On history taking Patient was said to be apparently normal 6 months

back. Then she had been suffering from distension of abdomen after meal. After that she felt gradually increase abdominal girth and breathing difficulty on exertion along with lying position. She got pain in abdomen which causing discomfort. She also suffering from bilateral pedal edema which was pitting in nature since 2 months. Patient is also having complaints of decreased appetite and weakness in all over body. He took modern medication but got no relief, then patient decided to take Ayurvedic management.

Past History: H/O Koch's abdomen - 2 year back, took ATT (completed course). Family history: H/o pulmonary tuberculosis in her father.

Personal History:

Type of diet-veg

Occupation-house wife

Bad habits-chewing guttaka since 34 years

Table 1: General Examination:

*		
Pulse	80 beats /minute, Regular	
BP	100/76 mm hg	
R.R.	18/min	
Temperature	99.4 ⁰ F	
Height	160cm	
Weight	57kg	
Appetite	Poor	
Bowel	Constipation	
Micturition	2-3 times /day ,1 times at	
	night	
Sleep	Distrubed	
Pallor	Present	
Icterus	Present	
oedema	B/L pedal oedema present	

Table 2: Systemic Examination

R/S	Asymmetrical chest, no tenderness, B/L reduce air entry, Pleural rub sound present		
	on basal zone of chest.		
CVS	S1 S2 normal, no abnormal sound.		
CNS	Patient is well oriented to time, place and person.		
	Inspection	Abdomen was distended with bulging of flanks. Veins on the wall	

P/A		appears prominent. Umbilicus transverse.		
	Palpation	Soft, tenderness in rt. & lt. hypocondric region and rt. Iliac region.		
		Hepatomegaly (2 finger below the right costal margin) and		
		splenomegaly (grade 2)		
	Percussion	Shifting dullness present		

TREATMENT PLAN:

Table 3:

Sr.	Medicine	Dose	Duration	Anupana
No.				
1	Tb. Punarnava Mandura ⁶	250mg	BD	Makoya Arka
2	Gudadraka yoga ⁷	6gms	BD	Cow milk
	(Guda + Adraka)	(3gms grated Adraka	(Before meal)	
		+		
		3gms Guda)		
3	Pippali Vardhman	1 st Day- 1 g	BD	Cow milk
	Rasayan8	(Increased 1 g daily)		
		5 th Day to 10 th Day - 5 g		
		11 th Day-4 g (tapered by 1 g daily)		
		15 th Day-1g		
		(repeat same processor for		
		next 15 days)		
4	Arand Tail ⁹	25ml	HS	Cow milk
5	Diet	Patient is only on Cow milk		

Total duration of treatment: 30 Days

OBSERVATION & RESULT:

Table 4: Abdominal girth assessment (in cm)

Date	At umbilicus	Xiphisternum to Umbilicus	Umbilicus to
			pubicsymphysis
11.03.2018	92	23	17
18.03.2018	88	22	17
25.03.2018	85.5	21.5	16.5
1.03.2018	82	20	16.5
9.03.2018	80.5	20	16.5

Table 5: Pedal edema assessment (mid-point B/W knee and ankle joint)

Date	Right (cm.)	Left (cm.)
11.03.2018	29	30
18.03.2018	27.5	28
25.03.2018	25	26.5
1.03.2018	24	25
9.03.2018	23.5	24

Table 6: Clinical finding assessment

Date	Weight (in kg.)	24 hour urine output (in ml)	Breathing difficulty	Generalized weakness	Anorexia
11.03.2018	57	500	++	+++	++
18.03.2018	55	650	++	++	++
25.03.2018	54	800	+	++	+
1.03.2018	52	1000	+	+	-
9.03.2018	52	1000	+	+	-

^{+:} indicate severity of complain, -: indicate absent of sign &symptoms

Table 7: Laboratory investigations before and after treatment

Test	Before Treatment	After Treatment	
Hb%	8.1gm/dl	9.2gm/dl	
RBC	$3.32 \times 10^6 / \text{mm}^3$	$4.73 \times 10^6 / \text{mm}^3$	
TLC	13,640per mm3	12,500per mm3	
ESR	36mm in one hour	20 mm in one hour	
Platelet count	1,24,000 /μL	1,132,000/μL	
HB _S Ag	Negative	Negative	
Mantoux Test	Negative	Negative	
Urine analysis	Albumin trace.	Albumin absent.	
	p ^H -6.0	p ^H -6.8	
	Pus cells 1-3/hpf	Pus cells absent	
RFT	Sr.Urea-33mg/dl , Sr.Creatinine-0.92mg/dl	Sr.Urea-31mg/dl,	
		Sr.Creatinine-0.92mg/dl	
LFT	Sr. Bilirubin Total- 3.6,	Sr. Bilirubin Total- 2.5,	
	Direct bilirubin- 2.0	Direct- 0.9,	
	Total protein-5.5g/dl	Total protein-6.2g/dl	
	SGOT- 62 IU/Lit,	SGOT- 50 IU/Lit,	
	SGPT- 86 IU/Lit	SGPT- 74 IU/Lit	
USG Abdomen	Cirrhosis of Liver with Splenomegaly with	Cirrhosis of Liver with	
	moderate Ascites. Gall bladder is	Splenomegaly with mild	
	thickened.	Ascites. Gall bladder is	
		thickened.	

DISCUSSION:

Jalodara is Swedayaha and Ambuvaha Strotodushti janyavikar¹⁰. Due of obstruction Swedavaha and Ambuvaha Strotas excessive accumulation of fluid, especially in peritoneal cavity. So, Patient was treated with an integrated approach of Avurvedic treatment. Appreciable results were observed in the form of reduction in abdominal girth, decreased pedal edema, increased appetite, and increased strength.

1. Most of the drugs in "Punarnava Mandura" that is Triphala, Trikatu, Chitraka, Vidanga and Pippalimula are having appetizer, digestive and carminative properties. The components like Trivrita, Haritaki and Danti act as purgative which help in relieving constipation mainly found in old age. Punarnava helps to reduce edema by its Shothhara action. Other drugs that

is Amalaki, Danti, Pippali, Kushtha and Daruharidra are documented as drugs which are having immunomodulator and antioxidant properties. Mandura Bhasma by virtue of Rasa and Guna it pacifies aggravated Pitta and maintains the normalcy, improves the metabolism. The ferric and ferrous fractions of Mandura provide sufficient amount of iron to the living matter, which is needed for normal erythropoiesis. As Gomutra (Cow's urine) is one ingredient of Punarnava works Mandura, as *Rasayana* by its antioxidant property¹¹.

2. The ingredients of "Gudadraka Yoga" are Adraka & Guda, in which Adraka is of Katu Rasa, Ushna Virya & Tikshna Guna which is mainly Kaphashamak, while Puran Guda is of Madhur Rasa, Ushna Virya & having property of Tridosha shaman.¹² In Agnimandya mainly there is

vitiation of *Kapha Dosha &* its *shaman* occur with help of *Gudarak Yoga*. The *Gudaraka Yoga* is consumed before food as it is good appetizer.

- 3. *Pippali* having *Shothanashak* property. It has *Katu Rasa* therefore, this property subsides the *Kapha Dosha* and enhance the biological fire (*Jatharagni*). As per text *Pippali* is *Rasayana* which acts on *Agni* level and nourish the malnourished *Dhatu*.
- 4. According to Aacharya Vagbhata "Arand Tail" is Aavarakadosha Shamaka. Arand has Usna Virya so that it subside the Kapha and Vata Dosha.14 Castor oil has been reported to have purgative, analgesic and anti-microbial properties. It might be act by diminishing reabsorption of water from intestine, by stimulating erves in small & large intestines resulting in increased motility. Along with this, patient was advised to take only cow milk. it is a balanced diet so it prevents any weakness in body, increases the protein level which further lessens the swelling occurring due to reduced oncotic milk pressure. Cow possesses properties like *Ojowarhdhaka* (increases immunity), Dhatuwardhaka (nourishes body tissue), Balya (improves strength) and best *Rasayana* (good rejuvenator).¹⁵ The patient is given this treatment for one month and admirable result was obtained. During treatment period, patient passes loose watery stool 5-6 times a day. Therefore, this treatment is useful in ascites and generalized edema by excreting excess fluid out of body.

CONCLUSION:

In this case study of tuberculosis induce ascites observed that effect of Ayurvedic medicines are very satisfactory. Patient got significant relief, but it is only a single case. Large scale clinical trial should be done to establish it as general treatment for ascites.

SCOPE OF STUDY:

This case study shows very promising results in tuberculosis induce ascites. There is great scope for further study in ascites, which can overcome with less financial budget & less side effects.

REFERENCES

- 1. Kaviraj Atridev Gupta, Ashtanga Hridaya Critics Of Vidyotini, Nidansthana, chapter12. Varanasi: Choukhamba Sanskrit Sansthan, 14 ed.vikram sanwat 2059. Page 513.
- 2. P. J. Mehta's Practical Medicine, Published by Dr. Shilpa Pradip Mehta, Mumbai; Edited by Nihar Mehta, Shilpa Mehta, Shashank Joshi Twentieth Edition; Page no 67, 70, 71.
- Davidson's Principle & practice of Medicine; CHURCHILL LIVINGSTONE ELSEVIER Publishers; Edited by Nicki R. Colledge, Brain R. Walker, Stuart H. Ralston Twenty-first Edition; Page no 943, 936.
- 4. Dr.Brahmanada Tripathi, *Charak Samhita of Maharshicharak*, Chukhambhaprakashan, Varanasi, 2011, *Chikitsasthan*, chapter 13, verse no.32, page no.384, 389.
- 5. Dr.Brahmanada Tripathi, *Charak Samhita of Maharshicharak*,
 Chukhambhaprakashan, Varanasi,

- 2011, *Chikitsasthan*, chapter 13, verse no.32, page no.392, 412.
- 6. Dr.Brahmanada Tripathi, *Charak Samhita of Maharshicharak*, Chukhambhaprakashan, Varanasi, 2011, *Chikitsasthan*, chapter 16, verse no.32, page no.501.
- 7. Dr.Brahmanada Tripathi, *Charak Samhita of Maharshicharak*, Chukhambhaprakashan, Varanasi, 2011, *Chikitsasthan*, chapter 12, verse no.32, page no.365.
- 8. Dr.Brahmanada Tripathi, *Charak Samhita of Maharshicharak*, Chukhambhaprakashan, Varanasi, 2011, *Chikitsastan*, chapter 1-3, verse no.32, page no.40-41.
- 9. Dr.Brahmanada Tripathi, *Charak Samhita of Maharshicharak*, Chukhambhaprakashan, Varanasi, 2011, *Chikitsasthan*, chapter 13, verse no.32, page no.408.
- 10. Dr.Brahmanada Tripathi, *Charak Samhita of Maharshicharak*, Chukhambhaprakashan, Varanasi, 2011, *Chikitsasthan*, chapter 13, verse no.32, page no.383.
- 11. Prof. P.V. Sharma, Dravyaguna Vijnana, Basic Concepts, Volumme II, Varanasi, Choukhambha Bharati Academy, Revised Edition 2011, Page no 417,441,442,630.
- 12. The Ayurvedic pharmacopoeia of india-part-1, Gov.ofIndia ministry of health & family welfare Dep. of Ayush. New Delhi; vol-2, pg.no.36.
- 13. Prof. P.V. Sharma, Dravyaguna Vijnana, Basic Concepts, Volumme II, Varanasi, Choukhambha Bharati Academy, Revised Edition 2011, Page no 417.

- 14. Kaviraj Atridev Gupta, Ashtanga Hridaya Critics Of Vidyotini, Sutrasthana, chapter 5. Varanasi: Choukhamba Sanskrit Sansthan, 14 ed.vikram sanwat 2059. Page 77.
- 15. Kaviraj Atridev Gupta, Ashtanga Hridaya Critics Of Vidyotini, Sutrasthana, chapter 5. Varanasi: Choukhamba Sanskrit Sansthan, 14 ed.vikram sanwat 2059. Page 69.

Figure 1: BT Photograph of patient





Cite article:

Clinical Evaluation of Efficacy of Ayurvedic Management of Jalodara W.S.R. to
Tuberculosis induce Ascites: A Case Report
Hemlata Soni, Kartar Singh Bansal

Ayurlog: National Journal of Research in Ayurved Science- 2019; (7)(1): 1-7