Ayurvedic Management towords Chronic Kidney Disease-A Single Case Study

Dr. Mahesh Kamalkishor Varma¹, Dr. Vijay Dashrath Ghogare²

¹Associate Professor. Samhita Siddhant, Dr. R. N. Lahoti Ayurved College Hospital and Research Institute, Sultanpur, Dist. –Buldhana ²Professor, Samhita Siddhant, Dr. R. N. Lahoti Ayurved College, Hospital and Research Institute,

Sultanpur, Dist. Buldhana

ABSTRACT

Wide emergence of chronic kidney disease (CKD) may be considered as a global threat, but with simple diet, lifestyle modification and early intervention, it can be managed through Ayurveda. It is possible to withhold morbidity and mortality, which occurs due to CKD. Currently, available conventional treatments for CKD have their own limitations. Considering those, alternate remedies for curing and curbing the disease progression are being worldwide welcomed. In the present study, 40-year-old female patient visited the outpatient department complaining, swelling in feet and ankle, nausea tiredness, etc., she was prescribed with *Varunadikwatha*, *punarnavaghanvati*were prescribed in the of management further treatment was altered and tailored according to the patient's condition, and The case clearly reveals the significance of ayurveda treatment modality in the management of CKD.

Keywords: Ayurveda, Chronic Kidney Disease, Varunadi Kwatha, Punanrnavadi Ghanvati

INTRODUCTION

CKD is identified by blood test for creatinine, which is a breakdown product of muscle metabolism. Higher level of creatinine indicates a lower glomerular filtration rate and as a result a decreased capability of the kidneys to excrete waste products. The modern management of CKD is not satisfactory and the ultimate goal is renal transplant. It seeks attention from nephrologists and researchers to find out suitable remedial measure from other alternative resources, Ayurveda is one of them. The management diseases in Ayurveda are based on its totality effect of drugs and measures with minimal unwanted and side effects. Ayurveda proclaims that naming of diseases is not necessary but the mainstay is to assess the *Dosha, dushya, adhishthana* along with strength of disease and patient, then incorporate the appropriate therapeutic interventions. The disease CKD is not fairly known in Ayurveda, but on the basis of pathogenetic events we can assess and plan the management. In this regard we share our clinical experience of a 40 years old female who was suffering from chronic kidney disease since last 6 months.

MATERIAL AND METHOD

Method:

- Patient was treated on OPD basis
- Simple Random Single Case Study.

History of Present Illness:

The patient is known case of CKD since six years, and having complaints of body ache, pedal oedema, constipation , vomiting and nausea. So, For *Ayurvedic* treatment, patient came to Kayachikitsa OPD Departmentof Dr. R. N. Lahoti Ayurved College, Hospital and Research Institute, Sultanpur, DistBuldhana **of** our institute.

Personal history:

O/E:

Name – XYZ	Pulse rate – 84/min	Sleep – Little Disturbed
Age – 40 yrs	B.P 150/90mmhg	Agni – kshudhamandya
Gender-Female	Temperature: 98.6 ⁰ F	
Marital status- Married	Bowel habit – Normal	
Prakruti - Pittakaphaj	Appetite – Reduced	

EDUZONE: International Peer Reviewed/Refereed Multidisciplinary Journal (EIPRMJ), ISSN: 2319-5045 Volume 14, Issue 1, January-June, 2025, Available online at: www.eduzonejournal.com

CHIEF COMPLAINTS

Difficulty in breathing, reduced appetite, swelling over face & lower limb, feverishness, incomplete evacuation of bowel, reduced urinary output and general weakness- since last 6 months.

NAME OF PATIENT-XYZ Age – 40 yrs Gender– Female Marital stutus-married Prakruti - Pittakaphaj Agni – kshudhamandya Appetite-reduced Sleep – Little Disturbed	INVESTIGATION- USG Biochemistry-Uric Acid Blood Urea Nitrogen,Serum Creatinine, Serum Urea
PHYSICAL EXAMINATION General condition- Ill looking B.P.:140/90mm of Hg. PR:85 regular, full bound Temprature:98.4 ⁰ F Respiration:18/min Tonsils: Normal (not enlarged) Tongue: Uncoated Thyroid : Not enlarged Jugular venous pressure: Not raised	Pallor: <i>Present</i> (++) Icterus: Absent Clubbing: Absent Cyanosis: Absent Lymph node: Not palpable Oedema : <i>Pedal oedema , and ankle swelling present -</i> <i>since 6 months</i> Lymphadenopathy: Not noticeable Local lesion: Absent
PERSONAL DETAILS: Build - lean Height - 5.3" Weight - 50 kg Personal history: Diet: mixed Appetite: reduced Bowel habits: constipated & off and on mucoid stool	Menstruation history- normal & regular Menstrual cycle- 25 to 30 days, lasting for 5 days, No abnormal vaginal bleeding and discharge. Micturition habit: reduced frequency, quantity and presence of sediments. Sleep: disturbed Marital status: married Addiction: no addiction Family history: no any history present
Systemic examination: CNS: Well oriented to person, place and time with intact higher m Motor- Normal DTR, Plantar-flex Sensory- Intact sensory function (touch, pain, ICS, no murmur found. R/S: Inspection-B/l symmetry with normal movement of chest has	ion temp. pressure) CVS: Normal apex beat in 5 th

EDUZONE: International Peer Reviewed/Refereed Multidisciplinary Journal (EIPRMJ), ISSN: 2319-5045 Volume 14, Issue 1, January-June, 2025, Available online at: www.eduzonejournal.com

abnormal pulsation

Palpation-Not any tenderness

Percussion- Normal resonating note.

Auscultation- B/L equal air entry. B/L basal crept present.

P/A: Normal scaphoid shape of abdomen with no any scar mark or venous engorgement. Abdomen is Soft, non-tender no organomegaly.

Material:

Parameters: 1)Oedema -feet and ankle swelling -since 6 months

	Sign and symptom	Score
1.	No oedema	0
2.	Slight oedema on lower extremities	1
3.	Severe oedema on lower extremities	2
4.	Anasarca	3

Nausea / Vomiting

	Sign and symptom	Score
1.	Absent	0
2.	Occasional	1
3.	Once or twice a week	2
4.	Daily	3

Loss of Appetite

	Quantity of food intake	Score
1.	Taking food in good quantity twice/ thrice	0
2.	Taking moderate quantity of food	1
3.	Person taking food in less quantity	2
4.	Not at all taking food	3

2) BUN (Blood Urea Nitrogen)

3) Serum Creatinine

4) Uric Acid was recorded before and after the treatment.

Treatment given at the time of Admission⁶⁻¹⁰:

After thorough physical and systemic examination, the patient was given Ayurvedic medicines along with Pathya Aahar and Pranayama.

• Ayurvedic Medicines :-

- 1) VarunadiKwath20ml BD -with water
- 2) Punarnava ghanvati250 mg -2 tds-with koshnajal

• PathyaAahar:

- 1. Warm water for drinking,
- 2. Salt restricted diet,

- 3. Veggies: bottled guard, bitter guard, ridge guard, smooth guard, pumpkin which contains water: easy for digestion,
- 4. Use of Barley (Yava), Sorghum (Jwara), Indian Gooseberry (Amla), Butter milk (Takra), Green Gram (Mudga), Horse Gram (Kulattha)⁷.
- Breathing techniques Prānāyāma⁶ (total ~ 10-minute session)- Hands in and out breathing (10 rounds in 2 minutes), hand stretch breathing (10 rounds in 2 minutes), tiger breathing (10 rounds in 2 minutes), alternate nostril breathing (Nādisuddhi; in 5 minutes), left nostril breathing (Chandra AnulomaViloma; 27 rounds in 5 minutes, 4 times per day), humming bee breath (Bhramari; in 2 minutes), Cooling pranayama (Shitali; 9 rounds) and abdominal breathing in lying-down position in 2 minutes.

Observations & Result:

Sign and Symptoms	Before treatment	After treatment
Oedema	2	1
Nausea /Vomiting	2	1
Loss of Appetite	2	1
Serum Creatinine	5.40 mg/dl	3.7 mg/dl
BUN	92 mg/dl	39.23mg/dl
Uric Acid	6.1mg/dl	4.4 mg/dl

Real time Ultra Sonography of abdomen and pelvis has been performed
LIVER Is normal size (14.0 cm.) shape & shows bright echotexture. The intra- hepalic billiary radicals are normal. No evidence of any local or diffuse parenchyma lesions.
GALL BLADDER :It is partially distended and show normal wall thickness No evidence of calculi or any mass lesion. CBD appear normal
PANCREAS prisualized and appears normal. No evidence of any focal or diffuse lesion
RIGHT KIDNEY Is measuring 7.3 x 4.0 cm in size LEFT KIDNEY is measuring 8.3 x 3.9 cm in size
Both kidney are slightly smaller. In size and show grade II bright echotexture and normal cortico-medullary differentiation. No evidence of hydroneptrosis, calculi or any other mass lesion.
SPI.KEN is normal in size (10.0 cm), shape and echotexture
ERINARY BLADDER is distended. No calcult or sludge is noted. The bladder wall thickness is normal
UTERUS - Normal in size (7.0 x 3.0 x 5.0 cm) and shows normal echotexture. No parencryman ocal lesion seen. Indometrium thickness measuring 6.0 mm.
Built overles are normal in size and shows normal echotexture
40 Mold is seen in cul-de-sac.
Taseous distention (++).
MPRESSION:
Both kidney are slightly smaller in size and show grade II bright echotexture - suggest RF1 correlation .

Above table show, that there is significant result of *ayurvedic treatment* in CKD.

EDUZONE: International Peer Reviewed/Refereed Multidisciplinary Journal (EIPRMJ), ISSN: 2319-5045 Volume 14, Issue 1, January-June, 2025, Available online at: www.eduzonejournal.com

		EXAMIN	ATION OF	BLOOD
TEST		PATIENT'S VALUES	<u>UNITS</u>	REFERENCE RANGE
Sr. CREATININE	:	5.40	MG/DL	M 0.70 1.4 MG/DL F 0.60 1.2 MG/DL
BUN	÷	92.00	MG/DL	07 21 MG/DL
INVESTIGATIONS		OBSERVED VAL	JE	NORMAL VALUE
Serum Creatinine	5	3.7 mg/dl		0.5 -1.4 mg/dl
Serum Creatinine	:	3.7 mg/dl		0.5 -1.4 mg/dl
Serum Creatinine	:	3.7 mg/dl CREATINII	NE	
Serum Creatinine Test Name Serum Creatinine	:		NE Unit mg/di	0.5 -1.4 mg/dl Reference Range 0-1 month: 0.00-1.00 1 month-1 year: 0.10-0.80 1-16 years: 0.2-1.00 >16 years; female: 0.50-1.20 >16 years, male: 0.60 - 1.30

Reports, Followup And Outcome

The treatment response was assessed on the basis of clinical symptomatology after a course of medicines for 15 days and significant improvement was found in the associated symptoms. The patient was advised to continue the given medicine for 15 days and asked to report.

In first follow up (after 15 days) it was found that patient got 50% improvement. The improvement in term of the patient's view in clinical symptoms was as follows: -

- 1. Reduction in breathlessness.
- 2. Reduction in facial and pedal oedema
- 3. Improvement in desire of intake of food
- 4. decrease observed in creatinine level from 5.40 to 3.7 mg/dl, uric acid level from 6.1 to 4.4 mg/dl, and blood urea level from 92 mg/dl to 39.23 mg/dl.

DISCUSSION

To treat CKD on Ayurvedic principles, it is necessary to identify the nature of disease in terms of its component *Dosha* (~humour), *Dushya* (~part which is affected), and *Adhishtana* (~abode). In CKD, impairment of renal function is

EDUZONE: International Peer Reviewed/Refereed Multidisciplinary Journal (EIPRMJ), ISSN: 2319-5045 Volume 14, Issue 1, January-June, 2025, Available online at: www.eduzonejournal.com

brought about by the derangement of *Tridoshas* (~three humours; *Vata, Pitta,* and *Kapha*), with predominance of *Vatadosha,Agnimandya* (~weak digestive fire), *Srotosanga* (~obstruction in microchannels of *Mutravahasrotas*), and *Vimargagamana*. It is essential to break the pathogenesis to get the desired results. In this case we observed that the given Ayurvedic drugs were significantly reduced the blood urea, sr. creatinine level . This is probably due to reno-protective and nephron-genetic effect of Punarnawa., which is the major part of current Ayurvedic prescription. Thus, the treatment of CKD aims at the enhancement of digestive fire, balancing vitiated *Doshas*, diuresis and control of excessive salt and water retention, *Srotoshuddhi* and *Rasayanachikitsa*; which may create an improved nutritional status by acting on levels of *Rasa,Agni*, and *Srotas*. In view of above line of treatment, the treatment of the present case was started.

The patient was a diagnosed case of CKD, with elevated serum urea, uric acid, creatinine level. Urea is nitrogenous end product produced from protein and amino acid catabolism, thereby excreted by the kidneys. The elevated levels are indicative of kidney hypofunction.Serum creatinine is a waste product produced as a result of muscle activity and removed by the kidney. Therefore, elevated level observed in renal disease.varunadikashaya and *Punarnavaghanvati*have depicted par excellence in the diseases of *Mutravahasrotas* by virtue of their *Rasayana* action, hence, included in the treatment.

The patient was administered *Varunadikwatha* due to its *Vatapittashamaka*, diuretic, kidney stimulant, and hemopoetic properties. By the virtue of *Rasa, Guna* it is *Pitta* pacifying, thereby maintaining normalcy, improving digestion and metabolism. It also alleviates oedema, being nephroprotective and anti-inflamatory ingredients has been prescribed. CKD involves the *Mutravahasrotas* primarily involving *Vata* vitiation, further causing degeneration of kidney tissue and structure. *Rasayana* drugs possess special tissue healing capabilities, thereby improving tissue qualities and increased resistance to structural damage.

CKD is a disease, which leads to gradual loss of kidney function. Dialysis is the only option for the patient and even though modern science, considers CKD as a irreversible disease. Ayurvedic treatment can be seen promising for the patients since they are cost effective and a positive result was seen during this patient treatment. Treatments through Ayurvedic medicine have shown significant improvement in this case. A significant reduction in Serum Creatinine, BUN, and uric acid was shown. Thus, we can say that the given ayurvedic drugs, diet management and Pranayama are effective in CKD.

CONCLUSION

The ayurvedic treatment has the capacity to normalize the associated clinical symptoms and laboratories parameters related to CKD. It provides a positive lead for further scope of the ayurvedic treatment in CKD.

REFERENCES

- [1]. Neild GH. Life expectancy with chronic kidney disease: An educational review. Pediatric Nephrol 2016;32:243-8.Available from: https://www.who.int/bulletin/volum es/96/7/18-208207.pdf?ua=1/. [Last accessed on 2025 JAN3].
- [2]. Hussain S, Habib A, Najmi AK. Limited knowledge of chronic kidney disease among type 2 diabetes mellitus patients in India. Int J Environ Res Public Health 2019;16:1443. Available from: https://www.niddk.nih.gov/health-information/ health-statistics/kidney-disease/. [Last accessed on 2025JAN 3, 16:00].
- [3]. Sharma PV, editor. Commentary of Dalhan on Sushruta Samhita of Sushruta, Uttar Tantra. Ch. 58. Verses 3-4. Varanasi: ChaukhambhaVishvabhartiPrakashana; 2014. p. 568.
- [4]. Sharma PV, editor. Commentary of Dalhan on Sushruta Samhita of Sushruta, Uttar Tantra. Ch. 58. Verses 27. Varanasi: ChaukhambhaVishvabhartiPrakashana; 2014. p. 571-2.
- [5]. Sharma RK, Dash B, editors. Commentary of Chakrapani on Charaka Samhita of Charaka, VimaanSthana. Ch. 5. Verses 3. Varanasi: Chaukhambha Sanskrit Series Office; 2015. p. 171.
- [6]. Mishra B, editor. Bhaishajya Ratnavali of Sen GD, Mutrakriccha Chikitsa. Ch. 34. Verses 20. Varanasi: Chawkhamba Sanskrit Sansthan; 2014. p. 454,571
- [7]. Shukla V, Tripathi R, editors. Charaka Samhita of Charaka, Chikitsa Sthana; Panduroga Chikitsa. Ch. 16. Verses 93. Varanasi: ChaukhambhaSubhartiPrakashana; 2016. p. 407.
- [8]. Mishra B, editor. Bhaishajya Ratnavali of Sen GD, Sukrameha Chikitsa. Ch. 88. Verses 35-38. Varanasi: Chawkhamba Sanskrit Sansthan; 2014. p. 617.
- [9]. Tripathi B, editor. Sharangdhara Samhita of Sharangdhara, Madhyam Khanda; kashyaKalpana. Ch. 9. Verses 36-40. Varanasi: ChawkhambaSubhartiPrakashana; 2017. p. 168.
- [10]. Singh, R.G et al. Evaluation of antiprotenuric&renoprotective effect of punarnava (Boerhaviadiffusa Linn) in diabetic nephropathy, J Res Edu Indian medicine. 2010; 16(1 2): 45-48