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Ayurvedic management of Alcohol Withdrawal: A Case Report

Case Report

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Abstract

Introduction: Hazardous alcohol use accounts for 5.1% of the global disease burden, with 7.1% in males and 2.2% in females. Chronic alcohol consumption is associated with liver diseases such as fatty liver, hepatitis, and cirrhosis, as well as other health issues like pancreatitis, gastrointestinal disorders, malnutrition, vitamin deficiencies, and cancer. Withdrawal symptoms often accompany cessation. In Ayurvedic medicine, effective treatments for alcoholism and withdrawal symptoms (Madatyaya) are well-documented. Main clinical findings: In this case a 32 yrs old male patient presented with symptoms of insomnia, anxiety, nausea, restlessness, depression, headache and discomfort persisting for a duration of 15 days. The individual had developed a chronic dependency on alcohol over a span of 8 years, but ceased its usage 2 months ago as a result of concurrent health concerns. Currently, he is manifesting these symptoms as withdrawal symptoms. Diagnosis: Patient was diagnosed with Alcohol withdrawal syndrome. Intervention: The patient had ayurvedic treatment including meditation, counselling, and the use of Kharjuradi mantha, Drakshasava, Sutashekhar rasa, Phalatrikadi kwath and Medhya yoga. Outcome: With improvement in the signs and symptoms of alcoholism, this therapy strategy aims to improve the patient's condition.

Keywords: *Madatyaya*, Alcohol withdrawal, Integrated approach, Ayurvedic management.

Introduction

Alcohol consumption, especially binge drinking, is a significant risk factor for over 30 diseases and contributes heavily to the global disease burden. Common alcohol-related conditions include infectious diseases, cancer, diabetes, neuropsychiatric disorders (including alcohol abuse), cardiovascular diseases, liver and pancreatic diseases, as well as unintentional and intentional injuries.(1,2) Knowledge of the health risks linked to alcohol has led to guidelines for low-risk drinking. Alcohol use can harm not only the drinker but also those around them, with significant social and economic costs. These factors underscore the need for preventive interventions to reduce the harm of excessive drinking. Prolonged alcohol use can lead to alcoholism, and stopping can result in Alcohol Withdrawal Syndrome, both of which severely impact health and quality of life. In Ayurveda, prolonged misuse of alcohol results in 'Madatyaya', a 'sannipataja vyadhi' that primarily disrupts ojas and leads to an accumulation of morbid doshas. It goes beyond alcohol intoxication, dependence, or withdrawal, involving multiple systemic dysfunctions. Common manifestations include neurological, gastro-hepatic, and cardiopulmonary issues, closely resembling the

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Assistant Professor. Department of Agad Tantra. Ankerite Ayurveda Medical College and Hospital, Parvar Poorab, Mohanlalganj, Uttar Pradesh 226301. Email Id: debaleena0801@gmail.com symptoms of alcoholism. Therefore, these conditions can be correlated, and ayurvedic management is highly effective in treating this condition from core. (3) Lack of awareness about chronic alcoholism leads to issues such as poor hygiene, anorexia, chronic gastroenteritis, exhaustion, peripheral neuropathies, impotence, infertility, obesity, liver and heart changes, cirrhosis, tremors, insomnia, red eyes, recurrent infections, dementia, amnesia, and impaired judgment. (4)

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Case Report

On 28th December 2022, a 38 years old male patient visited to Agad Tantra OPD ocomplaining of insomnia, anxiety, nausea, Restlessness and discomfort from last 15 days.

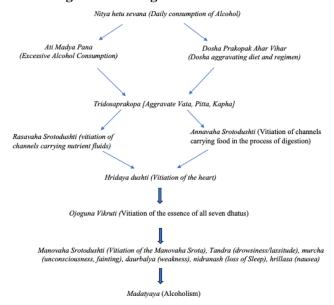
The patient was in good health a year ago but has been heavily dependent on alcohol for the past eight years. Two months ago, he sought medical advice for anxiety and restlessness and was diagnosed with chronic alcoholism. He is non diabetic, has no history of hypertension, and has not shown signs of other illnesses in the past. The individual took disulfiram an allopathic medicine for 20-days, and while consuming it he took abstinence from alcohol. However, his inclination to use alcohol escalated to the point that he experienced restlessness, anxiety, nausea, depression, headache, insomnia and agitation in the absence of alcohol consumption as withdrawal symptoms. Blood reports of Liver Function Test (LFT) showed visible increase in aspartate aminotransferase (SGOT), alanine transaminase (SGPT), serum globulin etc., shown in (Figure 2). The aforementioned symptoms exhibited a significant escalation during the duration of 15 days. His daily consumption of alcohol was about 120ml of



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desi alcohol and mixed ones on occasions daily for the past eight years. The patient was assessed to have *Madhyam Bala*, *Pitta* predominant *Kaphaja nadi*.

Pathogenesis of the Disease Figure 1: Pathogenesis of the disease



Excessive alcohol consumption, combined with dosha aggravating diet, disrupts the three doshas (vata, pitta, kapha), resulting in impairment of rasavaha srota and annavaha srotas. The poorly digested food essence (apachit and dushita ahar rasa) impacts the heart (hridaya), weakening successive tissue layers (Uttarotar dhatu shaithilya) and disturbing vitality (ojo vikruti). Alcohol's sharp, hot, and acidic qualities aggravate pitta and vata doshas, causing stomach and colon inflammation and reducing nutrient absorption, leading to numbness, weakness, and neurological issues. The dry and light qualities of alcohol further aggravate vata dosha, depleting bone marrow (majja

dhatu) and causing nutritional deficiencies, bodily aches, and weakness. Additionally, alcohol affects mental channels (manovaha srota), reducing satva guna (purity) while increasing raja-tama gunas (passion and ignorance), As a result, symptoms such as lethargy (tandra), fainting (murcha), and weakness (dourbalya) develop, eventually leading to alcohol addiction (Madatyaya). (5, 6)

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Samprapti

- Dosha: Tridosha, Raja, TamaDushya: Manas, Saptha Dhatu
- Srotasa: Rasavahi, Raktavahi and Sangyavahi.
- Type of Srotodushti: Sangha (obstruction), vimargagamana
- Agni: Teekshnaagni.
- Adhisthana: Hridaya sthana (Chetna-sthana).(5, 6)

Diagnosis

Investigation

The patient was diagnosed on the basis of Alcohol consumption screening questionnaire - The Alcohol Use Disorders Identification Test (AUDIT).(7)

It is a 10-item screening tool developed by the World Health Organisation (WHO) to assess alcohol consumption, drinking behaviours, and alcohol-related problems. The score obtained after screening the following questions serves as a indicator for alcohol consumption related points. Scale along with observed results are included in [Table 1].

Each questions are awarded with marks ranging from maximum of 0-4 or minimum of 0-1. Total obtained points are then added. A total point of 0 to 7 points indicates Low risk, 8 to 15 points shows Medium risk, 16 to 19 points brings the patient to High risk and a point ranging between 20 to 40 points shows Addiction likely.

Table 1: Questionnaire

Questions	Answers and Points	Points Obtained
1. How often do you have a drink containing	Never (0 Point)	4
alcohol?	Monthly or less (1 point)	
	2 to 4 times a month (2 Points)	
	2 to 3 times a week (3 points)	
	4 or more times a week (4 points)	
2. How many drinks containing alcohol do you	1 or 2 (0 Point)	1
have on a typical day when you are drinking?	3 or 4 (1 point)	
	5 or 6 (2 Points)	
	7 to 9 (3 points)	
	10 or more (4 points)	
3. How often do you have 5 or more drinks on one	Never (0 Point)	1
occasion?	Less then once in a month (1 point)	
	Monthly (2 points)	
	Weekly (3 points)	
	Daily or almost daily (4 points)	
4. How often during the last year have you found	Never (0 Point)	3
that you were not able to stop drinking once you had	Less then once in a month (1 point)	
started?	Monthly (2 points)	
	Weekly (3 points)	
	Daily or almost daily (4 points)	



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5. How often during the last year have you failed to do what was normally expected of you because of drinking?	Never (0 Point) Less then once in a month (1 point) Monthly (2 points) Weekly (3 points) Daily or almost daily (4 points)	1
6. How often during the last year have you needed a first drink in the morning to get yourself going after a heavy drinking session?	Never (0 Point) Less then once in a month (1 point) Monthly (2 points) Weekly (3 points) Daily or almost daily (4 points)	3
7. How often during the last year have you had a feeling of guilt or remorse after drinking?	Never (0 Point) Less then once in a month (1 point) Monthly (2 points) Weekly (3 points) Daily or almost daily (4 points)	2
8. How often during the last year have you been unable to remember what happened the night before because you had been drinking?	Never (0 Point) Less then once in a month (1 point) Monthly (2 points) Weekly (3 points) Daily or almost daily (4 points)	2
9. Have you or someone else been injured as a result of your drinking?	No (0 points) Yes, but not in the last year (2 points) Yes, during the last year (4 points)	4
10. Has a relative, a friend, a doctor, or another health worker been concerned about your drinking or suggested you cut down?	No (0 points) Yes, but not in the last year (2 points) Yes, during the last year (4 points)	4
	Total:- 40	25

The patient achieved a cumulative score of 25 points. This finding provides confirmation of the patient's alcohol dependence.

Interventions given

1) Ayurvedic oral medications

Table 2: Avurvedic Oral Medications

	-				
Sr. No.	Drugs	Dose	Time of Administration	Medium	Duration
1	Drakshasava (8, 9, 10)	3 tsf BD	Before meal	Lukewarm water	30 days
2	Khajuradi mantha (11)	BD	10-15 min before meal	Lukewarm water	30 days
3	Phalatrikadi kwatha (12)	4tsf BD	After meal	Lukewarm water	30 days
4	Sutashekhar rasa 250 mg (13)	40 ml OD	after meal	Water	30 days
5	Medhya rasayana (14,15)	2 BD	After meal	Lukewarm water	30 days

- 2) The patient received weekly one-hour psychological counselling, wherein he patient was made aware about his present condition and benefits of quitting alcohol use, probable complications he can face during his quitting journey.
- 3) He was advised a fiber-rich balanced diet, and yoga for holistic recovery from alcohol addiction. Yoga included *Pranayama (anulom vilom, ujjayi, bhramari)*, *Asanas (shavasana, tadasana, katichakrasana, balasana, shashankasana, virasana, gomukhasana, sinhasana, makarasana)*, and free hand exercises (fingers, wrists, elbows, shoulders, neck, hips, knees, ankles, toes). Meditation with 'Om' chanting was also incorporated, along with prescribed medication. (16, 17) 4) Counselling of the family members were also done about the present conditions of the patient, probable complications he can face and how to deal with the patient.

The patient received medication for one month and was advised to continue meditation, maintain a

healthy lifestyle, and abstain from alcohol for life. Follow-up visits were recommended every six months, with immediate consultation if re-addiction occurs.

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Drug Analysis

- Drakshaasava: Drakshaasava contains Fruit of Draksha (Vitis vinifera Linn.), Guda (Jaggary), Bark of Dalchini (Cinnamoum zeylanica Blume. (C. Verum J.S), Seed of Ela (Elettaria cardamomum Maton.), Leaves of Tejpatra (Cinnamomum tamala Nees.), Stem of Nagakeshara (Mesua ferrea), Fruit of Fulpriyangu (Callicarpa macrophylla Vahl.), Fruit of Marich (Piper nigrum Linn.), Fruit of Pippali (Piper longum Linn.), Fruit of Vayvidang(Embelia ribes Burm. F), fruit of Dhataki pushpa (Woodfordia fruticosa Kurz.) (8, 9, 10)
- Khajuradi mantha: It contains fruit of Kharjura (Phoenix sylvestris Roxb.), fruit of Draksha (Vitis vinifera Linn.), fruit of Vrikshamala (Garcinia indica



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Linn.), fruit of Amlika (Tamarindus indica Linn.), Seeds of Dadima (Punica granatum Linn.), Parushaka (Grewia asiatica Linn.), fruit of Amalaki (Emblica officinalis), Jiraka (Cuminum cyminum Linn.) and Saindhava Lavan (Rock salt). (11)

- Phalatrikadi kwatha: It contains Amalaki(Emblica officinalis Gaertn.), Bibhitaki (Terminalia bellerica Roxb.), Haritaki (Terminalia chebula Retz.), stem of Guduci (Tinospora cordifolia Miers.), leaf of Vasa(Adhatoda vasica Nees.), Kalmegha (Andrographis panniculata Nees.), Nimba (Azadirachta indica A. Juss.) Kutaki (Picrorrhiza kurroa Royale ex Benth.) (12)
- Sutashekhar rasa: Sutashekhar rasa contains shuddha parada, swarna bhasma, shuddha tankana, Shuddha Gandhaka, tamra bhasma, rajata bhasma, shankha Bhasma, Vatsanabha (Aconitum ferox Wall. ex Syringe), Pippali (Piper longum Linn.), Maricha (Piper nigrum Linn.), Shunthi (Zingiber officinale), Twaka (Cinnamomum zeylanicum Blume (C. Verum J.S)), Ela (Elettaria cardamomum Maton.), Tejapatra (Cinnamomum tamala Nees.), Nagakeshara (Mesua ferrea), Bilva (Aegle marmelos), Kachoora (Curcuma zedoaria), Nirvisha (Delphinium denudatum Wall.), Bhringaraja (Eclipta alba (L.) Hassk) juice is used as bhavna dravya. (13)
- *Medhya yoga:* It contains ingredients mentioned in table no:- 3 (14,15,18)

Table 3: Ingredients

	-		
Ingredients	Botanical Name	Quantity	Part used
Mandukparni	Centella asiatica	1 part	Whole plant
Yastimadhu	Glycirrhiza glabra Linn.	1 part	Roots
Shankhpushpi	Convolvulus pluricaulis Chois.	1 part	Whole plant
Guduchi	Tinospora cordifolia Wall. ex Seringe	1 part	Stem

Assessment Criteria: An assessment criteria was developed on the basis of the symptoms as shown in table no:- 2 Grading system was developed to access the severity and reduction of the symptoms. On a grade of '0-3' with '0' denoting minimum symptoms and complications and '3' indicating maximum complains.

Timeline:

Timelines of interventions and outcome of the treatment is Figure 2 and Table 4.

Observations and Results

1. Assessment of the Alcohol dependence was done on the basis of **The Alcohol Use Disorders Identification Test** (AUDIT).(7): The patient scored 25 points, indicating alcohol dependence, as shown in Table 1.

Table 4: Clinical Features

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1401	e 4: Chincal Features	
Clinical feature	Symptom	Grade
	Within 5 mins	3
Instant craving	Within 1 hrs.	2
for alcohol	Within 4 hrs.	1
	No craving	0
	Nearly every day	3
Anvioty	More than half the days	2
Anxiety	Several days	1
	Not at all	0
	Nearly every day	3
Danuagian	More than half the days	2
Depression	Several days	1
	Not at all	0
	Constant	3
Nausea/	Intermittent	2
vomiting	Mild	1
	Absent	0
	Bed rest required	3
Headache	Interference with task	2
Headache	Can be ignored	1
	No pain	0
	Always	3
Insomnia	Most night	2
msomma	Occasionally	1
	Never	0

2. For thorough assessment, criteria were developed based on the patient's symptoms, with evaluations at five time points: before treatment, after one week, on day 14, day 21, and day 30. Table 4 shows the assessment criteria, including depression, anxiety, insomnia, headache, nausea, vomiting, and immediate alcohol cravings, each rated from 0 (absent) to 3 (severe).

Symptoms like nausea, vomiting, and headache improved within the first week, while anxiety and headache decreased by day 14. By day 21, instant cravings, vomiting, depression, headache, and insomnia had reduced. By the end of the month, the patient had largely recovered from these symptoms and managed his alcohol cravings, as shown in Table 5 and Figure 1.

Observations:

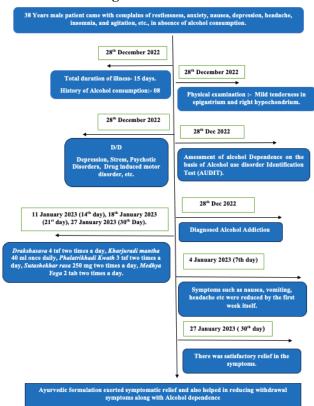
Table No:- 5: Observations

Findings	Before Treatment	7 th day (4 th January 2023)	14 th day (11 th January 2023)	21st day (18th January 2023)	30 th day (25 th January 2023)
Instant craving for Alcohol	2	2	2	1	1
Anxiety	2	2	1	1	0
Depression	1	1	1	0	0
Nausea/ Vomiting	3	2	2	1	1
Headache	2	1	0	0	0
Insomnia	3	3	3	2	1



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Figure 2: Timeline



Pathological findings:

TEST NAME	TECHNO	u oev	VALUE	UNITS	NORMAL RANGE
BILIRUBIN - TOTAL	PHOTOM		1.03	mg/dl	0,3-1,2
BILIRUBIN -DIRECT	PHOTOM		0.18	mg/dl	< 0.3
BILIRUBIN (INDIRECT)	CALCULA		0.85	mg/dl	0-0.9
GAMMA GLUTAMYL TRANSFERASE (GGT)	PHOTOM	ETRY	11	U/I	< 55
ASPARTATE AMINOTRANSFERASE (SG	OT) PHOTOR	METRY !	55	U/I	< 35
ALANINE TRANSAMINASE (SGPT)	PHOTON	IETRY !	50.14	U/I	< 45
PROTEIN - TOTAL	PHOTOM		7.97	qm/dl	5.7-8.2
ALBUMIN - SERUM SERUM GLOBULIN	PHOTOM		.28	gm/dl	3.2-4.8
SERUM ALB/GLOBULIN RATIO	PHOTON		1.69	gm/dL	2.5-3.4
Please correlate with clinical condition	CALCULA	TED 1	.16	Ratio	0.9 - 2
Method: BILT - VANADATE OXIDATION BILD - VANADATE OXIDATION BILL - DERIVED FROM SEGUM TOTAL AND GGT - MODIFIED IFCC METHOD SGOT - IFCC* WITHOUT PYRIDOXAL PHOS SGPT - IFCC* WITHOUT PYRIDOXAL PHOS FROT - BIJURET METHOD SALB - ALBUMIN BEG*METHOD (COLORIM	SPHATE ACTIVATION	1			
segb - derived from serum albumin a A/GR - derived from serum albumin a Figur	AND PROTEIN VALU	er Trea		ent	
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Comparison of the pathological reports before treatment (Figure 3) and after treatment (Figure 4)

indicate a visible reduction in the liver function parameters.

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Discussion

Alcohol consumption has become a social trend, often marking celebrations. However, occasional drinking can easily turn into a harmful habit, leading to physical, mental, social, and financial issues. Effective counseling and family support are crucial in treating alcoholism. Our treatment protocol combines medication, a balanced diet, counselling and meditation for impactful results, as seen in the improvement of signs and symptoms based on the Alcohol-Revised assessment.

Drakshaasava: Asava and Arishta preparations are valued for quick absorption, efficacy, and long shelf life, offering benefits like cardioprotective, diuretic, antimicrobial, and antioxidant effects. **Drakshasava**, a health tonic made from Vitis vinifera, contains phenolic compounds that act as natural antioxidants. It also has anti-depressant properties, reducing cortisol and oxidative stress, supporting the manovaha srotas. Additionally, it is used to treat digestive issues, appetite loss, headaches, anemia, and chronic fatigue syndrome. (19,20)

Khajuradi mantha: Kharjuradi Mantha contains ingredients with guru (heavy) and snigdha (unctuous) properties, which strengthen and nourish the body. Kharjura's qualities, such as being pleasurable to eat, refreshing, and a tonic, help repair damage caused by alcohol (madya). Its sour property neutralizes Madya's effects. This formulation balances Vata, enhances complexion and strength, and acts as a rejuvenate, making it useful for treating digestive issues, insomnia, restlessness, and fatigue. (21,22,23)

Phalatrikadi kwatha: Alcohol-related liver diseases, particularly hepatitis, are well-documented due to the liver's role in ethanol metabolism. Chronic alcohol use damages the liver. Certain ingredients mentioned in phalatrikadi kwath offer hepatoprotective benefits. Picrorhiza kurroa aids bile clearance and reduces serum bilirubin, treating hepatitis B. (24) Antioxidants in Phalatrikadi Kwath protect the liver from free radical damage, while Tinospora cordifolia boosts immunity. Additionally, herbs like Amrita, Kalmegha, and Katuki help suppress Kupffer cells, supporting liver regeneration. (25,26)

Sutashekhar rasa: All ingredients in *Sutashekhar* are *pittahara*, so, this is primarily utilized for burning pain in the chest and epigastric regions, reduces nausea and vomiting. (26,27)

Medhya yoga: Alcohol consumption leads to *vatapitta* imbalance, which affects the heart (*Hridaya*), disrupting mental channels (*manovaha srotas*) and diminishing the normal functions of *Ojas*. This results in symptoms like drowsiness (*Tandra*), fainting (*Murcha*), weakness



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(Daurbalya), and insomnia (Nidranasha). To counter these effects, a preparation with Medhya (intellect-promoting) properties is essential. (18,29,30) Here in a Medhya formulation is made using herbs like Mandukparni, which is neuroprotective, enhances brain development, memory, and learning, and has shown stimulant effects in both animal and clinical studies. (30,31) Brahmi improves memory and cognitive functions (32,33) Shankhpushpi acts as a nervine tonic that stimulates the nervous system(33,35), and Guduchi offers antioxidant benefits, serving both as a nervine and general tonic.(36,37)

Conclusion

The patient's response to treatment for *Madatyaya* (alcoholism/alcohol withdrawal syndrome) has been promising, with notable improvement in scores and balance in *triguna* and *tridoshas*. Ayurvedic medications, counseling, a healthy diet, and meditation facilitated symptomatic relief and overall health improvement. No addictive drugs were used, ensuring a safe and effective treatment, highlighting its potential as a novel approach for alcohol addiction management. The debate above leads us to the conclusion that this medication is quite promising and a new light in the field of alcohol addiction treatment.

Future scope of the study

This is a single case study; however randomised controlled clinical trials can be conducted in the future following these protocols to strengthen its credibility.

Patient perspective

After completing the treatment, both the patient and his family reported a significant reduction in symptoms and improved management of alcohol cravings. The patient showed a positive attitude towards himself and others, and counselling for his family fostered their support in his recovery. He was advised to attend follow-ups every six months and seek immediate medical attention if adverse effects or re-addiction occur.

Ethics statement

The patient provided written informed consent for the publication of this case report.

State of human and animal rights

The intervention adhered to the ethical requirements.

Research ethics and patient consent

The patient provided written informed consent and granted permission for the utilisation of their clinical data for research purposes and subsequent publication.

References

1. Alcohol | Knowledge Action Portal on NCDs [Internet]. [cited 2024 Sep 11]. Available from:

https://www.knowledge-action-portal.com/en/content/alcohol

ISSN No: 0976-5921

- Shield KD, Parry C, Rehm J. Chronic diseases and conditions related to alcohol use. Alcohol Res. 2013;35(2):155-73. PMID: 24881324; PMCID: PMC3908707.
- 3. Alcoholism(Madatyaya)- Travancore Ayurveda https://www.travancoreayurveda.com/alcoholism-madatyaya/ Accessed: 2024-10-15
- 4. Gautam Biswas et.al, Review of Forensic medicine and toxicology, the health sciences publisher, third edition, 2015: 546. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10563903/
- 5. Sangamesh M, Raviprasad Hegde, Vinitha Dsouza. A case study on the management of alcohol dependence through Ayurveda. J Ayurveda Integr Med Sci 2024;5:284-290. http://dx.doi.org/10.21760/jaims.9.5.48
- Rashmi Choudhary et al: A Critical Review On Madatyaya (Alcoholism). International Ayurvedic Medical Journal {online} 2018 {cited November, 2018} Available from: http://www.iamj.in/posts/ images/upload/2502 2508.pdf
- 7. Institute on Drug Abuse, N. (n.d.). Alcohol Use Disorders Identification Test (AUDIT). Retrieved November 18, 2023, from http://www.drugabuse.gov/nidamed-medical-health-professionals.
- 8. Vidyapeeth S, Sailor G, Seth A, Parmar A, Patel M, Shrirang P. Standardization of marketed drakshasava A polyherbal ayurvedic. *Pharm Sci Monit.* 2013;4:363–70.
- 9. Preeti Tiwari and Rakesh K Patel. Evaluation of Diuretic Potential of Drakshasava Prepared by Traditional and Modern Methods in Experimental Albino Rats. Research J. Pharmacology and Pharmacodynamics. 2012; 4(5): 281-284. Available on: https://rjppd.org/AbstractView.aspx? PID=2012-4-5-22
- 10. Anonymous. Ayurvedic Pharmacopoeia of India Monographs. Part II. Vol. 2. New Delhi: Government of India; 2009. p. 36-8.
- 11. Agnivesh. Charak Samhita. Part II, Chikitsha sthana, Prameha chikitsa 6/40. Shastri SN, editor. In: Chaukhambha Bharti Academy. Varanasi. 2011: 240.
- 12. Chakradutta, "Vaidyprabha" with Hindi Commentary, Commented by Dr. Inder deo Tripathi, Chapter No.8/7,Page No. 79, published by Chaukhambha Sanskrit sansthan, Varanasi, 4th edn, 2002
- 13. Yoga Ratnakara Vol: II. Shetty SBM editor. Varanasi: Chowkhambha Sanskrit series office. 2008. p. 976
- 14. Ray S, Ray A. *Medhya Rasayana* in brain function and disease. Med Chem 2015;5:505-11.
- 15. Kumar N, Singh AK. *Medhyadravya* in Ayurveda-a critical review. Int *Ayurved* Med J 2013;1:1-4.
- 16. Hallgren M, Romberg K, Bakshi AS, Andréasson S. Yoga as an adjunct treatment for alcohol dependence: a pilot study. Complement Ther Med. 2014 Jun; 22(3):441-5. doi: 10.1016/



International Journal of Ayurvedic Medicine, Vol 15 (4), 2024; 1110-1116

- j.ctim.2014.03.003. Epub 2014 Mar 15. PMID: 24906582.
- Khan AZ, Varghese J, Kodre S, Niware M, Pansare S, S Bhatia, et al. Ayurveda and Yoga management of chronic alcoholism sequelae A case report. J Ayurveda Integr Med. 2024 Jan 1;15(1).
- 18. Kulkarni R, Girish KJ, Kumar A. Nootropic herbs (Medhya Rasayana) in Ayurveda: An update. Vol. 6, Pharmacognosy Reviews. 2012. p. 147–53.
- 19. Preeti Tiwari. Antimicrobial Activity of Drakshasava Prepared by Traditional and Modern Methods. Res. J. Pharmacognosy & Phytochem.2014; 6(3): 126-128.
- 20. Glob J Addict Rehabil Med A Critical Ayurvedic Perspective on Madatyaya (Alcoholism).
- 21. Mishra U, Sharma A, Saroj P. Greentree Group Publishers Int J Ayu Pharm Chem A Critical Review on Kharjuradi Manth-An Ayurvedic Polyherbal Formulation for Alcohlism (Acute and Chronic Alcohol Addiction and Withdrawal). Greentree Group Publishers © IJAPC Int J Ayu Pharm Chem [Internet]. 2020;12. Available from: www.ijapc.com
- 22. Javeed A, Chate V, A Clinical study to evaluate the role of Kharjooradi Mantha in the enhancement of Ojo Guna in Madatyayi subjects. Journal of Ayurveda and Integrated Medical Sciences (JAIMS). 2018 Nov 9;3(5).
- 23. Nishan S, Wickramasinghe R, Nishan SPAS, Wickramasinghe MRM. A review on pharmacodynamics properties of the ingredients of kharjuradi mantha and uses of kharjuradi mantha for madathya (alcoholism) in Ayurveda [Internet]. Available from: https://www.researchgate.net/publication/356603528
- 24. Kumar N, Singh AK. IJRPC 2013, 3(3) Phalatrikadi kvatha An Ayurvedic hepatoprotective drug. Available from: www.ijrpc.com
- 25. Kumar V, A Critical review of phalatrikadi kwath WSR to Liver disorders [Internet]. Available from: www.wjpmr.com
- 26. Potent Hepatoprotective Phaltrikadi Kwath: A Clinical Study.
- 27. Kumar A, Singhal T. Scientific explanation of mode of action of sutshekhar ras in amlapitta with special reference to acid peptic disorders: A review. Int J Res Ayurveda Pharm. 2018 Nov 25;9(5):47–9.
- 28. Sharma K, Kumar S, Karunanidhi Sharma, Shweta Paul, Swami K, Singh Rajput D. Critical Review Of Sootashekhara Rasa [Internet]. Available from:

https://www.researchgate.net/publication/337366554

ISSN No: 0976-5921

- 29. Ramawat B, Jangid V, Samagandi K. Review article on the role of Medhya Rasayana: Enhancing the Intellectual Power [Internet]. Vol. 7, Journal of Ayurveda and Integrated Medical Sciences. 2022. Available from: www.jaims.in
- Jangonda Patil A, Professor A. A review article on medhya rasayana war to dravyguna [Internet]. Vol. 8, Ajit. World Journal of Pharmaceutical and Medical Research www.wjpmr.com | . 2015. Available from: www.wjpmr.com
- 31. View of comprehensive literature review of Mandukaparni (Centella asiatica) wsr to its medicinal properties [Internet]. [cited 2024 Sep 29]. Available from: https://ijapr.in/index.php/ijapr/article/view/670/590
- 32. Pooja Singh, Vasu Singh, & R.C Tiwari. (2021). Brahmi (Bacopa monnieri): A mental illness drug. *Journal of Ayurveda and Integrated Medical Sciences*, 6(4), 312 321. https://doi.org/10.21760/jaims.v6i4.1430
- 33. Walker EA, Pellegrini MV. Bacopa monnieri. [Updated 2023 Mar 17]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 Jan-. Available from: https://www.ncbi.nlm.nih.gov/books/NBK589635/
- 34. Amin H, Sharma R, Vyas H, Vyas M, Prajapati DK, Dwivedi R. Nootropic (medhya) effect of Bhāvita Śaṇkhapuṣpī tablets: A clinical appraisal. Anc Sci Life. 2014 Oct-Dec;34(2):109-12. doi: 10.4103/0257-7941.153476. PMID: 25861147; PMCID: PMC4389388.
- 35. Devi P. An updated review on Shankhpushpi- As Medhya Rasayana. J Ayu Herb Med 2021;7(2):119-123. DOI: 10.31254/jahm.2021.7210
- 36. Parag Salvi, Amit S. Mujumdar, Sudarshan K. Hande, Vishal N. Kulkarni, Santosh G. Chavhan, Kavita S. Turambekar. Prospective study of Medhya effect of Guduchi Rasayana in different Dehaprakruti. Journal of Ayurveda and Integrated Medical Sciences. 2023 Feb 15;8(1):28–35.
- 37. Jamadagni SB, Ghadge PM, Tambe MS, et al. Amelioration of AlCl3-induced Memory Loss in the Rats by an Aqueous Extract of Guduchi, a Medhya Rasayana. Pharmacognosy Magazine. 2023; 19(2):231-243. doi:10.1177/09731296221145063.
