User User

Ayurvedic Principles and Therapeutic Protocols in Alcohol **Addiction Management A Review**



🖹 Slot 13

Document Details

Submission ID

trn:oid:::3117:538495239

Submission Date

Dec 9, 2025, 4:53 PM GMT+5:30

Download Date

Dec 9, 2025, 4:56 PM GMT+5:30

Ayurvedic Principles and Therapeutic Protocols in Alcohol Addiction Management A Review.docx

File Size

76.6 KB

19 Pages

5,088 Words

34,896 Characters





9% Overall Similarity

The combined total of all matches, including overlapping sources, for each database.

Filtered from the Report

Bibliography

Match Groups

22 Not Cited or Quoted 7%

Matches with neither in-text citation nor quotation marks

7 Missing Quotations 2%
Matches that are still very similar to source material

O Missing Citation 0%

Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

Top Sources

8% Internet sources

4% 📕 Publications

2% Land Submitted works (Student Papers)





Match Groups

22 Not Cited or Quoted 7%

Matches with neither in-text citation nor quotation marks

7 Missing Quotations 2%

Matches that are still very similar to source material

0 Missing Citation 0%

Matches that have quotation marks, but no in-text citation

• 0 Cited and Quoted 0%

Matches with in-text citation present, but no quotation marks

Top Sources

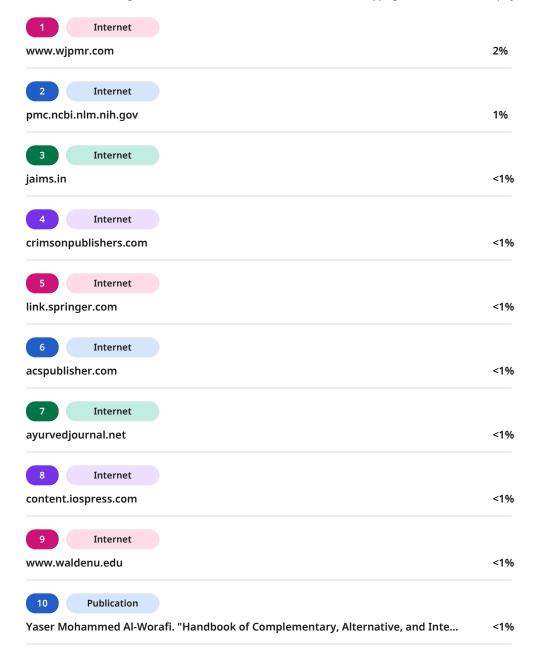
8% Internet sources

4% Publications

2% Land Submitted works (Student Papers)

Top Sources

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.







11 Publication	
Sunil Kumar Verma, Minakshi Pandey, Avinash Sharma, Devendra Singh. "Explori	<1%
12 Internet	
healthdocbox.com	<1%
13 Internet	
www.ijacare.in	<1%
14 Internet	
www.wjcmpr.com	<1%
15 Publication	
Dr. Ravindra Kumar, Dr. Sujata Kumari, Dr Anand, Dr Arun Gupta. "Ayurvedic Man	<1%
16 Publication	
Rahmi Amtha, Ferry Sandra, Rosalina Tjandrawinata, Indrayadi Gunardi, Anggrae	<1%
17 Internet	
internationaljournal.org.in	<1%
18 Publication	
Nick Heather, Matt Field, Antony C. Moss, Sally Satel. "Evaluating the Brain Diseas	<1%
19 Publication	
Sakshi Awasthi, Satish Gandharve, Rajesh Sood, Sonia Sharma. "Conceptual Study	<1%
20 Publication	
Valerian Mwenda, Merissa A. Yellman, Elvis Oyugi, Philip Mwachaka, Gladwell Gat	<1%

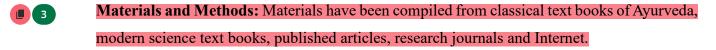




Ayurvedic Principles and Therapeutic Protocols in Alcohol Addiction Management: A Review

Abstract

Background: Alcohol addiction can severely impact both mental and physical health. According to WHO, globally 3.3 million deaths every year result from harmful use of alcohol. Though alcohol addiction, its chronic toxicity, withdrawal and its management has been found in Ayurveda. Alcohol addiction management through Ayurveda emphasizes detoxification, rejuvenation, and the restoration of balance in both the mind and body through natural remedies, dietary adjustments, yoga, and meditation.



- **Results:** The Ayurvedic approach to alcohol addiction focuses on addressing the root causes of dependency through a holistic, natural healing process. Ayurveda aims to detoxify the body, restore mental health, and promote physical and emotional well-being.
- Conclusion: The Ayurvedic management protocol along with the rehabilitation measures is effective in alleviating the symptoms of Alcohol withdrawal and associative conditions. Through a comprehensive and individualized treatment plan, Ayurveda offers a sustainable alternative to modern addiction management, promoting long-term recovery and mental stability.

Keywords: Alcohol Addiction, Ayurveda, Detoxification, *Rasayana* Therapy, *Panchakarma*, Mental Health, Addiction Management

Introduction

Alcohol is widely acknowledged as the only psychoactive substance with addictive potential that is not governed by international legally binding control frameworks, despite its significant global health implications [1]. Alcohol addiction is a chronic, relapsing disorder marked by compulsive drinking, impaired control, and persistent use despite harmful consequences. Growing scientific evidence shows that even modest alcohol intake contributes to more than 60 acute and chronic health conditions, reinforcing its substantial public-health burden [2,3].

The WHO reported that in 2016, approximately 43% of individuals aged ≥15 years (\$\approx 2.3 billion people) consumed alcohol in the previous year. In 2019, nearly 2.6 million deaths



turnitin t



(4.7% of global mortality) were attributable to alcohol use, with 400 million adults (7%) suffering from alcohol use disorders and 209 million (3.7%) classified as alcohol-dependent.

In Ayurveda, *Madya* (alcohol) is described as a substance with both therapeutic and harmful properties, depending on *Matra* (dose), *Kala* (timing), and *Prakriti* (individual constitution). For readers unfamiliar with Ayurvedic terminology, *Madatyaya* refers to the pathological state caused by chronic or excessive alcohol consumption—comparable to alcohol addiction in modern medicine. It occurs due to the aggravation of *Vata* and *Pitta Doṣas*, impairment of *Agni* (metabolic and digestive capacity), depletion of *Ojas* (vital strength and immunity), and disturbance of *Manovaha Srotas* (neuro-psychological pathways) [4]. Classical descriptions highlight its impact on both *Sharira* (body systems) and *Manas* (mental functioning), manifesting as dependence, cognitive disturbances, behavioral changes, and systemic derangements.

Modern addiction-treatment modalities—including pharmacological agents such as benzodiazepines for withdrawal, anti-craving medications, cognitive—behavioral therapy, and structured rehabilitation programs—share conceptual parallels with Ayurvedic strategies. While modern medicine focuses on neurochemical stabilization and behavioral restructuring, Ayurveda emphasizes *Shodhana* (detoxification), *Shamana* (symptomatic and metabolic correction), *Rasāyana* (rejuvenation), and Manas-balancing therapies to restore systemic and mental equilibrium [5]. For example, where modern medicine employs detoxification protocols, Ayurveda utilizes interventions such as *Pancakarma* to clear toxins and rebalance disturbed *doshas*, offering a complementary, holistic approach to long-term addiction management.



Materials and Methods

Study Design

This work is a narrative conceptual review that examines Ayurvedic principles and therapeutic approaches for the management of Alcohol Addiction (*Madatyaya*).

Literature Review

A comprehensive literature search was conducted using classical Ayurvedic sources—*Charaka Saṃhita, Susruta Saṃhita, Aṣṭaṅga Hṛdaya*, and major *Nighaṇṭus*—along with traditional commentaries. Modern scientific literature was reviewed through PubMed, Google Scholar,





WHO reports, and the AYUSH Research Portal, supplemented by standard textbooks and peer-reviewed journals.

Ayurvedic Conceptual Framework

The extracted data were analyzed using qualitative content analysis, focusing on fundamental Ayurvedic dimensions of *Madatyaya*:

- *Hetu* (causative factors)
- Samprapti (pathogenesis and doshic involvement)
- Lakṣaṇa (clinical features)
- Chikitsa (therapeutic principles)

Therapeutic strategies were further organized into:

- **Shodhana** (biopurification and detoxification)
- **Shamana** (palliative and corrective interventions)
- *Rasayana* (rejuvenative measures)
- *Manasika Chikitsa* (psychological and behavioral therapies)

Modern Integrative Insights

To offer an integrative perspective, contemporary modalities for alcohol addiction—such as pharmacological detoxification, anti-craving medications, counseling, psychosocial rehabilitation, and relapse-prevention strategies—were reviewed. Comparative interpretation was applied to identify conceptual and therapeutic parallels between Ayurvedic principles and modern evidence-based management, highlighting the complementary potential of an integrative approach.

Ayurvedic Perspective on Alcohol (Madhya) and Addiction (Madatyaya)

In Ayurveda, *Madya* (alcohol) is described as a substance with dual pharmacological properties, capable of producing both therapeutic and pathological effects depending on factors such as *Matra* (dose), *Kala* (timing), *Samskara* (processing), and the individual's *Prakriti* (constitution). Its inherent qualities—*Uṣṇa* (hot), *Tikṣṇa* (sharp), and *Laghu* (light)—facilitate rapid bioavailability, systemic absorption, and potent psychoactive influence. When consumed in regulated amounts, *Madya* stimulates *Agni* (digestive fire), enhances metabolic activity,





improves nutrient assimilation, and promotes relaxation, sociability, and transient mental clarity [6].

However, chronic or inappropriate use leads to significant derangement of physiological and psychological homeostasis. Excessive alcohol intake predominantly vitiates *Vāta* and *Pitta Doṣas*.

- *Vata vitiation* manifests as nervous system instability, producing symptoms such as restlessness, tremors, palpitations, insomnia, anxiety, emotional volatility, and heightened withdrawal sensitivity.
- *Pitta vitiation* results in inflammatory and metabolic disturbances, including irritability, aggression, hyperacidity, liver dysfunction (*Yakṛt Vikara*), gastritis, burning sensations, and impaired digestion.

These disturbances disrupt *Agni*, resulting in the formation of *Ama* (metabolic toxins) and depletion of *Ojas* (vital immunity and strength). Simultaneously, dysfunction of the *Manovaha Srotas* (mental pathways) leads to cognitive impairment, mood instability, poor judgment, impulsivity, and psychological dependence. Collectively, these manifestations are described in Ayurveda as *Madatyaya*.

Classical texts describe *Madakari Dravyas*—substances such as *Madya* and *Sura*—as agents that provoke *Tamo Guṇa*, impairing discernment and disrupting higher mental faculties [8]. *Madatyaya* is classified as a *Tridoṣaja Vyadhi*, with significant involvement of *Agni* and the *Kapha Sthanas* such as *Amasaya* and *Siras*. Deranged *Agni* leads to *Ama* accumulation, sluggish metabolism, mental clouding, and depleted vitality. Hence, *Kaphasthana Chikitsa* forms the foundational line of treatment, aimed at restoring metabolic fire and eliminating accumulated *Kapha* and *Ama* [9].

In advanced stages, both *Sharirika* and *Manasika Doṣas* become profoundly vitiated, contributing to the systemic and psychosocial complications associated with addiction. Therefore, Ayurveda advocates a comprehensive and multidimensional therapeutic approach, integrating:

- **Dosa-Shamaka** therapies to pacify aggravated humors
- **Shodhana** (detoxification), including *Pancakarma*, to expel accumulated toxins
- Shamana (palliative measures) to restore physiological balance





• Rasayana and Medhya formulations to enhance neurocognitive function, strengthen Ojas, and support long-term recovery

Role of Manasika Chikitsa in Addiction Management

Beyond physical detoxification, Ayurveda emphasizes *Manasika Chikitsa* (psychological therapy) as a critical component in alcohol addiction management. Interventions such as:

- Yoga (to regulate Vata, improve neuro-muscular coordination, reduce cravings)
- **Meditation and** *Praṇayama* (to stabilize mental fluctuations and strengthen emotional regulation)
- Satvavajaya Chikitsa (mind-control therapy focusing on discipline, restraint, and cognitive restructuring)
- Manovaha Srotas therapies (using Medhya Rasayanas such as Brahmi, Shankhapuṣpi, Mandukaparṇi)

These practices collectively enhance psychological resilience, reduce stress-induced relapse triggers, improve sleep, balance neurotransmission, and promote long-term abstinence [10]. By addressing both the somatic and psychological dimensions of addiction, Ayurveda provides a holistic strategy for sustainable recovery and relapse prevention.

Etiological Factors (Nidana) and Lakshan

According to *Ayurvedic classics*, *Madatyaya* (alcohol addiction/intoxication disorder) manifests differently depending on the predominant *Dosha* involved—*Vata*, *Pitta*, or *Kapha*. Each type displays distinct etiological factors, symptomatology, and clinical presentation. Understanding these subtypes helps in selecting appropriate *Dosha-specific* therapeutic interventions [11-13].

1. Vataj Madatyaya - This type arises from the excessive intake of Rukṣa (dry), Alpa (small quantity), Pramita (limited), or Rukṣa-pariṇata (over-fermented) Madya (alcoholic drinks). Behavioral causes include Nitya Madyapana (habitual drinking), Avidahi Madyapana (use of non-digestive liquors), Vega Avarodha (suppression of natural urges), and indulgence in Adhvakarsita (excessive travel), Bhara (heavy exertion), and Strisevana (sexual indulgence).







Clinical Features: Symptoms such as tremors, dryness of mouth, insomnia, restlessness, anxiety, body pain, and unsteady gait are predominant. The person becomes talkative, fearful, and experiences rapid mood fluctuations. These manifestations result from $V\bar{a}ta$ vitiation, leading to derangement of the nervous system and mental instability.

2. *Piitaja Madatyaya* - This form results from consumption of *Rūkṣa* (dry), *Tīkṣṇa* (sharp), *Uṣṇa* (hot), *Amla* (sour) alcoholic drinks, combined with *Uṣṇabhitāpata* (exposure to heat), *Ātapa-priya* (sun exposure), and *Uṣṇa-bhojana* (hot, spicy foods). These factors aggravate *Pitta Dosha*, producing inflammatory and irritative symptoms.

Clinical Features: Symptoms include burning sensation, excessive thirst, fever, redness of eyes, sweating, irritability, and craving for cold substances. There is often a marked disturbance in liver function and digestion due to *Pitta* vitiation, leading to *Agnimandya* (digestive impairment).

3. *Kaphaja Madatyaya* – This type develops due to intake of *Madhura* (sweet), *Snigdha* (unctuous), and *Guru* (heavy) foods along with *Taruna*, *Madhura*, and *Goudhika Madya* (fresh or sweet alcoholic beverages). Associated factors include *Avyayama* (lack of exercise), *Divaswapna* (day sleep), and indulgence in excessive comfort such as *Shayyāsana sukha* (sedentary lifestyle).

Clinical Features: The symptoms are heaviness of body, lethargy, drowsiness, nausea, anorexia, excessive salivation, and slow movements. The person becomes mentally dull, indifferent, and exhibits poor motivation due to *Kapha* predominance causing obstruction and sluggishness in *Srotas* (channels).

Etiopathogenesis (Samprapti) [14]

Madyapana



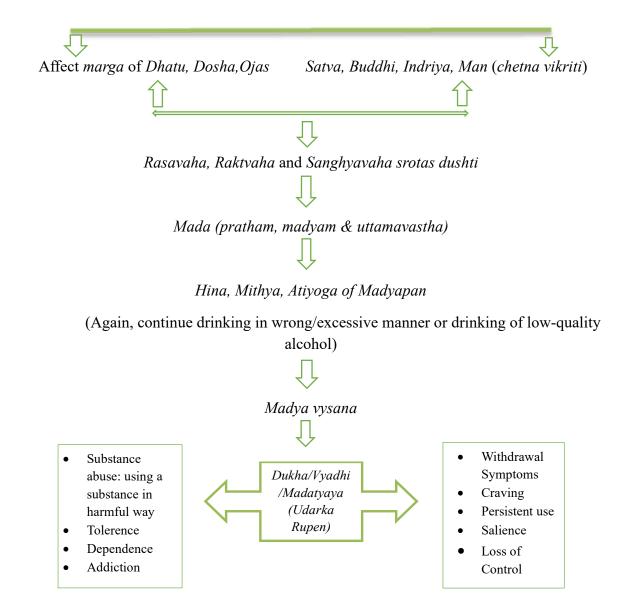
Reaches to hridya



Annarasa Utkleda







When *Madya* (alcohol) is consumed, it quickly reaches the *Hrudaya* (heart), which is the seat of *Chetana* (consciousness) and the controller of *Manas* (mind). Excessive or improper intake of *Madya* leads to *Annarasa Utkleda*, disturbing the normal digestive and metabolic processes. The disturbed *Annarasa* further affects the *marga* (pathways) of *Dhatu, Dosha*, and *Ojas*, causing impairment in the functioning of *Satva, Buddhi, Indriya*, and *Manas*, resulting in *Chetana Vikriti* (altered consciousness) [15-16].

Due to this, the *Rasavaha*, *Raktavaha*, and *Sangyavaha Srotas* undergo *Srotodushti*, leading to physiological and psychological imbalance. As a result, the characteristic stages of *Mada*—namely *Prathama* (initial intoxication), *Madhyama* (moderate intoxication), and *Uttama*



Avastha (severe intoxication)—manifest progressively [17-18]. Depending on the quantity, quality, and manner of consumption, these stages vary in severity.

Further, the *Hina Yoga* (underuse), *Mithya Yoga* (improper use), and *Ati Yoga* (overuse) of *Madya*—such as repeated excessive drinking, consumption of poor-quality or incompatible alcohol, or continuous indulgence—lead to the development of *Madya Vyasana* (alcohol addiction) [19]. In chronic states, this results in derangement of both *Sharirika* (bodily) and *Manasika* (mental) functions, producing features like *Moha* (delusion), *Bhrama* (giddiness), *Kampa* (tremors), and *Unmada* (psychotic symptoms) [20].

Thus, the pathogenesis of *Madatyaya* unfolds through a series of events beginning with *Madyapana*, progressing via *Agni* and *Rasa Dushti*, leading to *Srotodushti*, *Chetana Vikriti*, and ultimately manifesting as the classical symptoms of *Madatyaya*.

Integration of Modern Addiction Mechanisms with Ayurvedic Concepts



Modern neuroscience describes alcohol addiction as a chronic brain disorder driven by dysregulation of key neurotransmitter systems, particularly dopamine, GABA, glutamate, and serotonin [21–23]. Chronic alcohol use overstimulates the mesolimbic dopamine pathway—responsible for reward, motivation, and emotional reinforcement—leading to craving, loss of control, and compulsive drinking [24]. Prolonged exposure results in neuroadaptive changes, including reduced dopamine receptor sensitivity, impaired impulse control, emotional volatility, and increased vulnerability to stress-induced relapse [25,26].

From an Ayurvedic standpoint, these neurochemical disturbances closely parallel the aggravation of $V\bar{a}ta$ $Do\bar{s}a$, which governs the nervous system, cognition, and mental stability [27]. Vitiated Vāta manifests as restlessness, anxiety, tremors, impulsivity, and mood fluctuations—symptoms that resemble modern descriptions of withdrawal, neural hyperexcitability, and reward-system dysregulation [28]. Similarly, the inflammatory and metabolic disturbances induced by alcohol correspond to Pitta vitiation, contributing to irritability, aggression, hepatic dysfunction, hyperacidity, and disturbed digestion [27,29].

Neurobiological Impact of Alcohol and Alignment with Ayurvedic Pathophysiology

Chronic alcohol exposure disrupts multiple neurotransmitter systems [22–24]:





- **GABAergic system:** Alcohol enhances inhibitory GABA signaling; long-term use downregulates receptors, causing insomnia, anxiety, and agitation during withdrawal—conditions aligned with *Vāta prakopa* [30].
- **Glutamatergic system:** Alcohol suppresses excitatory glutamate activity; withdrawal produces rebound hyperexcitability, seizures, irritability, and cognitive dysfunction [23,31]. Ayurveda describes similar manifestations as *Vāta*-predominant derangement of *Manovaha Srotas*, indicating disturbed neural pathways [27].
- **Dopaminergic reward system:** Chronic alcohol initially increases dopamine release but later reduces receptor sensitivity, causing anhedonia, depression, and craving [24,26]. Ayurveda correlates this depletion with *Ojas kṣaya* (loss of vitality) and increased *Tamas*, weakening mental clarity and willpower [32].
- **Serotonin pathways:** Dysregulated serotonin contributes to mood instability, impulsivity, and sleep disturbances—consistent with *Pitta* aggravation and *Manovaha Srotas duṣṭi* [29,31].

These neurochemical disruptions collectively resemble the Ayurvedic concept of Madatyaya, where impaired Agni (metabolism), accumulated $\bar{A}ma$ (toxins), and vitiated $V\bar{a}ta$ –Pitta disrupt physical, cognitive, emotional, and behavioral functions [27,32].

Ayurvedic Therapeutic Principles in the Management of Madatyaya

The Ayurvedic principles of management (*Chikitsa Siddhanta*) for *Madatyaya* emphasize the restoration of balance between *Doshas*, *Dhatus*, and *Manas*. Treatment follows a comprehensive approach including *Nidana Parivarjana* (elimination of causative factors), *Shodhana* (detoxification), *Shamana* (palliative therapy), *Rasayana* (rejuvenation), and *Satvavajaya Chikitsa* (psychological therapy). These interventions aim to purify the body, restore mental stability, and rejuvenate vital energy (*Ojas*), promoting long-term recovery and well-being [33].

1. *Nidana Parivarjana* (elimination of causative factors) - *Nidana* is a contributing cause to the disease. *Hetu* or *Nidana* offer knowledge concerning diseases that have already manifested and those that are about to manifest. Every illness has a unique set of *Hetu*.

The contextual meaning of "Nidana" in Ayurveda is studied in two ways: Vyadhijanaka nidana and Vyadhibhodaka nidana. All of the Nidana panchakas (Hetu,







Purvarupa, Rupa, Upashaya, and Samprapthi) are Vyadhibodhaka in nature since they help the physician diagnose the disease [34]. On the other side, Nidana/Hetu is both Vyadhijanaka and Vyadhibodhaka Nidana, which is the cause of the illness.

Nidana Parivarjana helps in prevention and cure of the disease by avoiding the causative factors in the form of Ahara (Food) / Vihara (Lifestyle) or both. Furthermore, by avoiding the associated Nidanas, Nidana Parivarjana aids in preventing the disease's progression. Taking consideration of all of these elements, Acharya Charaka and Acharya Sushruta have both recommended that the first step in treating any illness is to prevent the causes [35].

In the management of *Madatyaya* (alcohol addiction), *Nidana Parivarjana Chikitsa* plays a crucial role as the foremost line of treatment. It emphasizes the complete avoidance of causative factors, primarily excessive and habitual consumption of alcohol. Gradual withdrawal of *Madya* is advised to prevent withdrawal symptoms, along with dietary regulation and psychological support through *Satvavajaya Chikitsa*. The patient is encouraged to avoid triggers that promote drinking and to adopt wholesome food and lifestyle practices that restore doshic balance. Thus, *Nidana Parivarjana* serves as a fundamental and preventive approach in the Ayurvedic management of *Madatyaya*.

2. **Shodhana Chikitsa** - The term **Shodhana** refers to the body's detoxification process, which helps in the prevention and alleviation of diseases. According to Ayurveda, all illnesses arise due to an imbalance of the *Doshas* — *Vata*, *Pitta*, and *Kapha*. **Shodhana** *therapy* (detoxification techniques) therefore aims to eliminate the aggravated humors from the body, ensuring the proper functioning of all metabolic pathways [36].

In the management of *Madatyaya* (alcohol addiction), *Shodhana Chikitsa* plays a vital role in eliminating the accumulated *Doshas* and toxic effects of excessive alcohol consumption. The vitiated *Doshas*, especially *Pitta* and *Vata*, are expelled through appropriate *Shodhana* procedures such as *Vamana* (therapeutic emesis), *Virechana* (purgation), and *Basti* (medicated enema) depending upon the condition of the patient. Prior to *Shodhana*, *Snehana* (oleation) and *Swedana* (sudation) are performed to loosen and mobilize the morbid doshas. These therapies help in cleansing and rejuvenating the *Srotas* (body channels). *Shodhana Karma* enhances immunity, improves liver function, promotes mental clarity, prevents the recurrence of diseases, and contributes to overall rejuvenation and well-being.

















3. **Shamana Chikitsa** - One of the primary Ayurvedic treatment methods is *Shamana Chikitsa*, which aims to calm the body's vitiated *Doshas* rather than eradicate them. It is used when there is less aggravation of the *Doshas* and no need for *Shodhana* (purificatory operations). *Shamana* therapy aims to establish tissue equilibrium, improve *Agni* (digestive and metabolic function), and restore physiological balance (*Dhatu Samyata*) [37].

In *Madatyaya* (alcohol addiction), the patient often presents with *Amaja Avastha*, a condition characterized by the accumulation of *Ama* due to *Mandagni* (diminished digestive fire). This impaired digestion results in *Vibandha* (constipation), lethargy, nausea, heaviness, and general malaise. During alcohol withdrawal, various symptoms such as tremors, anxiety, insomnia, restlessness, irritability, sweating, loss of appetite, and digestive disturbances commonly appear as the body readjusts to the absence of alcohol.

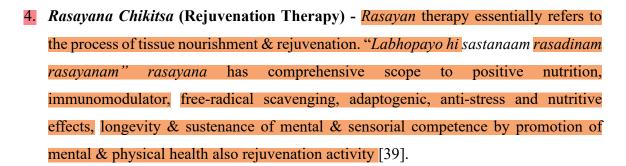
Therefore, the initial line of treatment should focus on *Deepana* and *Pachana Chikitsa*—therapeutic measures aimed at stimulating and regulating *Agni* and promoting the digestion and elimination of *Ama*. Once the digestive function is restored and metabolic balance is re-established, the management is further directed towards alleviating withdrawal symptoms, improving strength (*Bala*), enhancing appetite, and stabilizing both the physical and psychological functions of the patient. To address these symptoms and to enhance *Bala* (strength) and *Agni*, *Asava–Arishta* preparations such as *Ashwagandharishta*, *Drakshasava*, and *Shreekhandasava* are recommended. These formulations act as restorative tonics, improving metabolic activity, supporting liver function, and reducing alcohol craving. Additionally, to relieve *Vibandha* and ensure proper elimination of waste products, appropriate *Virechaka Aushadhi* (mild purgatives) may be administered according to the patient's condition.

In addition to these measures, *Khajuradi Mantha* is recommended as a *Tarpana* (nourishing and restorative preparation) in the management of *Madatyaya*. Prepared with *Khajura (Phoenix dactylifera)* and other nutritive ingredients, it helps replenish Ojas, alleviate dehydration, and restore energy depleted by excessive alcohol consumption. With its *Sheeta* (cooling), *Brimhana* (nourishing), and *Balya* (strength-promoting) properties, it serves as an effective rejuvenative formulation, enhancing appetite, digestion, and overall vitality during recovery [38].





Parallel to these internal therapies, external therapies such as *Shirodhara* and *Abhyanga* with *Swedana* are highly beneficial. *Shirodhara*, involving the gentle pouring of medicated oil over the forehead, helps alleviate insomnia, anxiety, and mental restlessness commonly seen during alcohol withdrawal. *Abhyanga* (therapeutic oil massage) followed by *Swedana* (sudation therapy) pacifies *Vata Dosha*, relaxes the nervous system, improves circulation, and promotes deep mental and physical rejuvenation. This integrative approach combining internal detoxification, restorative tonics, and external therapies ensures comprehensive management of *Madatyaya* by addressing both somatic and psychological dimensions of the disorder.



In *Madatyaya* (alcohol addiction), where long-term consumption of *Madya* causes depletion of *Ojas*, *Dhatu Kshaya* (tissue deterioration), *Agnimandya* (digestive impairment), and *Manasika Bala Hani* (mental weakness), *Rasayana* therapy is a cornerstone of recovery and rehabilitation. Chronic alcohol intake leads to oxidative stress, hepatic dysfunction, neurodegeneration, and psychological instability conditions described in Ayurveda as *Ojakshaya*, *Rasayaha* and *Manovaha Srotodushti*. *Rasayana Chikitsa* helps reverse these alterations by nourishing tissues, improving metabolic activity, enhancing immunity, and stabilizing the mind. It acts as a restorative phase therapy following *Shodhana* (detoxification) and *Shamana* (palliative management).

Medhya Rasayana Dravyas are particularly effective in Madatyaya due to their neuroprotective, adaptogenic, and hepatoprotective properties:

Ashwagandha (Withania somnifera)- It acts as a potent Rasayana with multifaceted benefits. It exhibits anti-stress, antioxidant, and neuroprotective actions by modulating GABAergic activity, reducing oxidative damage, and stabilizing neuronal function. Its immunomodulatory, anti-inflammatory, and rejuvenating properties enhance vitality, restore *Ojas*, improve hematopoiesis, and support both mental and physical recovery during alcohol withdrawal and rehabilitation [40].





Shankhpushpi (Convolvulus pluricaulis)- Reduces irritability, restlessness, and supports cognitive stability [41].

Amalaki (Emblica officinalis)- Acts as a potent antioxidant and supports hepatic regeneration [42].

Brahmi (Bacopa monnieri)- Enhances memory, attention, and reduces anxiety through neuroprotective action [43].

The above-mentioned *Medhya Rasayana* drugs play a vital role in the management of *Madatyaya*, in addition, many other *Rasayana* and supportive herbal formulations also contribute effectively to the therapeutic regimen by rejuvenating the body, enhancing *Dhatu Poshana* (tissue nourishment), and restoring *Satva Guna* (mental clarity). By improving *Agni*, replenishing *Ojas*, and strengthening both *Sharira* (body) and *Manas* (mind), *Rasayana Chikitsa* provides a comprehensive rehabilitative approach in *Madatyaya*, promoting long-term recovery, relapse prevention, and psychosomatic equilibrium.

5. Satvavajaya Chikitsa (Psychotherapy) - Satvavajaya Chikitsa [44], one of the three principal approaches of Ayurvedic treatment, focuses on the control and regulation of the mind (Manonigraha). In Madatyaya (alcohol addiction), where psychological dependence and emotional instability play a central role, Satvavajaya serves as the core psychotherapeutic and rehabilitative strategy. It aims to strengthen Satva (mental fortitude), correct Rajas and Tamas imbalances, and enhance self-control and awareness.

The therapeutic principles include retraining the mind, cultivating positive thought patterns, and detaching from harmful impulses, achieved through counseling, meditation (*Dhyana*), mindfulness, and yogic practices such as *Pranayama* and *Asanas*. These measures help to reduce craving, anxiety, irritability, and withdrawal-related mental distress.

In modern terms, *Satvavajaya Chikitsa* aligns with psychotherapy, cognitive behavioral therapy (CBT), and mind-body interventions, emphasizing emotional regulation and behavioral transformation. Regular practice of *Yoga* and *Dhyana* improves neurochemical balance by enhancing serotonin and GABA activity, thereby promoting mental calmness and resilience [45].





6. Aahara and Vihara (Diet and Lifestyle Regimen) – In the management of Madatyaya (alcohol addiction), Aahara (diet) and Vihara (lifestyle) form integral components of holistic recovery and rehabilitation. Proper diet and regimen not only help in restoring Agni (digestive and metabolic strength) but also assist in replenishing Ojas (vital essence) and stabilizing the disturbed Doshas [46].

Aahara (Diet) - A light, wholesome, and nourishing diet (Laghu and Brimhana Aahara) is advised to correct Agnimandya (digestive impairment) and promote Dhatu Poshana (tissue nourishment). Preparations such as Mudga Yusha (green gram soup), Manda (rice gruel), Ksheerapaka (medicated milk), and Ghrita (clarified butter) are particularly beneficial during the detoxification and restorative phases. These foods strengthen digestion, improve vitality, and soothe the aggravated Vata and Pitta doshas.

Vihara (Lifestyle Regimen)- Equally essential is the regulation of Vihara (lifestyle practices), which focuses on restoring mental and physical stability. A balanced routine including regular sleep, relaxation, yoga, meditation (Dhyana), and Pranayama (breathing exercises) helps in calming the mind, improving emotional resilience, and reducing craving and anxiety associated with alcohol withdrawal. Avoidance of stress, overexertion, and night vigil (Ratri jagaraṇa) is emphasized to preserve Ojas and enhance mental clarity.

Integration with Modern Perspective

There are many similarities between Ayurvedic knowledge of *Madatyaya* (alcohol addiction) and contemporary medical research, especially in the fields of neuroscience, hepatology, and psychiatry. While modern medicine views *Madatyaya* as a chronic relapsing neurobehavioral disorder marked by compulsive alcohol use, tolerance, dependence, and withdrawal symptoms, Ayurveda views it as a disorder resulting from the vitiation of *Vata* and *Pitta Doshas*, depletion of *Ojas*, and disruption of *Manovaha Srotas* (mental pathways). Both perspectives emphasize the psychosomatic aspect of the condition and agree that long-term alcohol consumption impairs the liver, brain, and metabolism.

From a pathophysiological perspective, long-term alcohol use causes metabolic and neurochemical disruptions, primarily in the GABA, dopamine, and serotonin pathways, which contribute to dependency, withdrawal symptoms, and oxidative damage. These symptoms are interpreted by Ayurveda as *Agnimandya* (metabolic dysfunction), *Rajas–Tamas* imbalance, and





Manovaha Srotodushti (impairment of mental channels). Similar to contemporary methods of pharmacological detoxification, neuroprotection, and cognitive-behavioral therapy, Ayurvedic treatments like Shodhana (detoxification), Shamana (palliative management), Rasayana (rejuvenation), and Satvavajaya Chikitsa (psychotherapy) collectively target these biological, psychological, and behavioral imbalances.



Hence, the integration of Ayurvedic principles with modern therapeutic frameworks provides a comprehensive and patient-centered strategy for managing alcohol addiction. Ayurveda's focus on individualized care, natural detoxification, rejuvenation, and mental stabilization complements evidence-based modern medicine, creating a synergistic model that promotes sustained recovery, relapse prevention, and holistic well-being.

Conclusion

The Ayurvedic understanding of *Madatyaya* provides a holistic, systems-based framework that addresses the metabolic, psychological, and neurobehavioral effects of chronic alcohol use. By employing detoxification, metabolic correction, rejuvenation, and mind-stabilizing interventions, Ayurveda aims to restore internal homeostasis and support long-term recovery.

An integrative viewpoint reveals strong complementarities between Ayurvedic therapies and modern addiction medicine. Ayurvedic interventions may effectively augment contemporary approaches—including anti-craving pharmacotherapy, behavioral therapy, and psychosocial support—thereby enhancing clinical outcomes and reducing relapse risk.



Further interdisciplinary research, mechanistic studies, and controlled clinical trials are needed to substantiate these traditional protocols and enable their structured incorporation into evidence-based integrative de-addiction programs.

Future Directions for Research



Future research should prioritize well-designed clinical trials to evaluate the therapeutic efficacy of Ayurvedic interventions for *Madatyaya* and compare them with established modern addiction treatments. Studies assessing both physical and psychological outcomes—such as withdrawal severity, craving reduction, cognitive recovery, metabolic restoration, and relapse rates—are essential for validating Ayurvedic protocols. Integrative research models, mechanistic studies, and long-term follow-up analyses will further support the development of evidence-based, multi-disciplinary de-addiction strategies.







Conflict of Interest

The authors declare that there is no conflict of interest related to this publication.

Funding

No external funding was received for this study.

Acknowledgment



The authors express their sincere gratitude to all teachers, colleagues, and institutional staff for their support and guidance throughout the work.

References

- World Health Organization. Global status report on alcohol and health 2018 [Online].
 [cited 2018]; Available from: URL: https://www.who.int/substance abuse/publications/g lobal alcohol report/en/
- 2. Rehm J. The risks associated with alcohol use and alcoholism. Alcohol Res Health 2011; 34(2): 135-43.
- Griswold MG, Fullman N, Hawley C, Arian N, Zimsen SRM, Tymeson HD, editors. Alcohol use and burden for 195 countries and territories, 1990-2016: A systematic analysis for the Global Burden of Disease Study 2016. Lancet 2018; 392(10152): 1015-35.
- 4. Charak Samhitha Chikitsa Sthana, Madatyaya Chikitsa Adhyaya. 24/06. Available from: https://niimh.nic.in/ebooks/ecaraka/?mod=read. [Last accessed on 2025 Jan 25].
- 5. Biradar MH, Ganer JM. Evaluation of treatment methods of madatyaya (alcoholism) in Ayurveda. Ayushdhara, 6 (2). 2019:2128-33.
- 6. R.K.Sharma, Bhagawan Dash Vol.4 Charaka Samhita, Choukhamba Publication, 2015, Chikitsa stana 24 Chapter shloka107-108, page 410.
- 7. R.K.Sharma, Bhagawan Dash Vol.4 Charaka Samhita, Choukhamba Publication, 2015, Chikitsa stana 24 chapter 41 43, page 394.
- 8. R.K.Sharma, Bhagawan Dash Vol.4 Charaka Samhita, Choukhamba Publication, 2015, Chikitsa stana 24 Chapter, Shloka 195-196, page428
- 9. Tripathi B, Agnivesh, Charaka Samhita of Acharya Charaka, Charaka and dhridhavala krit, Chikitsa Sthana, Chapter 24, shloka No. 30 Reprint/edition Varanasi: Chaukhamaba Sanskrit Sansthan, 2013.





- 10. Gopal KV. Concept of Madatyaya and its management in Ayurveda: A review. AYU (An International Quarterly Journal of Research in Ayurveda). 2013;34(2):211–215.
- 11. Agnivesh- Charaka Samhita, Revised by Charaka and Dridhabala with 'Ayurveda Dipika' Commentary, by Chakrapanidatta. Chikitsasthan 24/88-90, 92, 94-95. Varanasi: Chaukhambha; 2011.
- 12. Sushrut. Sushrut Samhita, Hindi commentry by Ambikadattashastri, Uttartantra 47/15-16. Chaukhamba publication Reprint 2011.
- 13. Vagbhata. Asthang Hridaya with Sarwangsundar Commentary of ArunDutt and Ayurved Rasayana Commentary of Hemadri, Chikitsasthan 9/3. Varanasi: Chaukhamba Sanskrit Series; 2002.
- 14. Tiwari P V, Kashyapa Samhita, elaborated by Vriddha Jivaka; Varanasi; Chaukhambha Vishwabharati, 2013, Pp. 792; p. 235
- 15. Charaka Samhita, Chikitsa Sthana, Chapter 24 *Madyapana Chikitsa Adhyaya*. In: Sharma PV, editor. *Charaka Samhita (Text with English Translation)*. Varanasi: Chaukhambha Orientalia; 2014. p. 317–328.
- 16. Sushruta Samhita, Uttara Tantra, Chapter 48 *Madatyaya Pratishedha*. In: Sharma PV, translator. *Sushruta Samhita (Text with English Translation)*. Varanasi: Chaukhambha Vishvabharati; 2012. p. 765–772.
- 17. Ashtanga Hridaya, Uttaratantra, Chapter 6 *Madatyaya Nidana and Chikitsa*. In: Murthy KRS, editor. *Ashtanga Hridaya of Vagbhata (Text, English Translation and Notes)*. Varanasi: Chaukhambha Krishnadas Academy; 2017. p. 582–590.
- 18. Tripathi B. *Charaka Samhita (with Charaka–Chandrika Hindi Commentary)*, Vol. 2. Varanasi: Chaukhambha Surbharti Prakashan; 2018.
- 19. Bhishagratna KK. *An English Translation of The Sushruta Samhita*, Vol. 3. Calcutta: Kaviraj Kunja Lal Bhishagratna; 2010.
- 20. Sharma PV. *Dravyaguna Vijnana*, Vol. 2. Varanasi: Chaukhambha Bharati Academy; 2013. p. 598–601.
- 21. Koob GF, Volkow ND. Neurobiology of addiction: A neurocircuitry analysis. Lancet Psychiatry. 2016;3(8):760–73.
- 22. Lovinger DM. Neurotransmitters in alcohol dependence and addiction. Mol Brain. 2021;14(1):1–15.
- 23. Becker HC. Alcohol dependence, withdrawal, and relapse. Alcohol Res. 2019;40(1):01–10.





- 24. Spanagel R. Alcoholism: A systems approach from molecular physiology to addictive behavior. Physiol Rev. 2009;89(2):649–705.
- 25. Diana M. The dopamine hypothesis of drug addiction revisited. Neurosci Biobehav Rev. 2011;35(5):1216–31.
- 26. Volkow ND, Morales M. The brain on drugs: From reward to addiction. Cell. 2015;162(4):712–25.
- 27. Sharma PV, editor. Charaka Saṃhitā of Agnivesha. Varanasi: Chaukhambha Orientalia; 2018. Sutra Sthana, 27/230.
- 28. Tripathi B, editor. Aṣṭāṅga Hṛdaya of Vāgbhaṭa. Delhi: Chaukhambha Sanskrit Pratishthan; 2015. Nidana Sthana, 6/45.
- 29. Murthy KRS, translator. Suśruta Saṃhitā. Varanasi: Chaukhambha Sanskrit Series; 2016. Uttara Tantra, 50/34.
- 30. Kumar S, Raj A. GABAergic dysfunction in alcohol withdrawal: A review. Addict Biol. 2019;24(6):1212–20.
- 31. Chandler LJ. Glutamatergic involvement in alcohol dependence and withdrawal. Alcohol Clin Exp Res. 2003;27(2):134–42.
- 32. Patwardhan B, et al. The Ayurvedic concept of Ojas and its physiological relevance. Ayu. 2011;32(2):123–9.
- 33. Tiwari PV. *Ayurveda Ka Vaigyanika Itihasa Evam Tatva*. Varanasi: Chaukhambha Orientalia; 2012.
- 34. Tripathi B, Agnivesh, Charaka Samhita of Acharya Charaka, Charaka and dhridhavala krit, Nidan Sthana, Chapter 1, shloka No. 6, Reprint/edition Varanasi: Chaukhamaba Sanskrit Sansthan, 2013.
- 35. Dr Brahmananda Tripathi (editor) Commentary: Madhukosha of Vijayarakshita and shrikantadatta and on Madhava nidana of Madhvakara Chapter 1, verse no 4, Varanasi; Chaukambha Sanskrit samsthana, 2012; 16.
- 36. Awasthi S, Gandharve S, Sood R,Sharma S "Conceptual Study Of Shodhana And Shamana Chikitsa" IRJAY.[online]2023;6(1); 60-63.
- 37. Charaka Samhita, Chikitsa Sthana, Chapter 24 *Madyapana Chikitsa Adhyaya*. In: Sharma PV, Varanasi: Chaukhambha Orientalia; 2014. p. 317–328.
- 38. Tripathi B, Agnivesh, Charaka Samhita of Acharya Charaka, Charaka and dhridhavala krit, Chikitsa Sthana, Chapter 24, shloka No. 136 Reprint/edition Varanasi: Chaukhamaba Sanskrit Sansthan, 2013.





- "Charak with Chandrika Hindi 39. Agnivesha, Samhita", Charak Dr. Brahmanand Tripathi commentary, by and Dr. Ganga Sahay Pandey, Chikitsa Sthana Chapter 1/1, Verse No. 5. Page.4. Chaukhamba Surbharti Prakashan, 2007.
- 40. Debnath, Ashutosh & Kolarkar, Rajesh & Sathe, Aparna. (2022). ASHWAGANDHA RASAYANA SHORT REVIEW WITH RESPECT TO UNDERNUTRITION (APATARPANJANYA KARSHYA). 6. 3300-3308.
- 41. Jalwal P, Singh B, Dahiya J, Khokhara S. A comprehensive review on shankhpushpi a morning glory. The Pharma Innovation Journal 2016; 5(1): 14-18.
- 42. Jaiswal, Vishal & Jaiswal, Rakesh. (2022). A Drug Review Of Amalaki (Emblica Officinalis): A Traditional Indian Drug With Contemporary Applications. Journal of Pharmaceutical Negative Results. 13. 4833-4845. 10.47750/pnr.2022.13.S10.586.
- 43. Choudhary, Shailja & Kumari, Isha & Thakur, Shifali & Kaurav, Hemlata & Chaudhary, Gitika. (2021). BRAHMI (BACOPA MONNIERI)— A POTENTIAL AYURVEDIC COGNITIVE ENHANCER AND NEUROPROTECTIVE HERB. International Journal of Ayurveda and Pharma Research. 41-49. 10.47070/ijapr.v9i5.1917.
- 44. Bagali, Sachin & Baragi, Umapati & Deshmukh, R.. (2016). Concept of Satwavajaya Chikitsa (Psychotherapy). Journal of Ayurveda and Integrated Medical Sciences (JAIMS). 1. 10.21760/jaims.v1i1.3637.
- 45. Streeter CC, Gerbarg PL, Saper RB, Ciraulo DA, Brown RP. Effects of yoga on the autonomic nervous system, gamma-aminobutyric-acid, and allostasis in epilepsy, depression, and post-traumatic stress disorder. Med Hypotheses. 2012 May;78(5):571-9. doi: 10.1016/j.mehy.2012.01.021. Epub 2012 Feb 24. PMID: 22365651.
- 46. Charaka Samhita, *Chikitsa Sthana* 24/145–150. In: Sharma PV, editor. *Charaka Samhita of Agnivesha Text with English Translation*. Varanasi: Chaukhamba Orientalia; 2014.