The Intellecta International Journal of Research and Innovation
Volume 1 Issue 1 (Oct-Dec 2026) | e-ISSN: Applied | Page No: 15-23.

JAIN DIETARY HABITS IN RELATION TO CIRCADIAN RHYTHM

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ABSTRACT
A person's dietary habits are firmly rooted in their cultural, religious, and physiological surroundings. These habits not only have an impact on an individual's health but also on the standards that are prevalent in society as a whole. Jainism is an ancient religion that originated in India. It promotes a way of life that places an emphasis on non-violence (ahimsa) towards all living creatures. This approach extends to dietary choices, which has led to a diet that is mostly vegetarian and places stringent limitations on the intake of some foods, notably those that are thought to contain living forms. In the same way, the circadian rhythm, which is an innate biological clock, is responsible for regulating a variety of physiological processes, including as digestion and metabolism, in accordance with the day-night cycle. In this review study, the confluence between Jain dietary practices and the principles of circadian rhythm is investigated. The purpose of this research is to shed light on how adherence to Jain dietary rules may impact circadian health and vice versa. The purpose of this study is to provide insight on the complex interaction between cultural traditions and biological rhythms in the process of forming dietary habits and their consequences for health outcomes. This is accomplished by evaluating the timing of meals, practices of fasting, and the possible alignment with circadian cycles.

Keywords: *Jainism, ahimsa, dietary habits, circadian rhythm, metabolism, digestion, vegetarianism, fasting, cultural traditions, health outcomes.*

1. INTRODUCTION
Known for its strong focus on non-violence, compassion, and spiritual enlightenment, Jainism is distinguished as one of the world's oldest faiths. Its roots may be traced back to ancient India. The idea of ahimsa, also known as non-violence, is at the core of Jain philosophy. This principle goes on to embrace not just the avoidance of bodily injury but also all types of violence, including physical, verbal, and mental forms of aggression. Those who adhere to Jain ethics are guided by the principle of ahimsa, which encourages them to live in harmony with all sentient creatures and to develop a profound sense of respect for life.



Figure 1: Jainism

One of the most significant elements is the Jain religious practice is to recognise the interdependence of all living creatures and to believe in the intrinsic sanctity of life. Such large-heartedness is reflected in the choices that Jains

make regarding their diet, i.e., they attempt to minimize the amount of harm that they cause sentient creatures through the food that they do eat. This devotion to ahimsa is reflected in the dietary standards that are imposed by Jainism. These suggestions put strict restrictions on the consumption of foods that are deemed to be detrimental to living organisms and propose a diet that is predominantly vegetarian.

In parallel, the idea of circadian rhythm constitutes a basic feature of biological control, directing many physiological processes according to the natural regularity of the day-night cycle. The circadian rhythm or otherwise known as the internal clock of the body, controls a plethora of biological mechanisms such as as sleep-wake processes, hormone production, metabolism and digestion among others. The adaptability with which organisms can foresee and adapt to the occurrences within their habitat is truly miraculous in the sense that to their own inherent biological timing mechanism which is highly tuned to the 24-hour light-dark cycle that takes place in the environment of earth.

The curious fact that comes to mind is unraveling the intricate connection that exists between ideals of the circadian cycle and Jainism food customs. Nevertheless, Jain dietary standards are also subject to the principles of circadian biology, especially when it comes to the time, when meals are consumed, as well as the fasting. It has to do with the fact that the Jain food rules are mainly made by ethical and religious matters. The potential health and well-being impacts could be better comprehended by acquiring an insight into the methods on how Jain food patterns aligned or varied with the circadian rhythm.

The biggest question that arises is the following: How do the principles of the circadian rhythm relate to the eating pattern of Jainism and what are the consequences of such a union and how that affects ones health? The research attempt to unravel the association between cultural practices, biological rhythms, and the results it produces on health conditions. This will be achieved by exploring the time of eating, the effects of fasting activities and the potential reconciliation with circadian rhythms. It is our aim to illuminate the intricate connection that lies between the Jain food systems and even circadian biology through the course of this research. Finally, we seek to add to a deeper understanding of the impact of cultural and religious beliefs on dietary practices and the impact of the practices on health.

2. DIETARY PRACTICES IN JAINISM

Indeed, there is no such thing as Jain food. The vast majority of Indian cuisine was produced locally and was very seasonal up until quite recently. In addition, Jain cuisine is primarily localised. Cereals and legumes are the primary components of its diet. Millet and sorghum were the traditional grains growing in Western India, whereas wheat was the grain that was processed into flour and used to make breads that did not include any leavening. It is also possible to prepare daliya, which is a kind of porridge, by coarsely grinding grains and then boiling them. Rice that has been cooked is the preferred staple food in Eastern India.

In order to prepare the soupy meal known as dal, the legumes are cooked and then seasoned. It is usual practice to substitute hing, also known as asafetida, for garlic. There are no limitations placed on the vast array of spices that are the defining characteristic of Indian cuisine and that are responsible for imparting flavour and perfume to even the most seemingly innocuous vegetarian meals. The Jains consume a variety of tropical fruits and vegetables on a regular basis, including mango, coconut, and green vegetables. In the Indian state of Rajasthan, which is mostly comprised of a desolate desert, grains that have been crushed or lentils that have been cooked and dried in the sun are used as replacements for vegetables in stews and curries.

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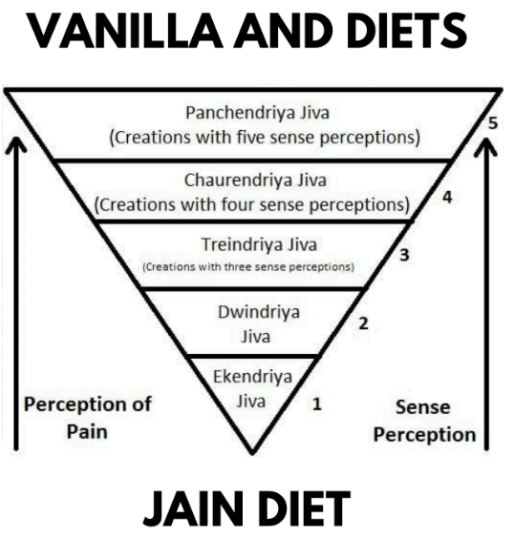


Figure 2: Jain Diet

Dairy products are an essential component of the Jains' diet since they are not vegetarians and because they provide the Jains with the nutrients they need. Among them are yoghurt, buttermilk, and ghee, which is essentially clarified butter. Affluent Jains are recognised for the quantity of ghee that they use in their cooking, and ghee has long been connected with affluence and good health in India. In general, Indians have a strong preference for sweets that are composed of sugar, dairy products, nuts, and spices. Jains are not an exception to this rule, although they abstain from eating sweets during fasts. When they travel, Jains adjust to the surrounding environment. It has been reported by a young Jain professional that he makes every effort to avoid causing damage to life "to the extent that is possible and practicable." Onions, garlic, and root vegetables are the only foods that he will ingest, but he never eats meat, fish, or eggs. When he is out to eat with his pals, he often visits restaurants in Italy, Thailand, and Japan that provide vegetarian options. Although he consumes a significant amount of cheese, he does not insist on vegetarian cheese, which is cheese that is produced without the use of whey, casein, rennet, or any other ingredient that is derived from animals as a coagulating agent. When he visits Thai eateries, he makes a request that the vegetarian meals have fish sauce removed from the preparation. He eats vegetarian sushi while he is dining in Japanese eateries.

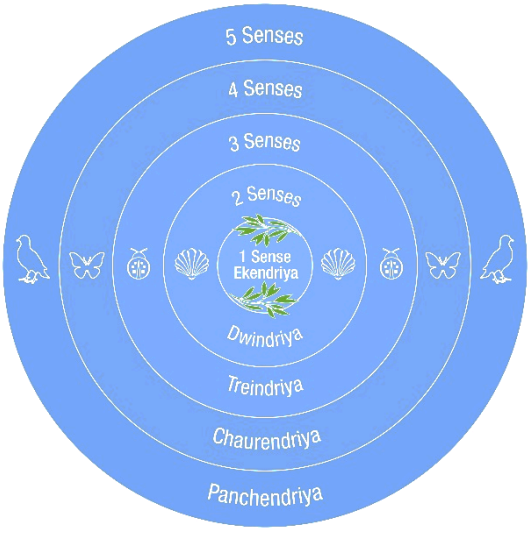


Figure 3: Aspects of the Jain Diet

2.1 Ahimsa and Its Application to Dietary Choices

Ahimsa, which literally translates to "non-violence," is a fundamental concept of Jainism. It goes beyond the simple act of avoiding physical injury and encompasses all types of violence, including mental, verbal, and even inadvertent harm. Through the adoption of a strict vegetarian diet, members of Jainism make an effort to reduce the amount of damage that they do to living creatures in the context of dietary choices. This entails avoiding the eating of any items that are obtained from the slaughter of animals, including but not limited to meat, fish, eggs, and any other products. Moreover, Jains abstain from ingesting items that are thought to contain bacteria or insects because they feel that doing so might be detrimental to the individuals in question. Through the practice of ahimsa, Jains are guided to incorporate awareness and compassion into their eating habits, therefore acknowledging the interconnection of all living creatures.

2.2 Overview of Jain Dietary Guidelines

The dietary rules of the Jain religion are founded on the idea of ahimsa, which emphasises the intake of foods that do the least amount of damage to living creatures. In Jain dietary practices, vegetarianism is at the centre, with an emphasis on plant-based foods such grains, legumes, vegetables, fruits, and dairy products. Vegetarianism is the foundation of Jain nutritional practices. The Jain religion, on the other hand, goes beyond the concept of vegetarianism by putting extra prohibitions on some foods that are said to contain living forms. For instance, root vegetables such as potatoes, carrots, and onions are not consumed since it is believed that uprooting these plants does damage to the living beings that are contained inside them. Additionally, fruits that contain seeds, such as figs and strawberries, are limited since they are seen as having the potential to be sources of life.

2.3 Jain Fasting Practices

In the religion of Jainism, fasting is considered to be an important practice since it is considered to be a form of spiritual cleansing and self-discipline. The festival of Paryushana, which lasts for eight or ten days and is a time for introspection and penance, is considered to be one of the most important fasting times in Jainism. The Jains observe a number of different types of fasting and austerity practices throughout the Paryushana period. These practices include total or partial abstention from food and drink. Not only does fasting during Paryushana and other festivals serve as a symbol of devotion, but it also has practical ramifications for the routines that people follow when it comes to their nutrition. During the season of fasting, Jains are encouraged to examine their eating routines, develop the ability to exercise self-control, and grow a more profound awareness of the extent to which their food choices affect both themselves and others around them.

The dietary traditions of Jainism are profoundly founded in the concept of ahimsa, which directs followers to adopt a vegetarian diet and avoid foods that are thought to do damage to living creatures. Jain food habits are further shaped by fasting rituals such as Paryushana, which also provide an opportunity for self-discipline and spiritual development. Insights into the junction of religious beliefs, ethical concerns, and dietary habits may be gained via an understanding of Jain dietary requirements. This understanding also highlights the intricacy of cultural effects on food choices.

3. CIRCADIAN RHYTHM AND DIETARY PATTERNS

The circadian rhythm, which is sometimes referred to as the body's internal clock, is responsible for coordinating a broad variety of physiological activities in a manner that is in sync with the daylight and nighttime cycles that occur naturally. It is the suprachiasmatic nucleus (SCN) in the brain that acts as the master pacemaker for this complex timing system, which is controlled by a network of molecular clocks that are distributed throughout the body's cells. The circadian rhythm is responsible for a number of important tasks, including the control of metabolism, digestion, and the capacity to absorb nutrients. The body's metabolic rate swings during the 24-hour cycle, reaching its highest point during the day to support energy expenditure and decrease during the night to assist rest and repair activities. This occurs because the body needs to relax and repair itself. Similarly, the timing of food consumption has an impact on the efficiency of digestion and the absorption of nutrients. Certain nutrients are metabolised more successfully at certain periods of the day, including the morning, the afternoon, and the evening. In addition to contributing to

metabolic problems, disruptions to the circadian rhythm, such as irregular sleep-wake cycles or eating at night, may also cause metabolic equilibrium to be disrupted.

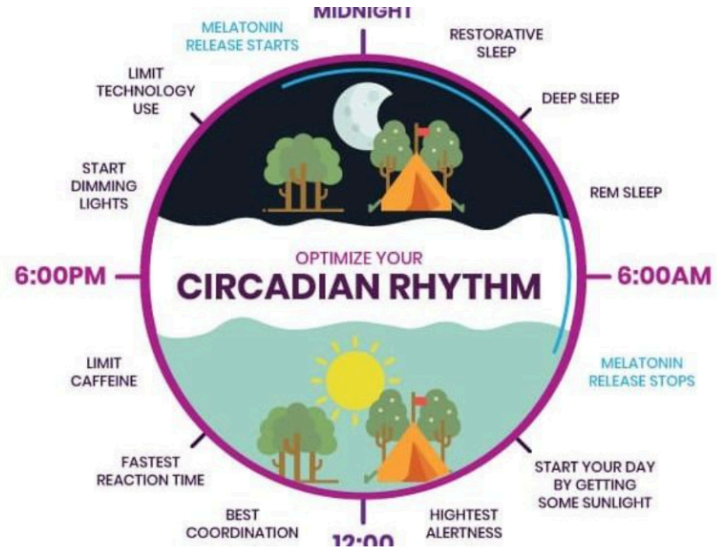


Figure 4: Circadian Rhythm

3.1 Time-Restricted Feeding and Its Alignment with Circadian Principle

The time-restricted feeding (TRF) method is a dietary strategy that limits the timing of meal consumption to certain windows of the day, often within a period of eight to twelve hours. This eating pattern is in sync with the circadian rhythms that are naturally occurring in the body, allowing it to take advantage of the metabolic advantages that are connected with meal timing. The TRF diet encourages metabolic flexibility and enhances insulin sensitivity by restricting food intake to the hours of daylight and allowing for a prolonged time of fasting throughout the night. Studies have shown that TRF has the ability to improve metabolic health indices, decrease inflammation, and accelerate weight reduction, underlining its promise as a therapeutic intervention for a variety of metabolic illnesses. Additionally, there is a possibility that TRF may assist in the synchronisation of peripheral clocks in tissues such as the liver and the gut, therefore improving the coordination of metabolic activities across the body.

3.2 Circadian Disruption with Metabolic Disorders and Obesity

It has been suggested that disruptions to the circadian rhythm, whether they are caused by shift work, jet lag, or chronic sleep deprivation, may have a role in the development of metabolic illnesses such as obesity, type 2 diabetes, and cardiovascular disease. Misalignment of the circadian rhythm has been linked to a number of unfavourable metabolic consequences, including reduced glucose tolerance, dyslipidemia, and increased blood pressure, according to epidemiological research. The importance of circadian disturbance in promoting weight gain and metabolic dysfunction is further supported by experimental data derived from animal models and investigations conducted on humans. In a mechanistic sense, circadian disruption causes delays in the timing of essential metabolic processes, such as the metabolism of glucose and lipids, which ultimately results in an imbalance in the management of energy balance and an increased likelihood of becoming overweight. These data, taken as a whole, highlight the significance of preserving circadian integrity in the context of supporting metabolic health and avoiding metabolic diseases.

By gaining an understanding of the complex relationship that exists between the circadian rhythm and dietary patterns, one may get significant insights into the processes that are responsible for the control of metabolism and the development of chronic diseases. By adjusting their eating patterns to conform to circadian principles, people have the potential to improve their metabolic health and reduce the likelihood of developing metabolic illnesses. On the other hand, disturbances to circadian rhythms, whether they are caused by lifestyle choices or environmental stimuli, may have significant repercussions for the homeostasis of the metabolic system and for general health. For this reason, it is

of the utmost importance to cultivate a holistic approach to health that incorporates circadian biology and dietary habits in order to effectively promote metabolic well-being and longevity.

4. INTERSECTION OF JAIN DIETARY HABITS WITH CIRCADIAN RHYTHM

Jain eating traditions are profoundly based in the concept of ahimsa, which translates to "non-violence." This philosophy extends not only to the selection of foods but also to the scheduling of meals throughout the day. With the help of ahimsa, Jains are able to reduce the amount of damage they do to all living creatures, especially via their eating choices. In accordance with the natural rhythm of the day, the Jain dietary tradition places a significant focus on eating during daylight hours. This is one of the most characteristic aspects of the Jain diet. This practice is driven by the assumption that metabolic functions, such as digestion and food absorption, are more effective during the daytime, when the body is active and energy expenditure is greater. Examples of metabolic processes include digestion and nutrient absorption. In order to ensure that the body has sufficient time to digest and assimilate nutrients before the shift into restorative processes that occur during the night, it is recommended to have bigger meals during the daytime.
Another factor that plays a role in the scheduling of meals in Jainism is the notion of ritucharya, also known as seasonal regimen. Ritucharya places an emphasis on modifying one's eating habits in accordance with the changing of the seasons. The longer daylight hours of summer allow for meals to be taken earlier in the day, whilst the shorter daylight hours of winter allow for meal times to be adjusted appropriately. Meals may be consumed earlier in the day during the summer. There is a comprehensive awareness of the interaction between dietary choices, environmental circumstances, and circadian rhythms in the process of improving general health and well-being, which is reflected in this adaptive approach to meal time.

4.1 Analysis of Potential Alignment Between Jain Dietary Practices and Optimal Circadian Functioning

The concepts of circadian biology, which emphasise synchronising everyday activities, including eating, with the body's internal clock, are closely aligned with the Jain dietary habits, which place a strong focus on taking meals during daylight hours. There are a number of potential health advantages that might be derived by synchronising the time of meals with the circadian rhythm, according to research. These benefits include improved metabolic health, increased weight control, and improved sleep quality. The circadian rhythm is responsible for regulating a number of metabolic processes, including glucose metabolism and insulin sensitivity. Jains may be able to optimise the efficiency of these processes by sticking to a routine of eating their primary meals during the daylight hours.
Furthermore, the practice of fasting at certain times, such as Paryushana, may help improve alignment with circadian principles. This is because the nocturnal fasting period provides the body with the opportunity to endure periods of rest and repair. It has been shown that fasting may activate cellular mechanisms, including as autophagy, that are beneficial to the repair and renewal of cells, hence adding to general health and lifespan. Jains may be able to improve their circadian resilience and boost metabolic flexibility by include fasting as part of their eating routine. This will ultimately provide assistance to the achievement of optimum health outcomes.

4.2 Consideration of Challenges or Conflicts Between Jain Fasting Practices and Circadian Health

Despite the fact that Jain fasting is a highly esteemed activity with a high spiritual meaning, it can be linked to challenges or contravention of circadian health. Long fasting, especially when combined with irregular hydration or excessive hydration, and irregular eating times can cause abnormalities in energy metabolism and nutritional homeostasis, by disrupting circadian rhythms and metabolic processes. This is especially true when in combination with other factors. When you fast on a long-term basis, you can be altered in terms of your blood sugar levels and this can potentially affect your energy levels and your cognitive performance.
Moreover, the timing of the fast-breaking dinner, in particular, when it is delayed until late in the evening, can disrupt the natural course of circadian processes, which may potentially cause the distortion of both sleep-wake cycles and circadian synchronization, in general. Also, individuals who starve themselves during long durations of time could be at a high risk of overeating or consuming high-energy foods at other times when they are not starving. This can also disrupt control of the metabolism which can result in gaining weight or dysfunction of the metabolism.

Jainism practitioners can be advised to consider using specific methods to ensure that they get the right amount of water, balanced meals, and the optimal time of day to eat non-fasting periods to minimize potential conflicts between Jain fasting and circadian health. Also, adopting mindful eating patterns and focusing on cues that signal hunger and fullness may help to avoid overeating and ensure a metabolic equilibrium. By balancing the practice of their religion with the need to consider their circadian health, Jains can get the best out of fasting, but still preserve the well-being of themselves.

Its intersection between Jain dietary practices and ideas of circadian rhythms underscores an understanding of the importance of synchronizing dietary habits with natural cycles of the body to enjoy optimum health and well-being. The Jains can possibly enhance their circadian adaptability, preserve their metabolic wellbeing, and create a healthier sense of religious affiliation, in the event that they emphasize the consumption of food during the day and gather in the habit of fasting. Nevertheless, practitioners ought to be knowledgeable of the potential challenges or tensions that might exist between fasting and circadian wellbeing, and they must put in place measures to ensure that there is a balance to adherence to religious principles and the health of the body.

5. IMPLICATIONS FOR HEALTH

- **Metabolic Health:** Adherence to the principles of the Jain diet, which place an emphasis on moderation, vegetarianism, and alignment with circadian cycles, may have significant repercussions for the health of the metabolic system. The consumption of a diet that is mostly composed of plant-based foods and is abundant in fruits, vegetables, whole grains, and legumes has the potential to reduce the likelihood of persons developing metabolic diseases such as obesity, type 2 diabetes, and cardiovascular disease. There is a correlation between plant-based diets and enhanced insulin sensitivity, less inflammation, and improved control of metabolic indicators such as blood glucose and cholesterol levels. Additionally, synchronising the time of meals with circadian rhythms and adopting fasting practices may not only improve metabolic results but also increase metabolic flexibility, stimulate fat utilisation, and improve metabolic outcomes.
- **Digestive Health:** Habits of eating that are characteristic of Jainism, such as mindful eating, moderation, and taking into account the scheduling of meals, might be beneficial to digestive health and gastrointestinal function. Because metabolic activity is greater during the active part of the circadian cycle, eating meals during daylight hours allows for more effective digestion and nutrient absorption. Therefore, it is beneficial to have meals during daylight hours. Additionally, the incorporation of fasting intervals into the dietary routine may benefit gut health by allowing for periods of rest and repair, lessening the stress on the digestive system, and maintaining the variety of microorganisms that are found in the gut microbiome. Individuals may have enhanced gastrointestinal function and a decreased risk of digestive diseases such as irritable bowel syndrome (IBS) and gastroesophageal reflux disease (GERD) if they follow dietary behaviours that promote digestive health and optimise nutrition absorption if they adopt these practices.
- **Weight Management:** The Jain dietary habits, which place an emphasis on plant-based meals, mindful eating, and controlling portion sizes, have the potential to contribute to the management of weight and the prevention of obesity. As a result of their naturally reduced calorie and saturated fat content, as well as their high fibre, vitamin, and phytonutrient content, plant-based diets are beneficial for both weight reduction and weight management. Furthermore, aligning meal time with circadian rhythms, such as eating bigger meals during daylight hours and fasting overnight, may boost metabolic efficiency, minimise snacking, and avoid late-night eating, all of which are related with better weight management results. This also includes preventing late-night eating. people are able to acquire and maintain a healthy weight by adopting a balanced and thoughtful approach to their food habits. This helps people reduce the risk of obesity-related illnesses such as metabolic syndrome and cardiovascular disease.
- **Mental Well-being:** Dietary practices that are influenced by the Jain values of mindfulness, compassion, and ethical concern may have good consequences for the mental well-being and emotional health of individuals. Because plant-based diets include a greater quantity of nutrients and phytochemicals that are beneficial to the

health of the brain and the functioning of neurotransmitters, they have been linked to a reduced risk of mental health conditions such as depression and anxiety. In addition, engaging in mindful eating and following fasting traditions may help foster a more profound sense of self-awareness, discipline, and spiritual connection, all of which may contribute to the development of resilience against stress and the promotion of emotional equilibrium. It is possible for people to improve their entire quality of life and attain more harmony within themselves and their surroundings if they cultivate a holistic approach to health that takes into account their physical, mental, and spiritual well-being.

The use of Jain dietary habits and the synchronisation of these practices with circadian cycles may have significant effects on one's health and well-being. Individuals are able to improve their metabolic health, digestive function, weight control, and mental well-being by placing an emphasis on plant-based diet, mindful eating, and ethical concerns. In addition, the incorporation of fasting practices and the timing of meals in accordance with circadian cycles may improve metabolic efficiency, boost gastrointestinal health, and encourage emotional resilience. Individuals are able to nurture maximum health and vitality by adopting a balanced and holistic approach to their food habits. This allows them to foster harmony within themselves as well as within the environment around them.

6. CONCLUSION

It is worth mentioning that, at the intersection of the Jain dietary practices and the ideas of the circadian rhythm, there is a strong emphasis on how the cultural traditions and the biological rhythms influence dietary practice and what consequences such dietary practices will have on the state of healthcare. These have been instilled with the concept of Ahimsa or non-violence that has been propagated over time within Jainism. This has led to the development of new food preferences that give culture to compassion, emotional awareness, and moral and compassionate care towards all living beings. Similarly, circadian rhythm is the body clock, which controls the activities of the metabolism, digestion, and absorption of nutrients in a way that conforms to the day-night cycle. The effect of fasting habits, the potential alignment of cultural traditions, religious beliefs, and the biological rhythms in shaping dietary habits have been illuminated through the analysis of how cultural traditions, religious beliefs, and biological rhythms interact in a complex relationship in the formation of dietary habits. The Jain diet habits are closely related to the ideas of circadian biology as they follow the principles of eating plant-based food, moderation, and the search of connection to the process of daylight. These habits are conducive to ideal metabolic health and digestive ability. However, there are some challenges which could arise in the process of seeking a balance between fasting and circadian health. To ensure compatibility in religious practices and physiological health, moderation and care should be taken. By adopting the behaviour to maximise the timing of meals, promoting mindful eating, and improving metabolic flexibility, individuals can maximize their health and vitality and still comply with cultural norms and ethical values. To continue, additional research must be conducted to explore the aftermath of the Jain dietary practices over the long term, in terms of metabolic and digestive health and well-being. Longitudinal research and randomised controlled trials might provide insight into the effect of food patterns on circadian rhythms and health outcomes. This will make it possible to come up with evidence-based suggestions to individuals who are considering streamlining their diets in the context of their cultural and religious inclinations. To sum up, the integration of Jain diet with ideas of circadian rhythms offers holistic approach to health that balances and addresses every part of individual well-being, both physical, mental and spiritual. It is through embracing the synergy that exists between the biological processes and the cultural practices that individuals can be able to develop harmony in themselves and the surrounding world. This leads to a deeper sense of involvement to their health, to their community and to the universe.

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