



Received: 25/December/2025

AYUR: March-April, 2026; 2(2):03-06

Accepted: 13/February/2026

## Seasonal Adaptation in Ayurveda: The Preventive Significance of Ritusandhi

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### Abstract

Ayurveda, the ancient Indian system of medicine, emphasizes prevention over cure and aims primarily at *Swasthasya Swasthya Rakshanam* (maintenance of health) and *Aturasya Vikara Prashamanam* (management of disease). Among the preventive principles described in classical texts, *Ritucharya* (seasonal regimen) plays a vital role. A crucial yet often neglected aspect of *Ritucharya* is *Ritusandhi*—the transitional period between two seasons. This inter-seasonal phase is characterized by physiological vulnerability due to environmental fluctuations affecting Agni (digestive fire), Bala (strength), and Dosha equilibrium. This review compiles classical references from Charaka Samhita, Sushruta Samhita, Ashtanga Hridayam and other Ayurvedic literature to explore the concept, clinical relevance, and preventive importance of *Ritusandhi* in the modern context.

**Keywords:** Ayurveda, Ritu, Ritusandhi, Ritucharya, Seasonal Disorders.

### Introduction

Ayurveda is a way of life which guides us to overall development of human. In *Tistraishaniya Adhyaya*, Acharya Charaka has described three basic needs of human life on earth. First is *Praneshana* [1], second is *Dhaneshana* [2] and last is *Parlokeshana* [3]. Seasonal variations alter Dosha balance, digestive capacity, and immune strength, thereby predisposing individuals to disease if appropriate adaptations are not made. In *Sanskrit*, *Ritu* means season and *Sandhi* means the junction of two things. This implies *Ritusandhi* is junction between two *Ritu*. In *Charaka Samhita*, before describing regimens for various *Ritu*, Acharya said that the one who knows *Ritusatmya* and follow *Ahaar - Vihaar* accordingly, remains healthy. His *Bal*, *Varan* increase [4].

Our *Acharyas* has prescribed regimen for every season. Whatever we eat/consume is digested by digestive fire and assimilated accordingly to give strength to body. In *Adaan* and *Visarga kala* digestive fire gets affected [5] by external environment hence our food and activities should change according to our *Jatharagni*. *Ayurveda* dictates that imbalance of *Dosha*, *Dhatu* and *Mala* leads to the disease and their equilibrium maintain the health [6]. This equilibrium of *Dosha*, *Dhatu* and *Mala* is maintained by following proper *Dincharya*, *Ritucharya*, *Sadvritta* and *Ratricharya*.

### Literature Review

The year is divided into six seasons (*Shishira*, *Vasanta*, *Grishma*, *Varsha*, *Sharad* and *Hemanta*), grouped into:

- **Uttarayana (Adana Kala):** Shishira, Vasanta, Grishma
- **Dakshinayana (Visarga Kala):** Varsha, Sharad, Hemanta [7].

**Table 1:** Characteristics of *Uttarayana* and *Dakshinayana*.

<i>Uttarayana</i> [8]	<i>Dakshinayana</i> [9]
<i>Ritu-Shishir, Vasanta, Grishma</i>	<i>Varsha, Sharad, Hemanta</i>
Sun and air – <i>Teekshana, Ushana, Ruksha</i>	Moon is strong, Sun weaker, air colder
Earth's <i>Saumyansh</i> decreases	Due to clouds and rain earth cools Down
<i>Tikta Kashaya, Katu Rasa</i>	<i>Amla, Lavana, Madhur rasa</i>
<i>Aagneya</i>	<i>Saumya</i>
<i>Jatharagni-Mand</i>	<i>Jatharagni-Teekshana</i>

Each season exhibits distinct qualities affecting Agni and Bala. Therefore, specific dietary and lifestyle regimens are prescribed.

However, the most sensitive period is the transitional phase between two seasons - known as *Ritusandhi*.

### Concept and Definition of Ritusandhi

The term *Ritu* means season and *Sandhi* means junction. Thus, Ritusandhi refers to the junction of two consecutive seasons.

According to Ashtanga Hridayam (Sutra Sthana, Ritucharya Adhyaya), Ritusandhi comprises:

- The last 7 days of the preceding season
  - The first 7 days of the succeeding season <sup>[10]</sup>
- Total duration: 14 days

This period allows gradual physiological adaptation to environmental change.

### Historical Background

#### Vedic Period

- The idea of *Ritu* and *Ritusandhi* is first seen in *Vedic* literature itself. In *Kaushitaki Brahmana* (Vi. 10-12) and *Gopatha Brahmana* (III.19) the *Chaturmasya* sacrifices are performed in *Ritu Sandhi* and *Ritu Sandhi* the transition from one to another causes illness. More than once the *Vedic* texts speak of *Ritu Mukha*. In one passage, it is said that it is not easy to decide the face of the *Ritu*. *Ritu* are double faced or they face two sides <sup>[11]</sup>.
- In *Shatpath Brahmana Pravargya* and *Upasad* are described, where *Pravargya* means Sun and *Upasad* means *Ritu*. These combinations are given together to show that Sun plays a major role in all *Ritu* <sup>[12]</sup>.
- In *Natyashastra Bharata Muni* talks about *Ritu* in chapter 26. He dictated different expressions to express different *Ritu*. *Hemanta* should be indicated by seeking the sun, fire and warm clothing. Further *Hemanta* is expressed through symptoms like *Kujan*, *Sitkara*, trembling of head and lips and chattering of teeth <sup>[13]</sup>.
- Winter is represented by smelling of flowers, drinking wine, and feeling of an unpleasant wind. *Vasanta* is to be indicated by the representation of the act of rejoicing, enjoyment and festivities and a display of various flowers, the summer is to be indicated through the representation of heat of the earth, fans, wiping of sweat and feeling of hot wind, the rainy season is to be indicated by the representation of *Kadamba*, *kutaj* and *Nimba* flowers, *Indragopa* and group of peacock <sup>[14]</sup>.

#### Samhita Period

*Acharya* described *Ritu* and *Ritucharya* in their own way which is further elaborated by commentators. But there is no direct reference of mentioning of *Ritu Sandhi* in *Charaka* and *Sushruta Samhita*. In *Samagrahikal: Vagbhatta* mentioned *Ritusandhi* for the first time in *Ritucharya* chapter. *Sharngadhara* described this concept of *Ritusandhi* to limit the period to fifteen days of *Kartika* and *Margashirsha* and named it as "*Yamadamshttra*" <sup>[15]</sup>. Depending upon position of Sun, group of three seasons called *Uttarayana* and group of three seasons called *Dakshinayana* are formed. Further each *Ayana* is divided into three *Ritu* each viz., *Shishir*, *Vasanta*, *Grishma* and *Varsha*, *Sharad*, *Hemanta*.

#### Physiological Changes during Ritusandhi

Seasonal variation affects:

- Agni (Digestive Fire)
- Bala (Strength/Immunity)
- Dosha equilibrium

Table 2: <sup>[16]</sup>

Ritu	Agni	Bala
Shishira	Strong	Strong
Vasanta	Moderate	Moderate
Grishma	Weak	Weak
Varsha	Weak	Weak
Sharad	Moderate	Moderate
Hemanta	Strong	Strong

#### During Sandhi Kala:

- Immunity temporarily declines
- Doshas become unstable
- Risk of seasonal disorders increases

#### Disease Manifestation in Relation to Ritu

Classical texts describe seasonal predisposition:

- Vata disorders – Pravrit/Varsha
- Pitta disorders – Sharad
- Kapha disorders – Vasanta
- Raktaja disorders – Sharad <sup>[17]</sup>

This demonstrates the importance of adapting diet and lifestyle gradually during transitional periods.

#### Doshic State of Each Ritusandhi can be <sup>[18]</sup>

- Sisira-Vasanta Ritusandhi*- *Kapha dosha* is tending to aggravate.
- Vasanta-Greeshma Ritusandhi*- *Kapha dosha* gets decreased by the strong rays of Sun
- Greeshma-Varsha Ritusandhi*- *Vata dosha* is tending to aggravate
- Varsha-Sharada Ritusandhi*- *Pitta dosha* is tending to aggravate
- Sharada-Hemanta Ritusandhi*- *Pitta dosha* gets decreased
- Hemanta-Sisira Ritusandhi*- *Kapha dosha* in *Kshaya Avastha*

#### Disease Onset and Relation of Ritu:

- Vata sambadhit vyadhi- Pravrat <sup>[19]</sup>
- Pitta sambadhit vyadhi- Sharad <sup>[20]</sup>
- Sleshma sambadhit vyadhi-Vasanta <sup>[21]</sup>
- Vatika Arsas- Hemanta
- Paittika Arsas- Sharad, Grishma
- Slaishmiki Arsas- Shitakala
- Raktaja Vyadhi- Sharad
- Udarda, Pratishyaya-Shita Ritu
- Visarpa, Chardi- Sharad

#### Regimen during Ritusandhi

**The Key Principle:** Gradual withdrawal of the previous season's regimen and gradual adoption of the next season's regimen.

Abrupt change may cause *Asatmyaja Roga* (diseases due to improper adaptation) <sup>[22]</sup>.

#### Gradual Adaptation Model

- **Day 1:**  $\frac{3}{4}$  previous regimen +  $\frac{1}{4}$  new regimen
- **Day 2-3:**  $\frac{1}{2}$  previous +  $\frac{1}{2}$  new
- **Day 4-6:**  $\frac{1}{4}$  previous +  $\frac{3}{4}$  new
- **Day 7 Onwards:** fully adopt new regimen

This stepwise method ensures physiological adaptation.

**Table 3:** This table represents Aahara krama for 14 days of Ritusandhi according to Acharya Hemadri [23]

Days of Ritu Sandhi	Aahara of Preceding Season	Aahara of Succeeding Season
1 <sup>st</sup> Day	3 Parts	1 Parts
2 <sup>nd</sup> Day	4 Parts	-
3 <sup>rd</sup> Day	2 Parts	2 Parts
4 <sup>th</sup> Day	2 Parts	2 Parts
5 <sup>th</sup> Day	3 Parts	1 Parts
6 <sup>th</sup> Day	1 Parts	3 Parts
7 <sup>th</sup> Day	1 Parts	3 Parts
8 <sup>th</sup> Day	1 Parts	3 Parts
9 <sup>th</sup> Day	2 Parts	2 Parts
10 <sup>th</sup> Day	2 Parts	2 Parts
11 <sup>th</sup> Day	2 Parts	2 Parts
12 <sup>th</sup> Day	2 Parts	2 Parts
13 <sup>th</sup> Day	2 Parts	2 Parts
14 <sup>th</sup> Day	2 Parts	3 Parts
15 <sup>th</sup> Day	-	4 Parts

### Rasayana and Immunomodulation during Ritusandhi

To prevent seasonal illnesses, Rasayana therapy is advised. Commonly recommended herbs:

- Tinospora cordifolia (Guduchi)
- Curcuma longa (Haridra)
- Glycyrrhiza glabra (Yashtimadhu)
- Withania somnifera (Ashwagandha)

These enhance immunity and support adaptation to climatic changes.

### Modern Relevance of Ritusandhi

In earlier centuries, infectious diseases dominated mortality statistics. In the modern era, lifestyle disorders such as:

- Hypertension
- Diabetes
- Cardiovascular diseases
- Obesity

Urbanization, irregular food habits, artificial environments, and detachment from natural seasonal cycles contribute to weakened adaptive capacity.

Ritusandhi provides a scientific preventive framework aligned with:

- Chronobiology
- Seasonal immunity variation
- Preventive medicine

### Clinical Importance

Knowledge of Ritu is important for:

- Panchakarma scheduling
  - Vamana – Vasanta
  - Virechana & Raktamokshana – Sharad
  - Basti – Varsha
- Surgical recovery (fracture healing better in Shishira)
- Wound management

Thus, seasonal understanding enhances therapeutic outcomes.

### Discussion

The foundational aim of Ayurveda is health preservation. Seasonal regimen (Ritucharya), daily regimen (Dincharya), night regimen (Ratricharya), and ethical conduct (Sadvritha) form pillars of preventive medicine.

Ritusandhi represents a period of biological stress due to environmental fluctuation. Modern science acknowledges that sudden climatic changes affect:

- Immune response
- Gastrointestinal function
- Hormonal balance

The classical concept of gradual adaptation during Ritusandhi aligns remarkably with modern preventive strategies.

### Conclusion

Ayurveda is a life science that emphasizes the importance of keeping people healthy. Our sages proposed many theories, such as the Dincharya, Ritucharya, and Ratricharya, to explain this. The seasonal junction protocols are listed here. Since it is thought that the main etiological element responsible for illnesses is Kala (sea/time). The rules laid down by Acharya should be adhered according to the season. Even if one follows this advice, the sudden change in schedule brought on by the seasons may make him more prone to disease. It is hence necessary to understand Ritusandhi Charya. This teaches how to let go of long-standing routines related to one's food, way of life, and seasonal activities in order to facilitate a more effortless transition to new seasons. It will be simpler to avoid seasonal infections as a result. There are numerous other situations when this progressive decline idea is necessary. This page is a meagre attempt to clarify what we mean when we talk about seasons, food, and activities. This article also makes an effort to understand Ritu's importance in patient care.

Ritusandhi is a vital yet underappreciated component of Ayurvedic preventive medicine. It emphasizes gradual physiological adaptation during seasonal transitions to prevent Dosha imbalance and disease manifestation.

In the present era of rising lifestyle disorders and weakened immunity, integrating Ritusandhi principles into daily practice can significantly enhance preventive healthcare.

Understanding and applying seasonal wisdom from classical texts such as Charaka Samhita, Sushruta Samhita, and Ashtanga Hridayam is not merely traditional adherence but a scientifically sound approach toward sustainable health.

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