

TIME-RESTRICTED EATING IN THE MANAGEMENT OF STHAULYA: AN AYURVEDIC PERSPECTIVE ON KALA BHOJANA AND LANGHANA

Vd. Omkar Gopal Londhe*¹, Vd. Manjusha More², Vd. Vatsal Surati³

¹PG Scholar, Dept. of Panchakarma, Shree Saptashruni Ayurved Mahavidyalaya & Hospital Nashik.

²Professor & HOD, Dept. of Panchakarma, Shree Saptashruni Ayurved Mahavidyalaya & Hospital Nashik.

³PG Scholar, Dept. of Panchakarma, Shree Saptashruni Ayurved Mahavidyalaya & Hospital Nashik.

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*Corresponding Author

Vd. Omkar Gopal Londhe

PG Scholar, Dept. of Panchakarma,
Shree Saptashruni Ayurved
Mahavidyalaya & Hospital Nashik.



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ABSTRACT

Background: Sthaulya (obesity), classified as a *Santarpanottha Vikara* in Ayurveda, is characterized by *Kapha-Meda vriddhi* and *Agnimandya*. Modern dietary strategies like Time-Restricted Eating (TRE) have shown potential in weight reduction and metabolic improvement.

Objective: This review evaluates TRE in the context of Ayurvedic principles of *Kala Bhojana* (proper meal timing) and *Langhana* (lightening therapy) for Sthaulya management.

Methods: Literature on TRE (2015–2025) and classical texts (*Charaka Samhita*, *Sushruta Samhita*, *Ashtanga Hridaya*) were analyzed.

Results: TRE aligns with *Kala Bhojana* by controlling eating windows and with *Langhana* by inducing mild caloric restriction. Clinical evidence suggests TRE reduces BMI, improves lipid profiles, and enhances metabolic flexibility. These outcomes parallel the Ayurvedic strategy

of *Deepana–Pachana* followed by *Meda Kshaya*. **Conclusion:** TRE is a modern application of classical Ayurvedic wisdom, providing a practical, evidence-informed approach to managing Sthaulya.

KEYWORDS: *Sthaulya*, time-restricted eating, *kala bhojana*, *Langhana*, *agni*, *meda*, Ayurveda.

1. INTRODUCTION

Sthaulya, described in classical Ayurvedic texts as a *Santarpanottha Vikara* (disease of over-nutrition), is primarily caused by *Kapha* and *Meda vridhhi* (increase in fat) associated with *Agnimandya* (impaired metabolism).^[1] It manifests as excessive fat accumulation, reduced metabolic efficiency, and a predisposition to systemic disorders. Globally, obesity prevalence has reached epidemic proportions, necessitating interventions that restore *Agni* (digestive fire) and reduce *Meda* (adipose tissue).^[2]

Time-Restricted Eating (TRE), a contemporary strategy focusing on a specific daily eating window (typically 8–10 hours), has demonstrated significant potential in improving glucose and lipid metabolism.^[3] While TRE originates from modern chrononutrition research, its principles closely resemble the Ayurvedic concepts of *Kala Bhojana* (timed meals) and *Langhana* (depletion therapy).^[4] Clinical studies conducted between 2015 and 2025 indicate that TRE patterns, such as the 16:8 protocol, improve insulin sensitivity and promote fat utilization, mirroring Ayurvedic strategies of *Deepana–Pachana* (stimulating digestion) and *Agni* correction.^[5]

2. CONCEPTUAL ALIGNMENT OF TRE AND AYURVEDA

The synergy between modern fasting physiology and Ayurvedic logic is detailed in Table 1.

Table 1: Integration of TRE Mechanisms with Ayurvedic Principles.

TRE Biological Mechanism	Ayurvedic Concept	Therapeutic Effect on <i>Sthaulya</i>
Restricted Feeding Window	<i>Kala Bhojana</i>	Prevents <i>Adhyashana</i> (overeating); allows <i>Agni</i> to digest previous meals fully. ^[6]
Prolonged Fasting State	<i>Langhana</i>	Induces "lightness" in the body; initiates <i>Meda-Dhatu-Paka</i> (fat metabolism). ^[7]
Metabolic Switching	<i>Agni Deepana</i>	Shifts energy source from glucose to fats; rekindles metabolic fire. ^[8]
Cellular Autophagy	<i>Srotas-Shuddhi</i>	Clears metabolic waste (<i>Ama</i>) and cellular debris from the channels. ^[9]
Circadian Alignment	<i>Dinacharya</i>	Synchronizes digestion with the solar cycle (<i>Pitta</i> phase), maximizing metabolic rate. ^[2]

3. HEALTH-PROMOTING MECHANISMS

3.1. Strengthening Digestive Fire (Agni)

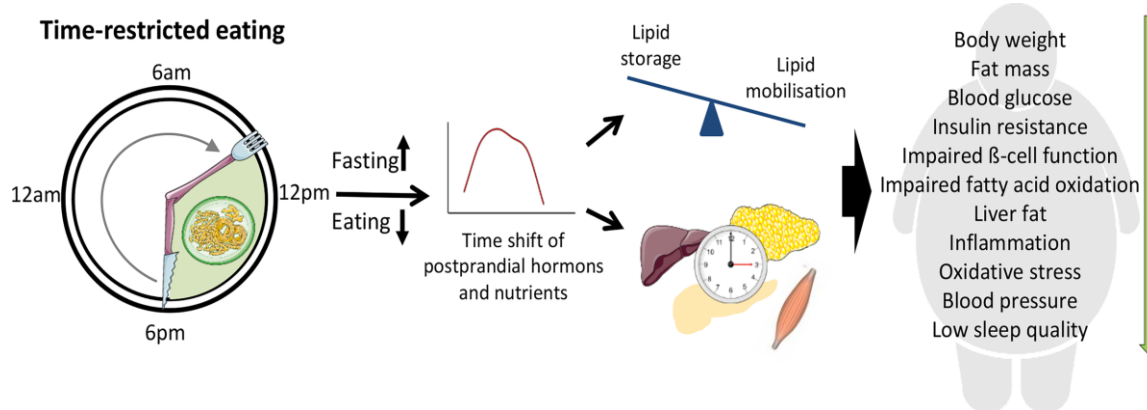
By confining meals to a specific window, the digestive system is allowed periods of rest, preventing the accumulation of *Ama* (toxins). This fasting period acts as a natural "digestive reset," promoting effective nutrient assimilation and preventing the stagnation of *Kapha*.^[10]

3.2. Activation of Fasting Physiology and Autophagy

When fasting extends to roughly 12–16 hours, the body shifts from glucose utilization to fat-derived energy (ketosis).^[3] This metabolic switch triggers autophagy—a cellular cleaning process where damaged components are removed.^[11] In Ayurveda, this is analogous to *Prana-Agni* clearing *Ama* from the *Dhatus* (tissues).^[9]

3.3. Enhancing Gut Health and Microbiota

Modern research shows TRE positively reshapes the gut microbiota, increasing protective species such as *Akkermansia muciniphila*.^[12] This bacterium strengthens the intestinal lining and reduces systemic inflammation. From an Ayurvedic perspective, this mirrors the effects of a balanced *Agni*, where properly digested food and healthy microbial fermentation prevent the formation of *Ama* and support *Ojas* (vitality).^[13]



4. DISCUSSION

The integration of TRE into the management of *Sthaulya* presents several key points for clinical consideration.

4.1. Shift from Caloric Restriction to Chrono-nutrition

Traditional obesity management often fails due to the psychological burden of calorie counting. TRE shifts the focus to "timing," which aligns with the Ayurvedic emphasis

on *Kala* (time) as a primordial cause of health and disease.^[14] By focusing on *Kala Bhojana*, patients achieve *Langhana* (lightness) without the depleting effects of severe calorie restriction, which can often aggravate *Vata Dosha* and cause metabolic rebound.^[4,15]

4.2. Agni as the Central Bio-Regulator

Modern TRE research on "metabolic flexibility"—the ability to switch between glucose and fat burning—is a scientific validation of *Agni* functioning at the *Dhatu* (tissue) level. In *Sthaulya*, the *Srotas* (channels) are blocked by *Meda*; TRE-induced fasting serves as a *Lekhana* (scraping) action, clearing these obstructions and allowing *Agni* to penetrate the deeper tissues.^[8,13]

4.3. The Importance of Early TRE (eTRE)

Ayurveda suggests that *Agni* follows the sun. Eating the last meal before sunset (aligning with *eTRE*) has been shown to improve insulin sensitivity more effectively than late-evening eating windows.^[15] This validates the Ayurvedic *Dinacharya* principle that eating heavy meals at night leads to *Ama* and *Kapha* accumulation, the root causes of *Sthaulya*.

4.4. Individualized Application (Prakriti)

While TRE is beneficial, its application should be tailored. A *Kapha* dominant individual may thrive on a 16:8 or even 18:6 window to reduce heaviness. However, a *Vata* dominant individual with *Sthaulya* (obese *Vata*) may require a longer eating window (12:12) to prevent excessive dryness and nervous system agitation, highlighting the need for Ayurvedic personalization in modern fasting protocols.^[6,7]

5. CONCLUSION

TRE can be interpreted as a modern dietary strategy reflecting classical Ayurvedic principles of *Kala Bhojana* and *Langhana*. Conceptually and physiologically, TRE represents a practical, evidence-informed approach to managing *Sthaulya* by regulating meal timing, stimulating *Agni*, and promoting the depletion of excess *Meda*. Further clinical studies integrating specific Ayurvedic dietary prescriptions (*Pathya*) with TRE frameworks are warranted to optimize obesity management.

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