



ISSN 2456-3110

Vol 9 · Issue 9

September 2024

Journal of
**Ayurveda and Integrated
Medical Sciences**

www.jaims.in

JAIMS

An International Journal for Researches in Ayurveda and Allied Sciences



Maharshi Charaka
Ayurveda

Indexed

Understanding *Heen Yog*, *Mithya Yog*, and *Ati Yog* in IV Fluid Administration: A Comparative Analysis from Ayurveda, *Karma Yog*, and Modern Medical Science

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ABSTRACT

Ayurveda offers a holistic framework for understanding the causes of disease, particularly through the concept of *Asatmendriyartha Samyoga*, involving *Heen Yog* (underuse), *Mithya Yog* (improper use), and *Ati Yog* (overuse). These can also be understood within the scope of *Karma Yog*, the philosophy that proper, timely action leads to positive outcomes. This paper explores how the administration of IV fluids, a critical medical intervention for correcting electrolyte imbalances, is a form of *Karma*, and when performed correctly, aligns with *Karma Yog* principles. Improper IV fluid use - whether through *Heen Yog*, *Mithya Yog*, or *Ati Yog* - can lead to adverse outcomes, thus emphasising the need for balance, skill, and timing in this therapeutic action. A synthesis of *Ayurvedic* texts and contemporary medical literature is presented to explore this concept.

Key words: *Heen Yog*, *Mithya Yog*, *Ati Yog*, *Karma Yog*, *Ayurveda*, *IV fluids*, *Electrolyte imbalance*, *Asatmendriyartha Samyoga*, *Fluid therapy*, *Modern medicine*

INTRODUCTION

In *Ayurveda*, *Karma* refers to action or deed, which is central to the cause-and-effect relationship governing life and health. *Karma Yog* is the philosophy of performing one's duties with awareness, skill, and mindfulness. The concepts of *Heen Yog*, *Mithya Yog*, and *Ati Yog* from *Ayurvedic* texts highlight the consequences of inappropriate actions related to diet, lifestyle, and medical treatment. These concepts apply directly to modern therapeutic actions, such as the

administration of IV fluids, which can be considered a medical *Karma*. This paper explores the *Ayurvedic* philosophy of *Karma Yog* in the context of IV fluid therapy, emphasising how proper administration aligns with this principle and how *Heen*, *Mithya*, and *Ati Yog* can lead to imbalances and adverse outcomes.

IV fluids are crucial in maintaining fluid balance, managing dehydration, and correcting electrolyte disturbances in various clinical conditions. However, improper fluid administration - whether underuse, misuse, or overuse - can result in significant complications.^[1] The correlation between these improper uses and the *Ayurvedic* classifications of *Heen Yog*, *Mithya Yog*, and *Ati Yog* will be analysed.

LITERATURE REVIEW

Ayurvedic Perspective

The *Charaka Samhita* and *Sushruta Samhita* outline three key categories of improper usage: *Heen Yog* (underuse), *Mithya Yog* (improper use), and *Ati Yog* (overuse). These can be applied to the administration of IV fluids, which are akin to medicinal substances used to maintain balance in the body.^[2]

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Submission Date: 13/08/2024 Accepted Date: 26/09/2024

Access this article online

Quick Response Code



Website: www.jaims.in

DOI: 10.21760/jaims.9.9.31

In the context of *Karma Yog*, the proper and mindful administration of fluids is a form of therapeutic *Karma*, a concept emphasised in Ayurvedic treatment protocols. The philosophy of *Karma Yog* suggests that skilled, appropriate action brings about positive results, aligning with the concept of *Samyoga* (proper use) in *Ayurveda*, which promotes health and longevity.^[2]

From the *Charaka Samhita* (Sutra Sthana 1.21-22):

हीनमित्यातियोगश्च, विशेषेन्द्रियार्थानाम्।

संयोगः सर्वमेवेशां रोगाणां प्राणिनां च यः॥^[2]

This quote illustrates how improper use in any form, whether underuse, misuse, or overuse, leads to disease, while the proper use (*Karma*) contributes to health. In the context of IV fluid administration, the action of administering fluids correctly, aligned with the principle of *Karma Yog*, is vital for maintaining homeostasis.

Contemporary Perspective

Modern medical science supports the need for balance in IV fluid administration. Improper fluid therapy can result in significant clinical complications, making the skill and timing of administration crucial - a reflection of *Karma Yog* in action. Research has demonstrated the adverse effects of underuse (hypovolemia), misuse (fluid mismanagement leading to complications), and overuse (fluid overload) of IV fluids.^[3,4]

Studies have shown that improper administration of IV fluids can increase patient morbidity and mortality.^[3,5] Just as *Karma Yog* emphasises the importance of proper, conscious action, the practice of fluid therapy requires careful consideration of the patient's needs, appropriate fluid choice, and the timing of administration.^[6]

METHODOLOGY

This paper combines *Ayurvedic* textual analysis from primary sources such as the *Charaka Samhita* and *Sushruta Samhita* with a review of contemporary medical literature on IV fluid administration. By drawing parallels between the *Ayurvedic* concepts of

Heen Yog, *Mithya Yog*, and *Ati Yog* and their modern counterparts, the paper examines how improper fluid therapy corresponds to these *Ayurvedic* categories. Additionally, the concept of *Karma Yog* is explored in relation to the skill and mindfulness required in administering IV fluids.

DISCUSSION

Heen Yog and Underuse of IV Fluids

In *Ayurvedic* terms, *Heen Yog* refers to the underuse of substances. In IV fluid therapy, this could manifest as insufficient fluid administration, leading to hypovolemia, tissue hypoperfusion, and electrolyte imbalance.^[7] Here, *Karma Yog* calls for the conscious application of appropriate actions -administering enough fluids to restore balance, thus preventing the body from entering a state of fluid deficiency.

Mithya Yog and Improper Use of IV Fluids

Mithya Yog involves the improper use of fluids, such as administering the wrong type or using fluids at the wrong time. For example, giving hypotonic fluids to a patient in need of isotonic fluids can lead to complications like cerebral oedema.^[8] According to *Karma Yog*, the therapeutic action must be carefully chosen and executed based on the patient's individual needs, emphasising precision in treatment.

Atiyog and Overuse of IV Fluids

Atiyog, or the overuse of fluids, can cause fluid overload, leading to conditions such as pulmonary oedema, heart failure, or electrolyte dilution.^[9] In terms of *Karma Yog*, this highlights the importance of moderation, as excessive actions - even with good intentions - can lead to harm. *Atiyog* of fluids represents a departure from the balanced, mindful practice that *Karma Yog* advocates.

CONCLUSION

The principles of *Heen Yog*, *Mithya Yog*, and *Ati Yog* in *Ayurveda*, combined with the philosophy of *Karma Yog*, provide a comprehensive framework for understanding the importance of balance, skill, and timing in the administration of IV fluids. Both *Ayurvedic* philosophy and modern medical science stress the

importance of proper action in maintaining homeostasis and preventing disease. By synthesising traditional wisdom and contemporary research, healthcare practitioners can gain deeper insights into the proper management of fluid therapy, ensuring that actions are aligned with both scientific evidence and holistic principles.

Ethical Declaration

This research complies with ethical standards regarding literature review, and no human or animal subjects were involved. Proper citations of all sources are provided, and no conflicts of interest exist in the writing of this paper.

Acknowledgements

The author would like to acknowledge the contributions of classical *Ayurvedic* texts and modern medical literature for providing the foundational knowledge necessary for this paper.

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How to cite this article: Sachin Jadhav, Aditi Sirsat. Understanding Heen Yog, Mithya Yog, and Ati Yog in IV Fluid Administration: A Comparative Analysis from Ayurveda, Karma Yog, and Modern Medical Science. *J Ayurveda Integr Med Sci* 2024;9:197-199. <http://dx.doi.org/10.21760/jaims.9.9.31>

Source of Support: Nil, **Conflict of Interest:** None declared.
