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CONCEPTUAL FORMULATION DESIGN IN AYURVEDA: EXPLORING THE ROLE OF YOUGIKA DRAVYA SIDDHANTA

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ABSTRACT

The concept of Yougika Dravya Siddhanta forms the foundation of compound formulations in Ayurveda, emphasizing the synergistic and antagonistic interactions between multiple ingredients to achieve enhanced therapeutic efficacy. Unlike Eka Mulika Dravya (single-drug formulations), Yougika Dravya involves the thoughtful combination of two or more substances - herbal or mineral - guided by classical parameters such as Rasa, Guna, Veerya, Vipaka, and Prabhava. This article explores the comprehensive principles governing the formulation, including the stages of preparation (Dravya Sangrahana, Samskara and Prayoga) and highlights the significance of Tridosha and Panchamahabhuta Siddhanta, Viruddha Ahara, and the role of Prakshepaka Dravyas in optimizing bioavailability and palatability. Through proper understanding and systematic application of these concepts, Yougika Dravya Siddhanta underscores the holistic philosophy of Ayurveda - where the Guna-Karma of a medicine emerges from the combination of its constituents rather than their individual effects. A clear understanding of these Siddhantas ensures correct interpretation of Vyadhi condition and helps pharmaceutically as well as therapeutically in maintaining quality, safety and potency of the Aushada.

KEYWORDS: Yougika Dravya, Formulation, Aushadha, Samskara.

INTRODUCTION

Ayurvedic medicines which are an integral part of the ancient Indian healing system aims at promoting health, preventing disease and restoring balance in the body. Ayurvedic medicines termed as *Aushadha* is defined as the *Dravya* which does *Rasadharana* (Drug that withhold *Rasa* in it) and *Osa* means '*Rasa*' which is an inherent property of a *Dravya* and judicious use of this *Rasa* imparts health. [1]

Aushadha is classified into 2 types according to Prayoga.1. Eka Mulika Dravya – Single drug formulations

2. Yougika Dravya – Compound formulations

Eka Mulika Dravya are Single Drug dosage form whereas Yougika Dravyas are the formulations prepared by the combination of two or more Dravyas which can be Rasa Aushadhi or Kashta Aushadhi. Single Dravyas are converted into formulation to increase their synergetic, anatgonistic action. [2]

To get the desired effect, the factors to be considered to formulate a Yougika Dravya are Rasa, Guna, Veerya,

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Vipaka etc. or other basic concepts like Samyoga, Rashi, Desha, Kala etc.

These *Yougika Dravyas* / Compound Formulations has many benefits like it helps to nullify the toxic compound (if present any), it helps to reach the target site faster, due to the presence of many ingredients it acts as synergetic to each other. It also helps enhancing taste by masking distasteful drugs. One of the example being *Mahakashaya*. [3]

MATERIALS AND METHODS

Yougika Dravya Siddhanta explains the principle that when two or more Dravyas are combined, the resulting substance exhibits collective, modified, or entirely new properties, different from the individual components.

FACTORS CONSIDERED FOR THE PREPARATION OF YOUGIKA DRAVYA.

It can be classified into 3 stages.

- 1. Before Preparation
- 2. During Preparation

3. After Preparation

1. BEFORE PREPARATION/ PURVA KARMA (Dravya Sangrahana)

The preliminary steps followed before the main process of medicine preparation which includes *Dravya Sangraha, Samrakshana, Anukta Mana*, selection of equipment etc.

In this stage many factore are considered like.

- Kala Time period as in time considered for collection of drugs etc.
- Sthana Place of Collection of the ingredients
- Avastha State of the ingredients at the time of collection and usage.
- Samrakshana Preservation or storage of raw materials
- *Vidhi* Process or procedure followed during the collection of ingredients.
- Samskara Purva Karmas like drying, extracting Swarasa etc

Table No. 01: Factors considered before preparation of Yougika Dravya.

$KALA^{[4]}$	STHANA ^[5]	AVASTHA ^[6]	VIDHI ^[7]	SAMSKARA	GRAHYATVA
Mula – Sishira and Greeshma Patra – Varsha and Vasantha Rtu Saara – Hemanta Kanda and Ksheera – Sarat Rtu Phala and Kusuma - In their respective season	Ushna Virya – Vindhya Sheeta Virya – Himalayas	Purana-Guda, Vidanga, Madhu Exception of duplication – Guduchi, Kutaja, Vasa	Early morning hours, Sumana, Suchi, Pratha Kala Direction – North facing	Clean, Proper ventilation Dried properly Stored in air tight container.	State of the ingredient and its <i>Guna</i> Eg- in case of <i>Mandura</i> if it is 60 yrs old it is considered <i>Adhama</i> , if it is 70 yrs old then it is <i>Madhyama</i> , whereas if it is 100 yrs old then it is <i>Sarva Shresta</i> .

2. DURING PREPARTION/ PRADHANA KARMA

It refers to the main/core process that transforms the raw materials into the final, usable medicine form. The preparation of *Ayurvedic* medicine is a meticulous and traditional process rooted in ancient knowledge. It includes various processes like *Bhavana*, *Marana* etc.

Here various factors are taken into account to ensure the utmost result during the preparation.

- a) Samanya Vishesha
- b) Tridosha and Pancha Mahabhuta Siddhanta
- c) Concept of Rasa Panchaka
- d) Concept of Viruddha
- e) Role of Bhavana
- f) Samskara/Karana
- g) Kala
- h) Yogna(plan)
- i) Samyoga
- j) Concept of Prakshepaka Dravya

SAMANYA VISHESHA^[8]

One of the basic concept to be considered during the selection and preparation of a formulation is *Samanya* and *Vishesha Siddhanta*. It stands for the synergetic and antagonistic effect between the drugs.

Samanya/ Synergetic Effect - Interaction b/w 2 or more drugs that causes the total result of the drugs to be greater than the sum of the single effects of each drug.

Eg - Amalaki Rasayana - Here Amalaki Churna is given Bhavana with Amalaki Swarasa in order to increase the efficacy which in turn helps in dose reduction.

Vishesha / Antagonistic Effect - Interaction b/w 2 or more drugs that have opposite effects on the body. It may reduce the efficacy of one or more of the drugs.

Eg - In *Anandabhairava Rasa, Vatsanabha* is one of the major ingredients. Here along with *Vatsanabha, Tankana* is also an ingredient. By adding *Tankana* it helps reduce the *Teekshnata* of *Vatsanabha*.

TRIDOSHA AND PANCHA MAHABHUTA $SIDDHANTA^{[9][10]}$

The *Tridoshas - Vata*, *Pitta* and *Kapha -* are biological energies derived from the *Panchamahabhutas* (*Akasha*, *Vayu*, *Agni*, *Jala*, *Prithvi*).

Each Ingredient in a formulation is selected based on its *Panchamahabhuta* compositions and its effect on *Doshas*.

Herbs with dominant *Akasha*, *Agni* and *Vayu* are used to pacify *Kapha Dosha* and the drugs with this predominance are used in preparations of medicines used for *Kaphaja Vyadhis*. Similarly, those with *Prithvi*, *Agni*, *Jala* qualities balances *Vata Dosha* and *Vayu*, *Jala Prithvi* helps in balancing *Pitta dosha*.

Eg - In case of *Shadanga Paneeya* which has a predominance of *Laghu and Ruksha Guna* inturn having predominance of *Vayu, Akasha and Agni Mahabhuta* helps in depletion of *Ama* which leads in treatment of *Jwara*.

CONCEPT OF RASA PANCHAKA[11]

The 5 key attributes of a *Dravya* help determine the therapeutic action of a substance on the body. They are *Rasa, Guna, Virya, Vipaka* and *Prabhava*. Each component plays a vital role in how a medicine interacts with the body and *Tridoshas*.

• RASA - The 6 tastes (Shadrasa) / essence predominant in any Dravya, each Rasa has a specific effect on Dosha, Dhatu and Mala influencing health and disease condition.

Table No. 02: Dosha predominance of each Rasa.

RASA	DOSHA HARA
Madhura, Amla, Lavana	Vata
Madhura, Tikta, Kashaya	Pitta
Katu, Tikta, Kashaya	Kapha

- GUNA Guna refers to the inherent qualities of a Dravya.
- *VEERYA* The potency a *Dravya* consists of, broadly classified as *Sheeta* and *Ushna* which determines the intensity and action on *Doshas*.
- VIPAKA Post-digestive effect of a Dravya representing the final transformation after digestion. Typically categorized into Madhura, Amla and Katu Vipaka.
- PRABHAVA Unique or specific action of a Dravya which cannot be solely explained by its Rasa, Guna, Virya and Vipaka.

Eg - In case of *Simhanada Guggulu* which consists of *Triphala, Eranda Taila, Gandhaka* and *Guggulu* as the main ingredients.

- Triphala Tridosha Shamaka having Amla, Kashaya, Katu, Tikta Rasa with Laghu Ruksha Guna, Madhura Vipaka acts as Amapachaka.

- Gandhaka Katu, Tikta rasa, Laghu, Snigdha, Sara Guna, Ushna Virya and Katu Vipaka acts as Vata-Kaphahara, Amapachaka and Shotahara.

All these suggests that *Simhanada Guggulu* has properties such as *Amapachana*, *Virechana Karma*, *Vata- Kaphahara*, *Shothahara* and *Lekhana* which makes it highly effective in treating *Amavata*.

CONCEPT OF VIRUDDHA^[12]

The concept of *Viruddha* in *Ayurveda* refers to 'Incompatability'. When certain *Dravyas* or substances though individually wholesome, becomes harmful when combines, processed or consumed in specific conditions. Examples for different types of *Viruddha*.

- ♦ Desha Viruddha Intake of Snigdha and Sheeta Ahara in Anupa Desha.
- Kala Viruddha Intake of Katu and Ushna Ahara in Greeshma Rtu.
- ♦ Agni Viruddha Intake of Laghu and Alpa Matra Ahara in Teeksha Agni condition.
- ♦ *Matra Viruddha* When honey and ghee are consumed in equal proportion.
- ♦ Satmya Viruddha Intake of Madhura and Sheeta Ahara by a person who is used to Katu and Ushna Ahara.
- Samskara Viruddha Reheating of oil which is used once.
- ♦ Veerya Viruddha When fish of Ushna Virya consumed with Sheeta Virya milk.
- ♦ Koshta Viruddha Usage of strong laxatives by a Mrdu Koshta person
- ♦ Parihara Viruddha Consuming cold items after Ushna and Teekshna Ahara.
- Upachara Viruddha In take of Sheeta Dravya after Snehapana.
- Paka Viruddha Intake of un-cooked or Partially cooked food items.
- Samyoga Viruddha When Amla Dravyas are taken with milk.
- Karma Viruddha Avoid selection of drugs with opposite Gunas. (Eg In Sitopaladi Churna which consists of Vanshalochana, Ela, Pippali and Twak other than Sitopala which are of Ushna Guna and Katu Vipaka, Sitopala is added in 16 parts to reduce its Teekshanata and Ati Ushanata.)

Intake of *Viruddha Ahara* can lead to formation of *Ama*/toxins, disturb the *Doshas* and manifest diseases immediately or over time. *Ayurveda* emphasizes avoiding *Viruddha* combinations to maintain *Dosha Samatva*, *Agni Bala* and overall health.

SAMSKARA/KARANA^[13]

Samskara refers to the process of purification and transformation of *Dravyas* to enhance their potency, safety and therapeutic efficacy. These *Samskaras* helps to remove *Doshas*, induce *Guna*, *Karma* and tailor them for treating certain specific *Dosha* imbalances.

"Guna Antaraadanam" - It is done to incorporate special effects for the drug & to reduce the toxic effects of a drug.

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Eg.

- Purification of *Parada* and *Gandhaka* is done to remove impurities and toxicity. These are used in various formultions like *Rasa Parpati*, *Arogyavardhini Vati*, *Pratapalankeshwara Rasa etc*.
- Ghrita without Samskara it is Guru, Agni Deepana, Vata-Pitta hara. Whereas with Samskara usage of Ghrita

can be of great results. eg - Satadouta Ghrita, Shatphala Gritha.

Table No 03: Types and examples for Samskaras.

SAMSKARA	EXAMPLE		
Jala Samskara	Rakta Shali after soaking in water and frying on fire becomes Laja (Guru to Laghu)		
Agni Samskara	Tandula (Guru Guna to Laghu Guna)		
Shaucha Samskara	Removes dirt and foreign bodies from drugs. Washing of <i>Shatavari</i> root removes		
	mud and dirt.		
Manthana Samskara	Dadhi (Shothakara) Turns To Takra (Shothohara)		
Desha Samskara	In Amalaki Avaleha/Amalaki Ghrita - Amalaki to be kept for 6 days in Bhasma Rashi		
	which turns as Rasayana.		
Kala Prakarsha	In case of Asava and Arista it becomes fermented after 15 or more days		
Bhajana Samskara	Gritha Lepana in Mrt Patra helps in closing of pores which reduces the chances of		
	fungal infestation.		
Vasana Samskara	Drugs like <i>Utpala</i> kept in water for <i>Sugandhakara</i>		
Bhavana Samskara	Amalaki Rasayana - Here Amalaki Churna is given Bhavana with Amalaki Swarasa		
	inorder to increase the efficacy which inturn helps in dose reduction (helpful in		
	Shodhana and Gunavardhana).		

KALA^[14]

Kala refers to the time factor which is considered for preparation of any formulation.

Eg -

- In *Sneha Kalpana*, the time of preparation varies according to the *Drava-Dravya* added in the formulation. Like If milk is added then 2 days of *Paka* is done, If *Swarasa*, 3 days of *Paka* etc.
- In preparation of *Hima Kalpana*, It has to be soaked overnight/*Ahoratra*.
- In Lauhadi Rasayana, Sthapana is done for 1 year (12 months) with monthly Alodana by adding Amalaki Swarasa and Madhu.
- 3 days of *Bhavana* is done in preparation of *Sameera Pannaga Rasa*.

YOJANA(PLAN)

Yojana Refers to the thoughtful and purposeful combination/ Planning of individual *Dravyas* to create a compound formulation. It plays a crucial role in ensuring synergy and safety of the formulation. It also helps remove bad effects and provides desirable effects needed.

Eg.

- While using *Trivruth, Shunti* is used to remove the tenesmus produced by *Trivruth*.
- Druthi Kalpana to be stored in Kusuma Taila (for longer shelf life)
- Gokshura acts as Sthambaka in Dugda Arka

SAMYOGA^[15]

Samyoga is the permutations and combinations done to form a Yougika Dravya. It refers to the actual mixing or joining of the ingredients. It is the physical or chemical

union of *Dravyas* which can result in new or combined effect which might not be achieved in individual *Dravyas*.

It helps to produce quick action of drug.

Eg -

- To act as a catalyst- ie, Parada can be used in various forms like
- 1) Basic ore form Hingula in Ananda Bhairava Rasa
- 2) Kajjali in Kharaliya Rasayanas
- 3) Bhasma form in Kupipakwa Rasayanas
- To produce desirable taste Avipathikara is added with Sharkara
- To produce a good aroma (*Vasana Samskara*) *Ela, Karpura* etc are added in *Gandha Paka* in *Taila* preparation.
- To produce Synergetic effect To increase emetic effects of *Madanaphala*, *Jimutaka Swarasa* is used as a *Bhavana Dravya*.

PRAKSHEPAKA DRAVYA

The ingredients added to preparations like *Avaleha*, *Asava*, *Arishta* etc. apart from main Ingredients are *Prakshepaka Dravyas*.

- They affirm and augment the absorption of the drug by their bio enhancing property, act as a preservative.
- Added in a minor Quantity
- Distinct to each *Kalpana*
- Act as a synergize and also aid to Pharmacological action, bestows palatability& aroma.
- The selection and quantity depend upon physicians Yukti
- Eg Honey, Jaggery, Rock Salt, Sugar, Cumin Seed Etc

Examples: Trikatu choorna is used in most Avaleha
as Avalehas are heavy for digestion. Property of
Trikatu is antagonistic to Guru and Manda property
of Avaleha which helps improve bioavailability and
easy digestion.

3. PASHCHAT KARMA (Administration of a Formulation)

After understanding the Yougika Dravya Siddhanta, the formulation is administered considering Deha, Prakriti, Agnibala, Dosha and Rogavastha to ensure precise therapeutic action. The Anupana, Matra, Kala etc are selected to optimize proper Grahana and enhance the integrated Karma of the Yougika Dravyas.

CONCEPT OF ANUPANA/ SAHAPANA^[16]

Anupana is usually an adjuvant or the fluid vehicle for internal administration of medicaments whereas the word Sahapana is also used to the drink taken along with the medicine.

The term 'Anu' means after or alongside and the term 'Sakam' means added with.

Eg - *Ushana Jala, Madhu, Ghritha, Takra, Ksheera* etc. According to *Sushrutha - Indrajala* (Rain water) is considered as *Shresta Anupana*.

Benefits of Anupana

- a) Potency of medicine is enhanced
- b) Carries medicine to the target site.
- c) Impart flavor and Palatability.
- d) Have Yogavahi Guna.
- e) Helps in absorption and assimilation of medicine
- f) Counteract Teekshnata, Kashayata etc.

Different *Anupanas* are mentioned for the same formulation in different disease conditions.

This ensures proper disintegration, boost therapeutic effect needed.

Eg.

Table No 04. Different Anupanas used for different conditions in same formulation.

Formulation Condition		Anupana Used		
Narayana Churna	Ajirna	Ushna Jala		
	Anaha	Sura		
Agni Kumara Rasa	Kaphaja Jwara	Ardraka Swarasa		
	Agni Mandhya	Lavanga Kashaya		
Daga Cin dlama	Jirna Jwara	Kwatha of Guduchi + Parpata + Dhanyaka		
Rasa Sindhura	Arshas	Kwatha of Bala Haritaki		

CONCEPT OF AUSHADA SEVANA KALA^[17]

Proper Sevana Kala facilitates optimum absorption, directs the drug to its specific site of action, and minimizes untoward effects. It also aids in maintaining Agni Samya and enhances Aushadha Bala.

Eg:

- In case of *Gritha* administration, it is usually given during the morning hours in empty stomach. It is to ensure the complete absorption and proper digestion without formation of *Ama*.
- Sitopaladi Churna is given Muhurmuhur to avoid the accumulation of Kapha in Pranavaha Srotas and to break its Samprapti.

MATRA^[18]

The precise practical *Matra* can be decided only after considering the factors like *Agni*, *Bala*, *Vaya*, *Prakriti* and *Dosha* of the person along with the *Kala* and *Desha*. *Acharyas* have mentioned the General *Aushadha Matra* for each *Aushadha Kalpana*. Whereas the final dosage should be decided considering the above-mentioned factors according to the *Yukti* of the *Vaidya*.

Eg Swarasa - Half Pala (24 ml) Churna - 1 Karsha (12gm) Rasakriya - 1 Pala (48ml) Avaleha - 1 Pala (48gm)

DISCUSSION

- ♦ Safety, Efficacy, Stability and Palatability are the four basic requirements of a good drug dosage form
- The pharmaceutical procedures for any drug involve various steps starting from identification & collection of authentic raw material, application of standardized processing, techniques & production of quality drug, to packaging & storage of finished drug.
- ❖ It emphasizes that the overall efficacy of a formulation depends not merely on the individual properties of its ingredients, but on the synergistic interactions arising from their combination. This is reflected in the verse "Samyoga Samyukta Dravya Guna Karmayogam", which implies that the therapeutic potential of a compound formulation is the resultant of the collective properties of all the ingredients and their mutual interactions.
- The concept of Samskara is particularly significant, as it modifies the inherent properties of a drug to make it more therapeutically effective and less toxic. For example, purification of Parada and Gandhaka not only removes impurities but also imparts new therapeutic properties that make them suitable for use in Rasa Rasayanas. Similarly, Bhavana

- enhances bioavailability and facilitates assimilation, as seen in *Amalaki Rasayana*.
- Anupanas such as Madhu, Ghritha, Takra, or Ushna Jala serve as Yogavahi, improving the potency and direction of drug action. The Aushadha Sevana Kala ensures the formulation acts in harmony with the body's physiological rhythm, maximizing efficacy and minimizing side effects.

CONCLUSION

Every concept in *Ayurveda*, have proven to have its own importance and clinical implementation. *Samyoga* is one such unique contribution of *Ayurveda* implemented in the context of *Aushadha Samyoga* which explains the preparation of *Yougika Dravyas*. *Yougika Dravya Siddhanta* emphasizes that the therapeutic potency of a formulation arises not merely from the sum of its ingredients, but from their synergistic interaction.

Yougika Dravya Siddhanta allows physician to design medicines tailored for complex clinical conditions where a single drug may be insufficient. Thus, ensuring multi-dimensional action.

Beyond nomenclature, these formulations highlight the importance of systemic stages of preparation like *Shodhana, Marana* etc. as each stage plays a crucial role in detoxification, potentiation etc.

A clear understanding of these *Siddhantas* ensures correct interpretation of *Vyadhi* condition and helps in prescribing the perfect *Aushadi* for that particular condition. The *Chikitsasiddhi* completely depends upon the proper use of polyherbal formulation by a *Yuktigna Vaidya*.

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