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# TAKRA KALPANA FOR HEALTH MAINTENANCE- A SCIENTIFIC REVIEW SHIKHA KUMARI\*1, SHAMBHU KUMAR SUMAN², PUSPA PRIYADARSHANI³, VIJAY SHANKAR PANDEY⁴

\*1,2,3 PG Scholar, 4 M.D. (AYU), Professor and Head, Department of Ayurveda Samhita and Siddhanta, Govt. Ayurvedic College and hospital Patna, Bihar, India

Corresponding Author Email: <a href="mailto:bhrdwj.shikha15@gmail.com">bhrdwj.shikha15@gmail.com</a> Access this article online: <a href="mailto:www.jahm.co.in">www.jahm.co.in</a>

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### **ABSTRACT:**

Ayurveda Samhitas are not only the Aushadha Granthas but also the encyclopaedia, as they include everything relevant. In Ayurveda, 'Ahara Kalpana' is considered as more competent than the Aushadha Dravya, as it is the basis of both health and disease. That's why Ahara is considered as Prana (life). Ayurveda states that the importance of Agni (digestive fire) through its compendium is to keep the body in healthy condition. Agni, if disturbed, it may create many kinds of disorders. Takra (buttermilk) acts as primary digestive aid for the disease associated with Agni. Takra is one of the Ahara Dravya with lots of medicinal properties. Takra indicated in various diseases like Grahani, Arsha, Atisara etc., as a Pathya, Anupana or single drug. The presence of sphingolipids, lactoferrins, caseins, good qualities of proteins, various vitamins etc., which are easily digestible have been detected in buttermilk. All these explain the mechanism and action of buttermilk. A person who consumes Takra never suffers from any disease and there is no recurrence of disease treated with Takra. It alleviates the hundred disorders. There is no remedy better than Takra for the 80 types of Vataja and 20 types of Kaphaja Vyadhi. Thus, we can call it 'Panacea' and 'Nectar' for its utility in innumerable diseases. It acts as Rasayana and helps to slow down the ageing process like a magical elixir. "Takra is easily palatable which can be used for prevention as well as treatment of diseases. Hence fulfils the principles of Ayurveda.

Keywords: Kalpana, Kalpa, Ahara, Takra, Pathya.

### **INTRODUCTION:**

Ayurveda advocated, Kalpana is the process or method employed for preparation of pharmaceutical products as well as food substances. Kalpana or Prakalpana is the process of 'Samskarana' [1] by Agni, Jala, Atapa etc. Kalpana can be defined as 'Yojana' (the plan or the strategy) developed for the preparation of food and medicines. Processes like grinding, heating, frying, boiling etc. are included in the list. The word Kalpa is also used for preparations. Kalpa and Kalpana having mutual differences but have some similarity. Hence, they both are used either in the same or different form.

In different context, the preparations innumerable but in Ayurveda these are formulations can be divided into Aushadha (medicinal preparations) and Ahara (dietary preparations). From Aushadha Kalpana only Bhaishajya Kalpana (Pharmaceuticals) has evolved. Panchavidha Kashaya Kalpana is established as basic principles of Ayurveda. Ahara Kalpana is a dietary regimen mentioned in Krutanna Varga. In Ayurveda, different forms of are named as different Kalpanas food (formulations). One substance is transformed into various forms with the help of different techniques and formulations which is still flourishing without any obstruction in present versatile era. For example- different types of food items can be made from rice like Odana, Vilepi and many other Krishara, Peya, preparations. The path of Ahara Kalpana is also

described in the form of 56 *Bhoga* in Ancient India. *Pathya Kalpana* (wholesome diet) mainly based on *Ahara Dravya*. which can be used in different forms according to severity of disease and condition of the patient.

Since the beginning of civilization, humans have lived in harmony with animals and depends on their products for survival. Mainly milk and its products like *Dadhi* (curd) and *Takra* were used as food supplement. According to a proverb, it is said that rivers of milk and curd were used to flow in ancient India. In the course of evolution, human discovered various sources of his livelihood, especially the food. Different forms of dietary substances such as solid, semisolid and liquid were developed. The same substances started being used in different forms with the help of different *Samskara*.

Vaidyakeeya Subhashita Sahityam described that, Gods have got immortality due to Amruta (pious drink) in the heaven and humans have Takra on earth. According to this context, Takra has been given more importance and is comparatively more beneficial than Amruta (Nectar) which is present in heaven. In various contexts, Amruta is mentioned for God, just as Takra itself has been called Amruta for human beings. Preparations like curd, butter, buttermilk etc are mentioned in the context of Ahara, which are having very much difference in their properties and actions but these are basically highly nutritious.

During the period of *Mahabharata* Lord Krishna's affection towards *Gau* (cow) and

Maakhana (butter) was reflected is still marked today in Indian mythology. Possibly for this product, Gods have also seen jealousy from humans. In different context, it is shown that illness of *Devaraja Indra* faced extreme difficulty in treatment probably due to the lack of *Takra* in Heaven.

Indian medical literature along with other literatures mentioned the *Takra Kalpana* in detail. Different types of *Dadhi* and *Takra* with different medicinal formulations are described in *Ayurveda* classics. *Takra* is capable to fulfil both the objectives of *Ayurveda* i.e., *Swasthya Rakshanam* and *Vikara Prashamanam* as it is mentioned in *Ahara* as well as *Aushadha* forms. According to *Ayurveda* curd is added with a quarter or half part of water to prepare the *Takra*.

In the year of 1903, a study was done by Dr. Herman Schwartz on the use of buttermilk feed at the New York Academy of Medicine, the paper titled "Buttermilk as an infant food". It was beneficial in fermentative diarrhoeas in infants. Which would help to reduce the infant mortality rate. After the publication of this study, buttermilk was extensively employed in Europe and the U.S. Buttermilk feeding was indicated in the cases of indigestion, atrophy malnutrition. It was indicated for sick babies to recover from acute gastro-intestinal disorders. It was not advised as a permanent food. For chronic intestinal disturbances it is very much beneficial. Buttermilk is using by some doctors in Europe along with malt foods. Clinically excellent results were observed by using buttermilk as an infant's food.

#### AIMS AND OBJECTIVES:

- To study the basic concept of *Takra*.
- To study the properties of *Takra*.
- Utility of Takra.

### **MATERIALS AND METHODS:**

#### Materials:

**Primary resources-** *Bruhatrayee, Laghutrayee* and other classical literatures along with their commentaries has been included.

**Secondary resources-** Different articles, research papers and internet sources had been considered.

### Methods:

Above mentioned materials had been collected to study the diverse references of Takra. Some concepts of Takra had been arranged in tabular form for easy underdstanding.

### **RESULTS:**

Acharya Hemadri explained that, Takra is a liquid preparation of curd which is prepared by churning process. Acharya Kaiyadeva explained very elaborately about the preparation of Takra. i.e., first of all, curd should be churned for a moment, afterward add the water and churn it slowly for 3 hours with the help of mechanical churner [2]. Acharya classify the Takra into ten types on the basis of quantity of water & butter within it. These are [3].

Table No.1- Classification of Takra

Ghola	Without water, with no butter removed
Mathita	Without water, devoid of butter
Takra	Added 1/4 <sup>th</sup> part of water, devoid of butter
Udashwita	Added 1/2 part of water, devoid of butter
Shwetamatha	Added equal quantity of water, devoid of butter
Dandahata	Added one and half part of water, devoid of butter
Kaalasheya	Added twice of water, devoid of butter
Karamathita	Curd churned with hand
Gaalita	Curd squeezed (filtered) with cloth
Shaadava	Added fruit juice with curd

- Mathita is obtained after removing the butter from Ghola [4].
- According to Bhavaprakasha, Ghola mixed with Sarkara is having properties similar to Rasala (medicated curd), it pacifies Vata, Pitta and make the mind pleasant [5].
   Chhacchhika is the product of curd prepared by adding large quantity of water [6].
- Bhavaprakasha considers Takra as
   Vrushya
   <sup>[7]</sup> (Aphrodisiac) while
   Sushrutacharya<sup>[8]</sup> and Acharya Kaiyadeva<sup>[9]</sup>
   consider it as Avrushya.
- Acharya Sushruta explained Takra, Ghola and Udasvita are the types of Takra [10], these are prepared by different quantity of water and churning techniques.
- Takra prepared by adding half part of water and Udashvita carry the same properties.

- According to Acharya Dalhana, Udasvita prepared by adding half quantity of water is neither highly concentrated nor too much diluted. It is having Madhura-Amla Rasa and considered as best (Shreshtha) among all [11].
- Acharya Hemadri called the Takra as 'Mathitam Dadhi Takra' [12].
- Aushadha-Yukta Takra (Takra prepared with medicine) has also been explained in Ayurveda by different Acharya. Arsha Adhyaya of Charaka Chikitsa mentioned that, Takra is to be kept in an earthen pot which is smeared with the paste of Chitraka root bark, especially for Arsha Roga [13].

Table no. 2- Variants of Takra:-

Kaiyadeva	Bhavaprakasha	Charaka
1. Ghola	Ghola	Anudhrita/Purna Snehayukta
2. Mathita	Mathita	Ardhodhrita/Ardhasnehayukta
3. Takra	Takra	Ruksha/ Purna Snehodhrita
4.Udaswit	Udasvita	

5.Kalasheya		
6.Dandahata		
7.Shwetamatha		
8.Karmathita		
9.Gaalita		
10.Shadava		
	Chhachhika	

- Since Anudhrita and Ghola have comparable qualities, they are nearly regarded as the same.
- Ardhodhrita and Mathita bears no resemblance to any Takra.
- Kaiyadeva also explains the special preparation of Takra called Gaalita (filtered via cloth).
- The Ruksha form of Takra can be related to Chhachhika, Dandahata, Kaalasheya, Karmathita, Shwetamatha and Shaadava as indicated by Kaiyadeva.

- Ruksha, also known as Purna Snehodhrita Takra shares many of the same characteristics as Takra.
- The physiochemical properties, nutritional value and therapeutic use of the aforementioned *Takra* and its varieties vary accordingly.

The variations of *Takra* depend upon the method of preparations which adhere to unique properties and indications-

Table No. 3- Basic preparations, properties & indications of Takra [14,15,16,17,18]

Types of Takra	Methods of Preparation	Properties	Indications
1.Ruksha	Complete butter removed	Kashaya, Amla rasa	Kaphaja Vyadhi
	before churn the curd		
2.Ardha	Half butter removed before	Kashaya, Amla rasa	Pittaja Vyadhi
Snehayukta/Ardhod	churn the curd		
hrit			
3.Purna	Churned curd with no	Kashaya, Amla, &	Vataja Vyadhi
snehayukta/	butter removed	Madhura rasa	
Anudhrit			
4.Ghola	Churned curd with no	Delicious, Similar to	Vata-Pittaja Vyadhi,
	butter removed and no	Rasala when added with	thirst, Burning
	water added	Sharkara.	Sensation &
			Pratishyaya.

part of water and butter is removed.    Part of water and butter is removed.   Part of water and butter is removed.   Part of water and butter is removed.   Part of water and butter is part of water.   Part of water and butter is sangrahi.	5.Mathita	Churned curd without	Kashaya	Pittaja & Kaphaja
Churned Curd with quarter part of water and butter is removed.  Curd churned with half quantity of water.  Curd churned twice with ample amount of water to remove the dense part (butter) completely.  Curd is churned with one and half parts water.  Curd churned with one and half parts water.  Curd is churned with one and half parts water.  Curd churned curd with twice of water.  Curd is churned with one and half parts water.  Curd is churned with one and half parts water.  Churned curd with twice of water.  Churned curd with twice of water.  Cloth squeezed (filtered) curd.  Cloth squeezed (filtered) any fruit juice.  Churned curd with equal Laghu, sweet  Rasa-Kashaya & Amla, Alapha & Vataja Vyadhi, Anurasa-Kashaya Vyadhi  Veerya- Usna Agnideepana, Laghu & Sheeta, Laghu Deurbalya Deurbalya Deurbalya Deurbalya any fruit juice.  Laghu Tiredness  Dourbalya Dourbalya Dourbalya Atlisara Dourbalya (properties similar to the added fruit juice.)  14. Swetamatha Churned curd with equal Laghu, sweet Rakta pitta- acc.		adding water and butter		Vyadhi
part of water and butter is removed.    Part of water and butter is removed.   Part of water and butter is removed.   Part of water and butter is removed.   Part of water and butter is part of water.   Part of water and butter is sangrahi.		separated after churning.		
removed.  Veerya- Usna Agnideepana, Laghu & Sangrahi.  7. Udasvita  Curd churned with half Kapha Karaka  Quantity of water.  8. Chachhika  Curd churned twice with ample amount of water to remove the dense part (butter) completely.  9. Dandahata  Curd is churned with one and half parts water.  10. Kaalasheya  Churned curd with twice of water.  11. Karamathita  Hands churned Curd.  Shigdha  Dourbalya  12. Gaalita  Churned Curd added with Swayoni anuwartate-any fruit juice.  14. Swetamatha  Churned curd with equal  Laghu, sweet  Rakta pitta- acc.	6. Takra or Katvara	Churned Curd with quarter	Rasa- Kashaya & Amla,	Kapha & Vataja
Agnideepana, Laghu & Sangrahi.  7. Udasvita  Curd churned with half quantity of water.  8. Chachhika  Curd churned twice with ample amount of water to remove the dense part (butter) completely.  9. Dandahata  Curd is churned with one and half parts water.  10. Kaalasheya  Churned curd with twice of water.  11. Karamathita  Hands churned Curd.  Snigdha  Dourbalya  12. Gaalita  Churned Curd added with Swayoni anuwartate any fruit juice.  14. Swetamatha  Churned curd with equal  Laghu, water  Rakta pitta- acc.		part of water and butter is	Anurasa- Kashaya	Vyadhi
7. Udasvita Curd churned with half quantity of water.  8. Chachhika Curd churned twice with ample amount of water to remove the dense part (butter) completely.  9. Dandahata Curd is churned with one and half parts water.  10. Kaalasheya Churned curd with twice of water.  11. Karamathita Hands churned Curd.  12. Gaalita Cloth squeezed (filtered) curd.  13. Shaadava Churned curd with equal Laghu, sweet Rakta pitta- acc.		removed.	Veerya- Usna	
7. Udasvita Curd churned with half quantity of water.  8. Chachhika Curd churned twice with ample amount of water to remove the dense part (butter) completely.  9. Dandahata Curd is churned with one and half parts water.  10. Kaalasheya Churned curd with twice of water.  11. Karamathita Hands churned Curd.  12. Gaalita Cloth squeezed (filtered) curd.  13. Shaadava Churned Curd added with Swayoni anuwartate-any fruit juice.  14. Swetamatha Churned curd with equal Laghu, sweet Rakta pitta-acc.			Agnideepana, Laghu &	
quantity of water.  8. Chachhika  Curd churned twice with ample amount of water to remove the dense part (butter) completely.  9. Dandahata  Curd is churned with one and half parts water.  Churned curd with twice of water.  Churned Curd.  Snigdha  Cloth squeezed (filtered) curd.  Churned Curd added with Swayoni anuwartateany fruit juice.  Churned curd with equal Laghu, sweet  Rakta pitta-acc.			Sangrahi.	
quantity of water.  8. Chachhika  Curd churned twice with ample amount of water to remove the dense part (butter) completely.  9. Dandahata  Curd is churned with one and half parts water.  Churned curd with twice of water.  Churned Curd.  Snigdha  Cloth squeezed (filtered) curd.  Churned Curd added with Swayoni anuwartateany fruit juice.  Churned curd with equal Laghu, sweet  Rakta pitta-acc.				
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ample amount of water to remove the dense part (butter) completely.  9. Dandahata  Curd is churned with one and half parts water.  Churned curd with twice of water.  10. Kaalasheya  Churned curd with twice of water.  11. Karamathita  Hands churned Curd.  Snigdha  Dourbalya  12. Gaalita  Cloth squeezed (filtered) curd.  13. Shaadava  Churned Curd added with any fruit juice.  Churned curd with equal  Laghu  Rakta pitta- acc.		quantity of water.		Amadosha
remove the dense part (butter) completely.  9. Dandahata  Curd is churned with one and half parts water.  10. Kaalasheya  Churned curd with twice of water.  11. Karamathita  Hands churned Curd.  Snigdha  Dourbalya  12. Gaalita  Cloth squeezed (filtered) curd.  13. Shaadava  Churned Curd added with any fruit juice.  (properties similar to the added fruit juice.)  14. Swetamatha  indigestion.  Grahani, Arsha, Atisara  Dourbal, Arsha, Atisara  Tiredness  Dourbalya  Dourbalya  Cloth squeezed (filtered) curd.  Dourbalya  Any fruit juice.	8.Chachhika	Curd churned twice with	Sheeta, Laghu. Deepana,	Pitta-Vataja Vyadhi,
(butter) completely.  9. Dandahata  Curd is churned with one laghu and half parts water.  10. Kaalasheya  Churned curd with twice of water.  11. Karamathita  Hands churned Curd.  Cloth squeezed (filtered) curd.  Churned Curd added with swayoni anuwartate-any fruit juice.  13. Shaadava  Churned Curd added with any fruit juice.  Churned curd with equal Laghu, sweet  Rakta pitta-acc.		ample amount of water to	if added with Saindhava	thirst, tiredness and
9. Dandahata Curd is churned with one and half parts water.  10. Kaalasheya Churned curd with twice of water.  11. Karamathita Hands churned Curd. Snigdha Dourbalya  12. Gaalita Cloth squeezed (filtered) curd.  13. Shaadava Churned Curd added with any fruit juice.  Churned curd with equal Laghu, sweet Rakta pitta- acc.		remove the dense part		indigestion.
and half parts water.  10.Kaalasheya  Churned curd with twice of water.  11.Karamathita  Hands churned Curd.  Snigdha  Dourbalya  12.Gaalita  Cloth squeezed (filtered) curd.  13. Shaadava  Churned Curd added with swayoni anuwartate-any fruit juice.  (properties similar to the added fruit juice.)  14. Swetamatha  Churned curd with equal Laghu, sweet  Rakta pitta- acc.		(butter) completely.		
10.Kaalasheya Churned curd with twice of water.  11.Karamathita Hands churned Curd. Snigdha Dourbalya  12.Gaalita Cloth squeezed (filtered) curd.  13. Shaadava Churned Curd added with any fruit juice. (properties similar to the added fruit juice.)  14. Swetamatha Churned curd with equal Laghu, sweet Rakta pitta- acc.	9. Dandahata	Curd is churned with one	Laghu	Grahani, Arsha,
water.  11. Karamathita Hands churned Curd. Snigdha Dourbalya  12. Gaalita Cloth squeezed (filtered) curd.  13. Shaadava Churned Curd added with Swayoni anuwartate- any fruit juice. (properties similar to the added fruit juice.)  14. Swetamatha Churned curd with equal Laghu, sweet Rakta pitta- acc.		and half parts water.		Atisara
11.Karamathita       Hands churned Curd.       Snigdha       Dourbalya         12.Gaalita       Cloth squeezed (filtered) curd.       Dourbalya         13. Shaadava       Churned Curd added with any fruit juice.       Swayoni anuwartate- (properties similar to the added fruit juice.)         14. Swetamatha       Churned curd with equal Laghu, sweet       Rakta pitta- acc.	10.Kaalasheya	Churned curd with twice of	Laghu	Tiredness
12. Gaalita Cloth squeezed (filtered) curd.  13. Shaadava Churned Curd added with Swayoni anuwartate- any fruit juice. (properties similar to the added fruit juice.)  14. Swetamatha Churned curd with equal Laghu, sweet Rakta pitta- acc.		water.		
curd.  13. Shaadava Churned Curd added with Swayoni anuwartate- any fruit juice. (properties similar to the added fruit juice.)  14. Swetamatha Churned curd with equal Laghu, sweet Rakta pitta- acc.	11.Karamathita	Hands churned Curd.	Snigdha	Dourbalya
13. Shaadava Churned Curd added with Swayoni anuwartate- any fruit juice. (properties similar to the added fruit juice.)  14. Swetamatha Churned curd with equal Laghu, sweet Rakta pitta- acc.	12.Gaalita	Cloth squeezed (filtered)		Dourbalya
any fruit juice. (properties similar to the added fruit juice.)  14. Swetamatha Churned curd with equal Laghu, sweet Rakta pitta- acc.		curd.		
added fruit juice.)  14. Swetamatha Churned curd with equal Laghu, sweet Rakta pitta- acc.	13. Shaadava	Churned Curd added with	Swayoni anuwartate-	Dourbalya
14. Swetamatha Churned curd with equal Laghu, sweet Rakta pitta- acc.		any fruit juice.	(properties similar to the	
			added fruit juice.)	
part of water. Kaideva	14. Swetamatha	Churned curd with equal	Laghu, sweet	Rakta pitta- acc.
, raidou		part of water.		Kaideva

Table No. 4- Properties of Takra according to Rasa Panchaka [19]

Rasa	Madhura, Amla, Kashaya	
Anurasa	Kashaya	
Guna	Laghu, Ruksha.	
Veerya	Ushna	
Vipaka	Madhura	
Karma	Agni-Deepaka, Tripti-Karaka Veerya and Medha Vardhaka.	

# Quantitative usage period [20]

Use of *Takra* in an appropriate way; depending on the strength of the individual, strength of the disease and strength of the *Agni*, *Takra* should be consume for-7 days, 10 days, 15 days or 30 days.

Use of *Takra* according to *Agni* (Digestive fire)

\*\*Bala-[21]

**Mandtama Agni:** only *Takra* should be taken morning and evening for a week or ten days or fortnight (14 days) without any food.

**Mandatara Agni:** only *Takra* in the morning, *Takra-Avaleha* or *Takra* mixed with *Laaja* (flour of parched paddy) in the evening.

Manda Agni: only Takra in the morning, Samskarita Takra with Odana, Yusha etc. in the evening.

Table No. 5- Preparations of Takra according to Diseases-[22,23]

Disease	Takra Preparations
Vataja Vyadhi	Saindhava mixed Amla Takra
Pittaja Vyadhi	Sharkara mixed Madhura Takra
Kaphaja Vyadhi	Trikatu and Kshara (alkali preparation) mixed Takra
Mutra Kruchhra	Guda mixed Takra
<u>Pandu</u>	Chitraka mixed Takra
Ajeerna & Atisara	Takra in the form of Peya
Prameha	Haritaki Churna mixed Takra

# Classical pharmaceutical preparation of Takra-

**Takrarishta:** Indicated in *Sotha*, *Gulma*, *Arsha*, *Krimi*, *Prameha* and all kinds of *Udara Roga*. It is taken before, in between and after meals [24].

**Takrasava:** Indicated in *Pleeha* (Spleenomegaly). It is taken after meals for 3 weeks [25].

**Ashtakatvara Taila-** Indicated (internal administration) in Urustambha and Gridhrasi. [26]

# Other indications of *Takra-*<sup>[27]</sup>

Shotha (Oedema), Grahanidosha (IBS),
Udara (Ascitis), Pleeha (Spleenomegaly), Arsha
(Haemorrhoids), Aruchi (Anorexia),
Snehavyapad (complications due to overuse of
oil therapy), Garavisha, Krutrimavisha, Vishama
jwara (fever), Praseka (excess salivation),
Shoola (pain), Hridroga, Medoroga,
Agnimandhya, Amadosha, Kushta, Urustambha

(stiffness of thigh), *Grudhrasi* (sciatica) [28], *Krimi* [29] etc.

Swetamatha (explained by Kaiyadeva Nighantu) is a type of Takra which is indicated in Rakta-Pitta due to Laghu and sweet properties.

In the context of *Arsha*, the utility of *Takra* is mentioned. It is said that there is no any medicine better than the *Takra* for *Vata-Kapha Pradhan Arsha* [30]. It alleviates the hundred disorders (80 types of *Vataja* & 20 *Kaphaja* types) [31]

### Nutritional value of Takra[32]

# Amounts per 100 gm

- 1. Calories-40
- 2. Total fat-1%
- 2a. Saturated fat-2%
- 3. Cholesterol- 1%
- 4. Sodium-4%
- 5. Potassium-4%
- 6. Total carbohydrate-1%
- 7. Protein-6%
- 8. Vitamin C-1%, B6-0%, D-0%, Cobalamin-3%, Calcium-11%, Magnesium-2%, Iron-0%

# **DISCUSSION:**

Mainly due to Samskara with Agni, Jala and Manthana, Takra even becomes more effective, free from their impurities; while carries all the rich nutrients of milk and curd. Takra attains atomic properties that are perfected by the virtues of nanotechnology. All the cells or tissues of the body are nourished by removing the imbalances in the body, which acts as Rasayana (rejuvenating therapy of Ayurveda) and rejuvenate the person. Probably

that's why *Acharya Kaiyadeva* and *Bhava Mishra* called it *Amruta* (nectar) [33, 34]. for the earth.

Consumption of *Takra* helps to attain the ultimate health benefits by clearing the minute channels of the body. *Takra*, which is rich in nutrients, helps to unclog the tiny circulatory channels of the body, making it practically useful for all intestinal conditions. Buttermilk helps to restore intestinal flora; however, it is *Grahi* but ease the constipation, detoxify the body and clean the intestines. *Takra* improves the strength and nourishes the body [35]. *Takra* has innumerable health benefits as well.

In Ayurveda, Ahara is considered as Mahaushadha (powerful medicine). Takra is one of them, which is a product derived from curd and widely used by almost everyone. The residue left behind (by-product) during churning the milk cream into butter is traditional buttermilk. Another way to make it is to dilute the curd with water which is refer as Chhaachha by most of the people. Often, all the Swasthyakara and Rogahara Gunas are present in Takra and due to the speciality of Samskara, most of the harmful effects are subsided. As per need, due to the water ratio, i.e., more or less, it can be easily made into Laghu, Guru, and Tridosha-Shamaka. It gives us a sense of satisfaction and fullness of satiety without adding too much of calories. Its calming qualities might also support to reduce the gastric acidity. Takra also offers a plethora of health advantages. Thus, according Ayurveda, a wholesome diet with proper

digestion and metabolism is responsible to achieve the good health.

As per different bases, different types of Takra are explained in Samhitas. Practically, their various forms and the more or less similarity in the usage is more scientific and convenient. Hence probably the Takra is the common name for all. So, there is a need to use these different forms very wisely. For example, in all Samhitas, Takra named as Ghola along with Sharkara attains the property of Rasala; which is sweet, highly nutritious and helpful to achieve the Brihmna property. This Ghola (Rasalavata Takra) pacifies Vata and Pitta while taken according to the Agni of a person. It can be used as Bruhmana Chikitsa in Vata Vikar, but the same is harmful for Kaphaja Vikara and obese people. Another example for Mathita is having Kapha and Pitta Shamaka property. In this section one more example of Udasvita is given, which is Tridosha-Shamaka and is the best among all types of Takra.

Buttermilk functions as a Rasayana (a kind of mystical elixir) that may assist to slow down the ageing process. Takra can be used in daily life by combining it with other pleasant ingredients like Shunthi, Sharkara, Saindhava etc. The mode, sequence and time of Takra consumption have been explained in detail within the Ayurvedic classics. If the digestion capacity of the patient is very bad, they should just take Takra. Dosage can be increased considering the Agni of patient. One should not withdraw the Takra suddenly, it should be

gradual. For better effect, they should start with the recommended dosage and gradually raise according to *Agnibala* (*Vardhamana Takra*). It should be taken in increasing order till the maximum dose is achieved then decrease the dose in the same manner. Maximum treatment therapy completes in 30 days, i.e., periods limited like other *Kalpas*.

As per requirement, *Takra* can also be used as *Anupana* (postprandial drink). This will help to increase and maintain the strength of the body. There will be improvement in digestive power by *Takra* consumption. It is seen when *Takra* is poured on the broad and deep-rooted grasses, it destroys the grass completely and not regenerate again. Similarly, the piles do not recur in a person treated by *Takra* [36]. The same concept accepted by different *Acharyas* for other diseases.

Takra works well on Grahani disease since it contains Deepana, Grahi and Laghu properties [37]. Due to Amla Rasa, it should be Vidahi and Pitta Vardhaka but the fresh prepared Takra having Madhura Rasa and even Madhura Vipaka, it does not vitiate the Pitta [38]. That is why it is utilised as Pitta Prashamana along with Pitta Shamaka Aushadhi and Sharkara. Dadhi (curd), a preparation from the milk has the property of Sroto-Avarodhaka. On the contrary, Takra is excellent Srotosodhaka, which clears the circulatory channels of the body. Such a way, Takra (as a Dadhi product) is Abhishyandi (i.e., cause obstruction to the srotasa and are slimy & heavy in nature) it should be Kapha

Vardhaka, but because of its qualities like Kashaya rasa, Ushna, and Vikashi Guna, it cleanses the obstruction and is beneficial in Kaphaja Vyadhi [39]. Similarly due to Kashaya Rasa and Ruksha Guna it should be Vata Vardhaka, but owing to the Madhura-Amla Rasa and Sandra Guna it is also indicated in Vata disorder [40]. The best conditions to use of Takra is winter season, Agnimandhya, Kaphaja Roga, obstruction of channels (Margavrodha) and Vata Vyadhi especially vitiated Vata within the abdomen. [41].

Since Takra is beneficial in Aruchi, Agnimandhya, Srotorodha and Vata-Kaphaja Vyadhi. Hence, it will be beneficial for Amaja Vyadhi like Ama-Dosha as well as Amavata. A man who practices to drink the Takra will never be diseased and because of its impact, the pacified diseases will never be aggravated [42]. Takra kills the Vata Vyadhi due to Amla rasa, Pitta Vyadhi due to Madhura rasa & Vipaka and Kapha Vyadhi due to Kashaya Rasa and Anurasa [43]. Hence, Takra is beneficial in all the three Doshas and plays role of nectar for this condition.

# Indications and Contraindications of *Takra* [44,45]

Although *Takra* is indicated for all but there are some limitations. i.e., it should be consumed in the conditions like low digestive power, *Kaphaja Roga*, *Vitiated Vata* and *Srotorodha* (blockage of circulatory channels). *Takra* has been ideally indicated in the winter season and should not be taken in the summer.

It is also contraindicated in conditions of Adham Bala and Pitta Prakopa, (Rakta Pitta) in such situation, there is appearance of giddiness, fainting and burning sensations because of its Ushna Veerya.

### **CONCLUSION:**

Ayurveda recommended Takra for various purposes due to its unique digestive role in metabolism. On the concurrent of modern science, it has also been proven that it contains lactobacillus and acts as a natural probiotic, which helps in proper digestion and absorption. As loaded with nutrients, Takra is beneficial in almost all intestinal diseases as it clears the minute circulating channels of the body. Takra is very useful in treating the diseases associated with Agni Vikruti.

Ayurveda advocated that a healthy individual should consume Takra on the basis of their personal states of Dosha Prakruti, Agni-Bala and Sharir Bala, but the Chachhika which is Takra type of commonly called Chhaachh, should be taken throughout the season and beneficially taken as Anupana. Takra detoxifies the body by cleansing the channels as well as intestines, relieves the constipation, and helps to maintain the intestinal flora. By means of their Rasa, Guna, Virya, Vipaka, and Karma act as Tridoshaghna. Takra strengthens immunity and helps to attain the *Prayojana* of *Ayurveda* by adding the nutritional value. Takra is easily palatable and can be used for both prevention and treatment of diseases, hence fulfils the principles of

Ayurveda (Swasthyarakshanam and Vikarprashanam). The Ghola, Mathita, Takra Udasvita, Chachhika and other types of Takra have different physiochemical characteristics, nutritional values, and therapeutic uses.

During the course of nutrients circulation, microchannels of the body get clogged or blocked for various reasons which results into deficiency of nutrition to a particular organ or system. It is essential to remove such blockages. Acharya Charaka states that Takra removes such blockage and purifies the "Srotas." Drinking buttermilk daily can shower various benefits, such as improving digestion due to its probiotic content, providing essential vitamins, minerals and supporting healthy weight management due to its lower fat content. Its soothing properties may also help in alleviating stomach acidity. Buttermilk is like a magical elixir that might help to slow down the ageing process, thus acting as a Rasayana.

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