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COMPARATIVE ANALYSIS AND SEASONAL USES OF DIFFERENT ANIMAL SOURCES OF MILK GIVEN IN VARIOUS AYURVEDA TEXTS

Rana Shivani¹, Pathania Deepak², Jagota Ankush³

¹MD Scholar Dept. of Swasthavritta,

²MD Scholar Dept. of *Kaumarbhritya*,

³Lecturer Dept. of Swasthavritta,

R.G.G.P.G. Ay. College & Hospital Paprola, District Kangra, Himachal Pradesh, India

Corresponding Author: shivanimona94@gmail.com

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ABSTRACT

Ayurveda is one of the most ancient medical sciences of the world. It is more life & health oriented. It emphasizes much more on diet & regimen along with medicine. Milk is one of the animal origins Dravya which is important for people of all age groups as a dietary supplement & can be taken every day. Milk is beneficial for healthy individuals. The one who consumes milk doesn't get the disease. Hence there is no better Vrishya Dravya (Aphrodisiac) and no better Jeevaniya Dravya (life prolonger) than milk. Milk is considered as Rasayana (Rejuvenative). Seasonal regimen has been described in our texts. The prime principle of Ayurvedic system of medicine is preventive aspect, can be achieved by change in diet & practices in response to change in climatic condition. In Ayurveda texts, milk of eight different animals i.e. milk of cow, buffalo, goat, camel, human, sheep, elephant & single hoofed animals like horse, donkey etc. has been described with a set of different properties. Milk of cow, buffalo, goat & sheep is easily available in our area. The objective of this is to establish the use of different milk in different seasons based on the properties described in our Ayurveda texts. An attempt has been made for use of cow milk, buffalo milk, goat milk & sheep milk according to season through this paper.

Keywords: Milk, Season, *Rasayana*.

INTRODUCTION

Ayurveda being the science of life, propagates the gift of nature in maintaining healthy &happy living. It emphasizes much more on diet & regimen along with medicine. Trigunatmic diet has been described in our classics i.e. Satvika, Rajashik & Tamashik. Among these Satvika diet is conducive to higher thought & deep understanding, as well as to a body free from disease. Milk & Milk products belong to Satvika foods that are pure, essential, nourishing, appealing & succulent. Milk enhances the strength of body immediately, strengthens the senses, and provides intelligence, longevity, health /soundness& happiness and it is considered as main Rasayana.[1] In Ayurveda texts it is described that milk should be taken every day. [2] Milk is beneficial for both physical as well as mental health. It also acts as memory booster. Milk increases the Oja in our body. According to Ayurveda, Oja is regarded to be the purest part of the seven *Dhatus* and is referred to as Bala by Acharya Sushruta, the body's natural immunity. Our physical, mental & spiritual strength is totally dependent on Oja. In Ayurveda it is known as Vyadhikshamata i.e. immunity. There is no better Vrishya Dravya (Aphrodisiac) and no better Jeevaniya Dravya (life prolonger) than milk.[3] In Ayurvedic texts, milk of eight different animals i.e. milk of cow, buffalo, goat, sheep, camel, human, elephant & single hoofed animals like horse, donkey etc. has been described with a set of different properties. In general all types of milk is Madhura (Sweet in taste), Snigdha (Demulcent), Vata - Pittahara (Subsides Vata and Pitta Doshas), Sara (Laxative), Sadya Sukrakara (Increases semen), Sheeta (Cold in potency), Satmya (Suitable to all), Jeevana (life promoting), Brimhana (Weight promoting), Balya (Strengthener), Medhya (Brain tonic), Vajikara (Aphrodisiac), Vyasthapana (Anti-aging), Ayushya (longevity), Sandhanakara (Heals the fractures), Rasayana (Tissue vitalizer)^[4]. In our area cow, goat, buffalo and sheep milk is easily available. Acharaya Sushruta has been mentioned that raw milk is usually Abhishyandi and heavy to digest but after boiling is becomes light to

digest and non Abhishyandi. So, all the milk should be used after boiling, except human milk. [5] Milk is described as the nearly perfect food of the nature for all age groups. It is also called best & complete food. Milk is a very wholesome food, because it contains almost all nutrients, except Iron &Vitamin C. It is a richest source of Calcium. It is easily digestible & very essential for the young for their growth & development [6]. The prime principle of Ayurvedic system of medicine is preventive aspect, can be achieved by change in diet & practices in response to change in climatic condition. The concept of "Yat Pinde Tat Brahmande" (whatever there is in the environment is also there is in the human body) was applied, which led to appreciating changes in the human body according to seasons and regimens were made accordingly. Different seasons have been described in our texts. Each has their own characteristics. For prevention of disease & promotion of health, diet should be according to the season.

Aim and Objectives

- 1. To study the description of cow, buffalo, goat and sheep milk in *Ayurvedic* classics elaborately.
- 2. To study the nutritional value of cow, buffalo, goat and sheep milk.
- 3. To establish the use of different milk in different

Material & Methods: The different properties of Cow, Buffalo, Goat and Sheep milk are mentioned in our texts. According to Acharya Sushruta, milk of Go, Mahishi & Aavi are Madhura(sweet) in taste, Guru (heavy in digestion), Snigdha (demulcent) & these are Sheeta (cold in potency) except Aavi which is Ushna (Hot). Among these Mahishi dugdha is Ati Guru, Ati Snigdha. Whereas Aja Dugdha is Madhura(sweet) and Laghu (light).[7]

According to Acharya Charaka, Godugdha is Madhura (Sweet) in taste, Sheeta Virva (Hot) in potency, Mrudu (Softening the tissues), Snigdha (Demulcent), Bahala (Thick), Shlakshna (Smooth), Picchila (Sticky), Guru (Heavy), Manda (Dull), Prasanna (Causes enthusiasm). Acts as Rasayana (Vitalizer) & Oja Vruddhikar (Increases essence of all the seven Dhatus; Rasa-Rakta-Mansa-Meda-Asthi-Majja-Shukra). The Aja Dugdha is Kashaya (Astringent), Madhura (Sweet) in taste, Sheeta (Cold) in potency & Laghu (Light), Aavik Dugdha is Ushna (Hot) in potency & the *Mahishi Dugdha* is more *Guru* (Heavy) & Sheeta (Cold) in potency than Godugdha.^[8] Godugdha is Madhura (Sweet in taste), Madhura Vipaka (Sweet - post digestive effect), It is Guru (Heavy), Sheetala (Cooling), Stanyakrit (Promotes breast milk), Snigdha (Demulcent), subsides Vata-Pitta and Rakta. The Avika Dugdha is Lavana (Salty), Swadu (Palatable), Snigdha (Demulcent), Ushna (Hot in potency), increase Kapha, Pitta & Guru (Heavy). The Mahishi Dugdha is Maha-Abhishyandi (Causes blockage of the channels), Madhura (Sweet) in taste, Sheetala (Cooling), Snigdha (Demulcent) & Guru (Heavy). The Aja dugdha is Madhura (Sweet), Kashaya (Astringent) in taste, Laghu (Light), Sheeta Virya (Cold in potency) & Sarvaroganashaka cure all the diseases.^[9]

Table 1: Showing properties of different milk as per *Ayurvedic* texts

	Go Dugdha	Mahishi Dugdha	Aja Dugdha	Aavi Dugdha
Rasa	Madhura	Madhura	Kashaya, Madhura	Madhura *
Guna	Guru, Snigdha	Ati Guru, Ati Snigdha	Laghu	Guru, Snigdha
Virya	Sheeta	Ati Sheeta	Sheeta	Ushna
Prabhava	Vata- Pitta Shamaka,	Vata- Pitta Shamaka,	Vata vardhaka,	Pitta -
	Kapha vardhaka	Kapha vardhaka	Pitta- Kapha Shamaka**	Kaphavardhaka

^{*}Also Lavana by Acharya Bhav Prakash ** Sarvaroganashaka by Acharya Bhav Prakash

In Harita Samhita, different properties of Aavi Dugdha has been described. According to Acharya Harita, Aavi Dugdha is Madhura, Guru, Ruksha, Vata -**Kapha Shamaka** and *Pitta vardhaka*. [10]

Nutritional Value (per 100 gram)

Milk has been described as the 'nearly perfect food' of the nature. It is easily digestible. The principal milk

protein is casein. Other proteins are lactalbumin and lactoglobulin. Milk proteins contain all essential amino acids. Milk fat is a good source of carotene. The carbohydrate in the milk is lactose. Milk is the only natural source of lactose. [11]

Table 2: Showing nutritional value of different milk as per modern science.

Component	Cow milk	Buffalo milk	Goat milk	Sheep milk
Protein	3.2	4.3	3.3	06
Fat	4.1	6.5	4.5	07
Water	88	83	87	80
Sodium	40mg	52mg	50mg	44mg
Energy	67 kcal	117kcal	72kcal	108kcal

Season and Milk: The season classified by different features express different effects on the body as well as the on environment. Ayurveda has depicted various rules and regimens (Charya), regarding diet and behavior to adjust seasonal enforcement easily without altering body homeostasis. The prime principle of Ayurvedic system of medicine is preventive aspect,

can be achieved by change in diet & practices in response to change in climatic condition.

Milk in different Seasons: Buffalo milk should be used in summer season i.e. in Greesham Ritu. The milk of Sheep is useful in Hemanta (beginning of winter). Cow's milk is like ambrosia for human beings during the rainy season i.e. in Varsha Ritu. [12]

According to Seasons Sanchaya (Accumulation), Prakopa (Aggravation) & Prashamana (Pacification) of Doshas[13] in Table 3.

Table 3: Showing Sanchaya (Accumulation), Prakopa (Aggravation) & Prashamana (Pacification) of Doshas in different seasons

Dosa	Sanchaya	Prakopa	Prashamana
Vata	Greeshama	Varsha	Sharda
Pitta	Varsha	Sharda	Hemanta
Kapha	Shishira	Vasanta	Greeshama

Summer Season: Buffalo milk should be used in summer season i.e. in Greesham Ritu. In Greesham Ritu, accumulation (Sanchaya) of Vata dosha and pacification (Prashamana) of Kapha dosha occurs. Food which is light in process like those having Snigdha (unctuous), Madhura (sweet), Sheeta (cool) and Drava (liquid) and lot of water is advised. Buffalo milk with little sugar is the drink of choice in summer.^[14] Buffalo milk is Madhura (sweet), Sheeta (cool), Snigdha (unctuous), that is why should be taken in Summer Season. In summer season temperature increases & sweating occurs. During sweating loss of sodium and water occurs & dehydration occurs. As the buffalo milk constitutes high sodium and water content, can be helpful in compensating the loss and maintain hydration.

As the body temperature rises, Proteins begin to deteriorate. Buffalo milk is excellent source of Proteins as it contains 4.3g protein per 100g. During summer, daytime lasts longer than 12 hours. Buffalo milk is heavy, takes time to digest and keeps us fuller for longer period of time.

Winter Season: Sheep milk should be used in winter season i.e. in Hemanta Ritu. In Hemanta Ritu, pacification (Prashamana) of Pitta Dosha occurs. An individual's strength (Bala) & digestive fire (Agni) stays at the highest level in this Ritu. So, the heavy food items can be easily digested. Madhura (sweet), Salty (Lavana), Sheeta (cool), Snigdha (unctuous) foods should be included in diet.^[15] As the sheep milk is Madhura (sweet), Lavana (salty), Guru (heavy to digest), Snigdha (unctuous) and Ushana (hot) in potency that is why should be taken in winter season. When digestive fire does not get the proper fuel, it affects the nutritive fluids, resulting in vitiation of Vata dosha. Because of Vatashamaka nature sheep milk is beneficial.

Sheep milk takes longer time to digest, can help to raise the body temperature & keeps the body warmer. Sheep milk contains fat in good amount. In winter season, our body uses fats to facilitate the absorption of vitamins A, E, K & D. Sunlight aids in vitamin D absorption, & most individuals get less sun when temperature drop.

Rainy Season: Cow milk should be used in rainy season i.e. in Varsha Ritu. In Varsha Ritu, accumulation (Sanchaya) of Pitta dosha and aggravation (Prakopa) of Vata dosha occurs. An individual's strength becomes weak during this season. Snigdha (unctuous) and Tridosh shamaka foods are indicated in this season. [16] Cow milk provides strength i.e. Balva in nature. Cow milk is Snigdha (unctuous) and Tridosh shamaka i.e. why can be used in rainy season. Rainy season trigger our immune system, leading to infections. Cow milk contains about 88% of water. Water aids in boosting our immunity as they negate the building of toxins in our body. Cow's milk increases the Oja in our body. Oja is natural immunity of the body. Hence milk increases the immunity.

Cow Milk can be used in any season and every day. Ten properties of cow milk have been described in our texts. That are Swadu (Sweet), Sheeta (Cold), Mridu (Soft), Snigdha (Oily), Bahala (Thick), Shlakshna (Smoothness), Pichila(Sticky), Guru (Heavy), Manda (Slow), Prasanna (Clarity). These are also the properties of Oias. Cow's milk increases the Oia in our body. It is better Jeevaniya Dravya & Rasayana. [17] According to the concept of Samanya & Vishesha –

Substances or Dravya are always enhanced by consuming same things. So intaking of Cow's milk increases the Oja in our body. According to Ayurveda, Oja is regarded to be the purest part of the seven dhatus & is referred as Bala by Acharya Sushruta, the body's natural immunity. It is also known as Vyadhikshamatava. Our physical, mental & spiritual strength is totally dependent on Oja. Achara Rasayana has been described in our texts in which milk is prescribed. As the milk is considered as a Rasayana.

Table 4: Comparison of utility of different milk in different season as per Ayurveda & modern science

Season	Rainy	Summer	Winter
Milk	Cow	Buffalo	Sheep milk
As per	An individual's strength be-	Snigdha (unctuous), Madhura (sweet),	Guru (heavy to digest), Snigdha
Ayurveda	comes weak during this season.	Sheeta (cool) and Drava (liquid) and lot	(unctuous) and <i>Ushana</i> (hot)
	Cow milk provides strength i.e.	of water is advised.	Dravya are advised.
	Balya in nature.	Buffalo milk constitutes these properties.	Sheep milk constitutes these
			properties.
As per	Rainy season trigger our im-	Temperature increases & sweating oc-	In winter season, temperature
modern	mune system.	curs.	falls, and we feel colder.
science	Cow milk contains about 88%	Loss of sodium and water occurs& de-	It raises the body temperature &
	of water.	hydration occurs.	keeps the body warmer.
	Water aids in boosting our im-	Helpful in compensating the loss and	
	munity.	maintain hydration.	

CONCLUSION

Milk provides special & unique nutrition that cannot be derived from any type of food. Milk nourishes all the tissues, promotes balanced emotions and help to balance all the *doshas*. It is one of the most important foods to promote the Ojas. Ojas brings strength, strong immunity and happiness. It is beneficial for people of all age groups as a dietary supplement & can be taken every day. It is also called Jeevaniya dravya. Hence there is no better life prolonger substance than milk.

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