



Review Article

A REVIEW OF *TAILA VARGA* (EDIBLE VEGETABLE OILS) ACCORDING TO BRUHAT TRAYI

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ABSTRACT

Vegetable oils have been used for many centuries in traditional Ayurvedic medicine in India and in Chinese medicine for their therapeutic properties. The purpose of this article is to inform readers about the characteristics of edible oil as described in Ayurveda, with particular emphasis on Charak Samhita, Sushruta Samhita, and Ashtanga Hridaya. Literature about nutrition and dietetics was studied in books, journals, and research engines. The main components of vegetable oils are sesame, coconut, groundnut, sunflower, soybean, palm, safflower, and mustard oils. Many other oils used as essential oils or for medicinal purposes. In addition, many oils can be used as functional food.

INTRODUCTION

Vegetable oil has a long and complex history that stretches back thousands of years. It is believed that the cultivation of plants for oil extraction dates back to ancient times, with evidence suggesting that sesame oil was one of the earliest vegetable oils used by mankind. The cultivation of sesame can be traced back to the Indus Valley Civilization, which existed around 2500 BCE. Vegetable oils have played a significant role in various civilizations throughout history. For example, in ancient Egypt, vegetable oils such as olive oil and castor oil were used for culinary purposes, as well as for cosmetic and medicinal applications.

In ancient Greece and Rome, olive oil became a staple in cooking and was also used for lighting lamps and as a base for perfumes. Additionally, vegetable oils were utilized in traditional Ayurvedic medicine in India and traditional Chinese medicine for their therapeutic properties. Throughout history, the production and use of vegetable oils have evolved. In the early 20th century, with advancements in technology and industrialization, the production of vegetable oil became more efficient and widespread.

Vegetable oils are a group of fats that are derived from seeds, nuts, cereal grains, and fruits.


There were many methods to obtain oil from a plant by using the sun, heat, oven, or fire. Oil is an important constituent of cooking. It is used for sautéing, deep frying, shallow frying, and in many other ways. There is a rise in non-communicable diseases in developed countries.

Early ecological studies and small, short-term interventions, most prominently by Ancel Keys, Frederick Stare, and Mark Hegsted, contributed to the widespread belief that fat was a major contributor to heart disease. In 1980, dietary guidelines remained heavily nutrient-focused: "Avoid too much fat, saturated fat, and cholesterol; eat foods with adequate starch and fibre; avoid too much sugar; avoid too much sodium." Research is taking another turn, stating that vegetable oils are good sources of nutrients and antioxidants.

According to the Global Edible Oil Market for developing nations, the per capita consumption of vegetable oil is assumed to reach 27kg with a growth rate of 0.4% per annum. India is projected to maintain its high per capita vegetable oil consumption with a growth rate of 3.1% per annum.^[1] In India, oil from coconuts, cotton seeds, olives, palm, peanuts, rapeseed, soybeans, and sunflowers are widely consumed. Modern nutrition and dietetics have mentioned it in detail.

In the Samhita, edible oils have been described in *Taila Varga*, while describing food in detail.

Purpose of this article is to inform readers about the characteristics of edible oil as described in

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Ayurveda, with particular emphasis on Charak Samhita, Sushruta Samhita, and Ashtanga Hridaya.

Sushruta Samhita has described around 60 *Taila*. Most of it is used for medical purposes rather than regular cooking.

MATERIAL AND METHODS

1. Literature from Charak Samhita, Sushruta Samhita, and Ashtanga Hridaya was studied.
2. Literature about nutrition and dietetics was studied in books, journals, and research engines.

Table 1: List of vegetable oils in Samhita

Charaka Samhita	Sushruta Samhita	Ashtanga Hridaya
<i>Eranda (Ricinus communis)</i>	<i>Tila (Sesamum indicum)</i>	<i>Tila (Sesamum indicum)</i>
<i>Sarshapa (Brassica campestris)</i>	<i>Eranda (Ricinus communis)</i>	<i>Eranda (Ricinus communis)</i>
<i>Priyal (Buchanania Latifolia)</i>	Nimbadi Group	<i>Rakta erand (Red variety of Ricinus communis)</i>
<i>Atasi (Linum usitatissimum)</i>	Kiraataadi Group	<i>Sarshapa (Brassica campestris)</i>
<i>Kusumbha (Carthamus tinctorius)</i>	Madhookadi Group	<i>Aksha (Terminalia bellirica)</i>
<i>Phala (Derived from fruits)</i>	<i>Tuvaraka (Hydnocarpus laurifolia)</i>	<i>Nimba (Azardicta Indica)</i>
<i>Tila (Sesamum indicum)</i>	<i>Bhallataka (Semecarpus anacardium)</i>	<i>Uma (Linum usitatissimum)</i>
	Saraladi Group	<i>Kusumbha (Carthamus tinctorius)</i>
	Tumbi Group	
	<i>Yavatikta (Andrographis paniculate)</i>	
	<i>Ekaikeshikaa (Operculina turpethum)</i>	
	<i>Sahakaar (Mangifera Indica)</i>	
	<i>Phalodbhava (Derived from fruits)</i>	

Table 2: Ingredients of Sushrutokta varga

No	Name of oil Group	Components
1	Nimbadi	<i>Nimba (Azardicta Indica)</i> <i>Atasi (Linum usitatissimum)</i> <i>Kusumbha (Carthamus tinctorius)</i> <i>Moolaka (Raphanus sativus)</i> <i>Jeemutaka (Luffa echinata)</i> <i>Vrukshaka (Holarrhena Antidysenterica)</i> <i>Krutavedhana (Luffa acutangula)</i> <i>Arka (Calotropis gigantea)</i> <i>Kampillaka (Mallotus philippensis)</i> <i>Hastikarna (Leea macrophylla)</i> <i>Pruthvika (Cuminum cyminum)</i> <i>Peelu (Salvadora persica)</i> <i>Karanja (Pongamia pinnata)</i> <i>Ingudee (Balanites aegyptiaca)</i> <i>Shigru (Moringa oleifera)</i> <i>Sarshapa (Brassica campestris)</i> <i>Suvarchala (Cleome viscosa Linn)</i> <i>Vidanga (Embelia ribes)</i> <i>Jyotishmati (Celastrus paniculatus)</i>
2	Kiraatatiktaadi	<i>Kiratatikta (Swertia chirayita)</i> <i>Atimuktaka (Ougeinia oojeinensis)</i> <i>Bibhitaka (Terminalia bellirica)</i> <i>Naalikera (Cocos nucifera)</i> <i>Kola (Ziziphus jujuba)</i> <i>Akshoda (Juglans regia)</i> <i>Jeevantee (Leptadenia Reticulata)</i> <i>Priyal (Buchanania Latifolia)</i>

		<i>Karbudaar (Bauhinia variegata)</i> <i>Sooryavalli (Holostemma ada-kodien Schult)</i> <i>Trapusa (Cucumis sativus Linn)</i> <i>Ervaaruka (Cucumis utilissimus L)</i> <i>Karkaaru (Cucurbita pepo)</i> <i>Kushmanda (Benincasa hispida)</i>
3	<i>Madhookadi</i>	<i>Madhooka (Madhuca indica)</i> <i>Kashmari (Gmelina arborea)</i> <i>Palasha (Butea monosperma)</i>
4.	<i>Saraladi</i>	<i>Sarala (Pinus roxburghii)</i> <i>Devadaaru (Cedrus deodara)</i> <i>Shinshapa (Dalbergia sissoo)</i> <i>Agaru (Aquilaria agallocha)</i> <i>Gandeera (Nerium oleander)</i>
5.	<i>Tumbi</i>	<i>Tumbi (Lagenaria siceraria)</i> <i>Koshaamra (Schleichera oleosa)</i> <i>Danti (Baliospermum montanum)</i> <i>Dravanti (Jatropha glandulifera Roxb)</i> <i>Shyama (Operculina turpethium)</i> <i>Saptala (Euphorbia pilosa)</i> <i>Neelika (Indigofera tinctoria)</i> <i>Kampillaka (Mallotus philippensis)</i> <i>Shankhini (Euphorbia dracunculoides)</i>

All the Samhitas have mentioned the properties of vegetable oils in detail

The Samhitas have mentioned the properties of oil separately or in groups. These properties work as a guide for using oils. *Tila* (sesame) oil, for example, has properties that are required for optimal body oleation.

Table 3: Ayurvedic properties of different Taila

No	Taila	Rasa	Vipaka	Veerya	Guna
1	<i>Tila (Sesamum indicum)</i>	<i>Madhura</i> <i>Tikta Kashaya</i>	<i>Madhura</i>	<i>Ushna</i>	<i>Sookshma, Vyavaayee, Vishada, Gura, Sara, Vikaasee</i>
2	<i>Eranda (Ricinus communis)</i>	<i>Madhura, Tikta</i> <i>Kashay Katu</i>		<i>Ushna</i>	<i>Guru, Teekahna, Sookshma</i>
3	<i>Sarshapa (Brassica juncea)</i>	<i>Katu</i>		<i>Ushna</i>	<i>Laghu</i>
4	<i>Priyaal (Buchanania Latifolia)</i>	<i>Madhura</i>		<i>Ushna</i>	<i>Guru</i>
5	<i>Atasi (Linum usitatissimum)</i>	<i>Madhura, Amla</i>	<i>Katu</i>	<i>Ushna</i>	<i>Guru, Snigdha</i>
6	<i>Kusumbha (Carthamus tinctorius)</i>		<i>Katu</i>	<i>Ushna</i>	<i>Guru, Vidaahi</i>
7	<i>Nimbadi Group</i>	<i>Katu</i>	<i>Katu</i>	<i>Ushna (Nati Ushna for Nimba by AH)</i>	<i>Laghu, Teekshna, Sara</i>
8	<i>Ingudi (Terminalia catappa)</i>	<i>Ishat Tikta</i>			<i>Laghu</i>
9	<i>Kiraatatiktaadi Group</i>	<i>Madhura</i>	<i>Madhura</i>	<i>Sheeta</i>	<i>Abhishyandee</i>
10	<i>Madhookadi Group</i>	<i>Madhura, Kashaya</i>			
11	<i>Tuvaraka and Bhallataka</i>	<i>Madhura, Kashaya, Tikta</i>			
12	<i>Saralaadi Group</i>	<i>Tikta Katu</i> <i>Kashaya</i>			

13	Tumbyaadi Group				
14	Yavatikta (<i>Euphorbia dracunculoides</i>)	Ishat Tikta			Pathya
15	Ekaishika (<i>Hibiscus sabdariffa</i>)	Madhura		Atisheeta	
16	Sahakaar (<i>Mangifera indica</i>)	Ishat Tikta Madhura, Kashaya			Rooksha, Sugandhi
17	Rakta Eranda (<i>Ricinus communis</i>)	Madhura, Katu, Tikta		Ushna	Teekshna, Picchila, Vistra
18	Aaksha	Madhura		Sheeta	Guru

Effect of oils on Dosh

Oils have a specific role in *Dosha*. It either pacifies or aggravates *Dosha*. This property is useful when deciding which oil should be consumed in which season, *Prakriti* or *Doshavastha*.

Table 4: Effect of Oils on Dosh

No.	Taila varga	Effect on Dosh
1	Tila	Pittakara, Vataghna, Kaphaghna
2	Eranda	Kaphakara, Vaatghna, Kaphaghna
3	Sarshapa	Pittkar, Vataghna, Kaphaghna
4	Priyal	Kaphakara
5	Atasi	Pittakar, Vataghna
6	Kusumbha	Sarvadoshaprakopanam
7	Nimbadi Group	Vaatghna, Kaphaghna
8	Ingudi	
9	Kiraatatiktaadi Group	Vaataghna, Pittaghna
10	Madhookadi Group	Kaphaghna, Pittaghna
11	Tukaraka and Bhallataka	Vaatghna, Kaphaghna
12	Saaraadi Group	Vaatghna, Kaphaghna
13	Tumbyaadi Group	Vaatghna, Kaphaghna
14	Yavatikta	Sarvadosha prashaman
15	Ekaishika	Pittaghna, Vaatkara, Kaphakara
16	Sahakaar	Vaatghna, Kaphaghna
17	Rakta Eranda	Vaatghna, Kaphaghna
18	Aaksha	Pittaghna, Vaataghna

Functions of Oil

As we all know, food serves many purposes beyond providing calories and nutrients, according to modern dietetics. It serves a particular purpose. Although *Acharya* described the functionality of oil in general terms, they also mentioned the indication of oil in diseases, so we can say that it improves the quality of food. Oil can be used as medicine for a variety of illnesses. Additionally, they mentioned that there are certain conditions in which certain oils should not be used. Negative effects can, however, occasionally occur. For everyday cooking, the majority of it is used in medicine. About 60 *Taila* are described in the *Sushruta Samhita*. Instead of being used for everyday cooking, the majority of it is used in medicine.

Chart 5: Functions of Oils

No.	Taila varga	Function	Diseases
1	Tila	Balya, Snehan, Baddha vinmutra, Twachya, Medhagnivardhanam, Brimhan, Preenan, Vrishya, Mardavakar, Sthairyakar, Varnya, Chakshushya, Lekhan, Pachan, Garbhashaya shodhana	Krumi, Sheetapitta, Yonishool, Karnashool, Shiroshool, Garbhashaya shodan, Bhagna, Dagdha
2	Eranda	Strotovishodhana, Twachya, Vrishya, Vayasthapan, Yoni shodhana, Shukra shodhan, Aarogya kar, Medhaakar, Smritikar, Kantikar, Balya, Adhobhagadoshahar	Vatarakta, Gulma, Hridroga, Jeerna Jwara, Vardhma, Udar, Vishamjwar, Ruka and Shopha at Kati, Guhya, Koshtha, Prushtha
3	Sarshapa	Shukraghna, Lekhan, Deepan	Kandu, Kotha, Krumi, Kushtha, Vrana, Jantu
4	Priyal		
5	Atasi	Achakshushya	Twakadoshakar
6	Kusumbha	Achakshushya	Twakadoshakar
7	Nimbadi Group		Krumi, Kushtha, Prameha, Shiroroga,
8	Ingudi	Drishtighna, Shukraghna, Balaghna	Kushtha, Krumi
9	Kiraatatiktaadi Group	Srushta mutra, Agnisaad, Abhishyanda	
10	Madhookadi Group		
11	Tukaraka and Bhallataka	Ubhayato bhaga doshahar	Kushtha, Medoroga, Meha, Krumi
12	Saralaadi Group	Vrana shodhana	Dushta vrana, Krumi, Kandu
13	Tumbyaadi Group	Adhobhagadoshahar, Vranashodhana	Dushta vrana, Krumi, Kushtha
14	Yavatikta	Agnideepan, Lekhan, Medhya, Pathya	
15	Ekaishika		
16	Sahakaar		
17	Rakta Eranda		Vardhma, Gulma, Udar, Vishamjwar, Ruka and Shopha at Kati, Guhya, Koshtha, Prushtha
18	Aaksha	Keshya	

DISCUSSION

Different oils are mentioned in the *Samhitas*. Eight vegetable oils are mentioned by *Charaksamhita*, *Sushrutasamhita*, and *Ashtang Hriday* in *Taila Varga*. Fruits can be used to extract oils, but no further details were provided. These oils, according to the article, have the same qualities as fruits. *Rasa* (taste), *Vipaka* (post-digestive effect), *Veerya* (hot or cold potency), and *Guna* (physical properties), as well as their impact on *Dosha* details, are all discussed in the *Samhitas*. Additionally, oil is referred to as a functional food and a treatment for some illnesses. The drawbacks were also mentioned.

Cooking with sesame, coconut, rice bran, groundnut, sunflower, soybean, palm, safflower, and mustard oils is popular in India.

Both edible and medicinal oils are mentioned in the *Samhitas*.

This article gives views about

1. Use of oils as part of the food for treatment
2. Indication of medicinal plant oil
3. Functionality of oil
4. Contraindications

These oils can be divided into 3 categories:

1. Oil used as a food component - For purpose of cooking
2. Oils can used as table oil - Can be used in salads/ as toppings
3. Oil used as essential oil for medicinal purposes.

Scope of Research

1. Use of oils mentioned in *Samhitas* for specific condition
2. Nutritive assessments of above said oils

CONCLUSION

1. Research supports the characteristics mentioned in the text, despite the fact that many oils are no longer used.
It emphasizes the value of these oils for healing.
2. There were many different types of oils available in ancient times.
Some of it could have been used extensively in cooking.
3. Many oils, however, appear to be used therapeutically.
4. Sesame oil, mustard oil, coconut oil, and safflower oil are all popular cooking oils.
Salads can benefit from pistachio oil, flaxseed oil, *Moolak* oil, *Shigru* oil, walnut oil, *Priyal* oil, *Traipusa*, *Ervaruka*, and *Madhuka taila*.
5. Rest oils are medicinal in nature.
Many of its constituents are used as essential oils or for medicinal purposes.
6. Though we only use a few oils on a daily basis, we can supplement our diet with table oils for getting it's nutrition benefits
7. In terms of treatment, many oils have been shown to have antioxidant and anti-inflammatory properties. They should be used in treatment.

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