A conceptual review of properties of olive oil as per Ayurveda with special reference to Anukta Dravya

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Abstract

Due to globalization world has come closer. Today means of communication has become very fast, incidentally people travel from one country to other frequently. They consume the food available in respective country. These food items consumed apart from India are not mentioned in Ancient Ayurvedic text. Hence they can be called as ANUKTA DRAVYAS. Present article is an attempt to study one such oil that is olive oil from the perspective of Ayurveda because these substances when consumed regularly must be having effect on the health of a person.

Keywords: Anukta Dravya, olive oil, swasth-hitakardravyas, Prayopgicdravyas.

INTRODUCTION

Ayurveda deals with every aspects of human life. But it is clearly mentioned in the ayurvedic text that this ancient science should develop, updated in all aspect as the time progresses. It should be doubtless. The principles of Ayurveda are eternal but its applications can be modified as per the timely changes in society, at the same time the newer inputs should be tested as per the principals of ayurved.

In today’s era of globalization and modernization with changing lifestyle patterns, people opt for a variety in their diet. Persons travelling from one place to other or from one country to another are changing their dietary habits. They are consuming the food substances which are in practise in the place where they are travelling. After returning back to their own places also they are continuing the same food.

The food items like cheese, pasta, noodles, variety of sauces, vegetables like broccoli, zucchini, lettuce, oils like soyabene, rice bran, and olive are becoming popular all over the world. All these food substances are becoming popular in Indian urban population and consumed regularly.

Such food items are not mentioned in the ancient Ayurvedic texts. They are considered as ANUKTA AAHAR DRAVYAS (Food not mentioned in texts).

Need of study

It is the need of present era to study these anukta dravyas from perspective of Ayurveda. Because these substances when consumed regularly must be having effect on the health of a person.

Ayurveda has mentioned the Dravyas (substances) in three categories, [1]

1: Substances rectifying the discordance of the body elements (Doshaprasrhamanam)
2: Substances vitiating the body elements (Dhatupradushanam)
3: Substances conducive to the maintenance of good health (Swasthivrntamam).

Swasthahitakara substances includes cereals, pulses, vegetables, fruits, dryfruits, alcohol, various types of milk, various types oils and fats etc.

In present article olive oil which is in use today all over the world is considered. Olive oil is not mentioned in Ayurvedic texts as it is not produced in India. Hence it can be considered as Anukta Dravya. [2] The study of olive oil is not done till date from Ayurved point of view scientifically.
As olive oil has become regular oil (prasopgic) in present era determination of its properties and actions have now become the need of society.

Hence this article is made to emphasize on the conceptual understanding of olive oil as Anukta dravya and effort is made to determine the properties of it.

The word Anukta is derived from the root vac with negation attached to the basic root. Thus Anukta literally means unsaid and unuttered. With specific reference to Ayurveda, the entity, which is not directly or specifically mentioned in the Ayurvedic texts, is Anukta. Literary meaning of the word anukta is 'unstated'. In the context where nothing is clearly said, Anukta is taken as standard parameter. It helps not only in understanding the classical concepts but also becomes base for understanding the new diseases, drugs and treatment principles and so on. The description of Anukta is very interesting because it clarifies the confusions that arise from the terms and definitions which are not clearly dealt.

As the scope of perception is limited, the unlimited is the scope of things known through the other sources of knowledge, viz. scriptural testimony, inference and reasoning. Thus with the help of scriptural testimony, inference and reasoning, knowledge of new drug, disease and formulation are ascertained.

Concept of anukta

IT is stated in the context of tantrayuktii. The specific tantrayuktii i.e. atideshatantrayuktii is attributed to understand the concept and technology of anukta. The general guidelines for understanding concept of Anukta based on existing principles: The understanding, analyzing and applying trisutras of ayurveda viz. hetu, linga and oushadha - is the need of present era, this is applicable for new disease and new drug and new formulation. This requires the appropriate theoretical description. Here an effort has been made to understand the concept of Anukta with above background.

Chakrapani comments that atideshatantrayuktii (getting the knowledge of unsaid things) helps for clarification of the hidden meaning and also derives the unsaid things. Based on the method followed to explain the existing condition, explanation of the new disease or drug or formulation should be made. To understand the extension of existing technology / concept is atideshatantrayuktii.

All the dravya are made up of panchamahabhoota (five basic elements) such as Pritivi, Ap, Tej, Vayu and Akasha. Thus depending upon the concept of panchamahabhuta, the new dravyas (ahara/oushadha) evolved, which are not mentioned in ayurvedic texts, can be understood.

It is stated that any drug can be studied by taking consideration of some determining points of constitution of panchamahabhutas.

Olive oil as anukta dravya

According to those points an effort has been made to determine the properties of olive oil.

1. Name and Natural order of the drug: Olive (Olea europaeae) oil

The word "oil" in multiple languages ultimately derives from the name of this tree and its fruit.

2. Physical and Chemical properties: olive oil its bitter and pungent taste, having acidic properties, as it is oil it is oliating and hot

3. Soil required to grow oil: They grow in any light soil, even on clay if well drained.

4. Climate required for Olives: Olives grow well in hot weather and sunny positions without any shade.

5. Therapeutic action: Olive oil is used to prevent heart attack and stroke, cardiovascular diseases, breast cancer, various cancers, migraine headache.

Some people use olive oil to treat constipation, high cholesterol, hypertension, constipation, blood vessel problems associated with diabetes, and pain associated arthritis, and gall bladder disease. Some people also use olive oil to boost bacteria in the gut and as a "cleanser" or "purifier."

6. Habitat or places where it grows:

Olive is a species of small tree in the family Oleaceae, found in much of Africa, the Mediterranean basin from Portugal to the Levant, the Arabian Peninsula, and southern Asia as far east as China, as well as the Canary, Mauritius and Reunion.

7. Season in which it grows:

The Mediterranean climate is characterized by warm to hot, dry summers and mild to cool, wet winters. Olives are harvested in the autumn and winter.

8. Methods of collection: The olive fruit into olive paste by crushing or pressing. This paste is then malaxed (slowly churned or mixed) to allow the microscopic oil droplets to agglomerate. The oil is then separated from the watery matter and fruit pulp with the use of a press (traditional method) or centrifugation (modern method). After extraction the remnant solid substance, called pomace, still contains a small quantity of oil.

9. Method of preservation: It should be stored in cool dark place.

10. Pharmaceutical processing’s and its properties: Olive oil is produced by grinding olives and extracting the oil by mechanical or chemical means. Green olives usually produce more bitter oil, and overripe olives can produce oil that is rancid.

Olive oil is composed mainly of the mixed triglyceride esters of oleic acid and palmitic acid and of other fatty acids, along with traces of squalene (up to 0.7%) and sterols (about 0.2% phytosterol and tocoturors). The composition varies by cultivar, region, altitude, time of harvest, and extraction process.

11. Dosage: Olive oil is the main cooking oil in countries surrounding the Mediterranean and now a day it is consumed in all parts of world.

Extra virgin olive oil is mostly used as a salad dressing and as an ingredient in salad dressings. It is also used with foods to be eaten cold. If uncompromised by heat, the flavor is stronger. It also can be used for sautéing.
CLINICAL TRIALS AND RESULTS [12-20]

Patients with active rheumatoid arthritis completed a 24-week, prospective, double-blind, randomized study of dietary supplementation with 2 different dosages of fish oil and 1 dosage of olive oil.

Results: The clinical benefits of dietary supplementation with omega-3 fatty acids are more commonly observed in patients consuming higher dosages of fish oil for time intervals that are longer than those previously studied. Dietary supplementation with olive oil is also associated with certain changes in immune function, which require further investigation.

In a prospective study of Mediterranean individuals at high cardiovascular risk, it was found that baseline total olive oil consumption, especially the extra-virgin variety, was associated with a significant reduced risk of major cardiovascular events and cardiovascular mortality in a Mediterranean population at high cardiovascular risk

Hence Properties of oil are same as of the substance from which it is extracted.

And as olive is a fruit and consumed as dietary substance hence it can be said that olive oil is non toxic.

As olive requires dry and light soil, and in hot and dry weather, as per ayurveda one can define it as it grows well in Agni,Vayu, and Aakashmahabhuta dominant conditions. Hence it contains more augneya qualities. As it requires hot and dry climate and it does not require more rain hence can be said that it is laghu.

After extraction of olive oil the remaining substance – pomace is used as fodder hence it can be definitely say that it has dhatuposhan as well as jivantiya property.

The taste of the olive oil is influenced by the varietals used to produce the oil from and by the moment when the olives are harvested and ground (less ripe olives give more bitter and spicy flavors – riper olives give a sweeter sensation in the oil).

Olive has bitter and pungent taste. As bitter taste creates cleansing of oral cavity and pungent taste creates tingling sensation on tongue, nasal and eye secretions.

As olive oil is stored in cool and dark place it must be of ushna property.

- Density of Olive oil is 20 hence it has sandra property.
- Olives are soft and fleshy hence of mrudu property.
- Olive oil relieves constipation hence sara property.
- As oil can be extracted from olive it is of snigdha property.
- Olive if preserved in cool dark place it is stable and does not become rancid hence sthira property.
- Olive oil can penetrate through minute channels hence of sukshma property.
- When consumed it creates slimness in oral cavity hence of pichila property.

CONCLUSION

From above discussion one can conclude by defining the properties of olive oil as follows:

1. We can say that olive oil posses, sthira, mrudu, property of prithvimahabhita, drava,snigdha,mrudu, pichila and saraguna of jalamahabhita. Ushna, tikshna, laghu, sukshma properties of vayumahabhuta and sukshma,laghu property of aakashmahabhita.

2. Again from taste point of view olive oil is of Bitter and Pungent taste. Bitter taste is of prihvi and vayumahabhuta dominance and pungent tase is of tej and vayumahabuthadominance.

3. As olive grows well in Agni,Vayu. And Aakashmahabhuta dominant conditions, its veerya (potency) must be ushna.

4. And ultimately as olive oil is beneficial in relieving constipation its vipak (After taste) must be katu.

REFERENCES


15. Tsuruoka N, Kidokoro A, Matsumoto I, Abe K, Kiso Y. Modulating effect of sesamin, a functional lignan in sesame seeds, on the transcription levels


20. Olive oil and the cardiovascular system Mar´ia-Isabel Covas∗. Lipids and Cardiovascular Epidemiology Unit, Institut Municipal d’Investigació i Medicina (IMIM – Hospital del Mar), Parc de Recerca Biomèdica de Barcelona (PRBB), Carrer Dr. Aiguader, 80, 08003 Barcelona, Spain.