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Review Article

Nutraceuticals in Ayurveda w.s.r to Yavagu: A Review Article

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Abstract-

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In Ayurveda science, root cause of diseases is explained by the concept of *mandagani*. So in Ayurveda classical literature *Acharya* firstly focused on diet because due to faulty food habits digestive power can be hampered. In *samhitas Acharya* explained diet of any individual at many places with their nutritional and pharmacological properties. So in some cases patient can be cured only with the proper food recipes. *Yavagu* are simple recipes with great nutritional as well as pharmacological properties which depends on the drug used to prepare the recipe thus these *yavagu kalpana* should be considered as nutraceuticals.

Key words- Yavagu, nutraceuticals, mandagani

Introduction-

In Ayurveda classical text Aahar is adorned as "Mahabheshaja" (supreme drug).Ahara is placed firstly in Tri-upsthambha²-Ahar (diet), nidra(sleep) and brhamacharya, as being the most important factor for a healthy individual. Acharya Caraka mentioned that "From the diet, different types of diseases and body itself are said to be originated from the diet³." In Ayurveda the primary cause of all diseases is considered 'Mandagani(indigestion lack appetite)⁴. So diet is a very important factor in both healthy and diseased conditions. Presently population is gradually suffering from immune dysfunctions, metabolic and degenerative disease due to change in lifestyles, urbanization and industrialization. These changes in last few decades have directly affected our nutritional qualitative aspect of food.

Nutraceuticals are substances who have nutritional as well as pharmaceuticals properties. Dr. Stephan De Felice coined this term in 1989 and defined as "a food (or part of food) that provides medical or health benefits including the prevention and/or treatment of a disease.

In our ancient classical text various food preparations are described to be used in healthy as well as diseased conditions i.e. pathaya kalpana, kritanna kalpana etc.

These recipes are prepared with herbal drugs paste(kalka) or decoction(kwatha) so they enhance digestive fire as they enhance secretion of digestive enzymes in the body. Thus normal physiological state of Agni(digestive fire) is maintained after any diseased conditions or these recipes can be used in Sansarjana karma(post body purification procedures or in post operative care).⁵

Yavagu Kalpana-

Acharya Caraka explained different varieties of gruel prepared with different medicated kwatha and kalka to basic rice recipe with a view to eradicate various diseases which can be cured by it⁶. The basic ingredient is rice which is easily digestible and having a lot of nutrients. So these Aahara kalpana can be considered in the category of nutraceuticals. Yavagu kalpana includes many recipes as Anna, vilepi, manda, peya and yavagus. The ratio of water or decoction is different in these yavagu kalpana. Yavagu is prepared by taking six times of water/decoction and one part of rice. Acharya Caraka explained 28 types of yavagu altering the decoction of herbal drugs, buttermilk or meat broth in various diseases⁷.The dose of herbal medicine is not fixed. Dose is prescribed keeping in view the potency of drug, age and appetite of individual, dosha state and nature of disease.

On the basis of drug material's potency (virya) yavagus are classified into three types⁸-

S.No	Drug		Examples
		Dose	
1.	Teekshna virya(strong potency)	One Karsha(12gm)	Shunthi (Zingiber officinale)
2.	Madhyam virya(Moderate potency)	Half pala(24gm)	Bilva (Aegle marmelos)
3.	Mrudu virya(mild potency)	One pala(48gm)	Amalaki (Emblica officinalis)

Materials and methods-

Literary references are collected from *Caraka samhita's "Apamarga tanduliya Adhayaya"* and various Ayurveda literatures, published articles in various research journals on concerned topic.

Aims and objectives-

- 1. Nutraceutical aspect of y*avagu* as per Ayurveda texts.
- 2.Study of 28 *yavagu* described by Acharya *Caraka in apamarga tanduliya* chapter of *sutra sthana* as nutraceuticals.

Table no 1.

Nutraceutical aspect of yavagu-

Yavagu kalpana is very helpful as supportive treatment of various diseases due to its nutritional as well as medicinal properties. In kritanna varga(food preparations) of Acharya Sushruta yavagu are described as Manda(scum), peya(liquid gruel), vilepi(paste gruel) and yavagu(gruel) on the basis of their consistency⁹.

S.No	kritanna	Recipe	Rice:water
	varga		ratio
1	Manda	In <i>manda</i> boiled rice grains doesn't have distinct identification due to the excess amount of water in this recipe.	1:14
2	Peya	Peya contains boiled grains with distinct fluid.	1:14
3	Vilepi	It has thick mass of boiled grains without distinct liquid and as such lick able.	1:4
4	Yavagu	Contains mostly rice, liquid part is less then peya	1:6 times

Pharmacological properties of yavagu-

Acharya Sharangdhar described a few pharmacological properties of yavagu as 10-

Grahini- Yavagu enhances digestive power by its deepan(digestive), pachana (appetizer) and carminative properties. These properties help to absorb excess water in intestine and make it to obstruct faecal matter and

hence thereafter results in the formed consistency of stool.

Balya- Increase strength in case of fatigue and malaise due to its saturating action.

Tarpani- It allays thirst and hunger due to it's satiating properties.

Vata nashani- Yavagu pacifies vata dosha in body.

Yavagu recipe is made by rice and various medicinal herb's decoction or paste. Usually Raktashali(red rice) are used to prepare the recipe. It has the highest nutritional value compared to polished rice. Raktashali was the most efficacious in subduing deranged humors (dosha). It was considered diuretic, spermatophyte, refrigerant, eye-invigorating,

cosmetic, tonic and pleasant. It was good for fevers and ulcers and was antitoxic¹¹.Red rice are considered more nutritious, have been found to be rich in iron, zinc and minerals. So *yavagu* is beneficial in both healthy and diseased conditions due to it's nutritional and various pharmacological properties which depends on the drug content in it.

28 Yavagu explained by Acharya Caraka-

Table no 2.

Sr. no	Name of yavagu	Ingredients	Indications
1	Deepana-shoolaghana yavagu	Pipali (Piper longum), pipali moola ,chavya(Piper retrofractum), chitraka(Plumbago zeylanica),nagara (Zingiber officinale)	Aruchi(distaste),agnimandhy a (anorexia),ajeerna(indigestio n), Udarshoola(abdominal colic)
2	Pachani-grahini peya	Kapitha(Limonia acidissima),bilwa(Aegle marmelos),buttermilk,changeri(Oxalis corniculata),dadima juice(Punica granatum)	Digestive, Diarrhoea, amapachana, Carminative
3	Vatika atisaraghni peya	Panchmoola	Vataja diarrhea
4	Pitta-kapha atisaraghni peya	Shaliparni (Desmodium gangeticum),bilwa(Aegle marmelos),prishniparni(Uraria picta),sour dadima (Punica granatum)	Paittika and shaishmika diarrhea
5	Rakta atisraghni peya	Goat's milk(Capra aegagrus),hribera(Pavonia odorata),utpala(Nymphoea stellata),nagara(Zingiber officinale)),prishniparni(Uraria picta)	Dysentery and diarrhoea with bleeding.
6	Amatisarghni peya	Ativisha(Aconitum heterophylum), shunthi(Zingiber officinale)	Diarrhoea due to indigestion or amaja diarrhea.
7	Mutra krichaghni peya	Gokshura(Tribulus terristris),kantakari(Solanum surrattense),phanita(half cooked molasses)	Diuretic,helpful in dysuria
8	Krimighana yavagu	Vidanga(Embelia ribes),piplimula (Piper longum),shigru(Moringa	Worm infestation

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		oleifera),maricha(Piper	
		longum),suvarchika	
		kshara,takra(buttermilk)	
9	Pipasaghani yavagu	Mridwika(Vitis	Excessive thirst, burning etc.
9	r ipasagnani yavagu	vinifera),sariva(Hemidesmus	Excessive timst, burning etc.
		indicus), laja, pipali(Piper	
10	Vish ash ani yayaay	longum),nagar(Zingiber officinale),honey	Used to eliminate toxic
	Vishaghani yavagu	Somaraji(Psoralea corylifolia)	substances from tissues
11	Brihani yavagu	This yavagu is prepared by adding pork meat juice.	Malnourishment
12	Karshani yavagu	Gavedhuk(Coix lacryma)	Obesity, emaciating
13	Snehani	Til (Sesamum indicum), ghee, salt	Useful in <i>snehana</i> therapy
	Yavagu		(oleation),unctuousness
14	Virukshaneeya	Kush(Desmostachya	Useful in
	yavagu	bininnata),Amlaka(Emblica	rukshana(roughness) therapy
		officinalis),shyamaka(Panicum	
		frumentaceum)	
15	Dashmuladi yavagu	Dashmoola dravyas	Hikka(hiccup), swasa (dyspno
			ea),kasa(coughing)kaphahar
16	Pakvasaya rujahar	Yamaka(ghee and	Intestinal colic
	yavagu	oil),Madira(fermentated drinks)	
17	Varch pravartaka	Vegetables,meat,til (Sesamum	Evacuates bowel
Ī	yavagu	indicum),masha(Vigna Mungo)	
18	Sangrahika yavagu	Jambu(Syzygium	Diarrhoea (vataja
Ì		cumini),amrasthi(Mangifera	atisaar),IBS
		indica),kapitha (Limonia	
		acidissima),bilwa(Aegle marmelos)	
19	Bhedini yavagu	Yava(Hordeum	Act as cathartic so useful in
		vulgare),kshara,chitraka(Plumbago	severe constipation
		zeylanica),hingu(Ferula assa-	
		foetida),amlavetasa(Solena	
		amplexicaulis)	
20	Vatanulomini yavagu	Haritaki(Terminalia chebula),	Helps in elimination of
Ì		pipalimoola(Piper	flatus so useful in
		longum,nagara(Zingiber officinale)	udavrita, vatika kasa, constipation etc.
21-	Sneha vyapad nasini	1.takra siddha yavagu	Sneha vyapad (incorrect
22	yavagus		intake of ghee and oil)
- 	J	2.takra and pinayaka siddha yavagu	<i>5 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </i>

23	Visham javarahar yavagu	gomamsa rasa (Cow meat) siddha yavagu	Visham jawara(irregular fever)
24	Kanthaya yavagu	Yava(Hordeum vulgare),yamaka(ghee and oil),Pipali(Piper longum),amalaki(Phyllanthus emblica)	Throat diseases
25	Retasmarga rujahar yavagu	Tamrachuda rasa(cock) siddha yavagu	Related to diseases of male reproductive organs specially diseases pertaining to seminal passage
26	Vrshya yavagu	masha(Vigna Mungo),vidala(pulses),ghee and milk siddha yavagu	Aphrodisiac -Useful in spermatogenesis and healthy sexual potentitation.
27	Madavinashani yavagu	Upodika(Basella alba) and dahi(curd) siddha yavagu	Narcosis- 1.effected by the intake of poison. 2.narcosis in blood 3.Intake of alcoholic drinks.
28	Kshudhahar yavagu	Aparmaga (Achyranthes aspera)and godha rasa (meat soup of inguana)siddha yavagu	Bhasmaka(insatiable hunger),hyperthyroidism

Discussion-

Yavagu as a pathya kalpana is very useful as it works as the media for various drugs. Acharya Caraka explained 28 types of yavagu in sutra sathana and he again described use of yavagu in various diseases i.e. jwara, grahni, atisara, gulam, arsha, pleeha roga, hikka, swasa, kasa etc in chikitsa sthana. So the pharmacological properties of yavagu depends on the drug content and the nutritional properties comes from rice which is basic part of any yavagu recipe. Rice is the second most widely consumed cereal in the world next to wheat. Rice contains 80% carbohydrates,7-8% protein ,3% fat and 3% fiber. Its mineral content, starch quality, glycemic index and antioxidant activity has made rice unique¹². Rice starch is nearly completely absorbed by the human body in compare to wheat, potato and maize (Strocchi and Levitt,1991).

Rice based Oral rehydration solutions(ORS) have been proved effective in decreasing stool output and improving intestinal absorption in acute diarrhea.(Goldberg and Saltzman,1996).Rice based ORS are now preferred over glucose based ORS, and have been included in WHO programs. (Goreet al.,1992)¹³

Conclusion-

Ayurveda being an ancient science emphasizes to keep a person physically, mentally and spiritually healthy so it puts more emphasis on diet of individual. In present era lifestyle changes make persons

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more susceptible for diseases. Recurrent use of antibiotics for common diseases make digestive system weak. *Yavagu* are simple recipe and can play a great role in treating many diseases because they are light digestive in nature having more nutritional

value. *Yavagu* is a highly useful and clinically appreciable medicated recipe which is indicated in the patients who are not medicine friendly so this is a comfortable way of medicine intake through *yavagu*.

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