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Review Article

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

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Abstract-

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"¹ (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 of or 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 and 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	Half pala(24gm)	Bilva (Aegle marmelos)
	potency)		
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-

 Nutraceutical aspect of yavagu as per Ayurveda texts.
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), *vilep*i(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.	
4	Yavagu	Contains mostly rice, liquid part is less then <i>peya</i>	1:6 times

Pharmacological properties of yavagu-

- Acharya Sharangdhar described a few pharmacological properties of yavagu as¹⁰-
- 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,

28 Yavagu explained by Acharya Caraka-

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.

Sr. no	Name of <i>yavagu</i>	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	<i>Vataja</i> 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

Table no 2.

		oleifera),maricha(Piper longum),suvarchika kshara,takra(buttermilk)	
9	Pipasaghani yavagu	Mridwika(Vitis vinifera),sariva(Hemidesmus indicus),laja,pipali(Piper longum),nagar(Zingiber officinale),honey	Excessive thirst, burning etc.
10	Vishaghani yavagu	Somaraji(Psoralea corylifolia)	Used to eliminate toxic 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 Yavagu	Til (Sesamum indicum),ghee,salt	Useful in <i>snehana</i> therapy (oleation),unctuousness
14	Virukshaneeya yavagu	Kush(Desmostachya bininnata),Amlaka(Emblica officinalis),shyamaka(Panicum frumentaceum)	Useful in <i>rukshana</i> (roughness) therapy
15	Dashmuladi yavagu	Dashmoola dravyas	<i>Hikka</i> (hiccup), <i>swasa</i> (dyspno ea), <i>kasa</i> (coughing) <i>kaphahar</i>
16	Pakvasaya rujahar yavagu	Yamaka(ghee and oil),Madira(fermentated drinks)	Intestinal colic
17	Varch pravartaka yavagu	Vegetables,meat,til (Sesamum indicum),masha(Vigna Mungo)	Evacuates bowel
18	Sangrahika yavagu	Jambu(Syzygium cumini),amrasthi(Mangifera indica),kapitha (Limonia acidissima),bilwa(Aegle marmelos)	Diarrhoea (vataja atisaar),IBS
19	Bhedini yavagu	Yava(Hordeum vulgare),kshara,chitraka(Plumbago zeylanica),hingu(Ferula assa- foetida),amlavetasa(Solena amplexicaulis)	Act as cathartic so useful in severe constipation
20	Vatanulomini yavagu	Haritaki(Terminalia chebula), pipalimoola(Piper longum,nagara(Zingiber officinale)	Helps in elimination of flatus so useful in <i>udavrita,vatika kasa,</i> constipation etc.
21- 22	Sneha vyapad nasini yavagus	1.takra siddha yavagu2.takra and pinayaka siddha yavagu	<i>Sneha vyapad</i> (incorrect intake of ghee and oil)

23	Visham javarahar yavagu	gomamsa rasa (Cow meat) siddha yavagu	<i>Visham jawara</i> (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	<i>Bhasmaka</i> (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 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 **References-** 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*.

1. Acharya Kashyapa, Kashyap samhita, PV tewari 1st edition, khila sthana, 4th chapter, verses 4-6,468page no, Edited by Varansi:Chaukhambha vishwabharati;1996

2. Dr.Laxmidhar Diwedi, Caraka samhita, Chakrapani virachit ayurved deepika teeka, 4th edition, sutra sthana,11th chapter,verse 35,261 page no. varansi :Chaukhambha Krishnadas academy,2019

3. Dr.Laxmidhar Diwedi, Caraka samhita, Chakrapani virachit ayurved deepika teeka, 4th edition, sutra sthana,28th chapter,verse 45,605 page no. varansi :Chaukhambha Krishnadas academy,2019

4. Astangahrdayam, chapter 12, verse 1,513 page no, Varansi : Chaukhambha orientalia, 2019

5. Caraka samhita. Chakrapani virachit ayurved deepika teeka edited by Vaidya Yadavji Trikamji, sidhi sthana,1st chapter,verse 12-13,page no.679,Varansi :Chaukhambha surbharati prakashan,2017

6.Caraka samhita. Chakrapani virachit ayurved deepika teeka edited by Vaidya Yadavji Trikamji, sutra sthana,2nd chapter,verse 17,page no 25-26,Varansi :Chaukhambha surbharati prakashan,2017

7-8.Caraka samhita. Chakrapani virachit ayurved deepika teeka edited by Vaidya Yadavji Trikamji, sutra sthana,2nd chapter,verses 18-33,page no 26-27, Varansi :Chaukhambha surbharati prakashan,2017

9. Sushruta samhita,edited by P.V.Sharma Vol.1 sutra sthana,chapter no 46,verse no 344,page no 526, Varansi :Chaukhambha visvabharati,2004

10.Sharangdhar samhita jeevanprada commentary by Dr. Mrs Shelja Shreevastava,Varansi :Chaukhambha orientalia,2016

11-13. Uma Ahuja,SC Ahuja,Rashmi Thakrar... Rice-A neutraceutical,published in Asian Agrihistory vol.12,no. 2 April,2008