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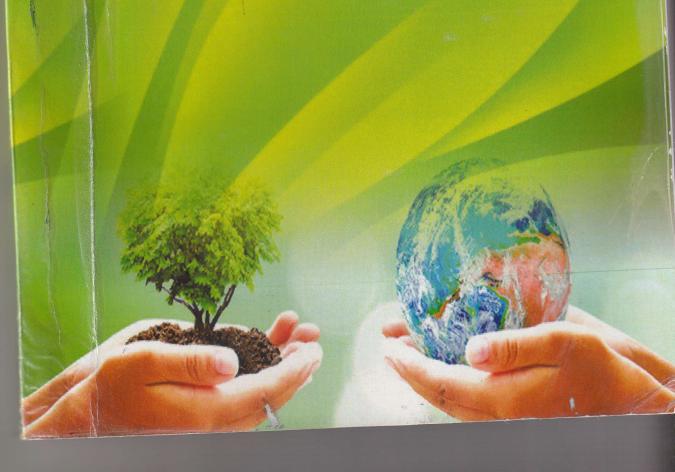
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Compendium on

Impact of Social Change and Technology on Family and Community

PUSHPA KUMARI





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#### Unplugging The Hidden Hunger In Indian Society

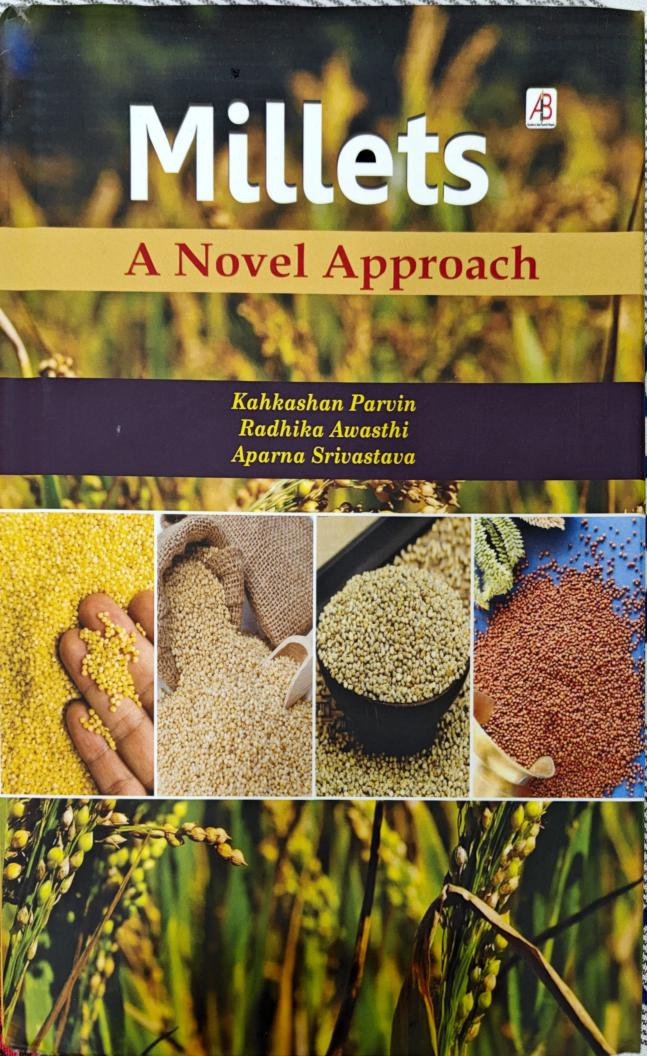
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India, with a population of over 1.3 billion. tremendous growth in the past two decades. Gross Dome has increased 4.5 times and per capita consumption has times. Similarly food grain production has increased amount However, despite phenomenal industrial and economic while India produces sufficient food to feed its population. to provide access to food to a large number of people women and children. Hunger is not, due to non availability rather is a problem of how to make the available food and Hunger is a condition in which a body, for a sustaine to consume sufficient food to meet basic nutritions According to Cambridge Dictionary- "A situation in which does not have enough food". According to Oxford Does feeling of discomfort or weakness caused by lack of food the desire to eat". The global hunger index of India is remainded and in the state of the state 2019) out of 117 qualifying countries.

Hidden hunger is a form of chronic hunger unbalanced diet, important nutrients are lacking, such a zinc or vitamin A. At first glance, the consequences were very visible, but over the long-term these nutrient deficiency serious diseases. In particular, children are unable to neither mentally nor physically. The risk of death is not two billion people suffer from chronic nutrient deficiency.

<sup>\*</sup> Research Scholar, \*\* Associate Professor, Vasant Kanga Managaran Kamachha Varanasi.





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THE PROPERTY OF

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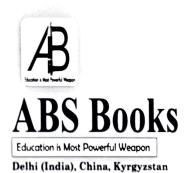
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including four books "Impact of Caffeine Intake on The Health of Pre-Menopausal Women', "Food Science: A Practical Guide for Beginners", Physical Education, Health and Sports' and Principles of Food Science and Nutrition' and also contributed chapters in many books related to her field and subject. Her key area of interest is Holistic Health and Nutrition, food product development, community nutrition, maternal and child health, adolescent health etc. She has worked within non-profit, for profit, and academic environments. She is a lifetime member of Home Science Association of India, Nutrition Society of India, Sahayata - Nutrition, Health, Education & Research Foundation and Poshan Dhara Association. Her aim is to establish herself in the field of education and to utilize her knowledge for the betterment of learners. She had organised many gender sensitisation programmes for women and girls.



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Millets: A Novel Approach

By: Dr. Kahkashan Parvin, Radhika Awasthi & Aparna Srivastava

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### 2.

# Phytochemicals in Shree Anna (Millets) as an Elixir for Lifestyle Diseases

Dr. Garima Upadhyay<sup>1</sup>

Millet is a collective term referring to a number of small-seeded annual grasses that are cultivated as grain crops, primarily on marginal lands in dry areas in temperate, subtropical and tropical regions. Of the total millet produced in the world about 90% is utilized in the developing countries. According to FAOSTAT (2021), the global millet production in 2019-20 was 84.17 million metric tonnes from an area of 70.75 million hectares, of which 20.50% is produced in India. Currently, millets are used in the diets of about 90 million people in Africa and Asia. They are nutritionally rich, drought resistant, provide ecological and economic security as a source of food and fodder. These millets are also known as "coarse cereals" or "cereals of the poor". As compared to wheat and rice millets are nutritionally superior because of their protein, vitamins and minerals content. Millets

<sup>&</sup>lt;sup>1</sup>Associate Professor (Food & Nutrition), Vasant Kanya Mahavidyalaya, Kamaccha, Varanasi.

of the total millet growing area in India and the rest 5% are are Sorghum, Pearl Millet, and Finger Millet covering 95% have the potential to address important issues in the future a low glycemic index, making them ideal for people with celiac Millet, and Browntop Millet.They are also gluten-free and have Little Millet, Foxtail Millet, Barnyard Millet, Proso Millet, Kodo There are nine types of Millets grown in India. The major millets like food, feed, fuel, malnutrition, health, and Climate Change. disease or diabetes.

estimated that 61 per cent of all deaths -- 35 million -- and 49 per worldwide. In 2005, the World Health Organization (WHO) cent of the global burden of disease were attributable to chronic global burden of disease to 56 per cent. Adding millets in the diet chronic diseases is expected to increase to 70 per cent and the diseases. By 2030, the proportion of total global deaths due to diet and lifestyle. of these habits often originate during the formative stages of health. Now Shree Anna is considered as the food of future. not only prevents lifestyle diseases but also promotes overall demand of the time is to incorporate millets as part of our daily are social practices and ways of living adopted by individuals is generally considered a personal issue. However, lifestyles the observance of healthy lifestyle habits, and because the roots responsible for reducing the risk of deadly chronic diseases foodsource. Healthy diet is one of the four healthy life style factors recent years millets are considered as nutritious and sustainable Shree Anna provides a healing touch to life style diseases. In that reflect personal, group, and socio-economic identities. The life, it is especially important to start in early years. Lifestyle This reinforces the current public health recommendations for Today, chronic diseases are a major public health problem

more than rice. Finger Millet known as Ragi has the highest fiber that is 3 times more than wheat and maize and 10 times and prevent constipation. Kodo Millet contains high dietary gluten. Millets are rich in dietary fiber and help in digestion cardiovascular diseases, intestinal disorders or allergies towards suffering from lifestyle diseases, whether it is diabetes, Millets are gaining ground as healthy options for those

> our cells from free radicals. In addition to being a rich source of celiac patients. Millets are rich in antioxidants which protect particularly phenolic compounds. nutrients, millet grains have an abundance of phytochemicals, microbiome. Millets are absolutely gluten-free and it is good for acts as a pre-biotics and thus helps to maintain a healthy gut the bones and teeth strong. The high fiber content in millets times more Calcium than milk. This Calcium dense grain keeps Calcium content of about 364 mg per 100 gm of grains. It is 3

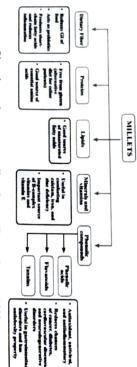
Table: 1. Proximate composition of millet grains in comparison with rice, wheat, and maize

Grain	Protein (%)	Fat (%)	Ash (%)	Carbo- hydrate (%)	Total dietary fibre (TDF)	Energy
Sorghum	9.97	1.73	1.39	67.7	10.2	334
Pearl millet	10.96	5.43	1.37	61.8	11.5	347
Finger millet	7.16	1.92	2.04	66.8	11.2	320
Foxtail millet	12.3	4.30	2.6	60.1	10.7	331
Little millet	10.13	3.89	1.34	65.5	7.7	346
Proso millet	11.5	3.5	2.7	64.5	9.6	341
Kodo millet	8.92	2.55	1.72	66.2	6.4	331
Barnyard millet	6.2	2.20	1.3	65.5	12.6*	307
Rice, raw,	7.9	0.52	0.56	78.24	2.81	356
Milled						
Wheat, whole	10.59	1.47	1.42	64.72	11.2	321
/Maize, dry	8.8	3.7	1.17	64.7	12.2	334
	Common I	Jian Gad		Common Indian food commonition tables NIN 2017.	3017.	

Source: Indian food composition tables, NIN-2017;

overproduction of reactive oxygen species (ROS) exposure to high blood glucose levels has been implicated in the insulin resistance and pancreatic  $\ensuremath{\beta}$ -cell dysfunction . Long-term and abnormal carbohydrate metabolism, developed due to all diabetes worldwide. T2D is characterized by hyperglycemia common type of diabetes, accounting for approximately 90% of and reducing diabetes is available after recent systematic helping to manage diabetes. Type 2 diabetes (T2D) is the most review and Meta-analysis. The low glycemic index of millets is Enough evidence regarding potential of millets for managing

a significant role in fighting against diseases and promoting other cereals and fruits (Awika & Rooney, 2004). Kushmitha and pinacosanols. These phytochemicals have potential positive including tannins, phenolic acids, anthocyanins, phytosterols importance. Millets are a rich source of various phytochemicals present in the grains, thus, their identification is of great due to the additive and synergistic effects of several compounds phytochemical ph phytochemicals, mainly phenolic compounds, which can be are natural, plant-based, active organic compounds that play fractions possess high antioxidant activity in vitro relative to impact on human health. All millet grain and especially sorghum A., Shahidi F, 2011). These beneficial health outcomes could be diabetes, cancer, and cardiovascular diseases (R Chandrasekara RG (2023) reported millet is rich in phytochemicals, which In addition to nutritional benefits, millets contain numerous



Phytochemicals present in millets. Source: Yojana January 2023

antimicrobial, antidiarrhoeal, antiulcer, and anti-cardiovascular the millet because of their nutraceutical potentials such as Polyphenols are the most important phytochemicals of anti-inflammatory, anticarcinogenic,

hypertension, of several physiological disorders such as diabetes mellitus, maintaining health of the gastrointestinal tract. (Nidhi Singh et prevention of oxidation of low-density lipoproteins (LDLs) and Besides, polyphenols are also useful in the management vascular fragility, hypercholesterolemia,

> compounds, inhibit the adverse effects of a few compounds. compounds have the ability to boost the potential of other and reactive species. Despite their chemical diversity, phenolic by giving further protection from oxidants, oxidative processes, phytochemicals present in millet. Phenolics possess antioxidant properties, which crucially maintain the body's oxidative balance Phenolics are important source of antioxidant among all the

content and antioxidant capacity of millet grains. However, the (Fereidoon Shahidi , Anoma Chandrasekara 2013) risk reduction and overall health and wellness is warranted use of millets, as .nutraceuticals and specialty foods in disease the free form. Though there is a wide variation in the phenolic the chief charactersistics. Meanwhile, flavonoids exist mainly in bioaccessibility and anti oxidant capacity of these phenolics are in different types of millet grains in varying proportion. Further, hydroxycinnamic acids and their derivatives are notably present as well as insoluble-bound forms. Both hydroxybenzoic and Phenolic compounds in millets are found in the soluble

make millet an ideal food for promoting health and wellbeing. inflammatory, antioxidant, and anti-oxidative properties, which compounds are known for their anti-cancer, anti-diabetic, antiquercetin are present in millet in significant amounts. These acid, protocatechuic acid, and flavonoids such as kaempferol and Phenolic acids such as chlorogenic acid, ferulic acid, gallic

and the related complications of type 2 diabetes (Lin et al., 2010). phenolic acids and flavonoids are also considered vital in acids, flavonoids, and tannins (King & Young, 1999). The promoting health by reducing the risk of metabolic syndrome The main dietary phenolic compounds include the phenolic

pancreatic amylase by partly inhibiting the enzymatic hydrolysis of complicated hyperglycemia. Millets contain phenolics such as alpha-glucosidase, carbohydrates that reduces postprandial

millets under high fat diet-induced oxidative stress is due to Chandrasekara and Shahidi, 2012). Neural protective effect of

upregulating the expression of antioxidant enzymes effects under high fat diet-induced oxidative stress by Millet and millet polyphenols could exert neural protective

upregulation of expression of antioxidant enzyme

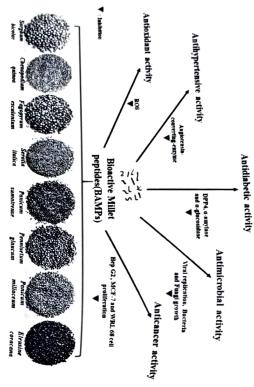
acids, avenanthramides, flavonoids, lignans and phytosterols starch, oligosaccharides, lipids, antioxidants such as phenolic (Miller, 2001; Edge et al., 2005). which are believed to be responsible for many health benefits The important nutrients present in millets include resistant

compounds and flavonoids. These antioxidants help combat free cells from damage." The grain is nothing less than a treat for radicals in the body, reducing oxidative stress and protecting extremely gentle on the "digestive system." the ones who abide by the gluten-free diet. Along with that it is Kodo Millet is abundant in antioxidants, such as phenolic

consuming cereals including millet had lower incidences of certain types of cancer. found in sorghum, has the ability to provide protection from Due to several bioactivities the 3-deoxy anthocyanins which are esophageal cancer compared to those consuming wheat or maize. Adelhafid Nani et. al (2015) reported that populations

stimulation of immune responses. polyphenols and the underlying mechanisms involved in the et. al. 2021 summarized the immunomodulatory effects of (interleukin-6 (IL-6), IL-1, interferon-y (IFN-y)). Hira Shakoor autoimmune disease by inhibition of autoimmune T cell immunomodulatory effects against allergic reaction and and limiting demyelination. In addition, polyphenols cause by regulating signaling pathways, suppressing inflammation like type 1 diabetes, rheumatoid arthritis and multiple sclerosis potential role in prevention/treatment of auto-immune diseases considerable attention in recent years. Polyphenols have a proliferation and downregulation of pro-inflammatory cytokines The immunomodulatory effects of polyphenols have drawn

Health promoting biological activities of bioactive millet peptides (BAMPs)

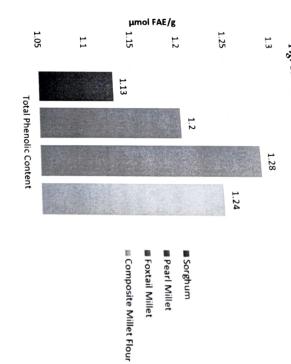


Source: Abdul Majid & Priya Priyadarshini (2020)

system, lowers the risk of cancer, detoxifies the body, increases risk of heart disease, protects from diabetes, improves digestive onset degenerative diseases. Consumption of millets reduces et al., 2013). Millets have potential for protection against ageseveral degenerative diseases such as metabolic syndrome and immunity in respiratory health, increases energy levels and are non-acid forming, easy to digest and non-allergenic (Saleh Parkinson's disease (Manach et al., 2005; Scalbert et al., 2005; improves muscular and neural systems and are protective against people suffering from gluten allergy and celiac disease. They deficiency diseases. Being non-glutinous, millets are safe for besides their known functions of preventing nutritional have benefits in terms of prevention of degenerative diseases age-related degenerative diseases like cardiovascular diseases modulators, detoxifying agents etc. and hence protect against phytocyanins. These function as antioxidants, immune known nutrients- vitamins, minerals, essential fatty acids also (CVD), diabetes, cancer etc. (Rao et al., 2011). Some of the like polyphenols, lignans, phytosterols, phyto-oestrogens, Millets are also rich in health-promoting phytochemicals

# 18 Millets: A Novel Approach

# Fig: Total Phenolic Content of Millet Flour (µmol FAE/g)



Source: Sindhu S and Radhai Sri (2019)

anti-oxidative anti-diabetic

anti-inflammatory

anti-cancer

Fig: Health attributes of phenolic acids in millets

# Phytochemicals in Shree Anna (Millets) as an Elixir... 19

Table: 2. Reviewed Potential Health Effects of Polyphenols.

	*
Type of disease	Evidence of effects
Neurodegenerative disease	Curcumin, resveratrol and catechins (like epigallocatechin gallate (EGCG) may protect against Alzheimer's like diseases
	that protect neurons and inhibition of beta-amyloid protein, the accumulation inter's disease.
	The iron chelating effects of EGCG, curcumin, myricetin, ginsenosides and ginkgetin are thought to be an underlying mechanism through which polyphenols prevent neurotoxicity,
	leading to a neuroprotective effect against neurodegenerative diseases like Parkinson's Disease, Alzheimer's Disease and Huntington's Disease.
Inflammation	Phenolic compounds may prevent systemic and/or localized inflammation by restoring the redox balance to reduce oxidative stress, and by modulating inflammatory responses through mitigation of cytokine pathways.
Cancer	Flavanoids such as anthocyanins, catechins, flavanols, flavones, flavanones and isoflavones, may neutralize free radicals and decrease cancer risk by arresting cellular growth in tumors.
	Specific types of cancers with evidence of beneficial effects from polyphenols include colon, epithelial, endometrial and breast cancer.
Cardiovascular health	Flavonoid-rich foods have been associated with improved ventricular health, reduced platelet activity, enzymatic modulation, anti-inflammatory effects, and lower blood pressure, to increase overall vascular health.
	Flavonoids and resveratrol may block cholesterol oxidation to reduce LDL and lower risk of cardiovascular disease.
Type 2 diabetes	Several polyphenolic compounds, anthocyanins being the most substantiated, are associated with both the prevention and management of type 2 diabetes through protection of beta cells from glucose toxicity, anti-inflammatory and anti-oxidant effects, slowing of starch digestion and regulation and altered transport of glucose, leading to better glycemic control.
Obesity	Polyphenols like catechins, resveratrol and curcumin are associated with anti-obesogenic effects, potentially through adipocyte oxidation, inhibition of lipogenesis, reduction in inflammation, and increase in energy expenditure, leading to improved weight loss and maintenance.
	A number of polyphenols have been shown to have protein-binding properties that can inhibit starch, lipid and protein digestion in the gastrointestinal tract by interacting with and inhibiting digestive enzymes.

Source: Hannah Cory et al. (2018)

#### Conclusion

The phytochemicals in individual millets have to be studied exhaustively, though there are several studies on phytochemicals in fruits and vegetables. There is a need to explore the possible potential utilization of millet grain food formulations and product development, so that the therapeutic uses of the millets can be validated and their health benefits can be ascertained.

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dian Women in Present Context

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locality. Proper monitoring of the work of health workers is need institutions such as PHCs/CHCs/Sub-centers in their villages/ working in rural areas. Government should built medical as well as in private sectors rather than in public health systems aredical professionals intend to give their services in urban areas characterized by the poor health care facilities. Most of the Jacilities at door step. Rural areas in our country are riving in rural areas may get basic health care services and of south care and suggesting measures so that people gnibivorq ni equg shi gnibnit ni eqled IL sansoilingie ibeng to one notinition of health delivery systems and their utilization are lands and sinsbnogsor to shiming and espendents to sixyland solilized and found health care services and facilities had a negative attitude for government health care services and of the sovernment series and the sovernment services and to through the study majority of IZI .....idead by women availing health care services in Kashi.... 151

care services in Kashi Vidyapeeth Block, Problems faced by women availing health

and facilities. Some kind of myths, old beliefs and customs and does not have much awareness about the health care services Majority of India's population are villagers and live in rural areas rural areas are availability and accessibility of health care services. as compared to urban areas. The challenging task or problems of the nation? Health care indicators have poor quality in rural areas then how they can contribute in the growth and development of economic growth of the nation. If our citizens lead unhealthy life Health care is directly linked with human development and the down. India has made relevant growth in improving health care. schieved in the cities, the overall growth of the nation will slowreach the rural areas so no matter how much development is population. When the necessary and basic health care does not Introduction-India is a developing country of 68.84% rural Research Scholar, Vasant Kanya Mahavidyalaya, Kamachha those persons were included in the sample who had availed health

vino. size was 100 and all the respondents were size signing.

area is Kashi Vidyapeeth Developmental Block, Varanasi. The

was used for the selection of population for the survey. The study

through interview schedule method. Random sampling method

services in Kashi Vidyapeeth Block, Varanasi. Data was collected

analyze the problems faced by women availing health care

communication and resources. Objectives of the study was to

poverty, some of the myths, old beliefs, and lack of

health care facilities and awareness such as lack of education,

and facilities. Many factors are responsible for existing gap in

does not have much awareness about the health care services

of Indian population are villagers and lives in rural areas and

and facilities to the rural population is challenging task. Majority

improving access and availability to basic health care services life. India has made rapid growth in improving health care. But

to the development to insmit of the diality of growth of the nation will slow-down. Health is an essential

how much development is achieved in the cities, the overall

basic health care does not reach the rural areas so no matter

(According to the 2011 census of India). When the necessary and

India is a developing country of 68.84% rural population

\*\* Dr. Сетіта Прасімау

\* Mahajabi Fatma

Associate Professor, Vasant Kanya Mahavidyalaya, Kamachha

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and remove the barriers of health.

Social marketing could increase the rate of use of health care services in rural and remote areas. High rates of maternal and child morbidity and mortality shows the failure of rural health care system in India. Problems of India's rural health care system are inadequate and there is low utilization of available health care services due to low awareness or lack of awareness. Awareness as defined by Cambridge Dictionary "Knowledge that something exists, or understanding of a situation or subject at the present time based on information or experience. Awareness can be defined as the state or condition of being aware; having knowledge

Awareness towards health care services increases the chances and rate of accessibility of these services.

Attitudes are based on experience. If the patients or villagers do not have good or satisfactory health care services so their attitudes towards health care services are not positive. Awareness and attitudes both are affected by each other.

Attitude is defined as a pre disposition, toward any person, ideas or objects; it contains cognitive, affective and behavioural components. (Zimbardo et. al,1970)

Concept of Health-Health is the issue of social justice and wellness. The concept of human being's health for different groups varies according to their customs and culture but the main theme is that Health is soundness of body and mind; it is a condition in which body's functions are duly and efficiently discharged. The widely accepted definition of health is given by World Health Organization (1948)" Health is state of complete Physical, mental and social well being and not merely an absence of disease or infirmity and the ability to lead a socially and economically productive life". Health has many dimensions and each are dependent to other. These dimensions are important. The dimensions of health are affected by circumstances in which population or group exists and survive. Few dimensions are as followed-physical, mental, nutritional, environmental, educational, socio-cultural, economic, spiritual and emotional, preventive and

curative.

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Concept of Health Care-Health care is an impression to concern for human. Health care have many characteristics such as appropriateness, comprehensiveness, adequacy, availability, accessibility, affordability and feasibility (Park, 2008).

Health Care Delivery System-In India health care delivery system is planned by Bhor Committee. Health care delivery provides many kind of health care services that are low-price and have the basic essential required by population. Health care including only medical care but also services for promotion of health, prevention of diseases, early diagnosis and rehabilitation and eradication. In India health care delivery system are divided into three tier systems. They are -

Primary Health Care-Primary health centres plays important role in the community. This is the first health care level where the patient reports. Primary health care centre provides essential health care. It has also three levels depending on the population and area. (Park, 2008)

- Village level [1,000 population] 1.
- Sub-Centre level [3,000-5,000 population]
- Primary health centre level [20,000-30,000 population] (Park, 2008)

Secondary Health Centre-It deals with severe health problems. It gives the essential curative services by the district hospitals and community health centres.

Tertiary Health Centre-It serves super specialty care of health. This kind of care is provided by the regional/central level institutions. This level of health care system provides planning and management of education and training of specialized staff and also supports the actions of primary level health care.

The total population of women in U.P. are nine crore fifty three lacks thirty one thousand eight hundred and thirty one (95331,831) and the total rural population are fifteen crore fifty three lacks seventeen thousand two hundred and seventy eight(155317278) and total number of female literates in Uttar Pradesh are four crore sixty one lacks sixty two thousand five

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hundred and ninety one (46162591) as per Census 2011. The access to health services of women is much lower than men. The underlying reason being their lower status in family and lack of decision-making power regarding health care and expenditure on health care and none availability of health care facilities prevent them from seeking medical help. The awareness of acceptable levels of discomfort for women and men lead to gender differences in willingness to accept that they are ill and seek care. Women wait longer than men to take medical help in case of illness. Access to health care is increasingly different for rapid growth of people because of the lack of concern of the government to recognize health care as a national priority. Health care access is affected by physical, financial and socio-cultural factors. Price of care is an important factor that severely affects access to quality health care services.

Geographical distance is a strong barriers to access health care in India especially remote areas. It becomes more crucial for pregnant and very old persons living in remote areas to access. Inaccessibility to health care centres, lack of health staff, lack of hygiene and lack of drugs are common feature in our country. A number of researches show that wherever good public health services are available and functional they are definitely accessed and used by people, especially the poor. Patients are frequently dissatisfied with the quality of care and services.

Objective- To analyze the problems faced by women availing health care services in Kashi Vidyapeeth Block, Varanasi.

Methodology-Data was collected through Interview-Schedule Method. Random sampling method was used for the selection of population for the survey. Only those persons were included in the sample who had availed health care services and facilities at one or more time. The study area is Kashi Vidyapeeth Block Varanasi. Kashi Vidyapeeth Block is linked with Varanasi.

Results and Discussion- Uttar Pradesh is one of the least developed state in India in terms of socio-economic and demographic terms concluded by many studies. The population of Uttar Pradesh can be considered as a young population as a

high proportion is underage. 42% of the population is younger than 15 years and 5% is older than 65 years. The median age at first marriage in U.P. is 16.2 years for women and 20.1 years for men. Of the married women, 59% got married before the legal minimum age of 18 compared to 51% of the men.

Distribution of respondents according to their age.

(Vears)	Number of Respondent	Percentage (%)
Age Groups(Years)	52	52
21-30	32	32
41-50	16	16
	100	100
Total		

Majority of respondents (52%) were between 21 to 30 years age group. Majority of respondents are 52% per cent among total number of respondents.

Distribution of respondents according to the monthly income of the family

Income(Rs.)	Number of Respondents	Percentage (%)
Below 5000	21	21
5000-10000	36	36
10000-15000	06	06
15000-20000	15	15
20000 & above	22	22
Total .	100	100

Majority of respondents had monthly family income Rs.5000-10000. Monthly Income of family is an important factor to decide the kind of health care they will receive. It is well known that increased income of the family has a positive effect on the utilization of modern health care services. The occupation of husband can be considered a substitute of family income, as well as social status of the family. Differences and variations in attitudes to modern health care services by occupational groups represent occupation as a pre disposing factor.

Studies show that socio-economic indicators such as place of residence, life style, household income and occupational status have also been strong predictors of a woman's likelihood of using reproductive health services.

Distribution of respondents according to the occupation of

#### their husband or herself.

Number of respondents	-
06	Percentage (%)
19	06
06	19
60	06
09	60
100	09
	19 06 60 09

Maximum number of respondents or their husband were Daily Wage Earner. Joshi, Krupal et al.(2013) showed that 22% were labourer, 21% were unemployed, 18% were students, 4% were having some kind of business and only 2% were serviced among 100 respondents.

In contrast, present study shows that the maximum number of respondents are Daily Wage Earner, 19% are occupied by service, 6% respondents are agricultural labourers, 6% respondents are commercial trader and 9% are having other kind of occupation.

Distribution of respondents according to their contact for health care in case of illness.

Contact for health care District Hospital	Number of Respondent	Percentage
CHC/Rural Hospital/PHC	13	13
Government Mobile Clinic	08	08
Private Hospital/Clinic	08	08
Total Tospital/Clinic	71	71
- 0 101	100	100

Majority of respondents contacted in Private Hospital/Clinic in the case of illness due to geographical barriers.

A study says that in rural areas people need to travel greater distances to access different points of health care delivery system. In rural areas health care facilities and services are small and often provide limited services, in India due to geographic distance, climatic and environmental barriers, lack of public transportation and challenging roads, may be limiting and lower the possibilities of accessing health care services.

5. Distribution of respondents according to the medical services they availed during their visit to the health centres.

Medical services availed at	Number of Respondent	Percentage(%)
health cents	51	51
Yes	49	49
Total	100	100

Majority of respondents had received the medical services for which they visited health centres.

Sharma, Arvind et. al,(2014) found that, most of respondents were satisfied with sitting arrangement, cleanliness, convenience to reach investigation site, appropriate signage, symbol, arrows in respective departments, consultants chamber, lab and pharmacy counters present in hospital OPD, but only 50% respondents were satisfied regarding convenience to reach pharmacist. Respondents were mostly unsatisfied with toilet and drinking water facility in OPD.

6. Distribution of respondents according to their satisfaction with the treatment in PHC/CHC/Sub-Centres.

Satisfaction with the treatment in PHC/CHC/Sub-Centres.	Number of Respondent	Percentage(%)
Yes	30	30
No	70	70
Total	100	100

Maximum number of respondents (70%) had not been satisfied with the treatment of PHC/CHC/Sub-Centres.

Kumari, Ranjeeta et.al, (2009) tried to show the Patient's satisfaction regarding treatment which they availed at PHC/CHC/ District Hospital/Medical College. Her study showed that 33.3% respondents were satisfied by the treatment of PHC and, 20% respondents were satisfied by the treatment of District Hospitals and 68.3% respondents were satisfied by the treatment of Medical College.

Reasons for dissatisfaction with the treatment in PHC/CHC/ Sub-Centres.

Problems	a landa (550/) had been received
- Carimur	n number of respondents (55%) had been received
Maximu	about health care facilities by Television.  The Sodani, Prahlad Rai study revealed that the
information	about mentarous and about the
Ille madie	og to Sodani, Prahlad Rai study revealed that the

According to Sodani, Prahlad Rai study revealed that the source of information about health care facilities were their

neighbour and family members/relatives.

Distribution of respondents according to their satisfaction regarding availability of medicine.

Satisfaction regarding medicine	Number of Respondent	Percentage(%)
Yes	26	26
No	74	74
Total	100	100

Maximum number of respondents (74%) were not satisfied regarding availability of medicine.

According to K, Padmaja et.al, (2005) study viewed that the availability of medicine in Kodungallur district are 47% and in Chittur district is partially available by 71%.

As far as the quality of medicines is concerned, 55% in Kodungallur divisions were satisfied with the quality of medicines. But in Chittur division, only 28% showed complete satisfaction and nearly 1/3rd of the both divisions were not satisfied with the quality of medicine.

10. Distribution of respondents according to availability of diagnostic tests at the health centres.

Availability of diagnostic tests	Number of Respondent	Percentage
Yes	08	08
No	16	16
Sometimes	33	33
Never	43	43
Total	100	100

Majority of respondents (43%) had never received free diagnostic test during treatment period from government health centres.

Kumari, Ranjeeta et.al, (2009) found that the satisfaction regarding Examinations at PHC level were 53.2% respondents were satisfied, at CHC level 75.7% respondents were satisfied,

Reasons for dissatisfaction	Number of Respondents	P
Accessibility	stespondents	Percentage
• Easy	12	° ·
Not easy		
Waiting time in	88	12
PHC/CHC/Sub-Centres		88
• <30 minute	20	
• >30 minute	32	
Behaviour of	68	32
Doctor/Paramedical Staff	45	68
Separate Place for		45
examination		
• Present		
<ul> <li>Examination</li> </ul>	03	
Verbal directions given 6	40	03
redicines	10	40
acilities for		10
nvestigations/operation		
• Present		
<ul> <li>Not present</li> </ul>	41	4i
xplanation about	59	41
• Disease		59
• Treatment	42	
	34	42
Accessibility of PHC		34

Accessibility of PHC/CHC/Sub-Centers were not easy and that was the major reason of dissatisfaction of treatment. Another reason of dissatisfaction were facilities for investigation/operation

Some other studies, Kumari Ranjeeta et al (2009) and Sharma Arvind et al (2014) found in own study that accessibility of PHC/CHC/Sub-Centers is the major cause of dissatisfaction and unavailability of diagnostic facilities is another reason of dissatisfaction with the treatment.

Distribution of respondents according to their source of information about health care facilities.

Radio Television	Number of Respondent	Percentage
Newspaper	55	10
ANM	30	55
otal	5	30
	100	5
	700	100

at District Hospitals 38.9% respondents were satisfied and at the Medical College 87% of respondents were satisfied.

Conclusion- The success regarding improving and increasing the accessibility of health care services and facilities depends in part on achieving a local understanding of the dimensions and determinants of access to health services, along with determining factors attempts to improve services for the poor. Number of innovations in services of delivery and regulation of care that take promise for improving access for the poor.

The accessibility of health care is important for women because women's body changes throughout her life span, from fetal development to the age of post menopause. Women use medical services more during their reproductive years. Women also face huge economic, social and cultural barriers to having life-long good health. The researches show that the educational level and place of residence has direct role in morbidity and mortality of women. It has been found that children of illiterate mothers are twice undernourished as compared to the children of literate mothers. Today India's maternal mortality rates in rural areas are among the world's highest. From a global perspective, India accounts for 19% of all live births and 27% of all maternal

Mahmood, Atif et.al,(2014) found in his study that according to the people, the major reason for not getting the expected health care services is the cost of care (84%) followed by lack of sufficient information or awareness regarding the disease process (74%). Accessibility to health services is also one of the important barriers in seeking health care satisfaction

Here, the points which are important in improving the accessibility of health care services and also helping in changing the attitudes both towards health care services-

Medical Institutions should be made such as PHCs and other governmental dispensaries near the patients reach or residential area.

Medical Institutions make policies and schemes to should

aware and educate the people for their facilities of PHC/CHC/ Sub-Centres in their villages/locality.

Government policies and schemes should motivate and promote people to send their females for higher studies.

Medical Institutions should make easier accessibility and utility of the medical facilities.

Medical Institutions should maintain sanitation and recruit, educated, practiced and responsible doctors and staffs.

Medical Authority should take proper inspection to the attendance of ASHA and ANM and ask proper report for the work of health workers.

Ministry of Health and Medical Institutions should aware people for the immunization and vaccination to reduce the rate of infant mortality.

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#### विजय लक्ष्मी शर्मा

विद्वान अध्यापक पिता स्व. गौरी शंकर शर्मा एवं संस्कारवान विदुषी गृहणी स्व. विनोदनी शर्मा की पुत्री तथा आयकर-विभाग से सेवा निवृत्त डिप्टी किमिश्नर श्रीयुत सी. रामबाबू की पत्नी डॉ. विजय लक्ष्मी शर्मा प्रारंभ से ही बहुमुखी प्रतिभावान मेधावी छात्रा रही हैं। काशी हिंदू विश्वविद्यालय से

विज्ञान की स्नातक उपाधि प्राप्त करने के उपरांत इन्होंने यहीं के इतिहास विभाग से प्रथम श्रेणी में इतिहास की स्नातकोत्तर उपाधि प्राप्त करने के उपरांत विज्ञान के इतिहास जैसे अनछुए चुनौतीपूर्ण विषय को अपने शोध अध्ययन का आधार बनाते हुए प्राचीन भारतीय इतिहास संस्कृति एवं पुरातत्व विभाग से प्रातः स्मरणीय प्रो. एच. सी. भारद्वाज के निर्देशन में अंतर्राष्ट्रीय पिरप्रेक्ष्य में प्राचीन भारतीय विज्ञान विषय पर शोध उपाधि प्राप्त की जिसके, लिए उन्हे बी.एच.यू. एवं भारतीय इतिहास अनुसंधान पिरषद, नई दिल्ली से किनष्ठ छात्रवृत्ति भी प्राप्त हुई। उनके इस शोध ग्रंथ को भारतीय इतिहास अनुसंधान पिरषद के द्वारा प्रकाशित करने हेतु आर्थिक अनुदान भी दिया गया। 'तत्पश्चात् डॉ. शर्मा ने 'भारतीय विज्ञान अकादमी', नई दिल्ली द्वारा प्राप्त वरिष्ठ छात्रवृत्ति की सहायता से "Tools, Appliances and equipments" विषय पर Post Doctorate किया। उनका यह कार्य भी पुस्तक के रूप में प्रकाशित हो चुका है। डॉ. शर्मा ने भारतीय इतिहास अनुसंधान परिषद एवं विश्वविद्यालय अनुदान आयोग नई दिल्ली की सीनियर फेलो, पोस्ट डॉक्टोरल फेलो एवं रिसर्च एसोशिएट के रूप में भी शोध किया।

वर्ष 1991 में उ.प्र. लोक सेवा आयोग इलाहाबाद के द्वारा अपनी वरिष्ठता सूची में प्रथम स्थान पाकर चयनित होकर आप राजकीय सेवा में आई एवं विभिन्न महाविद्यालयों में कार्य करते हुए आप वर्तमान में पं. क. प. त्रि. राजकीय स्नातकोत्तर महाविद्यालय चन्दौली के इतिहास विभाग में एसोशिएट प्रोफेसर के रूप में कार्यरत हैं।22 नवम्बर 2013 से 13 मई 2016 तक आपने यहां प्रभारी प्राचार्या का भी दायित्व वहन किया तथा महाविद्यालय के इतिहास में प्रथम बार ''नारी अस्मिता एवं सुरक्षा'' जैसे संवेदनशील विषय पर राष्ट्रीय संगोष्ठी का सफल आयोजन करवाया एवं उसके चुनिंदा शोध पत्रों को 'नारी चिंतन के विविध आयाम' पुस्तक के रूप में सम्पादित किया। आपके अनेक शोध पत्र विभिन्न राष्ट्रीय एवं अंतर्राष्ट्रीय पत्रिकाओं में प्रकाशित हो चुके है।



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# Skill Development in India: Need And Challenges

Dr. Garima Upadhyay\*

Skills and knowledge are the driving forces of economic growth and social development for any country. Countries with higher and better levels of skills adjust more effectively to the challenges and opportunities of world of work. As India moves progressively towards becoming a 'knowledge economy' it becomes increasingly important that the country should focus on advancement of skills and these skills have to be relevant to the emerging economic environment.

**OBJECTIVES**: Following are the Objectives of the study: To highlight the background and need of skill development in India.

To overview the trends in skill development in India.

To study the challenges with focus on India

To suggest measures to overcome the hurdles of attaining the target of Skilled India.

METHODOLOGY: This paper is based on the secondary data on skill development with special reference to Indian context. Data has been collected from annual reports, various books, journals and periodicals several reports on this particular topic and internet surfing for content analysis.

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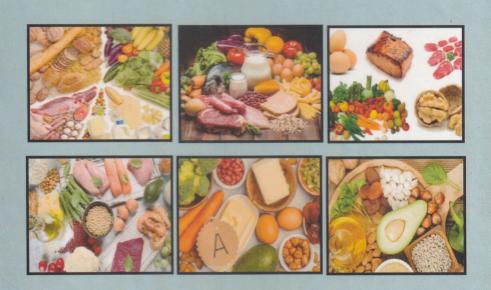
<sup>\*</sup> Assistant Professor, Home-Science, Vasant Kanya Mahavidyalaya, Kamachcha, Varanasi, U.P.

# कोशल विकास

भारतीय परम्परा के नेपथ्य में

विजय लक्ष्मी शर्मा

# Nutrition and Human Health



Anamika Chauhan Preeti Kumari



Dr. Anamika Chauhan is presently working as an Assistant Professor, Department of Home Science in Chamanlal PG College, Haridwar (Sridev suman Uttarakhand University). She has obtained her Master Degree from HNB Garhwal University, with rank, taught briefly in Department of Home

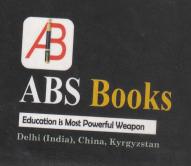
Science, HNB Garhwal University. She has many year research experience in Home science and submitted her Ph.D. Thesis in Home Science at HNBGU. She has also Master Degree in English, political Science and Education subject, UGC NET (Home science), USET (Home Science), M.Phil. (Home science). She was initially in Govt of Uttarakhand, School Education Department. She was also awarded young scientist award by UCOST and Teacher's Excellence Award" by Motherhood University, Haridwar (Uttarakhand). As Faculty in Home Science, she teaches core and elective courses of Home Science, Developmental Psychology, Nutrition. She was member of Board of Studies of the University and was in core team of revision of present syllabus of Home Sciences of the University. She is also life time member of Indian Science Congress Association, Kolkata, Scientific and Technical Research Association (STRA) and Home Science Association of India. She has many research papers in peer reviewed reputed national and international journals, Edited Books, chapters in Books on Home Science. She has also been associated with, workshops and conferences.

Her research interest and areas ranges across Right to Education, Nutrition, developmental psychology and elements of the best practices that contribute to the efficient and effective functioning of the institution, organization management, student support and progression.



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#### Nutrition and Human Health

By: Dr. Anamika Chauhan Prof. Preeti Kumari

Currently Covidacross the globe. ] maintain good nutrit Nutritional status o factors such as age, medications. Nutriti used as resilience to COVID-19 pandemi nutrient intake imp the only sustainable is to strengthen the is always importar even more importa of nutritious foods system. The early were a period of in food essential for and saw the disc minerals, amino a 1941, a group of and medical scient discipline of nutrit established. Our mission ce the scientific study of to the maintenance of Nutrition is an update for the study of human as changed, all authors es are necessary and we ments of some chapters. at universities across the s the role of diet in health ed, the sequencing of the hted the narrower range biology, emphasising the he environment including over, we now recognize the ys in interacting with our n the immediate period of study of human nutrition ysiology and biochemistry that is the basis of the The present edited book is eds. Firstly, many will use n to human nutrition and n pharmacy, food science, food and science the like dules to human nutrition e ideas for further research like to thank all those with on this project.

Dr. Anamika Chauhan Prof. Preeti Kumari

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# Healthy Lifestyle and Sugar Intake: A Paradox

Dr. Garima Upadhyay\*

t is paradoxical to say that there is an increase in mismatch between science and tradition of eating specially related to healthy lifestyle and sugar intake. Healthy lifestyle means longevity without serious illness. This requires not only active life but also healthy diet. Keeping this in view, sugar being one of the most important components of human diet needs to be taken care of. But, in order to strike a balance between essentiality of sugar intake and healthy lifestyle there has to be an approach to reduce chances of morbidity. Thus, the present effort shall try to highlight the need for realization to overcome this

paradoxical

According healthy lifest of being serior diseases are possible and living that he not just about physical, ment

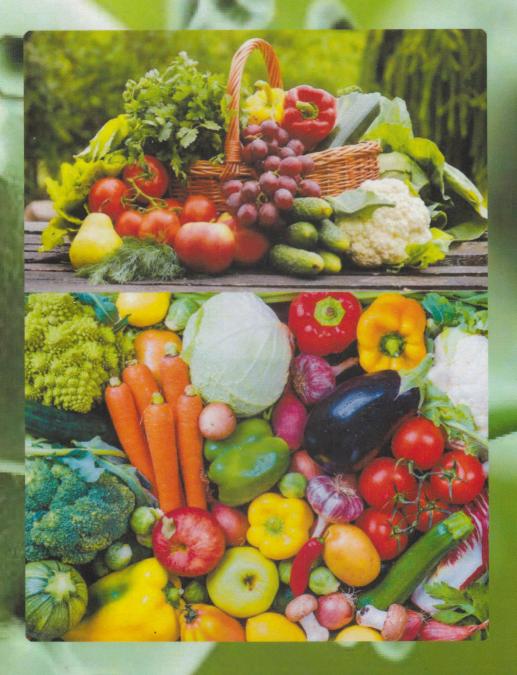
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The term "sı are those incorr fruit and vegeta galactose); and fr and disaccharide manufacturer, co present in honey concentrates. Bec adverse effects of sezars naturally p am the effect of int sear" is sometim but is consi ndded to foods du or at the table, bu mices (Johnson RK (SSBs) include the Trut drinks, and e

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<sup>\*</sup>Associate Professor (Food & Nutrition), Department of Home Science, Vasant Kanya Mahavidyalaya, Kamaccha, Varanasi

# Vegetarianism and Covid-19



Dr. Sangeeta Dr. Updesh Verma



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y parents, luring the

**Editors** 

### REINVIGORATING THE TRADITIONAL INDIAN DIET IN CONTEMPORARY TIMES

Dr. Garima Upadhyay\*

#### **ABSTRACT**

The pandemic attack of corona virus has compelled us to think about health and immunity. Practicing a healthy diet regime and opting healthy food has a protective and preventive role. Since ages Traditional Indian diet is scientific and has immunity boosting approaches. Indian food with variety and diversity becomes one of the most wholesome foods in the world with lots of health benefits. Recommended dietary guidelines according to physiological conditions and seasonal considerations are taken care of in the traditional Indian diet. This chapter will provide a valuable insights on the traditionally rich knowledge which was swept away due to more focus on modern therapies. Also studies from contemporary times have been used to rediscover the functional properties of traditional foods, their pre and probiotic effect, microbiota, immunity and wise use of fat in Indian diet. Now, with an increased demand in changing lifestyle and synthesization of therapies and knowledge; its high time that we should prevent compartmentalization of knowledge, keeping in mind the well being of society. Objective: Thus the present effort shall try to explore the recent trends for reinvigorating the traditional Indian diet in contemporary times, focusing on functional aspect, microbiota modulation and host immunity by traditional Indian diet. Methodology: The methodology presently used is literature review. A semisystematic review approach is used, as it could be a good strategy for example map from theoretical themes as well as identifying the knowledge gap within the literature. Thematic analysis is the technique used in present chapter. Result & Discussion: The traditional Indian diet has not only therapeutic but also preventive role. Apart from providing nutritional benefit it has curative effect. Current researches on functional food also support the view of curative effect of traditional Indian food, specially prebiotics and probiotics. It is never realized how a traditional thali is piled with such an ingredients. Conclusion: The wisest health decision we can make in today's time is to adhere to our Traditional Indian foods which will be essential to address the severe public health challenges linked to food and nutrition security of contemporary times.

Key words: Traditional foods, functional foods, probiotics, prebiotics, microbiota,

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