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"Literary review on Janapadodhvans with special reference to epidemic and pandemic."

Tambe Geeta Shridhar*¹ More Sangita Dnyanoba²

- 1. Associate Professor, Department of *Sharira Kriya*, Yashwantrao Chavan Ayurved Medical college, Aurangabad, Maharashtra, India,
- 2. Associate Professor, Department of *Sanskrit Samhita*, SVNHT'S Ayurveda Mahavidyalaya, Rahuri, Dist. Ahamadnagar, Maharashtra, India, email: sangita301182@gmail.com

*Corresponding Author: E-mail- saugeeta@gmail.com

ABSTRACT-

Epidemics means rapid spread of disease to a large number of people in a given population within a short period of time. An epidemic may be restricted to one location; however, if it spreads to other countries or continents and affects a substantial number of people, it may be a pandemic. The termed terms "epidemic" and "outbreak" have often been used interchange. In ayurvedic classic Samhita this term epidemic is described under context Janapadodhvans. Commentator chakrapani has explained two types of hetu(causative factor)for disease in the context of clarification of Janapadodhvans adhyaya after Trividhkukshi adhyaya. First is asadharan hetu i.e .common morbidity factors among the individuals with dissimilar constitution diet(aahar),physique(Bala),vitality (saatmya), mental health (mana) and age(aayu). Second hetu is common factors

which get affected result in simultaneous outbreak of diseases having similar symptoms that destroy communities called as sadharan hetu. These common factors are vayu(air)udak water) desh (land) and kala (season). Yuddha(war), Nuclear bomb, biological war etc. are manmade calamities are also causative factors for Janapadodhvans. Considering above concepts, a detailed review is done from Ayurvedic classics and possible framework in regard to concept of epidemic pandemic and preventive measures in Avurveda.

KEY WORDS - Janapadodhvans, adharm, rasayana, epidemic in Ayurveda

INTRODUCTION-

Janapadodhvansa literally means destruction or annihilation of communities or settlements¹. Epidemics and outbreaks of highly communicable diseases have blighted human being since time immemorial. In Ayurveda Acharya Sushruta and Charka recorded

their works on aupasargika roga² and janapadodhvansa³ respectively, according special importance to the topic. Acharya Charka described out the causative factors of janapadodhvansa (epidemics),

characteristics of vitiated factors and remedial measures to treat the conditions in the third chapter of vimansthana as janapadodhvansaniya adhyaya.4The social hygiene aspect is also mentioned in this chapter. Acharya Sushruta refers to the concept of janapadodhvansa while discussing ritucharya (seasonal regimen) the title *Maraka*.⁵ under In Ashtangsangraha, the concept of janapadodhvansa was described under the chapter viruddhanna vijananiyam⁶.

A pandemic (from Greek word- pan, "people") is and demos, epidemic of an infectious disease that has spread across a large region, for instance continents worldwide, multiple or number affecting a substantial people7. Now a day's Coronaviruses (CoV) are a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS-CoV) and Severe Acute Respiratory Syndrome (SARS-CoV). A new strain of coronavirus (SARS-CoV-2) causes Coronavirus disease 2019, or COVID-19,-which declared was pandemic by the WHO on 11 March 2020.8 so the current burning topic of epidemic is described in an ayurvedic point of view.

AIMS AND OBJECTIVES-

1. To disclose the concept of epidemic and pandemic in *Ayurveda*.

2. To discuss the preventive measures of epidemics, explain in *Ayurveda*.

MATERIALS AND METHODS:

As this is review article, the concept is thoroughly explained with the help of *Ayurvedic Samhita* like *charaksamhita*, *sushrutsamhita*, *ashtangsamgraha* and also recent update from website.

DISCUSSION-

Causes of janapadodhvansa:

The primary cause for vitiation of this factors is Adharma (unrighteousness activities). Astkarma (Sins of the present life or the misdeeds of the past life) also are at the root of vitiation of all these factors and the source of this is intellectual error (prajnaparadha)⁹. Thus when the reigning heads of countries, cities, trade guilds etc. govern the people transgressing irresponsibly by virtuous path, then their officers, suband undersubordinates. people of the city and community and traders deviate from their duties as well and propagate such unrighteous acts further. Their sinful acts perforce cause the righteous acts to disappear. Because of the disappearance of righteous acts, even the Gods desert the people living in such places. This causes seasons to get impaired in these places. There is no rain in time, or never at all, or abnormal rain occurs; the air does not blow properly; the land is afflicted, the water reservoirs dry up, and herbs lose their true properties and suffer deterioration. As a consequence, the people perish as the result of infectious contact or ingestion of polluted food and water. 10 Polluted air, water, land and seasons are basic factors for janapadodhvansa.

Characteristics of air (Vayu) pollution¹¹-

- 1. the air that is not in conformity with season[visham]
- 2. Totally calm or violently blow [Atichal]
- 3. Exceedingly rough [Atiparush]
- 4. Intensely cold, intensely hot, excessive hot [*Atisheet,Ati-ushna*]
- 5. excessive humid [Atiabhishandi]
- 6. Terribly clamorous [*Atibhairav*]
- 7. Blowing from contrary direction and clashing with each other [*Pratihatparaspargati*].
- 8. associated with bad odour, moisture, dust, sand and smoke [Asatmyagandh,bashpa,sikata,pa nshudhumophat]

Characteristics of polluted water $(jala)^{12}$

- 1. water that does not seem normal in smell, colour, taste and touch [Atyarthvikrutgandha, varna, sparsha,].
- 2. Excessive stickiness [Kledbahula]
- 3. devoid of aquatic animals and birds[upakrantjalacharavihangam].
- 4. Drying up of water reservoir [*Upakshinjaleshaya*].
- 5. Without pleasantness [Apritikar]
- 6. the water devoid of normal attributes indicates polluted water [Apagatgunam].

Characteristics of polluted land ¹³

- 1. Any land having abnormal colour, odour, taste and touch [Vikrutgandha, varna, rasa, sparsha]
- 2. Abundance of serpents, beasts, mosquitoes, locusts, flies, mice, birds and animals [Sarisrupvyalmashakshalabhmaks hikamushakkoluetcbahula].

- 3. where water reservoir always alters and are over-flowing[udirnasalilashayam] frequent exposure to meteorite, thunderbolts and earthquake [pratatulkapatnirghatbhumikamp a]
- 4. where nature is full of menacing sound sights[atibhayarupam]
- 5. where sun, moon and stars are frequently covered by dry, grey cloud.

 [Rukshaaarunabhrajalsanvrutam]
- aarkachandratarak]6. general atmosphere is of constant

confusion

[guhyacharitamiivaakranditam]

Characteristics of polluted season(kala):¹⁴

What time is said to be unwholesome if it exhibits characteristics that are opposite to normal or exhibit excessive or deficient characteristics [kalamlingaviparitamalingamatilingamhi n lingam] (e.g. early rain, too little rain, excessive hot summer or cold winter, etc)

These four environmental factors can be e considered the types that cause epidemics. In Sushruta Samhita Acharya described marak vyadhi under context of Rutucharya Adhyaya. Acharya explain all the hetu(causes) which are similar to charakacharya. Shushrtacharya explain new concept that; if rutu is in avyapanna state (Ordinary state of season), there is situation of epidemic due to adharma. Due to inhalation of vishyukta vayu (poisonous air) peoples are affected with like symptoms kasa(cough), shwas (difficulty breathing), in shiroruja (headache) jwara(pyrexia), vaman (vomiting). 15

Mode of transmission of communicable diseases according to *Ayurveda*

Acharya Sushruta, one of the proponents of Ayurveda, has depicted different modes of communicable disease transmission classical his treatise Sushrut Samhita. 16 He says by physical contact (Gatrasansparshat), exhaled air (Nishvasat), eating with others in same plate (Sahabhojanata), sharing a bed (Sahasayyasanaccapi), garlands, using clothes. and paste (Vastramalyanulepanat) infectious diseases spread from person to person. (pyrexia), Kushta. jwara shosh (pulmonary consumption), netrabhishynda (conjunctivitis) and other diseases (incidental aupsargika influences of malignant planet or due to the effects of impious deeds) are communicated from one person to another.¹⁷ Commentator *Gaydas* mention the aupsargik roga are caused due to Adharma. 18

These concepts are very much relevant today. There are several changes that may occur in an infectious agent that may trigger an epidemic. The conditions which govern the outbreak of epidemics include infected food supplies such as contaminated drinking water and the migration of populations of certain animals, such as rats or mosquitoes, which can act as disease vectors. Certain epidemics occur at certain seasons. For example, whooping-cough occurs in spring, whereas measles produces two epidemics, one in winter and one in March. Influenza, the common cold, and other infections of the upper respiratory tract. such as sore throat, predominantly in the winter¹⁹. These all

factors are described by *Acharya charka* and *Sushruta*.

Preventive measures for epidemics according to *Ayurveda*

Well in *Ayurveda* main *chikitsa* (treatment) of any *vyadhi* is *nidanparivarjan*²⁰. It means. factors which are responsible for generating disease is to avoid their consumption is the prime factor for prevention.

- 1. As per Acharya Sushruta we have to maintain social distancing avoiding close contact with anyone showing symptoms of respiratory illness such as coughing and sneezing [gatra -asparsh socially], covering mouth and nose when coughing and sneezing or use mask on face [anishwas],do not share anything with others .do not go to social places otherwise it is important in covid-19 pandemic²¹ in today's era these important preventive measures are discussed in Ayurveda.
- 2. Truthfulness, compassion for living beings, charity, sacrifices, worship of god, observance of right conduct, tranquillity, prophylactic protection of oneself and seeking one's own good, residing in a wholesome country, service to those observing brahmacharya (celibacy) and following it, discussion of scriptures, religious constant association with the righteous, the well disposed and those who are approved by the elders- all this with a view to protecting life has been termed 'medicine'.²².
- 3. *Dinacharya* (daily regimens) that should be followed by a person for healthy living. The tenets of personal hygiene, oral hygiene and hygiene of sense organs should be maintain

through ayurvedic the certain health procedures to preserve like abhyanga (massage), dhumapana (inhalation of smoke/vapours), nasya (nasal errhines), kavala and gandusha (methods of gargling), karnapurana (applying oil in ears), anjana (collyrium)etc²³

4. Rutucharya (seasonal regimen) seasonal regimen of diet and lifestyle for preservation of health. The year is divided into seasons based upon the changes in environmental conditions, temperature, day-night cycle and circadian rhythm. Being an integral unit of the nature, these seasonal changes in nature affect human physiology too. Therefore, one must follow the specific regimen for maintaining the equilibrium of body components in harmony with nature. The seasonal regimen is designed based on changes in the dosha, bala (strength), and agni (digestive power)²⁴.

Prophylaxis treatment for epidemics in *Ayurveda*:

- 1. one need not suffer from diseases provided they are assured of proper medicaments which are already collected and processed.
- 2. *Panchakarma* treatment (five elimination therapies viz *vaman*, *virechan*, *niruha*, anuvasana and nasya) are considered the best.
- 3. The proper use of *rasayanachikitsa* (rejuvenation treatment) is recommended and maintenance of the body by means of medicinal herbs collected before the onset of epidemics is recommended. Rasayana is the means of obtaining

the best qualities of body cells and tissues and is able to defeat aging and disease.

All rasayana are ojovardhaka i.e. promoter of ojas or immune strength the in body, imparting vyadhikshamatva i.e. immunity in the body. By promotive treatment, one attains longevity, memory, intelligence, freedom from illness, vouthfulness, excellence of complexion voice. lustre, and optimum strength of physique and perfection sense organs, deliberation, respectability and brilliance. Rasayana is the means of excellent attaining qualities of rasa etc. dhatus i.e. body cells and tissues²⁵. Some examples of rasayana bramhrasayan, chavanprashavaleha, aamlakrasayan²⁶

CONCLUSION:

From above discussion we can conclude that in ancient era there was also epidemic and pandemic disease which explained as *Janapadodhvans*. In today's epidemic like covid 19 we should follow preventive measures described in *Ayurveda* and future epidemic will be prevented by following *ayurvedic* protocol for maintain healthy state.

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