International Journal of Pharmaceutical research and Applications

Volume 8, Issue 6, Nov.-Dec. 2023, pp: 1879-1881 www.ijprajournal.com ISSN: 2456-4494

Concept of malingnacyfromayurvedic and modern perspective Asystematic Review of Literature

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Date of Submission: 04-12-2023 Date of Acceptance: 17-12-2023

Abstract-

Thisarticlecontains some valid interpretations of the sur gical explanations of the disease 'cancer' in terms of relative diseases in Ayurveda.

Modernoncologyisarapidlygrowingareainmedicine. Cancerisadisease diagnosed on the basis of cellular changes hence the objectivity takes lead.

The first accounts of cancer in the history of medicine can be seen in seven papyri from Egypt dating back to 1600BC. The term 'cancer' was coined by Hippocrates (ca.460BC -ca.370BC) in his corpus . The discussion in the Sushruta Samhita of the disease known as Arbuda has striking resemblance to tumour forming cancers, with vivid clinical observations differentiating it from other growths. There is no direct evidence revealing the understanding of non-tumour forming cancers in the tradition of Ayurveda .There is indication that the ancient physicians may have understood the correlation between chronic inflammation and cancer as 'Arbuda' (malignant tumour) considered to be an outcome of oedema or inflammation (shotha)

Cancer represents a significant economic burden for the global economy and is now the third leading cause of death worldwide by 2030, it is projected that there will be 26 million new cancer cases and 17 million cancer deaths per year. The aim of this article is to provide a general outline on descriptions of cancer or malignancy according to modern science as compared to Ayurveda in Sushruta Samhita.

Keywords-Arbuda, Ayurveda, Cancer, Granthi

AYURVEDICCONCEPTSOFCANCER-

Cancer is the deadliest disease of the 20th century and spreading further with the continuance andincreasing incidence in the 21 stcentury. Cancerisse condonly to coronary artery disease as being the most common cause of death all over the world. The disease Arbuda was mentioned during the Vedic

period. Sushruta Samhita describe cancer as inflammatory or non-inflammatory swelling and mention them as either 'Granthi (minor neoplasm) or 'Arbuda' (major neoplasm). Sushruta Samhita defines three body control systems, viz., the nervous system *vata* or Air , *Pitta* or Fire and the *kapha* or water which mutually coordinate to perform the normal function ofbthe body. In benign neoplasm (vataja,pittaja,kaphaja) one or two of three bodily systems lose mutual coordination and thus cannot prevent tissue damage, resulting in a deadly morbid condition. ^{1,2,3}

Ayurvedic classification of neoplasm depends on various clinical symptoms in relation to *Tridoshas*.

GROUP 1-

Mamsarbuda (melanoma) and raktarbuda ,mukharbuda (oral cancer)etc.

GROUP 2-

Diseases that can be considered as cancer, such as incurable ulcers with eg. *Tridoshaj gulma*(abdominal tumours) like carcinomas of stomach and liver or lymphomas.

GROUP 3-

Diseases with possibility of malignancy eg *visarpa* (erysipelas), *asadhya kamla* (incurable jaundice) and *nadi vrana* (sinusitis).⁵

NIDANASOFARBUDA-

Mamsavaha Strotodushti janya Nidana like Abhishyandi Bhojya(liquid),Sthula Bhojya (raw),Guru Bhojya (heavy food),Bhuktam cha swapatam Diva (Sleep immediately after lunch) can be considered as Samanya Nidana of Arbuda.Generally we can classify Nidana into

Vatakara Nidana as-

Mutations (90-95%), excessive mental stress , tension, frozen foods,soft drinks,smoking , Shoka ,

DOI: 10.35629/7781-080618791881 | Impact Factor value 7.429 | ISO 9001: 2008 Certified Journal Page 1879



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Bhaya , Raga , Sheeta Ruksha Ahara , Virudha Ahara etc.

Pittakara Nidana as-

Excessive consumption of Amla, Lavan ,Katu Ahara , lead containing foods , fried and spicy foods, Krodha , more caffeinated drinks , UV radiation , Cell phone radiation , physical factors like asbestos, cobalt etc., hormones like estrogen,progesterone etc.

Kaphakara Nidana (HPV.HIV.EPSTEIN -BARR virus. Kaposi', sarcoma herpesvirus, hepatitis A And C, parasities) obesity, diabetics. All available evidence in the contemporary literature suggests that the transformation malignant of predisposition ,chemical physical and carcinogens, viruses, radiation, hormonal changes, Diet etc.⁴

.AETIOLOGYOFCARCINOMAINGENERAL-1)Tobacco-

isthemostimportantfactorinthedevelopmentoflungca ncer, upperrespiratory tract cancer, gastrointestinal tract and genitourinary tract cancer.

2)Alcohol-

smokingandalcoholincreasesthepermeabilityoftheup perdigestivetract mucosa and respiratory mucosa to the carcinogens.thus,they increase the incidence of cancer

Hepatocellularcanceriscommonlyfoundinalcoholicci rrhotic liver.

3) Ionising radiation-

Atomicbombblastsinjapanhavedefinitelyresultedinin creasednumber of cases of breast cancer in premenopausal women and leukemia in children.

4) Ultravioletradiation-

causesalltypesofskincancers.

5)Geneticcauses-1)xerodermapigmentosa-

skincancer.

2)bloomssyndrome-

acuteleukemia, squamous cell carcinoma.

6)hereditarycauses

7) dietary factors-readmeat-

carcinomacolon, carcinomabreast. Fat-carcinoma breast, carcinoma colon.

8) Chemicals-

Benzanthracenes-skincancerwhenpaintedontheskin. Benzopyrenes-Lung cancer.

Beta naphthylamine-bladder cancer. Nitrosaminesandamides-cancerstomach. Asbestoslung cancer.sss

9)Viralfactors-

 $\label{thm:equiv} Human T-cellleukemia virus type 1 (HTLV-1); T-cellleukemia/lymphoma. (RNA virus)^2 \qquad Human$

papillomavirus(HPV)CA cervix,CA urogenital region.

Epstein-Barrvirus; Burkitts lymphoma. (6)

Types of Arbuda according to Acharya Sushruta

1)Adhyarbuda- when Arbuda occurs in pre-existing sites .

2)Dwiarbuda-If several similar growth types happen in various locations ,one by one or when two tumors arise at same time.

These types indicates the recurrence and metastasis to distal locations.

According to Modern CARCINOMA⁶

Origin-

1)Ectodermal-skin cancer.

2)Endodermal-gut cancer.

Mesodermal-renal cancer.

Types-

1)Squamous cell carcinoma.

2)Basal cell carcinoma.

3)Glandular.



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Туре	Laxanas	AggravatingFactors
VataGranthi/Arbuda		AggravatedVata,duetodryorstale foods,stress,insomnia,fatigue,etc.
PittaGranthi/Arbuda	suppurates quickly and exude warm blood	Aggravated Pitta, due to restlessness, spicyfood, overcontrolling, aggressive behaviour, etc.
	around is cold and itches. Suppurates slowly and	Aggravated Kapha is caused by too many fattyfoods,fastfoods,lackofmovement, lethargy.
		Aggravated Vata, Pitta, and Kapha circulatethroughthebloodstream, with PittaDoshabeingthemaincauseofthe disturbance
MamsaGranthi (Muscle tissue)/Arbuda	The large, oily, hard tumor tends tobe very vascular. Theyulcerate and bleede as ilyand often become malignant. Symptoms are similar to an imbalance of the Kapha Dosh	Excessiveconsumptionofwrongkindsof meat.
MedaGranthi(Fatty tissue)/Arbuda	Soft, fatty tumor, but movable. Symptoms similar to imbalanced Kapha Dosha, usually growinproportiontobodygrowth.Ifpricked, exudesacoppery,white,orblackfattyfluid.	
AsthiGranthi(Bone tissue)/Arbuda		Fracturesorinjuriestothebone, which accumulate Vata.
Sira Granthi (Channels)/Arbuda	Contracting, dehydrating, deformation.	Overexertion, severely accumulated Vata weakens the blood consistency, which enters the channels of the body

Conclusion-

During the study of comparing the modern and ancient science considering cancer we found that both science has done a relevant study in the field. *Arbuda* has the resemblance with the 'Cancer disease' considering the symptoms and *sadhyasadhyatva* mention in text.

So, *Arbuda vyadhi*mention in the ayurvedic text can be compare with modern disease Cancer.

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