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Nidan-Vichar (Etiopathogenesis Concept) In Ayurveda In Context To Cancer

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Abstract:

Ayurveda, the holistic system of medicine has strong basic concepts and fundamentals. *Hetu* (Causative factor), *Linga* (Symptomatology) and *Aushadha* (Treatment) are the three major components of whole treatment of any disease. The diagnosis in Ayurveda is not always in terms of the name of a disease, but is in the form of a description of the disease process depicting the pattern of vitiation of *Doshas* and *Dushyas*, the organs or *Strotas* involved. Acharya Charaka rightly proclaims that neither it is necessary nor it is possible to give name to every disease. What is necessary is to understand the exact nature of the disease process. The term Cancer is not found in Ayurveda directly, but it is possible to diagnose and manage the Cancer patients.

This paper is an attempt to understand the *Nidan vichar* i.e. Etiopathogenesis concept in Ayurveda for the diagnosis of a disease in context to Cancer. The same fact will be explained with the example of Cancer of female reproductive system. It also provides the Ayurvedic treatment approach and prevention of Cancer.

<u>Key words</u> – Ayurveda, *Nidan-Vichar*, Etiopathogenesis, Cancer, Female Reproductive System

Introduction

Cancer is a very threat full condition all over the world. Cancer incidence is increasing at an alarming rate. Worldwide, an estimated 19.3 million new cancer cases and almost 10 million cancer deaths occurred in 2020. The global cancer burden is expected to be 28.4 million cases in 2040, a 47% rise from 2020. Everyone knows that it is due to DNA damage but still unknown how this DNA damage occurs. However the cancer remains without a cure unless it is detected at a very early stage. Therefore researcher & scientist are turning to Ayurveda as an alternative therapy for cancer cure.

Ayurveda has strong basic concepts and fundamentals. *Hetu* (Causative factor), *Linga* (Symptomatology) and *Aushadha* (Treatment) are the three major components of whole treatment of any disease, [2] like cancer also. As mentioned by Aacharya Charaka "*na hi sarva vikaranam namo asti*" means exact nomenclature is not necessary for all the diseases. [3] It insists on diagnosis of constitutional status of the disease.

Patient comes to the physician with symptoms, on the basis of that, physician should think backward to the etiopathogenesis in terms of *Doshas*, *Dhatus*, *Malas*, *Srotas* and *Agni* involved in its manifestation. After deciding the nature of disease, physician should prescribe medicine according to them.

Ayurvedic approach to disease diagnosis

Diagnostics approach -

- 1. **Doshas** According to symptoms, analyze which *Doshas* are affected- *Vata*, *Pitta*, *Kapha*, *Rajasa* or *Tamas*. After that analyze the stage of each *Dosha* as
 - a. Vruddhi / Kshaya / Prakopa-vitiated / Prasara
 - b. Anshansha Kalpana- Way of aggravation and vitiation of Doshas i.e. by which Gunas, particular Dosha is vitiated
- 2. *Dushyas* Analyze which *Dhatus* and *Malas* are affected i.e. *Rasa*, *Rakta*, *Mansa*, *Meda*, *Asthi*, *Majja*, *Shukra*, *Mutra*, *Purish*, *Sweda* and other vitiable factors like *Oja*, *Kleda etc*.
- 3. Avastha- Analyze Sama / Nirama state of Doshas and Dushyas
- 4. *Adhishthana* Analyze the site of manifestation of disease i.e. Strotas.
- 5. *Samprapti* Analyze the way of manifestation of disease and *Strotodushti* like- *Atipravrutti*-hyperfunction, *Sanga* obstruction, *Sira granthi* nodules, tumours or new growth, *Vimarga gamana*-diversion.
- **6.** Agni- Analyze the state of Agni as Manda, Tikshna or Visham.

Treatment approach-

- 1. *Nidan-parivarjana* The first line of treatment is removal of the causative factors.
- 2. **Dosha-pratyanik chikitsa** After knowing which **Dosha** is vitiated by which **Gunas**, the drugs of opposite **Gunas** can be used.
- 3. **Dhatu pratyanik chikitsa** After knowing which **Dhatu** get affected by vitiated **Doshas**, the drugs of opposite **Gunas** of **Dhatu** can be used.
- 4. Apatarpana chikitsa Amadosha is predominantly treated by Amapachak drugs.
- 5. Shodhana chikitsa First all Doshas are brought into Niramavastha, then only Shodhan or purifactory measures are implemented.
- 6. Santarpana chikitsa is advised for Nirama avastha.
- 7. **Vyadhi pratyanik chikitsa** Identification of *Adhishthana* of a disease is important for launching specific disease oriented therapy i.e. *Vyadhi pratyanik chikitsa* in accordance with the concept of *Dravya Prabhav* irrespective of *Dosha* and *Dushya*.

Cancer in Ayurveda

Pathogenesis in Ayurveda is explained on the basis of *Tridoshas*. *Arbuda*, *Granthi*, *Gulma* which can be similar to the cancer term but they are not directly mention as cancer, their signs & symptoms are similar to that of cancer.

Out of all the varieties (i.e. *Vataja*, *Pittaja*, *Kaphaja*, *Mamsaja*, *Medoja*, *Raktaja*), *Raktaja* Arbuda resemble malignant tumor. Certain other types as- *Sharkarbuda*, *Adhyarbuda* & *Dwirarbuda* are described by Aacharya Sushruta. [4] It can be said roughly that *Adhyarbuda* suggests recurrence, while *Dwiradarbuda* suggests metastasis.

According to Amarkosha, *Arbuda* is a disease which grows very fast and causes either destruction of local tissues or body parts or even death. *Arbuda* have predominance of *Meda* and *Kapha*, *Vata* being responsible for cell division, aggravation of *Vata* resulting in proliferation. It is included in disorders due to vitiation of *Mamsa*, *Rakta* and *Meda*. It is a disease of vitiation of *Mamsa*, i.e. *Mamsavaha srotasa*.

Common Etiology of Cancer

It reveals the Dushti-Hetu of Raktavaha, Mamsavaha, and Medovaha Srotasa-[5]

- Meat and excessive alcohol, smoking, tobacco are coming under *Vidahi Anna*.
- Meat, eggs and milk products with high fat content produces carcinogens like azaserine etc. comes under *Abhishyandi*, *Snigdha* and *Guru Anna*.
- Sunbathing or working under high exposure to Sunlight, Ionizing radiation, certain chemicals, X-ray radiation or near fire and hot conditions (*Atapa-anala* group).
- Lack of physical activity or obesity- (Avyayam group).

- Growing older (Vata prakopa), low immunity (Ojo-kshaya), certain hormones, some viruses, bacteria and other microbes like HPV etc. are comes under Agantu hetu.
- Genetic factor- Genetic mutation and DNA damage comes under Bija-dosha and Daiva. Only about one percent of cancers are unmistakably inherited. However, the vast majority of cancers are attributable to above mentioned environmental risk factors.

Pathogenesis

Aggravated Doshas vitiating Mamsa, getting localized in any body part, produce a local swelling of deeply situated *Mamsa* due to its accumulation.^[4]

Atipravrutti, Sanga, Siragranthi and Vimarga-gaman type of Strotodushti occurs in cancer. The decrease in Agni leading to Ama formation. This ama obstruct the channels of circulation i.e. srotasas, result in overflow of the tissue nutrients in the opposite direction which may result in excessive tissue growth like nodules (Granthi and Arbuda). Diversification of the flow of strotas in an entirely different direction is also one of the possibilities.

Treatment for cancer as per Ayurveda-

Purifying or cleansing the blood and blocked channels with Panchakarma i.e. Shodhana chikitsa and with Ayurvedic herbal formulae i.e. Shamana chikitsa. Use of Visha-dravyas which has Ashukari property for this fast growing disease. Mamsayaha strotas chikitsa- Shastra, Kshara and Agni karma. In addition, Ayurvedic Rasayana or strengthening and rejuvenating therapy is quite beneficial. Role of Ayurveda in many ways like-

- Preventing cell damage through traditional ingredients (which contain antioxidants) such as Turmeric, Guduchi, Ashwagandha, Amla, Neem, Triphala, etc.
- Minimising the severe side-effects of aggressive chemo and radiation therapies.
- Exercise, Yoga and Pranayama performed regularly, provide an energy boost and also strengthen our immunity.
- Ayurveda can be used as a co-therapy with the chemotherapy and radio therapy.
- It is used for post surgery support, to prevent cancer cell's proliferation, to cure the tumors.

Cancer of Female Reproductive System

Here take an example of Cancer of Female Reproductive System. They can be diagnosed as per their signs & symptoms and can be treated according to them. Cancers can occur in any part of the female reproductive system—the vulva, vagina, cervix, uterus, fallopian tubes, or ovaries. These cancers are called gynecological cancers. Causes of Cancer of Female Reproductive System can be included in Causes of Yoni-Vyapada as following-^[6]

 \mathbf{S} Mithyachar Pradushta Artava Bija-dosha Daiva / God N Mithya-Aahar Mithya-Vihar Poor local hygiene, Mal or inadequate Artava refers to female sex Abnormalities of sperm Unknown Coitus in abnormal body diet hormones, ovum & menstrual or ovum or Idiopathic factor posture blood. Use of foreign body for Over eating Here Artava refer to hormones. Chromosomal 2. sexual orgasm abnormalities. Human Papilloma Virus 3. Over eating of Ovarian hormones are causative Family history or genetic non-congenial, un-(HPV), Herpes simplex factors for a good number of abnormalities hygienic and virus type 2 (HSV-2) gynecological disorders incompatible food including cancer. Late menopause (beyond 52 Corpus cancer STD like syphilis, Genetic inheritance syndromelymphogranuloma yrs.) is associated with Uterine (Lynch-II syndrome), hypertension venereum, chlamidia cancer mutation of BRCA I & II obesity& diabetes infection, early age of genes (Ovarian and (Uterine cancer) first pregnancy (Cervical Breast cancer) cancer) Exposure to talc and History of intrauterine exposure Familial cancer Use of coffee, tobacco, alcohol asbestos (Ovarian to (DES) diethylstilboesterol syndrome (Lynch type I associated with Vaginal cancer. and dietary fat cancer) & II) (Ovarian cancer)

Table 1: Hetus or causative factors of Cancer of Female Reproductive System

Table 2: Gynecologic cancer symptoms

Symptoms	Cervical	Ovarian	Uterine	Vaginal	Vulvar
Abnormal vaginal bleeding / discharge	*	*	*	*	
Pelvic pain/ pressure	*	*	*		*
Abdominal pain / back pain		*			
Bloating		*			
Changes in bowel habits		*			
Itching & burning of vulva					*
Painful micturition	*				
Painful intercourse		*	*		
Nausea, indigestion		*			

Abnormal vaginal bleeding / discharge are the main symptom found in all Gynecologic cancer.

Differential Diagnosis for Gynecologic cancer-[7]

Raktapradar, Raktaja Yonivyapad, Raktarbuda, Rajovruddhi, Pittaja Yonivyapad, Raktaja & Pittaja Rajodushti, Adhoga-Raktapitta, and Raktagulma these all conditions can be considered for Differential Diagnosis for Gynecologic cancer

- **1. Raktpradar:** It is irregular and excessive bleeding during menstrual or inter-menstrual period. In *Raktapradar*, causative Dosha is *Vata* and Dushya (dushta dhatu) is *Rakta*. Rakta aggravates Pitta also. On the basis of foul smelling, multicoloured discharges and incurability, this *Sannipataja Raktapradar* seems to be description of Uterine and Cervical carcinoma.
- **2. Rakataja Arbuda**: Derivation of word *Arbuda* by Amarkosha is that which grows very fast. According to its specific clinical features (covered with muscular sprouts and continuous bleeding etc.) as well as nature of incurability, the *Rakataja Arbuda* appears to be description of cancer.

- 3. Rakta Gulma: It deals with the various new growth of female genital tract. The disordered Doshas after reaching Kostha (abdominal cavity) produces Gulma. The origin of growth is un-traceable. Rakta gulma peculiar to women arises from disordered Rakta i.e. Artava. The vata prakop along with other disordered doshas attacks the previously formed sthan-vaigunya. As more and more dosha get collected at the site, gulma increases in size. Artav-rodha means disturbed physiology of menstruation, resulting either into amenorrhea or menorrhagia. Digestive disturbances- nausea, vomiting, diaohrea, indigestion, loss of appetite, pain in abdomen. Ovarian carcinoma can be diagnosed as *Rakta gulma*.
- **4.** Rakta Yoni / Asruja yoni-vyapada: Due to excessive use of *Rakta* and *Pitta* aggravating factors, the Rakta situated in reproductive organs get vitiated by Pitta and then there is excessive bleeding per vagina.
- 5. Artava dushti / Rajo dushti: These are menstrual disorders of 8 types- Vataja, Pittaja, Kaphaja, Kunapgandhi, Granthibhuta, Putipuya, Kshina and Mutrapurish-gandhi.

Kunapgandhi Artava dushti- (smell of a dead body) caused by *Rakta*, characterized by menorrhagia. It is found in necrosis of tissues occurring in carcinoma, which is incurable. It can be considered as early stage of endometrial carcinoma.

Granthibhuta Artava dushti- (clotted appearance) caused by Kapha and Vata. Here clotted appearance probably refers to thick mucoid or mucopurulent discharges associated with slough, often seen in malignant disorders of reproductive organ especially cervical carcinoma.

Putipuya Artava dushti- (putrid and purulent) caused by *Pitta* and *Kapha*. Infective condition of reproductive system like severe endometritis leading to pyometra. Pyometra is associated with endometrial carcinoma.

Mutrapurish-gandhi Artava dushti- Sometimes in advanced Cervical carcinoma (3rd or 4th stage), this type of smell of urine and feces in menstrual blood may be noticed.

Pre-cancerous conditions: - Yoni-vyapada, Karnini yonivyapada- cervical erosion, Kaphaja arbuda- fibroid, *Yoni arsha-* polyps, *granthis*.

Samprapti of cancer of female reproductive system

- **Doshas** *Tridosha*, predominantly- *Pitta*, *Vata*.
- Dushva- Rakta, Mamsa.
- Sthan-vaigunya is produced in a female genital track by the following factors: multiple pregnancies, abortion or miscarriages, disease of genital tract, high fertility.
- Strotodushti- Rasavaha, Raktavaha, Artavavaha, Mamsavaha, Medovaha.

Treatment approach to Gynecologic cancer

Line of Treatment approach (along with standard conventional treatment) –

- Endometrial and Cervical carcinoma- treatment of Raktapradara and Artava-dushti.
- Ovarian carcinoma- treatment of Rakta-gulma.
- Breast carcinoma- treatment of Arbuda.
- Hetu Viparita treatment- treatment of vitiated Rakta, Pitta and Vata.
- Vyadhi Viparita treatment treatment of Raktapradara, Rakta-gulma, Adhoga Raktapitta, Yoni vyapada, Artava dushti.
- Preparations can be used- Pushanug chruna, Shatavari-ghruta, Kushmanda-khanda, Bol-parpati, Pradarantak-ras, Pradarari-loha, Jeerakadi-avaleha, Ashokarishta, Dhataki-pushpa, Darvyadi kvatha.

Prevention of Cancer

Up to 85% of cancers can be prevented by avoiding environmental risk factors. Though age, race, gender and family history cannot be changed, knowing your personal cancer risk can help you devise a prevention strategy with regular screening and healthy lifestyle choices for creating balance of Doshas just by adding more fruits and vegetables to your diet or it can mean putting down your pack of cigarettes, tobacco and alcohol. Cancer occurs due to DNA damage and we think that this DNA damage may occurs due to Apathya Ahar-Vihar and not following Dincharya, Ritucharya prescribed by Ayurveda. To prevent the cancer, the only thing in our hand that to follow *Pathyakar Ahar-Vihar*, to make changes according to *Dincharya*, *Ritucharya* as possible.

Conclusion

Cancer is the deadliest disease mentioned in Modern medicine because till now it doesn't have any proper treatment and which is available is having lots of side effects hampering the quality of life. Therefore there is a need for integrative approach with Ayurveda to control the progression of the cancer and preventing the side effects of treatment.

Cancer is not mentioned in Ayurveda directly and there is no need to give a particular name to a disease, just see the signs and symptoms and think about dushta dosha, dushya and srotas and treat according to them. But the same kind of signs & symptoms are mentioned for the arbuda, gulma, & granthi which are also incurable like cancer and the treatment mentioned in Ayurveda for them can prevent from the progression of the cancer disease. And if this treatment can help to prevent the disease, means this can be help to cure the disease only need is to do proper research on it.

Cancer can be curable in future with the help of preventing the causative environmental factor & devising an integrative approach to cancer treatment by exploring the Ayurvedic principles

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