Cancer – fighters can live more

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Abstract.
Research study of cancer start with simplest questions like what is cancer? Isn’t it normal? Any treatment available? How much it will cost? Basically Cancer is not single disease it is mixture of more than 100 of diseases. The most deadliest disease which is spread worldwide. Cancer is the example of how normal cell growth can turn into life threatening disease. How it begins? Cells are the basic fundamental unit of human body. Cells grow and divide and get old and damaged and after that replace by new cells. But cancer begins when there are genetic changes takes place with older process and that time cells start to grow uncontrollably. This growth is turned into tumor. Tumor can be cancerous or benign. Cancerous tumor can be malignant while benign tumor is mild and don’t speed thoroughly in body.

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**Introduction:**

Cancers are classified by the type of cell that the tumor is similar and the origin of the tumor. Like carcinomas, sarcomas, lymphoma, leukemia, germ cell tumor, blastoma and hematologic Cancer. Etc.

**Detail description**

**- Hematologic Cancer**

These are the cancer of blood cells, including leukemia, lymphoma, and multiple myeloma

**- Carcinomas**

Carcinomas derived from epithelial cell, A carcinoma begins in the skin or the tissue that covers the surface of internal organs and glands. They are the most common type of cancer. carcinomas include prostate cancer, breast cancer, lung cancer, and colorectal cancer i.e. cancer of colon.

**- Sarcomas**

A sarcoma begins in the connective tissues, i.e. bone, cartilage, fat, etc

**- Leukemias**

Leukemia is a cancer of the blood. Leukemia begins when healthy blood cells change and grow uncontrollably. The 4 main types of leukemia are acute lymphocytic leukemia, chronic lymphocytic leukemia, acute myeloid leukemia, and chronic myeloid leukemia.

**- Lymphomas**

Lymphoma is the cancer of lymphatic system. Cells when leave the marrow and tend to mature in lymph nodes. Lymphatic system helps in fight infection. There are mainly two types of lymphoma

There are 2 main types of lymphomas:

a) Hodgkin lymphoma

b) non-Hodgkin lymphoma.

**- How does Cancer develop**

Basically our body is made up of no of cells. Cancer starts with the change in single cells or small group of cells. Each cell has unique function in cell division but when cell pattern changes the then cells start to grow to much and multiply fast and turn into a lump or tumor.

Primary tumor is site where actually cancer starts, for example leukemia, that is it can grow in the blood stream.
Sometimes it can develop in bone marrow and of course other parts of the body also, like wise bones, liver, lungs, brain etc.

Gene is basic carrier of all information. When cell have to perform specific function gene is instructor for that. Sometimes changes happen in gene when cell division takes place and this is known as mutation. Means gene is missing, copied or has been damaged and this can also be one more reason to development of tumor. When tumor gets bigger it will turn into cancer.

- International Data analysis of cancer patients

**India**

In the last year, 2020, The National Cancer Registry Programme of India held the survey among all over states of India for survey of cancer patients and shows horrible results from all the people’s as 'One in every nine Indians' will likely develop cancer in age of 0–75 age.

In year of 2020, out of total population of 1.3 billion of Indians shown that 6.5 million Males and 7.1 million Females are suffering from different types of cancer(fig 1.).

**Table shows Annual Average No of Patients for all sites of cancer with incidence rate per 100000, and mortality rate by sex**
This statistical data shows, In India most common cancers are Cervical cancer, Ovarian Cancer, Breast cancer in females and lung cancer, head and neck and Oral Cancer in males.

Among all affected people 57% female suffering from breast cancer, 60% suffering from cervix uterine cancer while 50% of male suffering from stomach and liver cancer.

The Aizawl district shows highest no of Male cancer patients and Manipur state shows lowest no of male cancer patients in northeast side, while Bhopal state shows modest no of male patient and Wardha district shows lowest rate in central region. While talking about North, south and East region, Delhi shows 147 rate per 100000 people, thipuram district shows 137.8 /100000 people and Kolkata shows 91.2 males / 100000 people. Respectively.

While talking about female rate, according to every regions i.e. Northeast, South, central, west, east and north will get to know that highest rate is shown in Papumpare district followed by Banglore I e 146.8/ 100000 followed by Bhopal, after that Mumbai shows highest rate of mortality bin female i.e 116.2/100000 and Kolkata district shows lowest 89.2 in east region.

Kyrgyzstan

In Kyrgyzstani out of total population of 6.692 million, 30,000 were affected by cancer out of that most of the female are affected by cervical cancer, ovarian cancer and breast cancer while male are affected by lung and liver cancer due to excessive consumption of alcohol.

As per the survey of 2020, total 7075 new cases were found out of that 1027 people suffering from stomach cancer, 11.2% suffering from lung cancer, 770 approximately 10.9% females suffering from breast cancer. 6.7% out of 7075 are suffering from liver cancer(fig 2).

- Treatment and Cost:

There are no cures for any kinds of cancer, but there are treatments that may cure you.

Surgery, chemotherapy, and radiation are the main therapy to get recover from cancer.

Cost for treatment –

Generally, according to AARP MAGAZINE, the total cost of cancer treatment on an average is $150000. However this number may be much greater or smaller depending on the patients
Cancer treatments, insurance and resources.

In India, in the government sector there are few hospitals which treat cancer patients for free of cost:

1. Tata Memorial hospital, Mumbai.
2. The regioCancer Center, Thiruvananthapuram.
3. The Cancer Institute (WIA), Chennai.
4. Cancer Aid and Research Foundation (CARF)
5. Kidwai Memorial Institute of Oncology (KMIO), Bangalore.
Conclusion:
So far that, cancer is the most deadliest disease in the world, 10 Million deaths per year happen because of cancer, but early diagnosis and with proper support of medications, surgeries and chemotherapies person can get back to his normal life. But with this all, Healthy – stressfree life and reduce use of alcohol and smoking can lead everyone to disease free body, so that maintaining regular life style is good for everyone.

While talking about cancer patient, “ Helping Hands are always better than the praying lips.” Instead of making them feel left out we should help cancer patient either financially or by means of moral support. Every cancer patients have right to live more with proper love and care.

References:
[4] List of certified Hospital for cancer treatment in India https://www.kotaklife.com/_open access
[7] Cancer in 21 century- Ситдыкова М.Р(Бюллетень медицинских Интернет-конференций (ISSN 2224-6150)p- 1625)
[8] INDIVIDUALIZATION OF CANCER TREATMENT: CONTRIBUTION OF OMICS TECHNOLOGIES CONTRIBUTION OF OMICS TECHNOLOGIES TO CANCER DIAGNOSTIC- S. SOUCHELNYTSKYI(Haykovi statti,2013,p-105-116)