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Cbse biology project on cancer pdf

Academia.edu use cookies to personalize content, tailor ads, and improve the user experience. By using our site, you may agree to our collection of information using cookies. To learn more, privacy policy.× Cancer is one of the most feared diseases in the world and affects 11 lakh people every year in India only. Worldwide, more than 10 million people succumb to the disease every year. Let us examine what is cancer, causes of cancer, symptoms, diagnosis and cancer treatment. Cell differentiation and proliferation in humans are highly manipulated and regulated by the mechanism of cell division. Uncontrolled cell division occurs when a process called contact inhibition fails. In healthy organisms, during this process, when cells come into contact with other cells, the process of cell replication stops. As a result, contact inhibition becomes a powerful anti-cancer mechanism, but it disappears in cancer cells. Therefore, most types of cancer have tumors (excluding blood cancers). Usually all tumors are estimated to be 1000 - but this is a misunderstanding. When a tumor spreads only to other parts of the body, a tumor is divided into one of these three types depending on the ability (spread) to metastasis: Benign Tumor These tumors are localized in a specific place in the body. In addition, it does not spread to other parts of the body and is usually harmless. However, a benign tumor occurs in areas such as the brain, they can open fatally. Treatment usually includes surgery and does not grow back. Malignant Tumor These tumors are cancerous – they mean that they will grow rapidly and spread to other normal tissues of the body. This propagation ability is called metastasis. Usually, when cancer cells enter the bloodstream or lymph nodes, they form secondary tumors in metastasis and various sites in the body. Premalign tumor This type of tumor may be benign, but it has been observed to have malignant tumor properties. He may not have metastasis yet, but he has the potential to turn into cancer. In other words, premalignant tumor is a type of tumor at high risk of getting cancer. Benign tumors become premalignant and eventually malignant. Types of Cancer From a medical point of view, cancer types can be classified according to the type of cell from which they originate. Therefore cancer can be classified: Carcinoma The most common form of cancer, these epithelial cells are caused by connective tissues such as Sarcoma cartilage, fat and bone tissues. Melanoma is caused by melanocytes, the type of cell that contains pigments. Lymphoma & Leukemia is caused by blood-forming cells (such as b lymphocytes or white blood cells) Causes of cancer Many factors are attributed to causing cancer. The most likely factors are: Physical factors – Ionizing radiation such as X-rays Gamma rays Chemical factors – Biological factors such as tobacco and smoke – Viral oncogenes, proto-oncogenes and cellular oncogenes The above factors are called carcinogens. Diagnosis of cancer Diagnosis and diagnosis of cancer is very important before it spreads to other parts of the body. Identifying cancer genes is crucial to prevent cancer. The following methods are used to detect cancer - Biopsy. Tissue histoatological studies. Radiography technique. Computed tomography. Magnetic resonance imaging. Molecular biology techniques. Cancer treatment Widely, the treatment can be used for three types of cancer. Surgery - Surgical localized cancerous mass removal (effective for benign tumors) Radiation therapy - In this treatment, radiation is used to kill cancer cells. Chemotherapy - Chemotherapy drugs are used to kill cancer cells. Many chemical drugs have side effects in cancer patients, such as hair loss. That is, interferons are injected into cancer patients to develop immunity to these side effects. To learn more about cancer and its side effects, visit BYJU's. My Whats App : +91-8398957646 My Email Id : bkm.7899@gmail.com CANCER INTRODUCTION This Project Report / Trial - Cancer. Among diseases, Cancer ranks highly as a major killer responsible in recent years. It is estimated that about one million people in the United States of Cancer are treated for the cancer variety every year. More than half of them are new cases that have been diagnosed for the first time throughout the year. If current trends continue, approximately one forward of the country's citizens will develop cancer sooner or later. These are various types of cancer, all malignant tumors. A tumor is a swelling or mass caused by abnormal growth of tissue. Cancer is likely to damage any or all parts of the body significantly or vital organs or tissues. It causes a serious illness and often death. OBSERVATION :- Now one day, many people suffer from the inevitable disease known as cancer. PROBLEM :- Cancer still charges a large number of lines. Despite effective treatment, basic understanding of the causes and factors responsible for cancer. HYPOTHESIS :- 1. Cancer remains unidentified at the first stage. 2. Carcinogens cause cancer that is prevented in the environment due to pollution. 3. Normal genes of the body become defective and cause cancer. 4. Lack of public awareness to identify cancer. Cancer is an inedigable disease but can be treated with a combination of surgery, drugs and radiation therapy. Project Report Cancer Disease CANCER TYPES Some important types of cancer are:- 1. Leukemia : Blood cancer, in which white blood cells show an abnormal increase. 2. Carcinomas : Cancer of epithelial cells. 3. Sarcomas : Connective tissue cancer. 4. Lymphomas : Lymphatic tissue cancer. 5. Lipomas : Adipose tissue cancer. FEATURES OF CANCER CELLS A few important features of Cancer Cells are given below: 1. Cancer cultures are immortal, immortal it can grow indefinitely. 2. Cancer cell contact inhibition. 3. Cancer Cells lack intracellin cell adhesion. 4. Cancer Cells are not linked to anchorage. 5. Molecular changes were found in all membrane components (glycolyceids and glycoprotein) in cancer cells. 6. Tuberos cells have to grow and multiply because the normal cell consumes much more glucose. The cause of cancer is not fully understood. However, some chemicals are known to cause carcinogens or cancer. Some causes of cancer are given below: 1. Smoking and some chemicals found in smoke, asbestoses, nickel and some dyes specify only a few of the many substances that cause cancer induction. 2. Heredity has a definite effect on the formation of cancer in man. 3. Exposure to ultraviolet rays also causes cancer. 4. X-Rays can also cause cancer. 5. Chewing tobacco is also the main cause of oral cancer. 6. Syphilis of the tongue, jagged teeth usually before tongue cancer. There must be other factors that cause cancer. We should pay attention to any condition that can cause cancer or early symptoms of what can cause cancer. SYMPTOMS OF CANCER 1. A permanent lump or thickening in the tissue, especially on the lip and language or in the udder. 2. Unexplained weight. 3. Difficulty swallowing. 4. Persistent cough or hoarseness. 5. A change in digestive habits. 6. Blood loss through natural hole or excessively up-to-date blood loss in women. 7. Color change of infected areas (such as male warts) 8. A swelling or sore throat that does not heal easily. Carcinogen Target Tissue 1. Coulter (3, 4 benzopirene) Skin, Lungs 2. Cadmium Oxide Prostrate gingi notes 3. Afiotoxin (a mold metabolite) Liver 4. Mustard gas Lungs 5. Nickel and Chromium Lungs 6. 2-Naphthylamine and 4- aminobiphynle Urine sac 7. Smoking Smoke Lungs place for cancer cancer has a unique feature that occurs in any part of the body. Now there is a list in various parts of the body where cancer is commonly appearing in alphabetical order. 1. Bile Ducts: Bile ducts may be related to cancer developing within the canals or cancer in neighboring structures. The previous important symptom of jaundage, which results in constant congestion in the bile flow. 2. Breast : Breast is where cancer is common in women Breast tubers are caused by cancer. In other words, the physician is interested in the case of early tubers in the breast, he has to distinguish between benign tumor and malignant. 3. Bone : Bone cancer grows due to blood discharges or some neighboring organs or tissues. Bone cancer causes pain to swell and weaken the bone. 4. Esophagus : Cancer of the esophagus is also common, which can occur in any part of the organ from the lower throat, but mostly in the lower part. It has difficulty swallowing due to cancer of the esophagus. 5. Lung : Lung cancer it is more pronounced in our country, which causes maximum death in our country. The main cause of lung cancer is smoking without treatment, the rate of milking for the usual type of lung cancer is zero. In the total type of cancer, 40% are infected with lung cancer. Cause of high mortality rate : 1. It is highly malignant. 2. Does not cause pronounced early symptoms. 6. Ovary : This is the most terrible cancer among women. In our country, most women died of ovarian cancer. This can be treated with surgery. 7. Pancreatic : Pancreatic cancer causes pain in the upper part of the membrate. Pancreatic cancer also causes jaunds. Cancer pancreas highly malignant cancer is more common in men than in women. This can be removed by surgery. 8. Stomach: Gastric cancer is also more common in men than in women. Symptoms can be caused by indigestion, loss of appetite, weight loss, etc. Surgical removal of all or part of the stomach without delay is only a suitable treatment. 9. Thyroid : This cancer causes the growth of the thyroid gland and the development of nodules in the gland. Removal of these nodules is very necessary for the treatment of this disease. 10. Language : Tongue cancer causes more deaths than another cancer in the mouth. Causes permanent inflammation. Project Report Cancer Disease Diagnosis : Tissue biopsy, endoscopy (gastro-coverage for the stomach), X-ray ultrasound are important tests. Antkarcinogens : Substances that prevent carcinogenic substances from moving. Antkarcinogens consist of green yellow vegetables, fruits, milk. Riboflavin (milk), flavonoids (green-yellow vegetables and fruits), vitamin C, indoles (Cabbage) etc. B-carotene found in green yellow vegetables is the organizer-inhibitor that weakens the action of cancer organizers. Cancer Treatment: Surgery, Bone marrow grafting (for leukemia), radiotherapy (exposure to radio isotopes), hormonal therapy, chemotherapy therapy (use of chemicals) are more toxic drugs for cancer cells than normal cells. Two drugs (Vincristin and Vinblastin) kataranthus roseus (Vinca-rosea) are effective in the control of leukemia. Toksal Taxus baccata is the obtained antiquated drug. CONCLUSION Cancer disease is incurable, but timely action can to some extent cure this disease. X-Rays and Radium have been proven to be a valuable helper of surgery in the treatment of many cases. They provide the only useful treatment for cancer of lymph node tissues, expanded irritation that is very treatable for cancers also help reduce and give relief to cancer tissue. If any suspicious signs or symptoms are observed, we think we should consult an experienced doctor through examination and advice. Delay can cause death or a person. Therefore, such a delay is very dangerous. Bibliography Internet Source : www.google.com www.yahoo.com Chemistry Projects Biology Projects Physics Projects Projects

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