Parkland College

A with Honors Projects

Honors Program

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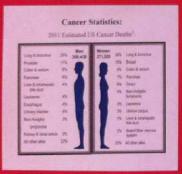
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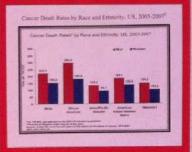
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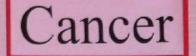
Introduction:

Concer is the leading cause of death in lass developed concerties and the second leading cause of death in developing constraint? The last 50 years have seen a better understanding of the causes and trutments of causer. Hence, the regime, early detaction and technology have improved the prognosis of causer patients to an argenesidented level; but shue is Causer?

Causar is a term used to describe a larger group of diseases that are characterized by a cellular mathanchine. Hashiny cellular me programsed to throw what no do and where to do it. Catacarnia cells do not have this programming so they grow and replicate net of control¹¹. They also serve are biological function hance these cellus are most properly terred as a neoplater at this profit.







Diah-Aldeen Judeh Honor Project BIO-121

Tumors:

The neoplasmic mass often forms a champing of offit town as a numer. Non-concernse cells divide and replace at a computed rate. A cancerness tunner is a mass of absormal even four divide executively quickly and don't carry out the normal functions of those towar. These cells are often irregular in size and shape. As these cells divide and multiply, a rationer cean gradually entry. These net two major distingtive tumory. Benipp Tumors Mathemat Tumory

 Software errors)
 (Cascernos):

 > Enclosed in a filmous shell
 > Not usually contained (Meantrasis)

 > Crancerned if they
 > Invade and emit claw/like

 Concernation of the interference with untrounding interfere with untrounding interfere with untrounding interfere with untrounding the RNA and DNA of acomut certs (act like a wirms).
 Take up Space



Major Types of Cancer:

In general, a cancer is named according to the type of tissue in which it first forms. Classification of Cancer' Surcomus: cancer of connective tissue Carconomic, cancer arising from epithelium tskin)

Lumphomas cancer of lymphoid tissue

- Leukempas: cancer of stem cells
- Gliomax cancer of brain glial cells



What Causes Cancer (Risk Factors):

Biological Factors

at

Genetic Predisposition
 Reproductive and hormonal risks

Occupational and Environmental Factors

 Asbestos, nickel shromate, hydrocaubons, vinyl chloride, and benzene (All carcinogene)
 Radioactive substances like UV radiation, N-rays, Radon.

cosmic mys. and gamma radiation Social and Psychological Factors:

> Stress

> Anxiety and depression

Chemicals in Food:

> Sodiam nitrite
 > Clostridium botulism

Viral Factors

Herpes-related virus and human papillomavirus
 Virul DNA may be inserted into a bost cell's DNA

Medical Factors:

Distiligitatibeatrol (DES)
 Chemotherapy



Cancer is a genetic disease that develops in a predictable asymptotic disease that develops the approximation of a normal cell into a cancerous cell. Siles cancer can ensult from genetic alterations in multiple geness like onlow cancer where the Cansensoreme 56, 129, 18q, 17p are shread. Enlimited manufacture in the APC gene dramatically interests risk of color cancer.

Cancert smally involves ar-eral genes hile tonsor impressing gones. [BRCA2] and BRCA2 are examples of a timore suppressing gate?. Also more than, ball of cancers have a monitod or mining p53 gene which codes for a regulatory protein that turn off call division when the call is stressed or damaged?

Detecting Cancer:

Early and Accurate diagnosis of cancer is important to maximize the channess that a cancer can be cauced. Some common scancer signs to hook out for are a sore that does not heat, unreadblooding or bloody disolarge, thakening are large indigation or distinguly workswing, dovious diagne rat aware or mole, and magning cough. Several tests a person can do to detect amount

Blood Tests-Detect chemical indications of cancer like tumor markets

Medical Integring-Reveals the site and size of a turnor like magnetic resonance imaging (MRI), X-mays, ultrasound, computerized tomography (CT), indicative tracers, and DNA probe.

Riopsy-A sure way to diagnose cancer is by a removal and microscopic examination of tissue.

Microscope Image Shows Carcentus Cells in Breast Tissue



Cancer Treatment and Prevention:

Chemotherapy-drugs used to kill cancer cells, disrupt source aspect of cell division. The downside is that it's toxic to health cells.

> Radiation Therapy-radionsotopes used such as Ra-226 and

- Co-60. Used when cancer is small or has not spread. > Surgery-physical removal of cancer cell.
- > Furnite

> Eat vegetables and trunts

> Don't amoke