

Cure For Cancer Project

As presented by:



Project Guidelines:

- 7 slides minimum
- Font size no smaller than 20
- Vocabulary directed to peer audience (no cutting and pasting)
- Visual aid
- APA ([web-based](#) site)

Content for each slide

1. Body/Organ/Tissue
2. Mitosis
3. Cell/organelle/gene
4. Target of treatment in body/cell
5. Mechanism (how does it work?)
6. Effectiveness (how well is it predicted to work?)
7. Side-effects (why do they occur?)

1. Leukemia: Blood Cancer

Leukemia is a type of cancer that affects the blood and bone marrow. It begins in the bone marrow and spread to blood cells. The cancer grows from the red blood cells to the white blood cells so the body can't fight infection. This causes the blood to thin, cut and bruise easily. The skin can also get red dots called petechiae, they are caused by broken blood vessels called capillaries.



Leukemia effects on the cell cycle

The cell cycle, the process by which cells progress and divide, lies at the heart of cancer. In normal cells, the cell cycle is controlled by a complex series of signaling pathways by which a cell grows, replicates its DNA and divides. This process also includes mechanisms to ensure errors are corrected, and if not, the cells commit suicide (apoptosis). In cancer, as a result of genetic mutations, this regulatory process malfunctions, resulting in uncontrolled cell proliferation.

3. Cancer: Genetics

Leukemia is a cancer in a person's bone marrow what affects the white blood cells. Leukemia causes multiple problems within the body, there are less blood cells in the body which circulates less oxygen and heals cuts slower than usual. Infections are also more likely fore leukemia affects the immune cells , Leukemia does not form a solid tumor and is known by professionals as a liquid tumor.

4. Treatment: Radiation/Chemotherapy

Radiation therapy uses X-rays or other high-energy beams to damage leukemia cells and stop their growth. During radiation therapy, you lie on a table while a large machine moves around you, directing the radiation to precise points on your body.



Chemotherapy is the major form of treatment for leukemia. This drug treatment uses chemicals to kill leukemia cells.



5. Mechanism

6. Effectiveness

7. Side-effects

Leukemia has a multitude of side effects such as nausea, mouth sores, fatigue, anemia, low levels of platelets,.One of the side effects of chemotherapy is low white blood cells.

References