



Potential Therapeutics Applications of Cancer Diagnosis and Treatment

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DESCRIPTION

Chemotherapy, radiation therapy, hormone therapy, targeted therapy including immunotherapy like monoclonal antibody therapy and synthetic lethality can all be used to treat cancer, usually in the form of a sequence of different therapies (e.g. chemotherapy before surgery). The type of therapy is determined by the location, size and stage of the disease as well as the general health of the patient (performance status). Cancer genome sequencing aids in identifying the precise type of cancer a patient has in order to choose the most effective treatment. Additionally numerous cancer treatments under development are experimental. According to current projections two in five individuals will develop cancer at some point throughout their lifespan.

Types of treatments

As knowledge of the underlying biological processes has grown to approach for treating cancer. Radiation therapy and hormone therapy were created in the late 19th century while tumor removal surgeries were described in ancient Egypt. The 20th century gave us chemotherapy, immunotherapy and more modern targeted medicines. Treatments will be developed and adjusted to improve efficacy, precision, survival and quality of life when new knowledge about the biology of cancer is revealed. Radiation therapy, Radiation treatment as well-known as radiotherapy is a cancer treatment that uses high doses of radiation to eradicate remaining cancer cells. Radiation is used at smaller concentrations in x-rays to penetrate your body just as it is in x-rays of your tooth surfaces or shattered bones.

- How radiation treatment fights cancer
- Radiation treatment types
- Why radiation therapy is given to cancer patients
- Types of cancer that radiation therapy is used to treat

- Combining radiation with other cancer therapies
- Limitations on cumulative doses
- Radiation treatment may have negative effects.
- Costs associated with radiation therapy
- During radiation therapy, a special diet is required.
- Working while receiving radiation treatment

Hormone therapy

Female hormones are present in medications used for hormone replacement therapy. The drug to replenish the lost oestrogen caused by menopause. Hormone levels and genital tract soreness are two common menopausal symptoms that are frequently treated with hormone therapy. Hormone therapy has also been shown in postmenopausal women to minimize fractures and stop bone loss. However, the use of hormonal treatment is not without risk. The type of hormonal treatment the dosage, the time frame for therapy and personal health risks all have an impact on these risks. Hormone therapy should be tailored to each patient and reevaluated on a regular basis to ensure that the benefits continue to outweigh the drawbacks.

A cancer early detection and treatment strategy is a major element of any comprehensive cancer control strategy. Its main objective is to either completely cure cancer patients or improvement of life their lives while preserving a high quality of life. A diagnosis and treatment plan should never be created in a hoover if it is to be effective. It must be linked to an early diagnostic program in order to identify patients when they are still treatable and more likely to be cured. It must also be combined with a palliative care curriculum to provide patients with advanced cancers who are no longer candidates for treatment with appropriate reliever from their physical emotional and spiritual distress.

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